



# The *bidi Package*

Source documentation for *version 40.0*

*to my Master, Ferdowsi The Great*

If you want to report any bugs or typos and corrections in the documentation, or ask for any new features, or suggest any improvements, or ask any questions about the package, then please use the issue tracker:

<https://github.com/xepersian/bidi/issues>

In doing so, please always explain your issue well enough, and always include a minimal working example showing the issue.

You may also have conversations, ask questions and post answers without opening issues using the Discussions space:

<https://github.com/xepersian/bidi/discussions>

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# The *bid*i Package

## Bidirectional typesetting in plain T<sub>E</sub>X and L<sup>A</sup>T<sub>E</sub>X, using XeT<sub>E</sub>X engine

Source documentation for [version 40.0](#)

Vafa Khalighi\*

December 8, 2024

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\*Thanks to the bidi-tex GitHub organization consisted of David Carlisle and other members of the L<sup>A</sup>T<sub>E</sub>X team for maintaining the package in the period 2018–2020.

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## 1 File amsart-xetex-bidi.def

```
1 \ProvidesFile{amsart-xetex-bidi.def}[2017/08/09 v1.1 bidi adaptations for amsart class for
2 \def\@tocline#1#2#3#4#5#6#7{\relax
3   \ifnum #1>\c@tocdepth % then omit
4   \else
5     \par \addpenalty\@secpenalty\addvspace{#2}%
6     \begingroup \hyphenpenalty\@M
7     \ifempty{#4}{%
8       \@tempdima\csname r@tocindent\number#1\endcsname\relax
9     }{%
10      \@tempdima#4\relax
11    }%
12    \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else
13    \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
14    #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
15    \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16    \nobreak
17    \endgroup
18  \fi}
19 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
20 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
21 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
22 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
23 \def\part{\@startsection{part}{0}%
24   \z@\linespacing\@plus\linespacing}{.5\linespacing}%
25   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
26 \def\right@footnoterule{%
27   \kern-.4\p@
28   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
29   \kern11\p@\kern-\footnotesep}
30 \def\left@footnoterule{\kern-.4\p@
31   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
32
33
34 \long\def\@footnotetext#1{%
35   \insert\footins{%
36     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
37     \reset@font%
38     \bidi@footnotetext@font% \normalfont\footnotesize
39     \interlinepenalty\interfootnotelinepenalty
40     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
41     \floatingpenalty\@MM \hsize\columnwidth
42     \@parboxrestore \parindent\normalparindent \sloppy
43     \protected@edef\@currentlabel{%
44       \csname p@footnote\endcsname\@thefnmark}%
45     \@makefntext{%
46       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}%
47
48 \long\def\@RTLfootnotetext#1{%
49   \insert\footins{%
50     \@RTLtrue%
51     \reset@font%
52     \bidi@RTLfootnotetext@font% \normalfont\footnotesize
```



```

53 \interlinepenalty\interfootnotelinepenalty
54 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
55 \floatingpenalty\@MM \hsize\columnwidth
56 \@parboxrestore \parindent\normalparindent \sloppy
57 \protected@edef\@currentlabel{%
58   \csname p@footnote\endcsname\@thefnmark}%
59 \@makefnfntext{%
60   \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
61
62
63
64 \long\def\@LTRfootnotetext#1{%
65   \insert\footins{%
66     \RTLfalse%
67     \reset@font%
68     \bidi@@LTRfootnotetext@font% \normalfont\footnotesize
69     \interlinepenalty\interfootnotelinepenalty
70     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
71     \floatingpenalty\@MM \hsize\columnwidth
72     \@parboxrestore \parindent\normalparindent \sloppy
73     \protected@edef\@currentlabel{%
74       \csname p@footnote\endcsname\@thefnmark}%
75     \@makefnfntext{%
76       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
77
78
79 \footdir@temp\footdir@ORG@bidi@amsart@footnotetext\@footnotetext{\bidi@footdir@footnote}%
80 \footdir@temp\footdir@ORG@bidi@amsart@RTLfootnotetext\@RTLfootnotetext{R}%
81 \footdir@temp\footdir@ORG@bidi@amsart@LTRfootnotetext\@LTRfootnotetext{L}%
82
83 \renewenvironment{thebibliography}[1]{%
84   \@bibtitlestyle
85   \normalfont\bibliofont\labelsep .5em\relax
86   \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\empty
87   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
88   \bidi@@thebibliography@font@hook%
89   \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
90     \leftmargin\labelwidth \advance\leftmargin\labelsep
91     \usecounter{enumiv}}%
92   \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
93   \sfcode\`.\@m
94 }{%
95   \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
96   \endlist
97 }
98 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
99   \columnseprule\z@ \columnsep 35p@
100   \@indextitlestyle
101   \thispagestyle{plain}%
102   \let\item\@idxitem
103   \parindent\z@ \parskip\z@\@plus.3p@\relax
104   \if@RTL\raggedleft\else\raggedright\fi
105   \hyphenpenalty\@M
106   \footnotesize}

```



```

107 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
108 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
109 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
110 \def\maketitle{\par
111   \@topnum\z@ % this prevents figures from falling at the top of page 1
112   \@setcopyright
113   \thispagestyle{firstpage}% this sets first page specifications
114   \uppercase\nonmath\shorttitle
115   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
116   \else \andify\shortauthors
117   \fi
118   \@maketitle@hook
119   \begingroup
120   \@maketitle
121   \toks@{\@xp{\shortauthors}\@temptokena\@xp{\shorttitle}}%
122   \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
123   \edef\@tempa{%
124     \@nx\markboth{\the\toks4
125       \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
126   \@tempa
127   \endgroup
128   \c@footnote\z@
129   \@cleartopmattertags
130 }

```

## 2 File adjmulticol-xetex-bidi.def

```

131 \ProvidesFile{adjmulticol-xetex-bidi.def}[2015/04/25 v0.1 bidi adaptations for adjmulticol]
132 \def\adjmulticols#1#2#3{\col@number#1\relax
133   \def\@tempa{#2}%
134   \ifx\@tempa\@empty\adjmc@inner\z@\else\adjmc@inner#2\fi
135   \def\@tempa{#3}%
136   \ifx\@tempa\@empty\adjmc@outer\z@\else\adjmc@outer#3\fi
137   \ifnum\col@number<\@ne
138     \PackageWarning{adjmulticol}%
139       {Using '\number\col@number'
140        columns doesn't seem a good idea.^^J
141        I therefore use one columns instead}%
142     \col@number\@ne\fi
143   \ifnum\col@number>10
144     \PackageError{adjmulticol}%
145       {Too many columns}%
146       {Current implementation doesn't
147        support more than 10 columns.%
148       \MessageBreak
149       I therefore use 10 columns instead}%
150     \col@number10 \fi
151   \ifx\@footnotetext\mult@footnotetext\else
152     \let\orig@footnotetext\@footnotetext
153     \let\@footnotetext\mult@footnotetext
154   \fi
155   \ifx\@LTRfootnotetext\mult@LTRfootnotetext\else
156     \let\orig@LTRfootnotetext\@LTRfootnotetext
157     \let\@LTRfootnotetext\mult@LTRfootnotetext

```





```

158 \fi
159 \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
160 \let\orig@RTLfootnotetext\@RTLfootnotetext
161 \let\@RTLfootnotetext\mult@RTLfootnotetext
162 \fi
163 \@ifnextchar[\@adjmult@cols{\@adjmult@cols[]}]
164 \let\adjmc@page@sofar@orig=\page@sofar

```

### 3 File algorithm2e-xetex-bidi.def

```

165 \ProvidesFile{algorithm2e-xetex-bidi.def}[2018/09/23 v0.2 bidi adaptations for algorithm2e]
166 \expandafter\ifx\csname algocf@within\endcsname\relax% if \algocf@within doesn't exist
167 \else%
168 \renewcommand\thealgocf{\csname the\algocf@within\endcsname\@SepMark\@arabic\c@algocf}%
169 \fi
170 \@ifpackageloaded{color}{\%
171 \bidi@patchcmd{\@algocf@start}{\bgroup}{\%
172 \bgroup
173 \if@RTL
174 \beginR
175 \else
176 \beginL
177 \fi
178 }{}{}
179 \bidi@patchcmd{\@algocf@finish}{\egroup\end{lrbox}}{\%
180 \if@RTL
181 \endR
182 \else
183 \endL
184 \fi
185 \egroup
186 \end{lrbox}}%
187 }{}{}
188 \bidi@patchcmd{\algocf@makecaption}{\hbox}{\%
189 \if@RTL
190 \hboxR
191 \else
192 \hboxL
193 \fi
194 }{}{}
195 }

```

### 4 File amsbook-xetex-bidi.def

```

196 \ProvidesFile{amsbook-xetex-bidi.def}[2017/08/09 v1.2 bidi adaptations for amsbook class]
197 \def\@tocline#1#2#3#4#5#6#7{\relax
198 \ifnum #1>\c@tocdepth % then omit
199 \else
200 \par \addpenalty\@secpenalty\addvspace{#2}%
201 \begingroup \hyphenpenalty\@M
202 \@ifempty{#4}{\%
203 \@tempdima\csname r@tocindent\number#1\endcsname\relax
204 }{\%
205 \@tempdima#4\relax

```



```

206 }%
207 \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else
208 \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
209 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
210 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
211 \nobreak
212 \endgroup
213 \fi}
214 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
215 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
216 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
217 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
218 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
219 \columnseprule\z@ \columnsep 35\p@
220 \@indextitlestyle
221 \thispagestyle{plain}%
222 \let\item\@idxitem
223 \parindent\z@ \parskip\z@\@plus.3\p@\relax
224 \if@RTL\raggedleft\else\raggedright\fi
225 \hyphenpenalty\@M
226 \footnotesize}
227 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
228 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
229 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
230 \def\right@footnoterule{%
231 \kern-.4\p@
232 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
233 \kern11\p@\kern-\footnotesep}
234 \def\left@footnoterule{\kern-.4\p@
235 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
236
237 \long\def\@footnotetext#1{%
238 \insert\footins{%
239 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
240 \reset@font%
241 \bidi@@footnotetext@font% \normalfont\footnotesize
242 \interlinepenalty\interfootnotelinepenalty
243 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
244 \floatingpenalty\@MM \hsize\columnwidth
245 \@parboxrestore \parindent\normalparindent \sloppy
246 \protected@edef\@currentlabel{%
247 \csname p@footnote\endcsname\@thefnmark}%
248 \@makefnmark%
249 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
250
251 \long\def\@RTLfootnotetext#1{%
252 \insert\footins{%
253 \@RTLtrue%
254 \reset@font%
255 \bidi@@RTLfootnotetext@font% \normalfont\footnotesize
256 \interlinepenalty\interfootnotelinepenalty
257 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
258 \floatingpenalty\@MM \hsize\columnwidth
259 \@parboxrestore \parindent\normalparindent \sloppy

```



```

260 \protected@edef\@currentlabel{%
261 \csname p@footnote\endcsname\@thefnmark}%
262 \@makefntext{%
263 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
264
265
266 \long\def\@LTRfootnotetext#1{%
267 \insert\footins{%
268 \@RTLfalse%
269 \reset@font%
270 \bidi\@LTRfootnotetext@font% \normalfont\footnotesize
271 \interlinepenalty\interfootnotelinepenalty
272 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
273 \floatingpenalty\@MM \hsize\columnwidth
274 \@parboxrestore \parindent\normalparindent \sloppy
275 \protected@edef\@currentlabel{%
276 \csname p@footnote\endcsname\@thefnmark}%
277 \@makefntext{%
278 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
279
280
281
282 \footdir@temp\footdir@ORG@bidi@amsbook@footnotetext\@footnotetext{\bidi@footdir@footnote}%
283 \footdir@temp\footdir@ORG@bidi@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
284 \footdir@temp\footdir@ORG@bidi@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%
285
286 \renewenvironment{thebibliography}[1]{%
287 \@bibtitlestyle
288 \normalfont\bibliofont\labelsep .5em\relax
289 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\empty
290 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
291 \bidi\@thebibliography@font@hook%
292 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
293 \leftmargin\labelwidth \advance\leftmargin\labelsep
294 \usecounter{enumiv}}%
295 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
296 \sfcode\`.\@m
297 }{%
298 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
299 \endlist
300 }
301 \def\@makechapterhead#1{\global\topskip 7.5pc\relax
302 \begingroup
303 \fontsize{\@xivpt}{18}\bfseries\centering
304 \ifnum\c@secnumdepth>\m@ne
305 \leavevmode \hskip-\if@RTL\rightskip\else\leftskip\fi
306 \rlap{\vbox to\z@{\vss
307 \centerline{\normalsize\mdseries
308 \uppercase\@xp{\chaptername}\enspace\thechapter}
309 \vskip 3pc}}\hskip\if@RTL\rightskip\else\leftskip\fi\fi
310 #1\par \endgroup
311 \skip@34\p@ \advance\skip@-\normalbaselineskip
312 \vskip\skip@ }
313 \def\maketitle{\par

```



```

314 \@topnum\z@ % this prevents figures from falling at the top of page 1
315 \begingroup
316 \@maketitle
317 \endgroup
318 \c@footnote\z@
319 \def\do##1{\let##1\relax}%
320 \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
321 \do\author \do\@xauthor \do\address \do\@xaddress
322 \do\email \do\@xemail \do\curraddr \do\@xcurraddr
323 \do\dedicatory \do\@dedicatory \do\thanks \do\@thankses
324 \do\keywords \do\@keywords \do\subjclass \do\@subjclass
325 }

```

## 5 File amsmath-xetex-bidi.def

```

326 \ProvidesFile{amsmath-xetex-bidi.def}[2020/05/16 v1.2 bidi adaptations for amsmath package]
327 \let\veqno=\eqno
328 \iftagsleft@ \let\veqno=\leqno \fi
329 \renewcommand{\numberwithin}[3][\arabic]{%
330   \@ifundefined{c@#2}{\@nocounterr{#2}}{%
331     \@ifundefined{c@#3}{\@nocnterr{#3}}{%
332       \@addtoreset{#2}{#3}%
333       \exp\xdef\csname the#2\endcsname{%
334         \exp\nx\csname the#3\endcsname \nx\@SepMark\nx#1{#2}}}%
335 }
336 \def\tagform@#1{\maketag@@@{\if@nonlatin\beginR\fi(\kern\z@\ignorespaces#1\unskip\@italic
337
338 \bidi@patchcmd\math@cr@@@align\place@tag{%
339   \place@tag
340   \else
341     \place@tag
342 }{}{}
343

```

## 6 File amstext-xetex-bidi.def

```

344 \ProvidesFile{amstext-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for amstext package]
345 \def\textdef@#1#2#3{\hbox{%
346   \everymath{#1}%
347   \let\fontsize#2\selectfont
348   \if@nonlatin\beginR\fi#3\if@nonlatin\endR\fi}}}

```

## 7 File amsthm-xetex-bidi.def

```

349 \ProvidesFile{amsthm-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for amsthm package]
350 \def\@thmcountersep{\@SepMark}

```

## 8 File array-xetex-bidi.def

```

351 \ProvidesFile{array-xetex-bidi.def}[2024/12/07 v0.4 bidi adaptations for array package]
352 \def\@testpach{\@chclass
353   \ifnum \@lastchclass=6 \one \@chnum \one \else
354   \ifnum \@lastchclass=7 5 \else
355   \ifnum \@lastchclass=8 \tw@ \else

```



```

356 \ifnum \@lastchclass=9 \thr@@
357 \else \z@
358 \ifnum \@lastchclass = 10 \else
359 \edef\@nextchar{\expandafter\string\@nextchar}%
360 \@chnum
361 \if \@nextchar c\z@ \else
362 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
363 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
364 \z@ \@chclass
365 \if \@nextchar |\@ne \else
366 \if \@nextchar !6 \else
367 \if \@nextchar @7 \else
368 \if \@nextchar <8 \else
369 \if \@nextchar >9 \else
370 10
371 \@chnum
372 \if \@nextchar m\thr@@ \else
373 \if \@nextchar p4 \else
374 \if \@nextchar b5 \else
375 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi
376 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
377 \def\@tabular{%
378 \leavevmode
379 \UseTaggingSocket{tbl/hmode/begin}%
380 \hbox \bgroup\if@RTLtab\beginR \fi $\col@sep\tabcolsep \let\d@llarbegin\begin\group
381 \let\d@llarend\endgroup
382 \@tabarray}
383 \def\endtabular{\endarray\m@th $\if@RTLtab\endR\fi\egroup
384 \UseTaggingSocket{tbl/hmode/end}%
385 }
386 \expandafter\let\csname endtabular*\endcsname=\endtabular
387 \ExplSyntaxOn
388 \def\@array[#1]#2{
389 \@tempdima \ht \strutbox
390 \advance \@tempdima by\extrarowheight
391 \setbox \@arstrutbox \hbox{\vrule
392 \height \arraystretch \@tempdima
393 \depth \arraystretch \dp \strutbox
394 \width \z@}%
395 \tbl_save_outer_table_cols:
396 \begin\group
397 \mkpream{#2}%
398 \tbl_count_table_cols:
399 \xdef\@preamble{
400 \noexpand \ar@ialign
401 \@halignto
402 \bgroup \@arstrut
403 \UseTaggingSocket{tbl/row/begin}
404 \tbl_init_cell_data_for_row:
405 \@preamble
406 \tabskip \z@ \cr}
407 \end\group
408 \@arrayleft
409 \if #1t\top \else \if#1b\ vbox \else \vcenter \fi \fi

```



```

410 \bgroup
411 \let \@sharp ##\let \protect \relax
412 \lineskip \z@
413 \baselineskip \z@
414 \mathsurround \z@
415 \let\\\@arraycr \let\tabularnewline\\\let\par\@empty
416 \UseTaggingSocket{tbl/init}
417 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
418 \@preamble
419 }
420 \ExplSyntaxOff
421 \def\@tabarray{\@ifnextchar[{\@array}{\@array[c]}}
422 \ExplSyntaxOn
423 \def\endarray {
424 \tbl_crr:n{endarray} \egroup
425 \if@RTLtab\egroup\endR\egroup\fi
426 \UseTaggingSocket{tbl/finalize}
427 \tbl_restore_outer_cell_data:
428 \egroup
429 \@arrayright \gdef\@preamble{}%
430 }
431 \ExplSyntaxOff
432 \def\array{\col@sep\arraycolsep
433 \def\d@llarbegin{$}\let\d@llarend\d@llarbegin\def\@halignto{}}%
434 \@RTLtabfalse\@tabarray}

```

## 9 File article-xetex-bidi.def

```

435 \ProvidesFile{article-xetex-bidi.def}[2024/12/07 v0.7 bidi adaptations for standard article]
436 \if@titlepage
437 \renewcommand\maketitle{\begin{titlepage}%
438 \let\footnotesize\small
439 \let\right@footnoterule\relax
440 \let\left@footnoterule\relax
441 \let\textwidth@footnoterule\relax
442 \let \footnote \thanks
443 \let \LTRfootnote \LTRthanks
444 \let \RTLfootnote \RTLthanks
445 \null\vfil
446 \vskip 60\p@
447 \begin{center}%
448 {\LARGE \@title \par}%
449 \vskip 3em%
450 {\large
451 \lineskip .75em%
452 \begin{tabular}[t]{c}%
453 \@author
454 \end{tabular}\par}%
455 \vskip 1.5em%
456 {\large \@date \par}% % Set date in \large size.
457 \end{center}\par
458 \@thanks
459 \vfil\null
460 \end{titlepage}%

```



```

461 \setcounter{footnote}{0}%
462 \global\let\thanks\relax
463 \global\let\LTRthanks\relax
464 \global\let\RTLthanks\relax
465 \global\let\maketitle\relax
466 \global\let\@thanks\@empty
467 \global\let\@author\@empty
468 \global\let\@date\@empty
469 \global\let\@title\@empty
470 \global\let\title\relax
471 \global\let\author\relax
472 \global\let\date\relax
473 \global\let\and\relax
474 }
475 \else
476 \renewcommand\maketitle{\par
477 \begingroup
478 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
479 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
480 \long\def\@makefntext##1{\parindent 1em\noindent
481 \hb@xt@1.8em{%
482 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
483 \if@twocolumn
484 \ifnum \col@number=\@ne
485 \@maketitle
486 \else
487 \twocolumn[\@maketitle]%
488 \fi
489 \else
490 \newpage
491 \global\@topnum\z@ % Prevents figures from going at top of page.
492 \@maketitle
493 \fi
494 \thispagestyle{plain}\@thanks
495 \endgroup
496 \setcounter{footnote}{0}%
497 \global\let\thanks\relax
498 \global\let\LTRthanks\relax
499 \global\let\RTLthanks\relax
500 \global\let\maketitle\relax
501 \global\let\@maketitle\relax
502 \global\let\@thanks\@empty
503 \global\let\@author\@empty
504 \global\let\@date\@empty
505 \global\let\@title\@empty
506 \global\let\title\relax
507 \global\let\author\relax
508 \global\let\date\relax
509 \global\let\and\relax
510 }
511 \def\@maketitle{%
512 \newpage
513 \null
514 \vskip 2em%

```



```

515 \begin{center}%
516 \let \footnote \thanks
517 \let \LTRfootnote \LTRthanks
518 \let \RTLfootnote \RTLthanks
519 {\LARGE \@title \par}%
520 \vskip 1.5em%
521 {\large
522 \lineskip .5em%
523 \begin{tabular}[t]{c}%
524 \author
525 \end{tabular}\par}%
526 \vskip 1em%
527 {\large \@date}%
528 \end{center}%
529 \par
530 \vskip 1.5em}
531 \fi
532 \renewcommand*\l@part[2]{%
533 \ifnum \c@tocdepth >-2\relax
534 \addpenalty\@secpenalty
535 \addvspace{2.25em \@plus\p@}%
536 \setlength\@tempdima{3em}%
537 \begingroup
538 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
539 \parfillskip -\@pnumwidth
540 {\leavevmode
541 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
542 \nobreak
543 \if@compatibility
544 \global\@nobreaktrue
545 \everypar{\global\@nobreakfalse\everypar{}}%
546 \fi
547 \endgroup
548 \fi}
549 \renewcommand*\l@section[2]{%
550 \ifnum \c@tocdepth >\z@
551 \addpenalty\@secpenalty
552 \addvspace{1.0em \@plus\p@}%
553 \setlength\@tempdima{1.5em}%
554 \begingroup
555 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
556 \parfillskip -\@pnumwidth
557 \leavevmode \bfseries
558 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
559 \hskip -\if@RTL\rightskip\else\leftskip\fi
560 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
561 \endgroup
562 \fi}
563 \renewcommand\left@footnoterule{%
564 \kern-3\p@
565 \hrule\@width.4\columnwidth
566 \kern2.6\p@}
567 \renewcommand\right@footnoterule{%
568 \kern-3\p@

```





```

569 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
570 \kern2.6\p@}
571 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@section}
572 \renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
573 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
574 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
575 \def\@part[#1]#2{%
576   \ifnum \c@secnumdepth >\m@ne
577     \refstepcounter{part}%
578     \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
579   \else
580     \addcontentsline{toc}{part}{#1}%
581   \fi
582   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
583     \interlinepenalty \@M
584     \normalfont
585     \ifnum \c@secnumdepth >\m@ne
586       \Large\bfseries \partname\nobreakspace\thepart
587       \par\nobreak
588     \fi
589     \huge \bfseries #2%
590     \markboth{}{}\par}%
591   \nobreak
592   \vskip 3ex
593   \@afterheading}
594 \bidi@patchcmd\@spart\raggedright{%
595   \if@RTL\raggedleft\else\raggedright\fi
596 }{}{\bidi@warningnoline{Oops! patching `string\@spart' failed}}
597 \renewenvironment{thebibliography}[1]
598   {\section*{\refname}%
599     \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
600     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
601     \bidi@thebibliography@font@hook%
602     \list{\@biblabel{\@arabic\c@enumiv}}%
603       {\settowidth\labelwidth{\@biblabel{#1}}%
604         \leftmargin\labelwidth
605         \advance\leftmargin\labelsep
606         \@openbib@code
607         \usecounter{enumiv}%
608         \let\p@enumiv\@empty
609         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
610     \sloppy
611     \clubpenalty4000
612     \@clubpenalty \clubpenalty
613     \widowpenalty4000%
614     \sfcode`. \m}
615   {\def\@noitemerr
616     {\@latex@warning{Empty `thebibliography' environment}}%
617   \endlist}
618 \renewenvironment{theindex}
619   {\if@twocolumn
620     \@restonecolfalse
621   \else
622     \@restonecoltrue

```



```

623         \fi
624         \columnseprule \z@
625         \columnsep 35\p@
626         \twocolumn[\section*{\indexname}]%
627         \@mkboth{\MakeUppercase\indexname}%
628                 {\MakeUppercase\indexname}%
629         \thispagestyle{plain}\parindent\z@
630         \parskip\z@ \@plus .3\p@\relax
631         \let\item\@idxitem}
632     {\if@restonecol\onecolumn\else\clearpage\fi}

```

## 10 File artikel1-xetex-bidi.def

```

633 \ProvidesFile{artikel1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel1 class]
634 \renewenvironment{theindex}{%
635     \if@twocolumn
636         \@restonecolfalse
637     \else
638         \@restonecoltrue
639     \fi
640     \columnseprule \z@
641     \columnsep 35\p@
642     \twocolumn[\section*{\indexname}]%
643     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
644     \thispagestyle{plain}\parindent\z@
645     \parskip\z@ \@plus .3\p@\relax
646     \let\item\@idxitem
647 }{%
648     \if@restonecol\onecolumn\else\clearpage\fi}
649 \renewcommand*{\head@style}{%
650     \interlinepenalty \@M
651     \hyphenpenalty=\@M \exhyphenpenalty=\@M
652     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
653 \if@titlepage
654     \renewenvironment{abstract}{%
655         \titlepage
656         \null\vfil
657         \section*{\SectFont\abstractname}
658         \noindent\ignorespaces}
659     {\par\vfil\null\endtitlepage}
660 \else
661     \renewenvironment{abstract}{%
662         \if@twocolumn
663             \section*{\abstractname}%
664         \else
665             \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
666             \section*{\small\SectFont\abstractname}%
667             \noindent\ignorespaces
668         \fi}
669     {\if@twocolumn\else\par\egroup\fi}
670 \fi
671 \renewcommand*{\@regtocline}[3]{%
672     \ifnum #1>\c@tocdepth
673     \else

```



```

674 \vskip\z@\@plus.2\p@
675 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
676 \if@RTL\rightrightskip\else\leftskip\fi\unitindent
677 \if@RTL\leftskip\else\rightrightskip\fi\unitindent\@plus 1fil
678 \parfillskip\z@
679 \@tempdima\unitindent
680 \parindent\z@
681 \leavevmode
682 \hbox{\hspace -\if@RTL\rightrightskip\else\leftskip\fi\relax#2\nobreak
683 \hspace 1em \nobreak{\slshape #3}\par
684 }%
685 \fi}
686 \if@oldtoc
687 \renewcommand*\l@part[2]{%
688 \ifnum \c@tocdepth >-2\relax
689 \addpenalty\@secpenalty
690 \addvspace{2.25em \@plus\p@}%
691 \begingroup
692 \setlength\@tempdima{3em}%
693 \parindent \z@ \if@RTL\leftskip\else\rightrightskip\fi \@pnumwidth
694 \parfillskip -\@pnumwidth
695 {\leavevmode
696 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
697 \nobreak
698 \if@compatibility
699 \global\@nobreaktrue
700 \everypar{\global\@nobreakfalse\everypar{}}%
701 \fi
702 \endgroup
703 \fi}
704 \else
705 \renewcommand*\l@part{%
706 \ifnum \c@tocdepth >-2\relax
707 \addpenalty\@secpenalty
708 \addvspace{2.25em \@plus \p@}%
709 \@regtocline{0}%
710 \fi}
711 \fi
712 \if@oldtoc
713 \renewcommand*\l@section[2]{%
714 \addpenalty\@secpenalty
715 \addvspace{1.0em \@plus\p@}%
716 \setlength\@tempdima{1.5em}%
717 \begingroup
718 \parindent \z@ \if@RTL\leftskip\else\rightrightskip\fi \@pnumwidth
719 \parfillskip -\@pnumwidth
720 \leavevmode \bfseries
721 \advance\if@RTL\rightrightskip\else\leftskip\fi\@tempdima
722 \hspace -\if@RTL\rightrightskip\else\leftskip\fi
723 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
724 \endgroup}
725 \else
726 \renewcommand*\l@section{\@regtocline{1}}
727 \fi

```



```

728 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
729 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
730 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
731 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
732 \renewenvironment{thebibliography}[1]
733   {\section*\refname}%
734   \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
735   \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
736   \bidi@thebibliography@font@hook%
737   \list{\@biblabel{\@arabic\c@enumiv}}%
738     {\settoheight\labelwidth{\@biblabel{#1}}%
739     \leftmargin\labelwidth
740     \advance\leftmargin\labelsep
741     \@openbib@code
742     \usecounter{enumiv}%
743     \let\p@enumiv\@empty
744     \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
745   \sloppy\clubpenalty4000\widowpenalty4000%
746   \sfcode\.\@m}
747   {\def\@noitemerr
748     {\@latex@warning{Empty `thebibliography' environment}}%
749     \endlist}
750 \renewcommand*\left@footnoterule{%
751   \kern-3\p@
752   \kern.5\baselineskip
753   \hrule\@width\unitindent
754   \kern.4\baselineskip
755 }
756 \renewcommand*\right@footnoterule{%
757   \kern-3\p@
758   \kern.5\baselineskip
759   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
760   \kern.4\baselineskip}
761 \if@titlepage
762 \renewcommand*\TitleFont{\rmfamily}
763 \renewcommand*\maketitle{%
764   \begin{titlepage}%
765     \let\footnotesize\small
766     \let\right@footnoterule\relax
767     \let\left@footnoterule\relax
768     \let\textwidth@footnoterule\relax
769     \let \footnote \thanks
770     \long\def\@makefnmark##1{\parindent\z@
771       \def\labelitemi{\textendash}\@revlabeltrue
772       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
773     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
774     \ifcompatibility\setcounter{page}{0}\fi
775     \null\vfil
776     \vskip 60\p@
777     \begin{center}%
778       \TitleFont
779       {\LARGE \def\\{\penalty -\@M}
780       \if@allcaps
781         \expandafter\uc@nothanks\@title\thanks\relax

```



```

782     \else
783     \@title
784     \fi\par}%
785     \vskip 3em%
786     {\large
787     \lineskip .75em \parindent\z@
788     \begin{tabular}[t]{c}%
789     \if@allcaps
790     \expandafter\uc@authornothanks\@author\and\relax
791     \else
792     \@author
793     \fi
794     \end{tabular}\par}%
795     \vskip 1.5em%
796     {\large
797     \if@allcaps
798     \uppercase\expandafter{\@date}%
799     \else
800     \@date
801     \fi\par}%
802     \end{center}\par
803     \@thanks
804     \vfil\null
805     \end{titlepage}%
806     \setcounter{footnote}{0}%
807     \global\let\thanks\relax
808     \global\let\maketitle\relax
809     \global\let\@thanks\@empty
810     \global\let\@author\@empty
811     \global\let\@title\@empty
812     \global\let\@date\@empty
813     \global\let\title\relax
814     \global\let\author\relax
815     \global\let\date\relax
816     \global\let\and\relax
817 }
818 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
819 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
820     \futurelet\@tempa\uc@ax}
821 \def\uc@ax{%
822     \ifx\@tempa\relax
823     \else
824     \\\andname \\\expandafter\uc@authornothanks
825     \fi}
826 \def\uc@tx{\ifx\@tempa\relax
827     \else \expandafter\uc@ty \fi}
828 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
829 \else
830 \renewcommand*\maketitle{\par
831     \begingroup
832     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
833     \def\@makefnmark{\rlap{%
834         \@textsuperscript{\normalfont\@thefnmark}}}%
835     \long\def\@makefntext{\@xmakefntext{

```



```

836     \@textsuperscript{\normalfont\@thefnmark}}}%
837 \if@twocolumn
838     \ifnum \col@number=\@ne
839         \@maketitle
840     \else
841         \twocolumn[\@maketitle]%
842     \fi
843 \else
844     \newpage
845     \global\@topnum\z@
846     \@maketitle
847 \fi
848 \thispagestyle{plain}\@thanks
849 \endgroup
850 \setcounter{footnote}{0}%
851 \global\let\thanks\relax
852 \global\let\maketitle\relax
853 \global\let\@maketitle\relax
854 \global\let\@thanks\@empty
855 \global\let\@author\@empty
856 \global\let\@title\@empty
857 \global\let\@date\@empty
858 \global\let\title\relax
859 \global\let\author\relax
860 \global\let\date\relax
861 \global\let\and\relax
862 }
863 \def\@maketitle{%
864     \newpage
865     \null
866     \vskip 2em%
867     \begin{center}%
868         \let \footnote \thanks
869         {\LARGE \TitleFont \@title \par}%
870         \vskip 1.5em%
871         {\large \TitleFont
872             \lineskip .5em%
873             \begin{tabular}[t]{c}%
874                 \@author
875             \end{tabular}\par}%
876         \vskip 1em%
877         {\large \TitleFont \@date}%
878     \end{center}%
879     \par
880     \vskip 1.5em}
881 \fi

```

## 11 File artikel2-xetex-bidi.def

```

882 \ProvidesFile{artikel2-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel2 class]
883 \renewenvironment{theindex}{%
884     \if@twocolumn
885         \@restonecolfalse
886     \else

```



```

887 \@restonecoltrue
888 \fi
889 \columnseprule \z@
890 \columnsep 35\p@
891 \twocolumn[\section*{\indexname}]{%
892 \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
893 \thispagestyle{plain}\parindent\z@
894 \parskip\z@ \@plus .3\p@\relax
895 \let\item\@idxitem
896 }{%
897 \if@restonecol\onecolumn\else\clearpage\fi}
898 \renewcommand*\@regtocline[3]{%
899 \ifnum #1>\c@tocdepth
900 \else
901 \vskip\z@\@plus.2\p@
902 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
903 \if@RTL\righskip\else\leftskip\fi\unitindent
904 \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
905 \parfillskip\z@
906 \@tempdima\unitindent
907 \advance\@tempdima by \othermargin
908 \parindent\z@
909 \leavevmode
910 \hbox{}\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
911 \hskip 1em \nobreak{\slshape #3}\par
912 }%
913 \fi}
914 \if@oldtoc
915 \renewcommand*\l@section[2]{%
916 \addpenalty\@secpenalty
917 \addvspace{1.0em \@plus\p@}%
918 \setlength\@tempdima{1.5em}%
919 \begingroup
920 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
921 \parfillskip -\@pnumwidth
922 \leavevmode \bfseries
923 \advance\if@RTL\righskip\else\leftskip\fi\@tempdima
924 \hskip -\if@RTL\righskip\else\leftskip\fi
925 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
926 \endgroup}
927 \else
928 \renewcommand*\l@section{\@regtocline{1}}
929 \fi
930 \if@oldtoc
931 \renewcommand*\l@part[2]{%
932 \ifnum \c@tocdepth >-2\relax
933 \addpenalty\@secpenalty
934 \addvspace{2.25em \@plus\p@}%
935 \begingroup
936 \setlength\@tempdima{3em}%
937 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
938 \parfillskip -\@pnumwidth
939 {\leavevmode
940 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par

```



```

941         \nobreak
942         \if@compatibility
943         \global\@nobreaktrue
944         \everypar{\global\@nobreakfalse\everypar{}}%
945     \fi
946 \endgroup
947 \fi}
948 \else
949     \renewcommand*\l@part{%
950         \ifnum \c@tocdepth >-2\relax
951         \addpenalty\@secpenalty
952         \addvspace{2.25em \@plus \p@}%
953         \@regtocline{0}%
954     \fi}
955 \fi
956 \renewcommand*\head@style{%
957     \interlinepenalty \@M
958     \hyphenpenalty=\@M \exhyphenpenalty=\@M
959     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
960 \if@titlepage
961     \renewenvironment{abstract}{%
962         \titlepage
963         \null\vfil
964         \section*{\SectFont\abstractname}%
965         \noindent\ignorespaces
966         {\par\vfil\null\endtitlepage}
967 \else
968     \renewenvironment{abstract}{%
969         \if@twocolumn
970         \section*{\abstractname}%
971         \else
972         \section*{\hskip\unitindent\small\SectFont\abstractname}%
973         \list{}{\setlength\listparindent{\unitindent}%
974             \setlength\parindent {\z@}%
975             \setlength\leftmargin {\unitindent}%
976             \setlength\rightmargin {\unitindent}%
977             \setlength\parsep {\z@}}%
978         \item[]%
979     \fi}
980     {\if@twocolumn\else\par\endlist\fi}
981 \fi
982 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
983 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
984 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
985 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
986 \renewcommand*\left@footnoterule{%
987     \kern-3\p@
988     \hrule\@width 3\unitindent
989     \kern 2.6\p@
990 }
991 \renewcommand*\right@footnoterule{%
992     \kern-3\p@
993     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-3\unitindent\relax \hrulefill }
994     \kern 2.6\p@}

```





```

995 \renewenvironment{thebibliography}[1]
996   {\section*{\refname}%
997     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
998     \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
999     \bidi@thebibliography@font@hook%
1000     \list{\@biblabel{\@arabic\c@enumiv}}%
1001       {\settowidth\labelwidth{\@biblabel{#1}}%
1002         \leftmargin\labelwidth
1003         \advance\leftmargin\labelsep
1004         \@openbib@code
1005         \usecounter{enumiv}%
1006         \let\p@enumiv\@empty
1007         \renewcommand*{theenumiv}{\@arabic\c@enumiv}}%
1008     \sloppy\clubpenalty4000\widowpenalty4000%
1009     \sfcode\@. \@m}
1010   {\def\@noitemerr
1011     {\@latex@warning{Empty `thebibliography' environment}}%
1012     \endlist}
1013 \if@titlepage
1014 \renewcommand*{\TitleFont}{\rmfamily}
1015 \renewcommand*{\maketitle}{%
1016   \begin{titlepage}%
1017     \let\footnotesize\small
1018     \let\right@footnoterule\relax
1019     \let\left@footnoterule\relax
1020     \let\textwidth\footnoterule\relax
1021     \let\footnote\thanks
1022     \long\def\@makefntext##1{\parindent\z@
1023       \def\labelitemi{\textendash}\@revlabeltrue
1024       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1025     \renewcommand*{\thefootnote}{\@fnsymbol\c@footnote}%
1026     \if@compatibility\setcounter{page}{0}\fi
1027     \null\vfil
1028     \vskip 60\p@
1029     \begin{center}%
1030       \TitleFont
1031       {\LARGE \def\{\{\penalty -\@M}
1032         \if@allcaps
1033           \expandafter\uc@nothanks\@title\thanks\relax
1034         \else
1035           \@title
1036         \fi\par}%
1037       \vskip 3em%
1038       {\large
1039         \lineskip .75em \parindent\z@
1040         \begin{tabular}[t]{c}%
1041           \if@allcaps
1042             \expandafter\uc@authornothanks\@author\and\relax
1043           \else
1044             \@author
1045           \fi
1046         \end{tabular}\par}%
1047       \vskip 1.5em%
1048       {\large

```



```

1049     \if@allcaps
1050         \uppercase\expandafter{\@date}%
1051     \else
1052         \@date
1053     \fi\par}%
1054 \end{center}\par
1055 \@thanks
1056 \vfil\null
1057 \end{titlepage}%
1058 \setcounter{footnote}{0}%
1059 \global\let\thanks\relax
1060 \global\let\maketitle\relax
1061 \global\let\@thanks\@empty
1062 \global\let\@author\@empty
1063 \global\let\@title\@empty
1064 \global\let\@date\@empty
1065 \global\let\title\relax
1066 \global\let\author\relax
1067 \global\let\date\relax
1068 \global\let\and\relax
1069 }
1070 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1071 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1072     \futurelet\@tempa\uc@ax}
1073 \def\uc@ax{%
1074     \ifx\@tempa\relax
1075     \else
1076         \\\andname \\\expandafter\uc@authornothanks
1077     \fi}
1078 \def\uc@tx{\ifx\@tempa\relax
1079     \else \expandafter\uc@ty \fi}
1080 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1081 \else
1082 \renewcommand*\maketitle{\par
1083     \begingroup
1084         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1085         \long\def\@makefnstext##1{\parindent\z@
1086             \def\labelitemi{\textendash}%
1087             \leavevmode\hb@xt@.5\unitindent{%
1088                 \@textsuperscript{\normalfont\@thefnmark}\hfil}##1}
1089         \if@twocolumn
1090             \ifnum \col@number=\@one
1091                 \@maketitle
1092             \else
1093                 \twocolumn[\@maketitle]%
1094             \fi
1095         \else
1096             \newpage
1097             \global\@topnum\z@
1098             \@maketitle
1099         \fi
1100         \thispagestyle{plain}\@thanks
1101     \endgroup
1102     \setcounter{footnote}{0}%

```



```

1103 \global\let\thanks\relax
1104 \global\let\maketitle\relax
1105 \global\let\@maketitle\relax
1106 \global\let\@thanks\@empty
1107 \global\let\@author\@empty
1108 \global\let\@title\@empty
1109 \global\let\@date\@empty
1110 \global\let\title\relax
1111 \global\let\author\relax
1112 \global\let\date\relax
1113 \global\let\and\relax
1114 }
1115 \def\@maketitle{%
1116 \newpage
1117 \null
1118 \vskip 2em%
1119 \begin{center}%
1120 \let \footnote \thanks
1121 {\LARGE \TitleFont \@title \par}%
1122 \vskip 1.5em%
1123 {\large \TitleFont
1124 \lineskip .5em%
1125 \begin{tabular}[t]{c}%
1126 \@author
1127 \end{tabular}\par}%
1128 \vskip 1em%
1129 {\large \TitleFont \@date}%
1130 \end{center}%
1131 \par
1132 \vskip 1.5em}
1133 \fi

```

## 12 File artikel3-xetex-bidi.def

```

1134 \ProvidesFile{artikel3-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for artikel3 class]
1135 \renewenvironment{theindex}{%
1136 \if@twocolumn
1137 \@restonecolfalse
1138 \else
1139 \@restonecoltrue
1140 \fi
1141 \columnseprule \z@
1142 \columnsep 35\p@
1143 \twocolumn[\section*{\indexname}]{%
1144 \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
1145 \thispagestyle{plain}\parindent\z@
1146 \parskip\z@ \@plus .3\p@\relax
1147 \let\item\@idxitem
1148 }{%
1149 \if@restonecol\onecolumn\else\clearpage\fi}
1150 \renewcommand*{\head@style}{%
1151 \interlinepenalty \@M
1152 \hyphenpenalty=\@M \exhyphenpenalty=\@M
1153 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```



```

1154 \renewcommand*\@regtocline[3]{%
1155   \ifnum #1>\c@tocdepth
1156   \else
1157     \vskip\z@\@plus.2\p@
1158     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
1159     \if@RTL\righskip\else\leftskip\fi\unitindent
1160     \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
1161     \parfillskip\z@
1162     \@tempdima\unitindent
1163     \parindent\z@
1164     \leavevmode
1165     \hbox{}\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
1166     \hskip 1em \nobreak{\slshape #3}\par
1167   }%
1168 \fi}
1169 \if@oldtoc
1170 \renewcommand*\l@part[2]{%
1171   \ifnum \c@tocdepth >-2\relax
1172     \addpenalty\@secpenalty
1173     \addvspace{2.25em \@plus\p@}%
1174     \begingroup
1175       \setlength\@tempdima{3em}%
1176       \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
1177       \parfillskip -\@pnumwidth
1178       {\leavevmode
1179         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
1180         \nobreak
1181         \if@compatibility
1182         \global\@nobreaktrue
1183         \everypar{\global\@nobreakfalse\everypar{}}%
1184       \fi
1185     \endgroup
1186   \fi}
1187 \else
1188   \renewcommand*\l@part{%
1189     \ifnum \c@tocdepth >-2\relax
1190       \addpenalty\@secpenalty
1191       \addvspace{2.25em \@plus \p@}%
1192       \@regtocline{0}%
1193     \fi}
1194 \fi
1195
1196 \if@oldtoc
1197 \renewcommand*\l@section[2]{%
1198   \addpenalty\@secpenalty
1199   \addvspace{1.0em \@plus\p@}%
1200   \setlength\@tempdima{1.5em}%
1201   \begingroup
1202   \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
1203   \parfillskip -\@pnumwidth
1204   \leavevmode \bfseries
1205   \advance\if@RTL\righskip\else\leftskip\fi\@tempdima
1206   \hskip -\if@RTL\righskip\else\leftskip\fi
1207   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par

```



```

1208 \endgroup}
1209 \else
1210 \renewcommand*\l@section{\@regtocline{1}}
1211 \fi
1212 \if@titlepage
1213 \renewenvironment{abstract}{%
1214 \titlepage
1215 \null\vfil
1216 \section*\SectFont\abstractname}%
1217 \noindent\ignorespaces}
1218 {\par\vfil\null\endtitlepage}
1219 \else
1220 \renewenvironment{abstract}{%
1221 \if@twocolumn
1222 \section*\abstractname}%
1223 \else
1224 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
1225 \section*\small\SectFont\abstractname}%
1226 \noindent\ignorespaces
1227 \fi}
1228 {\if@twocolumn\else\par\egroup\fi}
1229 \fi
1230 \renewcommand*\left@footnoterule{%
1231 \kern-3\p@
1232 \kern.5\baselineskip
1233 \hrule\@width\unitindent
1234 \kern.4\baselineskip
1235 }
1236 \renewcommand*\right@footnoterule{%
1237 \kern-3\p@
1238 \kern.5\baselineskip
1239 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
1240 \kern.4\baselineskip}
1241 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1242 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1243 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1244 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1245 \renewenvironment{thebibliography}[1]
1246 {\section*\refname}%
1247 \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1248 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
1249 \bidi@thebibliography@font@hook%
1250 \list{\@biblabel{\@arabic\c@enumiv}}%
1251 {\settowidth\labelwidth{\@biblabel{#1}}%
1252 \leftmargin\labelwidth
1253 \advance\leftmargin\labelsep
1254 \openbib@code
1255 \usecounter{enumiv}%
1256 \let\p@enumiv\@empty
1257 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1258 \sloppy\clubpenalty4000\widowpenalty4000%
1259 \sfcode\.\@m}
1260 {\def\@noitemerr
1261 {\@latex@warning{Empty `thebibliography' environment}}}%

```



```

1262     \endlist}
1263 \if@titlepage
1264 \renewcommand*{\TitleFont}{\rmfamily}
1265 \renewcommand*{\maketitle}{%
1266   \begin{titlepage}%
1267     \let\footnotesize\small
1268     \let\right@footnoterule\relax
1269     \let\left@footnoterule\relax
1270     \let\textwidth@footnoterule\relax
1271     \let \footnote \thanks
1272     \long\def\@makefnmark##1{\parindent\z@
1273       \def\labelitemi{\textendash}\@revlabeltrue
1274       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1275     \renewcommand*{\thefootnote}{\@fnsymbol\c@footnote}%
1276     \if@compatibility\setcounter{page}{0}\fi
1277     \null\vfil
1278     \vskip 60\p@
1279     \begin{center}%
1280       \TitleFont
1281       {\LARGE \def\\{\penalty -\@M}
1282         \if@allcaps
1283           \expandafter\uc@nothanks\@title\thanks\relax
1284         \else
1285           \@title
1286         \fi\par}%
1287     \vskip 3em%
1288     {\large
1289       \lineskip .75em \parindent\z@
1290       \begin{tabular}[t]{c}%
1291         \if@allcaps
1292           \expandafter\uc@authornothanks\@author\and\relax
1293         \else
1294           \@author
1295         \fi
1296       \end{tabular}\par}%
1297     \vskip 1.5em%
1298     {\large
1299       \if@allcaps
1300         \uppercase\expandafter{\@date}%
1301       \else
1302         \@date
1303       \fi\par}%
1304     \end{center}\par
1305     \@thanks
1306     \vfil\null
1307   \end{titlepage}%
1308   \setcounter{footnote}{0}%
1309   \global\let\thanks\relax
1310   \global\let\maketitle\relax
1311   \global\let\@thanks\@empty
1312   \global\let\@author\@empty
1313   \global\let\@title\@empty
1314   \global\let\@date\@empty
1315   \global\let\title\relax

```



```

1316 \global\let\author\relax
1317 \global\let\date\relax
1318 \global\let\and\relax
1319 }
1320 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1321 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1322 \futurelet\@tempa\uc@ax}
1323 \def\uc@ax{%
1324 \ifx\@tempa\relax
1325 \else
1326 \\\andname \\\expandafter\uc@authornothanks
1327 \fi}
1328 \def\uc@tx{\ifx\@tempa\relax
1329 \else \expandafter\uc@ty \fi}
1330 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1331 \else
1332 \renewcommand*\maketitle{\par
1333 \begingroup
1334 \renewcommand*\thefootnote{\fnsymbol\c@footnote}%
1335 \def\@makefnmark{\rlap{%
1336 \textsuperscript{\normalfont\@thefnmark}}}%
1337 \long\def\@makefntext{\xmakefntext{%
1338 \textsuperscript{\normalfont\@thefnmark}}}%
1339 \if@twocolumn
1340 \ifnum \col@number=\@one
1341 \maketitle
1342 \else
1343 \twocolumn[\maketitle]%
1344 \fi
1345 \else
1346 \newpage
1347 \global\@topnum\z@
1348 \maketitle
1349 \fi
1350 \thispagestyle{plain}\@thanks
1351 \endgroup
1352 \setcounter{footnote}{0}%
1353 \global\let\thanks\relax
1354 \global\let\maketitle\relax
1355 \global\let\@maketitle\relax
1356 \global\let\@thanks\@empty
1357 \global\let\@author\@empty
1358 \global\let\@title\@empty
1359 \global\let\@date\@empty
1360 \global\let\title\relax
1361 \global\let\author\relax
1362 \global\let\date\relax
1363 \global\let\and\relax
1364 }
1365 \def\@maketitle{%
1366 \newpage
1367 \null
1368 \vskip 2em%
1369 \if@titlecentered

```



```

1370 \begin{center}%
1371 \let \footnote \thanks
1372 {\LARGE \TitleFont \@title \par}%
1373 \vskip 1.5em%
1374 {\large \TitleFont
1375 \lineskip .5em%
1376 \begin{tabular}[t]{c}%
1377 \author
1378 \end{tabular}\par}%
1379 \vskip 1em%
1380 {\large \TitleFont \@date}%
1381 \end{center}%
1382 \else
1383 {\LARGE \TitleFont \headstyle \@title \par} \vskip 1.5em
1384 {\large \TitleFont \lineskip .5em \tabcolsep\z@
1385 \def\and{%% \begin{tabular} has already started
1386 \end{tabular}\hskip 1em plus .17fil
1387 \ifRTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tab
1388 \ifRTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\author\end{tabular}
1389 \vskip 1em {\large \TitleFont \@date}
1390 \fi
1391 \par
1392 \vskip 1.5em}
1393 \fi

```

### 13 File arydshln-xetex-bidi.def

```

1394 \ProvidesFile{arydshln-xetex-bidi.def}[2010/08/01 v0.2 bidi adaptations for arydshln packag
1395 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \ifRTLtab\egroup\endR\egroup\fi\egro
1396 \def\endtabular{\endarray $\ifRTLtab\endR\fi\egroup}
1397 \expandafter\let\csname endtabular*\endcsname\endtabular
1398 \let\adl@array\@array
1399 \def\@array{\adl@everyvbox\everyvbox
1400 \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
1401 \ifadl@inactive \adl@inactivate \else \adl@activate \fi
1402 \let\adl@noalign\noalign
1403 \adl@array}
1404 \ifadl@usingarypkg
1405 \def\@testpach{\@chclass
1406 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
1407 \ifnum \@lastchclass=7 5 \else
1408 \ifnum \@lastchclass=8 \tw@ \else
1409 \ifnum \@lastchclass=9 \thr@@
1410 \else \z@
1411 \ifnum \@lastchclass = 10 \else
1412 \edef\@nextchar{\expandafter\string\@nextchar}%
1413 \@chnum
1414 \if \@nextchar c\z@ \else
1415 \if \@nextchar \ifRTLtab r\else l\fi\@ne \else
1416 \if \@nextchar \ifRTLtab l\else r\fi\tw@ \else
1417 \z@ \@chclass
1418 \if \@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
1419 \if \@nextchar : \@ne \let\@arrayrule\adl@arraydashrule \else
1420 \if \@nextchar ; \@ne \let\@arrayrule\adl@argarraydashrule \else

```





```

1421 \if \@nextchar !6 \else
1422 \if \@nextchar @7 \else
1423 \if \@nextchar <8 \else
1424 \if \@nextchar >9 \else
1425 10
1426 \@chnum
1427 \if \@nextchar m\thr@@\else
1428 \if \@nextchar p4 \else
1429 \if \@nextchar b5 \else
1430 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi
1431 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1432
1433 \def\@classz{\@classx
1434 \@tempcnta \count@
1435 \prepnext@tok
1436 \@addtopreamble{\ifcase \@chnum
1437 \hfil
1438 \adl@putlrc{\dollarbegin \insert@column \dollarend}\hfil \or
1439 \hskip1sp\adl@putlrc{\dollarbegin \insert@column \dollarend}\hfil \or
1440 \hfil\hskip1sp\adl@putlrc{\dollarbegin \insert@column \dollarend}\or
1441 \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
1442 \adl@endmbox\or
1443 \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
1444 \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1445 \fi}\prepnext@tok}
1446 \def\adl@classstart{4}
1447 \def\adl@class@iiiorvii{7}
1448
1449 \else
1450 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else
1451 \ifnum \@lastchclass=\thr@@ 5\relax \else
1452 \z@ \if #1c\@chnum \z@ \else
1453 \if \if@RTLtab#1r\else#1l\fi\@chnum \@one \else
1454 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
1455 \@chclass
1456 \if #1|\@one \let\@arrayrule\adl@arrayrule \else
1457 \if #1:\@one \let\@arrayrule\adl@arraydashrule \else
1458 \if #1;\@one \let\@arrayrule\adl@argarraydashrule \else
1459 \if #1@ \tw@ \else
1460 \if #1p\thr@@ \else \z@ \@preamerr 0\fi
1461 \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1462
1463 \def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1464 \or \or \@addamp \or
1465 \@acolampacol \or \@firstampfalse \@acol \fi
1466 \edef\@preamble{\@preamble
1467 \ifcase \@chnum
1468 \hfil\adl@putlrc{\$ \relax \@sharp$}\hfil
1469 \or \adl@putlrc{\$ \relax \@sharp$}\hfil
1470 \or \hfil\adl@putlrc{\$ \relax \@sharp$}\fi}}
1471 \def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1472 \or \or \@addamp \or
1473 \@acolampacol \or \@firstampfalse \@acol \fi
1474 \edef\@preamble{\@preamble

```



```

1475 \ifcase \@chnum
1476 \hfil\adl@putlrc{\@sharp\unskip}\hfil
1477 \or \adl@putlrc{\@sharp\unskip}\hfil
1478 \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
1479 \def\adl@class@start{6}
1480 \def\adl@class@iiiorvii{3}
1481 \fi
1482 \@ifpackageloaded{colortbl}{%
1483 \def\adl@inactivate{\adl@org@inactivate \let\CT@setup\adl@CT@setup}
1484 \def\adl@activate{\adl@org@activate \let\CT@setup\adl@act@CT@setup
1485 \let\@endpbox\adl@org@endpbox}
1486 \let\adl@CT@setup\CT@setup
1487 \def\CT@setup{\adl@CT@setup
1488 \@tempdima\ht\z@ \advance\@tempdima\minrowclearance
1489 \ifdim\adl@height<\@tempdima \global\adl@height\@tempdima \fi
1490 \ifdim\adl@depth<\dp\z@ \global\adl@depth\dp\z@\fi}
1491 \let\adl@act@CT@setup\CT@setup
1492 \def\@classz{\@classx
1493 \@tempcnta\count@ \prepnext@tok
1494 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
1495 \expandafter\adl@extract@arc\the\toks\@tempcnta\arrayrulecolor!\@nil
1496 \expandafter\adl@extract@drsc
1497 \the\toks\@tempcnta\doublerulesepcolor!\@nil
1498 \expandafter\adl@extract@dgc\the\toks\@tempcnta\dashgapcolor!\@nil
1499 \@addtopreamble{\if@RTL\beginL\fi%
1500 \setbox\z@\hbox\bgroup\bgroup\if@RTL\beginR\fi
1501 \ifcase \@chnum
1502 \hskip\stretch{.5}\kern\z@
1503 \dollarbegin
1504 \insert@column
1505 \dollarend\hskip\stretch{.5}%
1506 \or \dollarbegin \insert@column \dollarend \hfill
1507 \or \hfill \kern\z@ \dollarbegin \insert@column \dollarend
1508 \or $\vcenter
1509 \@startpbox{\@nextchar}\insert@column \@endpbox $%
1510 \or \vtop \@startpbox{\@nextchar}\insert@column \@endpbox
1511 \or \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1512 \fi
1513 \if@RTL\endR\fi\egroup\egroup
1514 \begingroup
1515 \CT@setup
1516 \CT@column@color
1517 \CT@row@color
1518 \CT@cell@color
1519 \CT@do@color
1520 \endgroup
1521 \@tempdima\ht\z@
1522 \advance\@tempdima\minrowclearance
1523 \vrule\@height\@tempdima\@width\z@
1524 \unhbox\z@\if@RTL\endL\fi}%
1525 \prepnext@tok}
1526 \let\adl@act@classz\@classz
1527 \let\adl@org@classz\@classz
1528 }-{}

```



## 14 File beamer-xetex-bidi.def

```
1529 \ProvidesFile{beamer-xetex-bidi.def}[2022/06/07 v0.3 bidi adaptations for beamer class for
1530 \AtBeginDocument{%
1531   \if@RTLmain
1532     \raggedleft
1533   \else
1534     \raggedright
1535   \fi
1536 }
1537
1538 \renewcommand*{\bidi@beamer@ragged}{%
1539   \if@RTL
1540     \raggedleft
1541   \else
1542     \raggedright
1543   \fi
1544 }
1545
1546
```

## 15 File beamerbaseauxtemplates-xetex-bidi.def

```
1547 \ProvidesFile{beamerbaseauxtemplates-xetex-bidi.def}[2023/08/02 v0.3 bidi adaptations for b
1548 \bidi@csundef{beamer@@tmpop@subsection in toc@sections numbered}
1549
1550 \bidi@csundef{beamer@@tmpop@subsubsection in toc@sections numbered}
1551
1552 \bidi@csundef{beamer@@tmpop@section in toc@subsections numbered}
1553
1554 \bidi@csundef{beamer@@tmpop@subsection in toc@subsections numbered}
1555
1556 \bidi@csundef{beamer@@tmpop@subsubsection in toc@subsections numbered}
1557
1558 \defbeamertemplate{subsection in toc}{sections numbered}
1559 {\leavevmode\bidi@beamer@leftskip=2.5em\inserttocsubsection\par}
1560
1561 \defbeamertemplate{subsubsection in toc}{sections numbered}
1562 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3.5em\usebeam
1563   \inserttocsubsubsection\par}
1564
1565 \defbeamertemplate{section in toc}{subsections numbered}
1566 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsection\par}
1567
1568 \defbeamertemplate{subsection in toc}{subsections numbered}
1569 {\leavevmode\bidi@beamer@leftskip=2em\rlap{\hskip-2em\inserttocsectionnumber.\inserttocsubs
1570
1571 \defbeamertemplate{subsubsection in toc}{subsections numbered}
1572 {\leavevmode\normalsize\usebeamerfont{subsection in
1573   toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1574   \inserttocsubsubsection\par}
1575
1576 \bidi@csundef{beamer@@tmpop@section in toc@circle}
1577
```



```

1578 \bidi@csundef{beamer@@tmpop@subsection in toc@circle}
1579
1580 \bidi@csundef{beamer@@tmpop@subsubsection in toc@circle}
1581
1582 \defbeamertemplate{section in toc}{circle}
1583 {\leavevmode\bidi@beamer@leftskip=2ex%
1584   \llap{%
1585     \usebeamerfont*{section number projected}%
1586     \usebeamercolor{section number projected}%
1587     \begin{pgfpicture}{-1ex}{0ex}{1ex}{2ex}
1588       \color{bg}
1589       \pgfpathcircle{\pgfpoint{0pt}{.75ex}}{1.2ex}
1590       \pgfusepath{fill}
1591       \pgftext[base]{\color{fg}\inserttocsectionnumber}
1592     \end{pgfpicture}\kern1.25ex%
1593   }%
1594   \inserttocsection\par}
1595
1596 \defbeamertemplate{subsection in toc}{circle}
1597 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsubsection\par}
1598
1599 \defbeamertemplate{subsubsection in toc}{circle}
1600 {\leavevmode\normalsize\usebeamerfont{subsection in
1601   toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1602   \inserttocsubsubsection\par}
1603
1604 \bidi@csundef{beamer@@tmpop@section in toc@square}
1605
1606 \bidi@csundef{beamer@@tmpop@subsection in toc@square}
1607
1608 \bidi@csundef{beamer@@tmpop@subsubsection in toc@square}
1609
1610 \bidi@csundef{beamer@@tmpop@enumerate item@square}
1611
1612 \bidi@csundef{beamer@@tmpop@enumerate subitem@square}
1613
1614 \bidi@csundef{beamer@@tmpop@enumerate subsubitem@square}
1615
1616 \bidi@csundef{beamer@@tmpop@enumerate mini template@square}
1617
1618 \defbeamertemplate{section in toc}{square}
1619 {\leavevmode\bidi@beamer@leftskip=3ex%
1620   \llap{%
1621     \usebeamerfont*{section number projected}%
1622     \usebeamercolor[bg]{section number projected}%
1623     \if@RTL
1624     \else
1625       \vrule width2.25ex height1.85ex depth.4ex%
1626       \hskip-2.25ex%
1627     \fi
1628     \hbox to2.25ex{{\hfil\color{fg}\inserttocsectionnumber\hfil}}%
1629     \if@RTL
1630     \hskip-2.25ex%
1631     \vrule width2.25ex height1.85ex depth.4ex%

```



```

1632 \fi
1633 }\kern1.25ex}%
1634 \inserttocsection\par}
1635
1636 \defbeamertemplate{subsection in toc}{square}
1637 {\leavevmode\bidibeamer@leftskip=5ex\llap{%
1638 \usebeamercolor[bg]{subsection number projected}%
1639 \vrule width1ex height1ex\kern1ex}}\inserttocsubsection\par}
1640
1641 \defbeamertemplate{subsubsection in toc}{square}
1642 {\leavevmode\normalsize\usebeamerfont{subsection in
1643 toc}\bidibeamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1644 \llap{%
1645 \usebeamercolor[bg]{subsubsection number projected}%
1646 \vrule width0.75ex height0.75ex\kern1ex}}\inserttocsubsubsection\par}
1647
1648 \defbeamertemplate{enumerate item}{square}
1649 {
1650 \hbox{%
1651 \usebeamerfont*{item projected}%
1652 \usebeamercolor[bg]{item projected}%
1653 \if@RTL
1654 \else
1655 \vrule width2.25ex height1.85ex depth.4ex%
1656 \hskip-2.25ex%
1657 \fi
1658 \hbox to2.25ex{%
1659 \hfil%
1660 \color{fg}\insertenumlabel%
1661 \hfil}}%
1662 \if@RTL
1663 \hskip-2.25ex%
1664 \vrule width2.25ex height1.85ex depth.4ex%
1665 \fi
1666 }}%
1667 }
1668 [action]
1669 {\setbeamerfont{item projected}{size=\scriptsize}}
1670
1671 \defbeamertemplate{enumerate subitem}{square}
1672 {
1673 \hbox{%
1674 \usebeamerfont*{subitem projected}%
1675 \usebeamercolor[bg]{subitem projected}%
1676 \if@RTL
1677 \else
1678 \vrule width2.25ex height1.85ex depth.4ex%
1679 \hskip-2.25ex%
1680 \fi
1681 \hbox to2.25ex{%
1682 \hfil%
1683 \color{fg}\insertsubenumlabel%
1684 \hfil}}%
1685 \if@RTL

```



```

1686         \hskip-2.25ex%
1687         \vrule width2.25ex height1.85ex depth.4ex%
1688     \fi
1689 }}%
1690 }
1691
1692 \defbeamertemplate{enumerate subsubitem}{square}
1693 {
1694     \hbox{%
1695         \usebeamerfont*{subitem projected}%
1696         \usebeamercolor[bg]{subsubitem projected}%
1697         \if@RTL
1698         \else
1699             \vrule width2.25ex height1.85ex depth.4ex%
1700             \hskip-2.25ex%
1701         \fi
1702         \hbox to2.25ex{%
1703             \hfil%
1704             \color{fg}\insertsubsubenumlabel%
1705             \hfil}%
1706         \if@RTL
1707             \hskip-2.25ex%
1708             \vrule width2.25ex height1.85ex depth.4ex%
1709         \fi
1710     }}%
1711 }
1712
1713 \defbeamertemplate{enumerate mini template}{square}
1714 {
1715     \hbox{%
1716         \usebeamerfont*{\beameritemnestingprefix item projected}%
1717         \usebeamercolor[bg]{\beameritemnestingprefix item projected}%
1718         \if@RTL
1719         \else
1720             \vrule width2.25ex height1.85ex depth.4ex%
1721             \hskip-2.25ex%
1722         \fi
1723         \hbox to2.25ex{%
1724             \hfil%
1725             \color{fg}\insertenumlabel%
1726             \hfil}%
1727         \if@RTL
1728             \hskip-2.25ex%
1729             \vrule width2.25ex height1.85ex depth.4ex%
1730         \fi
1731     }}%
1732 }
1733
1734 \bidi@csundef{beamer@@tmpop@section in toc@ball unnumbered}
1735
1736 \bidi@csundef{beamer@@tmpop@subsection in toc@ball unnumbered}
1737
1738 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball unnumbered}
1739

```



```

1740 \defbeamertemplate{section in toc}{ball unnumbered}
1741 {\leavevmode\bidibeamer@leftskip=2.25ex%
1742   \llap{%
1743     \raise0.1ex\beamer@usesphere{section number projected}{bigsphere}\kern1.25ex}%
1744   \inserttocsection\par}
1745
1746 \defbeamertemplate{subsection in toc}{ball unnumbered}
1747 {\leavevmode\bidibeamer@leftskip=5.1ex\llap{%
1748   \raise0.2ex\beamer@usesphere{subsection number projected}{smallsphere}\kern1ex}\insertt
1749
1750 \defbeamertemplate{subsubsection in toc}{ball unnumbered}
1751 {\leavevmode\normalsize\usebeamerfont{subsection in
1752   toc}\bidibeamer@leftskip=8.2ex\usebeamerfont{subsubsection in toc}%
1753   \llap{%
1754     \beamer@usesphere{subsubsection number projected}{smallsphere}\kern0.75ex}\inserttocsub
1755
1756 \bidi@csundef{beamer@@tmpop@section in toc@ball}
1757
1758 \bidi@csundef{beamer@@tmpop@subsection in toc@ball}
1759
1760 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball}
1761
1762 \defbeamertemplate{section in toc}{ball}
1763 {\leavevmode\bidibeamer@leftskip=2.75ex%
1764   \llap{%
1765     \normalsize%
1766     \begin{pgfpicture}{-1ex}{-0.7ex}{1ex}{1ex}
1767       \pgftext{\beamer@usesphere{section number projected}{tocsphere}}
1768       \pgftext{%
1769         \usebeamerfont*{section number projected}%
1770         \usebeamerfont{section number projected}%
1771         \color{fg!90!bg}%
1772         \inserttocsectionnumber}
1773     \end{pgfpicture}%
1774     \kern1.25ex}%
1775   \inserttocsection\par
1776 }
1777 [action]
1778 {\setbeamerfont{section number projected}{size=\scriptsize}}
1779
1780 \defbeamertemplate{subsection in toc}{ball}
1781 {\leavevmode\bidibeamer@leftskip=5ex%
1782   \llap{\raise0.1ex\beamer@usesphere{subsection number projected}{bigsphere}\kern1ex}%
1783   \inserttocsubsection\par%
1784 }
1785
1786 \defbeamertemplate{subsubsection in toc}{ball}
1787 {\leavevmode\normalsize\usebeamerfont{subsection in
1788   toc}\bidibeamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1789   \llap{\beamer@usesphere{subsubsection number projected}{bigsphere}\kern0.75ex}%
1790   \inserttocsubsubsection\par%
1791 }
1792
1793 \bidi@csundef{beamer@@tmpop@block begin@rounded}

```



```

1794
1795 \bidi@csundef{beamer@@tmpop@block alerted begin@rounded}
1796
1797 \bidi@csundef{beamer@@tmpop@block example begin@rounded}
1798
1799 \defbeamertemplate{block begin}{rounded}[1][shadow=false]
1800 {%
1801   \par\vskip\medskipamount%
1802   \begin{beamerboxesrounded}[upper=block title,lower=block body,#1]%
1803     {\raggedright\usebeamerfont*{block title}\insertblocktitle}%
1804     \bidi@beamer@ragged%
1805     \usebeamerfont{block body}%
1806 }
1807
1808 \defbeamertemplate{block alerted begin}{rounded}[1][shadow=false]
1809 {%
1810   \par\vskip\medskipamount%
1811   \begin{beamerboxesrounded}[upper=block title alerted,lower=block body alerted,#1]%
1812     {\raggedright\usebeamerfont*{block title alerted}\insertblocktitle}%
1813     \bidi@beamer@ragged%
1814     \usebeamerfont{block body alerted}%
1815 }%
1816
1817 \defbeamertemplate{block example begin}{rounded}[1][shadow=false]
1818 {%
1819   \par\vskip\medskipamount%
1820   \begin{beamerboxesrounded}[upper=block title example,lower=block body example,#1]
1821     {\raggedright\usebeamerfont*{block title example}\insertblocktitle}%
1822     \bidi@beamer@ragged%
1823     \usebeamerfont{block body example}%
1824 }%
1825
1826 \bidi@csundef{beamer@@tmpop@caption@caption name own line}
1827
1828 \defbeamertemplate{caption}{caption name own line}
1829 {%
1830   \begin{minipage}{\textwidth}
1831     \leavevmode
1832     \bidi@beamer@ragged
1833     {%
1834       \usebeamercolor[fg]{caption name}%
1835       \usebeamerfont*{caption name}%
1836       \insertcaptionname%
1837     }\\
1838     \insertcaption
1839   \end{minipage}
1840 }
1841

```

## 16 File beamerbaseboxes-xetex-bidi.def

```

1842 \ProvidesFile{beamerbaseboxes-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for beamerba
1843 \renewcommand\beamerboxesrounded[2] [] {%
1844   \global\let\beamer@firstlineitemizeunskip=\relax%

```





```

1845 \vbox\bgroup%
1846 \setkeys{beamerboxes}{upper=block title,lower=block body,width=\textwidth,shadow=false}%
1847 \setkeys{beamerboxes}{#1}%
1848 {%
1849 \usebeamercolor{\bmb@lower}%
1850 \globalcolorstrue%
1851 \colorlet{lower.bg}{bg}%
1852 }%
1853 {%
1854 \usebeamercolor{\bmb@upper}%
1855 \globalcolorstrue%
1856 \colorlet{upper.bg}{bg}%
1857 }%
1858 %
1859 % Typeset head
1860 %
1861 \vskip4bp
1862 \setbox\bmb@box=\hbox{%
1863 \begin{minipage}[b]{\bmb@width}%
1864 \usebeamercolor[fg]{\bmb@upper}%
1865 #2%
1866 \end{minipage}}%
1867 \ifdim\wd\bmb@box=0pt%
1868 \setbox\bmb@box=\hbox{}%
1869 \ht\bmb@box=1.5pt%
1870 \bmb@prevheight=-4.5pt%
1871 \else%
1872 \wd\bmb@box=\bmb@width%
1873 \bmb@temp=\dp\bmb@box%
1874 \ifdim\bmb@temp<1.5pt%
1875 \bmb@temp=1.5pt%
1876 \fi%
1877 \setbox\bmb@box=\hbox{\raise\bmb@temp\hbox{\box\bmb@box}}%
1878 \dp\bmb@box=0pt%
1879 \bmb@prevheight=\ht\bmb@box%
1880 \fi%
1881 \bmb@temp=\bmb@width%
1882 \bmb@dima=\bmb@temp\advance\bmb@dima by2.2bp%
1883 \bmb@dimb=\bmb@temp\advance\bmb@dimb by4bp%
1884 \hbox{%
1885 \begin{pgfpicture}{0bp}{+-\ht\bmb@box}{0bp}{+-\ht\bmb@box}
1886 \ifdim\wd\bmb@box=0pt%
1887 \color{lower.bg}%
1888 \else%
1889 \color{upper.bg}%
1890 \fi%
1891 \pgfpathmoveto{-4bp}{-1bp}
1892 \pgfpathqcurveto{-4bp}{1.2bp}{-2.2bp}{3bp}{0bp}{3bp}
1893 \pgfpathlineto{\pgfpoint{\bmb@temp}{3bp}}
1894 \pgfpathcurveto%
1895 {\pgfpoint{\bmb@dima}{3bp}}%
1896 {\pgfpoint{\bmb@dimb}{1.2bp}}%
1897 {\pgfpoint{\bmb@dimb}{-1bp}}%
1898 \bmb@dima=-\ht\bmb@box%

```



```

1899     \advance\bmb@dima by-2pt%
1900     \pgfpathlineto{\pgfpoint{\bmb@dimb}{\bmb@dima}}
1901     \pgfpathlineto{\pgfpoint{-4bp}{\bmb@dima}}
1902     \pgfusepath{fill}
1903     \end{pgfpicture}%
1904     \copy\bmb@box%
1905 }%
1906 \nointerlineskip%
1907 \vskip-1pt%
1908 \ifdim\wd\bmb@box=0pt%
1909 \else%
1910 \hbox{%
1911     \begin{pgfpicture}{0pt}{0pt}{\bmb@width}{6pt}
1912         \bmb@dima=\bmb@width%
1913         \advance\bmb@dima by8bp%
1914         \pgfpathrectangle{\pgfpoint{-4bp}{-1bp}}{\pgfpoint{\bmb@dima}{8bp}}
1915         \pgfusepath{clip}
1916         {\pgftransformshift{\pgfpoint{-4bp}{0bp}}\pgftext[left,base]{\pgfuses shading\bmb@trans
1917     \end{pgfpicture}%
1918 }%
1919 \nointerlineskip%
1920 \vskip-0.5pt%
1921 \fi%
1922 \setbox\bmb@colorbox=\hbox{{\pgfpicturetrue\pgfsetcolor{lower.bg}}}%
1923 \setbox\bmb@box=\hbox\bgroup\begin{minipage}[b]{\bmb@width}%
1924     \vskip2pt%
1925     \usebeamercolor[fg]{\bmb@lower}%
1926     \colorlet{beamerstructure}{upper.bg}%
1927     \colorlet{structure}{upper.bg}%
1928     %\color{.}%
1929     \@bidi@list@minipage@parboxfalse
1930 }
1931
1932 \bidi@patchcmd{\endbeamerboxesrounded}{\begin{group}}{%
1933     \begin{group}
1934     \@RTLfalse
1935 }-{}{}
1936
1937

```

## 17 File beamerbasecolor-xetex-bidi.def

```

1938 \ProvidesFile{beamerbasecolor-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for beamerba
1939 \renewenvironment{beamercolorbox}[2][{}]{%
1940     \def\beamer@vmode{\leavevmode}%
1941     \setkeys{beamercolbox}{wd=\textwidth,ht={},dp={},%
1942         leftskip=0pt,rightskip=0pt plus1fil,%
1943         sep=0pt,colsep=0pt,colsep*=0pt,%
1944         shadow=false,rounded=false,ignorebg=false}%
1945     \if@RTL
1946         \setkeys{beamercolbox}{rightskip=0pt,leftskip=0pt plus1fil}%
1947     \else
1948         \setkeys{beamercolbox}{leftskip=0pt,rightskip=0pt plus1fil}%
1949     \fi

```



```

1950 \setkeys{beamercolbox}{#1}%
1951 \ifbeamercoloreempty[bg]{#2}{\@tempwafalse}{\@tempwattrue}%
1952 \ifbeamer@colbox@ignorebg\@tempwafalse\fi%
1953 \def\beamer@colbox@color{#2}%
1954 \setbox\beamer@tempbox=\hbox\bgroup\color@begingroup
1955 \ifbeamer@colbox@ignorebg%
1956 \colorlet{beamer@temp@color}{bg}%
1957 \usebeamercolor[fg]{#2}%
1958 \colorlet{bg}{beamer@temp@color}%
1959 \else%
1960 \usebeamercolor[fg]{#2}%
1961 \fi%
1962 \beginL
1963 \vbox\bgroup%
1964 \hsize=\beamer@colbox@wd%
1965 \@arrayparboxrestore%
1966 \leftskip=\beamer@colbox@ls%
1967 \ifdim\beamer@colbox@sep>\z@\advance\leftskip\beamer@colbox@sep\fi%
1968 \rightskip=\beamer@colbox@rs%
1969 \ifdim\beamer@colbox@sep>\z@\advance\rightskip\beamer@colbox@sep\fi%
1970 \if@tempwa\ifdim\beamer@colbox@colsep>\z@%
1971 \advance\leftskip by\beamer@colbox@colsep%
1972 \advance\rightskip by\beamer@colbox@colsep%
1973 \vskip\beamer@colbox@colsep%
1974 \fi%
1975 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
1976 \fi%
1977 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
1978 \beamer@vmode\ignorespaces{%
1979 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
1980 \if@tempwa
1981 \ifdim\beamer@colbox@colsep>\z@\vskip\beamer@colbox@colsep\fi%
1982 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
1983 \fi%
1984 \egroup\endL\color@endgroup\egroup%
1985 \wd\beamer@tempbox=\beamer@colbox@wd%
1986 \ifx\beamer@colbox@ht\@empty\else\ht\beamer@tempbox=\beamer@colbox@ht\fi%
1987 \ifx\beamer@colbox@dp\@empty\else\dp\beamer@tempbox=\beamer@colbox@dp\fi%
1988 \ifbeamer@colbox@rounded%
1989 \if@tempwa%
1990 \begin{beamerboxesrounded}[%
1991 shadow=\beamer@colbox@shadow,%
1992 lower=\beamer@colbox@color,%
1993 upper=normal text,%
1994 width=\beamer@colbox@wd]{}%
1995 \box\beamer@tempbox%
1996 \end{beamerboxesrounded}%
1997 \else%
1998 \ifdim\wd\beamer@tempbox>\textwidth%
1999 \setbox\beamer@tempbox=\hbox to\textwidth{\hss\box\beamer@tempbox\hss}%
2000 \fi%
2001 \box\beamer@tempbox%
2002 \fi%
2003 \else%

```



```

2004 \if@tempswa\setbox\beamer@tempbox=\hbox{%
2005 \usebeamercolor{\beamer@colbox@color}%
2006 \hskip-\beamer@colbox@colseps%
2007 \fbboxsep=\z@\colorbox{bg}{%
2008 \hskip\beamer@colbox@colseps%
2009 \box\beamer@tempbox%
2010 \hskip\beamer@colbox@colseps%
2011 }%
2012 \hskip-\beamer@colbox@colseps%
2013 }\fi%
2014 \ifdim\wd\beamer@tempbox>\textwidth%
2015 \setbox\beamer@tempbox=\hbox to\textwidth{\hskip0pt minus\beamer@leftmargin\relax\box\beamer@tempbox}%
2016 \fi%
2017 \box\beamer@tempbox%
2018 \fi%
2019 }
2020
2021

```

## 18 File beamerbasecompatibility-xetex-bidi.def

```

2022 \ProvidesFile{beamerbasecompatibility-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for
2023 \def\insertvrule#1#2{\hbox{{\color{#2}\hskip-\Gm@lmargin\vrule width \paperwidth height #1}}
2024
2025

```

## 19 File beamerbaseframecomponents-xetex-bidi.def

```

2026 \ProvidesFile{beamerbaseframecomponents-xetex-bidi.def}[2023/08/02 v0.6 bidi adaptations for
2027 \renewcommand{\setbeamersize}[1]{%
2028 \beamer@dogeometryfalse%
2029 \setkeys{beamer@margin}{#1}%
2030 \ifbeamer@dogeometry%
2031 % Reset left margin now
2032 \beamer@tempdim=\beamer@leftmargin%
2033 \advance\beamer@tempdim by\beamer@leftsidebar%
2034 \if@RTLmain
2035 \geometry{right=\the\beamer@tempdim}%
2036 \else
2037 \geometry{left=\the\beamer@tempdim}%
2038 \fi
2039 % Reset right margin now
2040 \beamer@tempdim=\beamer@rightmargin%
2041 \advance\beamer@tempdim by\beamer@rightsidebar%
2042 \if@RTLmain
2043 \geometry{left=\the\beamer@tempdim}%
2044 \else
2045 \geometry{right=\the\beamer@tempdim}%
2046 \fi
2047 \fi%
2048 }
2049
2050 \newcommand*{\bidi@beamer@Gm@lmargin}{%
2051 \if@RTLmain

```



```

2052 \Gm@rmargin
2053 \else
2054 \Gm@lmargin
2055 \fi
2056 }
2057
2058 \newcommand*{\bidi@beamer@Gm@rmargin}{%
2059 \if@RTLmain
2060 \Gm@lmargin
2061 \else
2062 \Gm@rmargin
2063 \fi
2064 }
2065
2066 \def\ps@navigation{
2067 \def\@oddhead{%
2068 \begingroup%
2069 \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransit
2070 \beamer@tempdim=\ht\beamer@tempbox%
2071 \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}%
2072 \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2073 \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}%
2074 \beamer@tempdim=\ht\@tempboxa%
2075 \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}%
2076 \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2077 \vbox{\hbox{\hskip-\bidi@beamer@Gm@lmargin\box\beamer@tempbox\box\@tempboxa}%
2078 \hbox{%
2079 {%
2080 \setbox\beamer@tempbox=\hbox{\hskip-\bidi@beamer@Gm@lmargin%
2081 \if@RTLmain
2082 {%
2083 \vbox to \sidebarheight{%
2084 \usebeamertemplate***{sidebar left}%
2085 \vfil%
2086 }}%
2087 \@ifpackageloaded{beamerinnerthemeinmargin}{%
2088 \hskip-\textwidth
2089 }%
2090 \fi
2091 {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2092 \usebeamercolor*{sidebar left}%
2093 \usebeamertemplate{sidebar canvas left}%
2094 \vss%
2095 }}%
2096 \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2097 \box\beamer@tempbox}%
2098 \if@RTLmain
2099 \else
2100 {%
2101 \vbox to \sidebarheight{%
2102 \usebeamertemplate***{sidebar left}%
2103 \vfil%
2104 }}\fi}%
2105 \beamer@tempdim=\ht\beamer@tempbox%

```



```

2106 \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2107 \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2108 \box\beamer@tempbox%
2109 }%
2110 {% print right sidebar first, since it should be overwritten by headline
2111 \setbox\beamer@tempbox=\hbox{\hskip\textwidth\hskip\beamer@rightmargin%
2112 \if@RTLmain
2113     {%
2114         \vbox to \sidebarheight{%
2115             \usebeamertemplate***{sidebar right}%
2116             \vfil%
2117         }}%
2118         \hskip-\textwidth
2119     \fi
2120     {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2121         \usebeamercolor*{sidebar right}%
2122         \usebeamertemplate{sidebar canvas right}%
2123         \vss%
2124     }}%
2125     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2126     \box\beamer@tempbox}%
2127     \if@RTLmain
2128     \else
2129     {%
2130         \vbox to \sidebarheight{%
2131             \usebeamertemplate***{sidebar right}%
2132             \vfil%
2133         }}\fi}%
2134 \beamer@tempdim=\ht\beamer@tempbox%
2135 \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2136 \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2137 \box\beamer@tempbox%
2138 }%
2139 \beamer@typesetheadorfoot{headline}%
2140 }%
2141 \hfil}%
2142 \endgroup}
2143 \def\@oddfoot{%
2144     \vbox{\offinterlineskip\hbox{\beamer@typesetheadorfoot{footline}}%
2145     \hfil}\hbox{}}\hfil
2146 }%
2147 \let\@evenhead\@oddhead
2148 \let\@evenfoot\@oddfoot}
2149
2150 \AtBeginDocument{%
2151     \pagestyle{navigation}%
2152 }
2153
2154 \def\beamer@typesetheadorfoot#1{% typeset the head or footline
2155     {\parskip0pt\offinterlineskip%
2156         \hbox{%
2157             \hskip-\bidi@beamer@Gm@lmargin%
2158             \hbox{%
2159                 \vbox{%

```



```

2160         \@tempdima=\textwidth%
2161         \textwidth=\paperwidth%
2162         \hspace=\textwidth%
2163         \def\{\,%
2164         \usebeamertemplate***{#1}%
2165     }%
2166     \hspace-\bidi@beamer@Gm@rmargin%
2167 }%
2168 }
2169
2170 \def\ps@empty{%
2171     \let\mkboth\@gobbletwo%
2172     \def\@oddhead{\begingroup%
2173         \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransit
2174         \beamer@tempdim=\ht\beamer@tempbox%
2175         \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}%
2176         \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2177         \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}%
2178         \beamer@tempdim=\ht\@tempboxa%
2179         \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}%
2180         \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2181         \vbox{\hbox{\hspace-\Gm@lmargin\raise\headheight\box\beamer@tempbox\raise\headheight\box
2182         \endgroup%
2183     }
2184     \def\@oddfoot{{\normalcolor\hspace-\bidi@beamer@Gm@rmargin%
2185         \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{navigation symbols}\hspace-\bidi@beamer@Gm@rmargin%
2186         \ht\beamer@tempbox=0pt%
2187         \dp\beamer@tempbox=0pt%
2188         \box\beamer@tempbox}}%
2189     \let\@evenhead\@oddhead\let\@evenfoot\@oddfoot}
2190
2191 \renewcommand<>\beamer@columncom[2][\beamer@colmode]{%
2192     \beamer@colclose%
2193     \def\beamer@colclose{\end{minipage}\hfill\end{actionenv}\ignorespaces}%
2194 \begin{actionenv}#3%
2195     \setkeys{beamer@col}{#1}%
2196     \begin{minipage}[\beamer@colalign]{#2}%
2197         \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2198
2199 \renewenvironment<>{columns}[1][\%
2200     \begin{actionenv}#2%
2201     \ifbeamer@onlytextwidth
2202         \def\beamer@colentrycode{\hbox to\textwidth\bgroup\ignorespaces}%
2203         \def\beamer@colexitcode{\unskip\egroup}
2204     \else%
2205         \def\beamer@colentrycode{%
2206             \hbox to\textwidth\bgroup%
2207             \leavevmode%
2208             \hspace-\beamer@leftmargin%
2209             \nobreak%
2210             \beamer@tempdim=\textwidth%
2211             \advance\beamer@tempdim by\beamer@leftmargin%
2212             \advance\beamer@tempdim by\beamer@rightmargin%
2213             \hbox to\beamer@tempdim\bgroup%

```



```

2214     \hbox{}\hfill\ignorespaces}%
2215 \def\beamer@colexitcode{\egroup%
2216     \nobreak%
2217     \hskip-\beamer@rightmargin\egroup}%
2218 \fi%
2219 \ifbeamer@centered\setkeys{beamer@col}{c}\else\setkeys{beamer@col}{t}\fi%
2220 \setkeys{beamer@col}{#1}%
2221 \par%
2222 \leavevmode
2223 \beamer@colentrycode%
2224 \def\beamer@colclose{}\ignorespaces}%
2225 {\beamer@colclose\def\beamer@colclose{}\beamer@colexitcode\end{actionenv}}%
2226
2227
2228 \def\@makeRTLfnstext#1{%
2229     \def\insertfootnotetext{#1}%
2230     \def\insertfootnotemark{\@makefnmark}%
2231     \usebeamertemplate***{RTLfootnote}}
2232
2233 \def\@makeLTRfnstext#1{%
2234     \def\insertfootnotetext{#1}%
2235     \def\insertfootnotemark{\@makefnmark}%
2236     \usebeamertemplate***{LTRfootnote}}
2237
2238 \renewcommand<>\beamer@framefootnotetext[1]{%
2239     \global\setbox\beamer@footins\vbox{%
2240         \if@RTL@footnote@RTLtrue\else@RTLfalse\fi%
2241         \hsize\framewidth
2242         \textwidth\hsize
2243         \columnwidth\hsize
2244         \unvbox\beamer@footins
2245         \reset@font
2246         \bidi@footnotetext@font
2247         \@parboxrestore
2248         \protected@edef\@currentlabel
2249             {\csname p@footnote\endcsname\@thefnmark}%
2250         \color@begingroup
2251             \uncover#2{\@makefnstext{%
2252                 \rule\z@{footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2253             \color@endgroup}}
2254
2255 \renewcommand<>\beamer@frameRTLfootnotetext[1]{%
2256     \global\setbox\beamer@footins\vbox{%
2257         \@RTLtrue
2258         \hsize\framewidth
2259         \textwidth\hsize
2260         \columnwidth\hsize
2261         \unvbox\beamer@footins
2262         \reset@font
2263         \bidi@RTLfootnotetext@font
2264         \@parboxrestore
2265         \protected@edef\@currentlabel
2266             {\csname p@footnote\endcsname\@thefnmark}%
2267         \color@begingroup

```





```

2268     \uncover#2{\@makeRTLfntext{%
2269         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2270     \color@endgroup}}
2271
2272 \renewcommand<>\beamer@frameLTRfootnotetext[1]{%
2273     \global\setbox\beamer@footins\vbox{%
2274         \@RTLfalse
2275         \hsize\framewidth
2276         \textwidth\hsize
2277         \columnwidth\hsize
2278         \unvbox\beamer@footins
2279         \reset@font
2280         \bidi@LTRfootnotetext@font
2281         \@parboxrestore
2282         \protected@edef\@currentlabel
2283             {\csname p@footnote\endcsname\@thefnmark}%
2284         \color@begingroup
2285         \uncover#2{\@makeLTRfntext{%
2286             \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2287         \color@endgroup}}
2288
2289 \renewcommand<>\@mpfootnotetext[1]{%
2290     \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\ifRTL@footnote\global\let\bidi@mpfootnote
2291         \global\setbox\@mpfootins\vbox{%
2292             \unvbox\@mpfootins
2293             \ifRTL@footnote\RTLtrue\else\RTLfalse\fi
2294             \reset@font
2295             \bidi@footnotetext@font
2296             \hsize\columnwidth
2297             \@parboxrestore
2298             \protected@edef\@currentlabel
2299                 {\csname p@mpfootnote\endcsname\@thefnmark}%
2300             \color@begingroup
2301             \uncover#2{\@makefntext{%
2302                 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2303             \color@endgroup}}
2304
2305 \renewcommand<>\@mpRTLfootnotetext[1]{%
2306     \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footn
2307         \global\setbox\@mpfootins\vbox{%
2308             \unvbox\@mpfootins
2309             \RTLtrue
2310             \reset@font
2311             \bidi@RTLfootnotetext@font
2312             \hsize\columnwidth
2313             \@parboxrestore
2314             \protected@edef\@currentlabel
2315                 {\csname p@mpfootnote\endcsname\@thefnmark}%
2316             \color@begingroup
2317             \uncover#2{\@makeRTLfntext{%
2318                 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2319             \color@endgroup}}
2320
2321 \renewcommand<>\@mpLTRfootnotetext[1]{%

```



```

2322 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidimpfootnoterule\left@footno
2323 \global\setbox\@mpfootins\vbox{%
2324 \unvbox\@mpfootins
2325 \@RTLfalse
2326 \reset@font
2327 \bidi@LTRfootnotetext@font
2328 \hsize\columnwidth
2329 \@parboxrestore
2330 \protected@edef\@currentlabel
2331 {\csname p@mpfootnote\endcsname\@thefnmark}%
2332 \color@begingroup
2333 \uncover#2{\@makeLTRfntext{%
2334 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2335 \color@endgroup}}
2336
2337 \let\@footnotetext=\beamer@framefootnotetext
2338 \let\@RTLfootnotetext=\beamer@frameRTLfootnotetext
2339 \let\@LTRfootnotetext=\beamer@frameLTRfootnotetext
2340
2341 \footdir@temp\footdir@ORG@bidi@beamer@footnotetext\@footnotetext{\bidi@footdir@footnote}%
2342 \footdir@temp\footdir@ORG@bidi@beamer@RTLfootnotetext\@RTLfootnotetext{R}%
2343 \footdir@temp\footdir@ORG@bidi@beamer@LTRfootnotetext\@LTRfootnotetext{L}%
2344
2345 \renewcommand<>{\footnote}[1][ ]{%
2346 \let\beamer@footnotetext=\@footnotetext%
2347 \let\beamer@mpfn=\@mpfn%
2348 \let\beamer@thempfn=\thempfn%
2349 \let\beamer@kvorig=KV@errx%
2350 \let\beamer@xkvorig=XKV@err
2351 \def\beamer@footarg{ }%
2352 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2353 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2354 \setkeys{beamerfootnote}{#1}%
2355 \let\KV@errx=\beamer@kvorig%
2356 \let\XKV@errx=\beamer@xkvorig%
2357 \ifx\beamer@footarg\@empty%
2358 \def\beamer@next{\stepcounter\beamer@mpfn
2359 \protected@xdef\@thefnmark{\beamer@thempfn}%
2360 \@footnotemark\beamer@footnotetext#2}%
2361 \else%
2362 \def\beamer@next{%
2363 \begingroup
2364 \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2365 \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2366 \endgroup
2367 \@footnotemark\beamer@footnotetext#2}%
2368 \fi%
2369 \beamer@next}
2370
2371 \renewcommand<>{\RTLfootnote}[1][ ]{%
2372 \let\beamer@RTLfootnotetext=\@RTLfootnotetext%
2373 \let\beamer@mpfn=\@mpfn%
2374 \let\beamer@thempfn=\thempfn%
2375 \let\beamer@kvorig=KV@errx%

```



```

2376 \let\beamer@xkvorig=\XKV@err
2377 \def\beamer@footarg{}%
2378 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2379 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2380 \setkeys{beamerfootnote}{#1}%
2381 \let\KV@errx=\beamer@kvorig%
2382 \let\XKV@errx=\beamer@xkvorig
2383 \ifx\beamer@footarg\@empty%
2384   \def\beamer@next{\stepcounter\beamer@mpfn
2385     \protected@xdef\@thefnmark{\beamer@thempfn}%
2386     \@footnotemark\beamer@RTLfootnotetext#2}%
2387 \else%
2388   \def\beamer@next{%
2389     \begingroup
2390       \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2391       \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2392     \endgroup
2393     \@footnotemark\beamer@RTLfootnotetext#2}%
2394 \fi%
2395 \beamer@next}
2396
2397 \renewcommand<>{\LTRfootnote}[1][{}]{%
2398   \let\beamer@LTRfootnotetext=\LTRfootnotetext%
2399   \let\beamer@mpfn=\@mpfn%
2400   \let\beamer@thempfn=\thempfn%
2401   \let\beamer@kvorig=\KV@errx%
2402   \let\beamer@xkvorig=\XKV@err
2403   \def\beamer@footarg{}%
2404   \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2405   \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2406   \setkeys{beamerfootnote}{#1}%
2407   \let\KV@errx=\beamer@kvorig%
2408   \let\XKV@errx=\beamer@xkvorig
2409   \ifx\beamer@footarg\@empty%
2410     \def\beamer@next{\stepcounter\beamer@mpfn
2411       \protected@xdef\@thefnmark{\beamer@thempfn}%
2412       \@footnotemark\beamer@LTRfootnotetext#2}%
2413   \else%
2414     \def\beamer@next{%
2415       \begingroup
2416         \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2417         \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2418       \endgroup
2419       \@footnotemark\beamer@LTRfootnotetext#2}%
2420   \fi%
2421   \beamer@next}
2422
2423

```

## 20 File beamerbaseframesize-xetex-bidi.def

```

2424 \ProvidesFile{beamerbaseframesize-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beam
2425 \def\beamer@framezoom<#1><#2>[#3](#4,#5)(#6,#7){%
2426   \par\nointerlineskip%

```



```

2427 \global\beamer@slidehaszoomtrue%
2428 \advance\beamer@zoomcount by1\relax%
2429 \def\beamer@zoomborderwidth{0}%
2430 \edef\beamer@labelzoomed{\beamer@labelzoomed@the\beamer@zoomframecount @the\beamer@zoomcount}%
2431 \setkeys{beamerzoom}{#3}%
2432 \only<#1>{%
2433   {\hypersetup{pdfhighlight={/P},pdfborder={0 0 \beamer@zoomborderwidth}}}%
2434   \global\setbox\@tempboxa=\vbox{\hyperlink{\beamer@labelzoomed}{%
2435     \expandafter\ifx\csname XeTeXrevision\endcsname\relax
2436       \vbox to #7{%
2437         \hbox to#6{\hfil}%
2438         \vfil%
2439       }%
2440     \else%
2441       \begingroup%
2442       \normalsize%
2443       \begin{pgfpicture}{0pt}{0pt}{#6}{#7}%
2444       \pgfsetfillopacity{0}
2445       \pgftext[x=0cm,y=3pt]{.}
2446       \pgftext[x=#6,y=\dimexpr#7-\baselineskip+3pt]{.}
2447       \end{pgfpicture}%
2448       \endgroup%
2449       \fi%
2450     }}}%
2451     \ht\@tempboxa=0pt%
2452     \wd\@tempboxa=0pt%
2453     \dp\@tempboxa=0pt%
2454     \setbox\@tempboxa=\vbox{\if@RTL\moveleft\else\moveright\fi#4\hbox{\lower#5\vbox{\box\@tempboxa}}%
2455     \ht\@tempboxa=0pt%
2456     \wd\@tempboxa=0pt%
2457     \dp\@tempboxa=0pt%
2458     \global\setbox\beamer@zoombox=\vbox to0pt{\unvbox\beamer@zoombox\box\@tempboxa}%
2459   }%
2460   \only<#2>{%
2461     \@ifundefined{\beamer@labelzoomed}%
2462     {%
2463       \hypertarget{\beamer@labelzoomed}{}%
2464       \expandafter\gdef\csname\beamer@labelzoomed\endcsname{}%
2465     }%
2466     \gdef\beamer@zoomer{%
2467       % compute zoom factor
2468       \@tempdima=\beamer@frametextheight%
2469       \@tempdimb=#7\relax%
2470       \@tempcnta=\@tempdimb%
2471       \divide\@tempcnta by4096\relax%
2472       \multiply\@tempdima by16\relax%
2473       \divide\@tempdima by\@tempcnta%
2474       \@tempdimb=\paperwidth%
2475       \ifbeamer@plainframe%
2476       \else%
2477         \advance\@tempdimb by-\beamer@leftsidebar%
2478         \advance\@tempdimb by-\beamer@rightsidebar\relax%
2479       \fi%
2480       \@tempdimc=#6\relax%

```



```

2481 \tempcntb=\@tempdimc%
2482 \divide\tempcntb by4096\relax%
2483 \multiply\@tempdimb by16\relax%
2484 \divide\@tempdimb by\tempcntb%
2485 \ifdim\@tempdimb<\@tempdima%
2486 \@tempdima=\@tempdimb%
2487 \fi%
2488 \edef\beamer@temp{\strip@pt\@tempdima}%
2489 \@tempdimc=\beamer@frametextheight%
2490 \advance\@tempdimc by4pt%
2491 \@tempdimb=\paperwidth%
2492 \ifbeamer@plainframe%
2493 \else%
2494 \advance\@tempdimb by-\beamer@leftsidebar%
2495 \advance\@tempdimb by-\beamer@rightsidebar\relax%
2496 \fi%
2497 \setbox\@tempboxa=\vbox{\hsize=\@tempdimb\Acrobatmenu{GoBack}{\vbox to
2498 \beamer@frametextheight{\hbox to\@tempdimb{\hfil}\vfil}}}%
2499 \ht\@tempboxa=0pt%
2500 \wd\@tempboxa=0pt%
2501 \dp\@tempboxa=0pt%
2502 \setbox\beamer@framebox=\vbox to\beamer@frametextheight{%
2503 \ifbeamer@plainframe\beamer@leftmargin=\Gm@lmargin\fi%
2504 \ifRTL
2505 \begin{pgfpicture}{\paperwidth-\beamer@leftmargin}{-\beamer@frametextheight}{\pap
2506 \pgftext[right,top]{\box\@tempboxa}
2507 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2508 \pgfusepath{clip}
2509 \begin{group
2510 \pgftransformscale{\beamer@temp}
2511 \@tempdima=#4\relax%
2512 \@tempdimb=#5\relax%
2513 {\pgftransformshift{\pgfpoint{\@tempdima+#6}{\@tempdimb}}%
2514 \pgftext[right,top]{\vbox{\vbox{\nointerlineskip\unvbox\beamer@framebox}}}%
2515 \end{group}
2516 \end{pgfpicture}%
2517 \else
2518 \begin{pgfpicture}{\beamer@leftmargin}{-\beamer@frametextheight}{\beamer@leftmargin
2519 \pgftext[left,top]{\box\@tempboxa}
2520 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2521 \pgfusepath{clip}
2522 \begin{group
2523 \pgftransformscale{\beamer@temp}
2524 \@tempdima=#4\relax%
2525 \@tempdimb=#5\relax%
2526 {\pgftransformshift{\pgfpoint{-\@tempdima}{\@tempdimb}}%
2527 \pgftext[left,top]{\vbox{\vbox{\nointerlineskip\unvbox\beamer@framebox}}}%
2528 \end{group}
2529 \end{pgfpicture}%
2530 \fi
2531 }}%
2532 \setbox\beamer@framebox=\vbox{%
2533 \nobreak\vbox{\nobreak\par\nobreak\beamer@entrycode\nobreak%
2534 \nointerlineskip\unvbox\beamer@frametitlebox%

```



```

2535         \nobreak%
2536         \box\beamer@framebox%
2537         \nobreak%
2538         \vss%
2539         \beamer@exitcode%
2540     }%
2541     \global\setbox\beamer@footins=\box\voidb@x% no footnotes in zoomed slides
2542 }%
2543 }%
2544 }
2545
2546

```

## 21 File beamerbaselocalstructure-xetex-bidi.def

```

2547 \ProvidesFile{beamerbaselocalstructure-xetex-bidi.def}[2022/05/24 v0.1 bidi adaptations for
2548 \def\beamer@enum@{%
2549     \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2550     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2551     \bgroup
2552     \usebeamerfont{fg}{itemize/enumerate \beameritemnestingprefix body}%
2553     \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2554     \egroup
2555     \expandafter
2556     \list
2557     {\usebeamertemplate{\beamer@enumtempl}}
2558     {\usecounter\@enumctr%
2559         \def\makelabel##1{\hss\llap{%
2560             \usebeamerfont*{enumerate \beameritemnestingprefix item}%
2561             \usebeamerfont{fg}{enumerate \beameritemnestingprefix item}##1}}}%
2562     \beamer@cramped%
2563     \bidi@beamer@ragged%
2564     \beamer@firstlineitemizeunskip%
2565 }
2566
2567 \renewcommand{\itemize}[1][ ]{%
2568     \ifblank{#1}{\def\beamer@defaultspec{#1}}%
2569     \ifnum \@itemdepth >2\relax\@toodeep\else
2570         \advance\@itemdepth\@ne
2571         \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2572         \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2573         \bgroup
2574         \usebeamerfont{fg}{itemize/enumerate \beameritemnestingprefix body}%
2575         \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2576         \egroup
2577         \list
2578         {\usebeamertemplate{itemize \beameritemnestingprefix item}}
2579         {\def\makelabel##1{%
2580             {%
2581                 \hss\llap{%
2582                     \usebeamerfont*{itemize \beameritemnestingprefix item}%
2583                     \usebeamerfont{fg}{itemize \beameritemnestingprefix item}##1}}}%
2584             }%
2585         }%

```



```

2586     }
2587     \fi%
2588     \beamer@cramped%
2589     \bidi@beamer@ragged%
2590     \beamer@firstlineitemizeunskip%
2591 }
2592
2593 \def\@@description{%
2594   \advance\beamer@descdefault by \labelsep%
2595   \usebeamerfont{description body}%
2596   \bgroup
2597   \usebeamercolor[fg]{description body}%
2598   \usebeamertemplate{description body begin}%
2599   \egroup
2600   \list
2601   {}
2602   {\labelwidth\beamer@descdefault\leftmargin\beamer@descdefault\let\makelabel\beamer@descri
2603   \beamer@cramped%
2604   \bidi@beamer@ragged
2605   \beamer@firstlineitemizeunskip%
2606 }
2607
2608 \renewenvironment{thebibliography}[1]
2609 {%\leavevmode\unskip%
2610 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
2611 \bidi@thebibliography@font@hook%
2612 \list{\@biblabel{\@arabic\c@enumiv}}%
2613     {\settowidth\labelwidth{\beamer@biblabeltemplate{\@biblabel{#1}}}%
2614     \leftmargin\labelwidth
2615     \advance\leftmargin\labelsep
2616     \itemsep=0pt%
2617     \partopsep=0pt%
2618     \topsep=0pt%
2619     \usecounter{enumiv}%
2620     \let\p@enumiv\@empty
2621     \renewcommand\theenumiv{\@arabic\c@enumiv}
2622     \let\makelabel\beamer@biblabeltemplate}%
2623 \sloppy\bidi@beamer@ragged
2624 \clubpenalty10000
2625 \@clubpenalty \clubpenalty
2626 \widowpenalty10000%
2627 \sfcode\.\@m}
2628 {\def\@noitemerr
2629   {\@latex@warning{Empty `thebibliography' environment}}%
2630   \ifhmode\unskip\fi\endlist}
2631
2632

```

## 22 File beamerbasemisc-xetex-bidi.def

```

2633 \ProvidesFile{beamerbasemisc-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamerbas
2634 \define@key{beamerst}{width}{%
2635   \def\beamer@ststart{%
2636     \begin{minipage}[t]{#1}%

```



```

2637     \bidi@beamer@ragged
2638     \beamer@stalign
2639     \beamer@stlinebreakrule
2640   }%
2641 \def\beamer@stend{\end{minipage}}
2642
2643

```

## 23 File beamerbasenavigation-xetex-bidi.def

```

2644 \ProvidesFile{beamerbasenavigation-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for bea
2645 \def\slideentry#1#2#3#4#5#6{%
2646   %section number, subsection number, slide number, first/last frame, page number, part num
2647   \ifnum#6=\c@part\ifnum#1>0\ifnum#3>0%
2648     \ifbeamer@compress%
2649       \advance\beamer@xpos by1\relax%
2650     \else%
2651       \ifnum#2=0%
2652         \beamer@ypos@offset=1\relax%
2653       \fi
2654       \beamer@xpos=#3\relax%
2655       \beamer@ypos=#2\relax%
2656       \advance\beamer@ypos by \beamer@ypos@offset\relax
2657     \fi%
2658   \hbox to Opt{%
2659     \beamer@tempdim=-\beamer@vboxoffset%
2660     \advance\beamer@tempdim by-\beamer@boxsize%
2661     \multiply\beamer@tempdim by\beamer@ypos%
2662     \advance\beamer@tempdim by -.05cm%
2663     \raise\beamer@tempdim\hbox{%
2664       \beamer@tempdim=\beamer@boxsize%
2665       \multiply\beamer@tempdim by\beamer@xpos%
2666       \advance\beamer@tempdim by -\beamer@boxsize%
2667       \advance\beamer@tempdim by 1pt%
2668       \kern\beamer@tempdim
2669       \global\beamer@section@min@dim\beamer@tempdim
2670       \hbox{\beamer@link(#4){%
2671         \usebeamerfont{mini frame}%
2672         \ifnum\c@section=#1%
2673           \ifnum\c@subsection=#2%
2674             \usebeamercolor{fg}{mini frame}%
2675             \ifnum\c@subsectionslide=#3%
2676               \usebeamertemplate{mini frame}%\beamer@minislidehighlight%
2677             \else%
2678               \usebeamertemplate{mini frame in current subsection}%\beamer@minisliderowhi
2679             \fi%
2680           \else%
2681             \usebeamercolor{mini frame}%
2682             %\color{fg!50!bg}%
2683             \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2684           \fi%
2685         \else%
2686           \usebeamercolor{mini frame}%
2687           %\color{fg!50!bg}%

```





```

2688         \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2689         \fi%
2690     }}}} \hskip-10cm plus 1fil%
2691 } \fi \fi%
2692 \else%
2693 \fakeslideentry{#1}{#2}{#3}{#4}{#5}{#6}%
2694 \fi \ignorespaces
2695 }
2696
2697 \pgfdefobject{bidi@beamer@RTL@gotosymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2698 {
2699     \pgfpathqmoveto{3.5bp}{0.5bp}
2700     \pgfpathqlineto{1.5bp}{2bp}
2701     \pgfpathqlineto{3.5bp}{3.5bp}
2702     \pgfusepathqfill
2703 }
2704
2705 \def\insertgotosymbol{%
2706 \if@RTL
2707     \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2708         \pgfuseobject{bidi@beamer@RTL@gotosymbol}%
2709     \end{pgfpicture}%
2710 \else
2711     \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2712         \pgfuseobject{beamergotosymbol}%
2713     \end{pgfpicture}%
2714 \fi
2715 }
2716
2717 \pgfdefobject{bidi@beamer@RTL@skipsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{7pt}{5pt}}
2718 {
2719     \pgfpathqmoveto{5.5bp}{0.5bp}
2720     \pgfpathqlineto{3.5bp}{2bp}
2721     \pgfpathqlineto{5.5bp}{3.5bp}
2722     \pgfpathqmoveto{3.5bp}{0.5bp}
2723     \pgfpathqlineto{1.5bp}{2bp}
2724     \pgfpathqlineto{3.5bp}{3.5bp}
2725     \pgfusepathqfill
2726 }
2727
2728 \def\insertskipsymbol{%
2729 \if@RTL
2730     \begin{pgfpicture}{-1pt}{0pt}{6pt}{5pt}
2731         \pgfuseobject{bidi@beamer@RTL@skipsymbol}%
2732     \end{pgfpicture}%
2733 \else
2734     \begin{pgfpicture}{1pt}{0pt}{8pt}{5pt}
2735         \pgfuseobject{beamerskipsymbol}%
2736     \end{pgfpicture}%
2737 \fi
2738 }
2739
2740 \pgfdefobject{bidi@beamer@RTL@returnsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2741 {

```



```

2742 \pgfpathmoveto{1.5bp}{0.5bp}
2743 \pgfpathqlineto{3.5bp}{2bp}
2744 \pgfpathqlineto{1.5bp}{3.5bp}
2745 \pgfusepathqfill
2746 }
2747
2748 \def\insertreturnsymbol{%
2749 \if@RTL
2750 \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2751 \pgfuseobject{bidi@beamer@RTL@returnsymbol}%
2752 \end{pgfpicture}%
2753 \else
2754 \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2755 \pgfuseobject{beamerreturnsymbol}%
2756 \end{pgfpicture}%
2757 \fi
2758 }
2759
2760

```

## 24 File beamerbaseoverlay-xetex-bidi.def

```

2761 \ProvidesFile{beamerbaseoverlay-xetex-bidi.def}[2022/06/10 v0.1 bidi adaptations for beamer]
2762 \renewcommand<>{\color}{\alt#1{\beameroriginal{\color}}{\beamer@gobbleoptionalinsp}}
2763
2764

```

## 25 File beamerinnerthemedefault-xetex-bidi.def

```

2765 \ProvidesFile{beamerinnerthemedefault-xetex-bidi.def}[2022/06/27 v0.6 bidi adaptations for beamer]
2766 \newcommand*{\bidi@beamer@leftskip}{%
2767 \if@RTL
2768 \rightskip
2769 \else
2770 \leftskip
2771 \fi
2772 }
2773
2774 \newcommand*{\bidi@beamer@rightskip}{%
2775 \if@RTL
2776 \leftskip
2777 \else
2778 \rightskip
2779 \fi
2780 }
2781
2782 \bidi@csundef{beamer@@tmpop@subsection in toc@default}
2783
2784 \bidi@csundef{beamer@@tmpop@subsubsection in toc@default}
2785
2786 \defbeamertemplate*{subsection in toc}{default}
2787 {\leavevmode\bidi@beamer@leftskip=1.5em\inserttocsubsection\par}
2788
2789 \defbeamertemplate*{subsubsection in toc}{default}

```



```

2790 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em%
2791 \usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
2792
2793 \newcommand*{\bidi@beamer@blacktriangle}{%
2794 \if@RTL
2795   $\blacktriangleleft$%
2796 \else
2797   $\blacktriangleright$%
2798 \fi
2799 }
2800
2801 \bidi@csundef{beamer@@tmpop@itemize item@default}
2802
2803 \bidi@csundef{beamer@@tmpop@itemize subitem@default}
2804
2805 \bidi@csundef{beamer@@tmpop@itemize subsubitem@default}
2806
2807 \defbeamertemplate*{itemize item}{default}{\usebeamerfont*{itemize item}\raise1.25pt\hbox{
2808 \defbeamertemplate*{itemize subitem}{default}{\usebeamerfont*{itemize subitem}\raise1.5pt\h
2809 \defbeamertemplate*{itemize subsubitem}{default}{\usebeamerfont*{itemize subsubitem}\raise1
2810
2811 \bidi@undef\beamer@@tmpop@footnote@default
2812
2813 \defbeamertemplate*{footnote}{default}
2814 {
2815   \parindent 1em\noindent%
2816   \bidi@beamer@ragged
2817   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2818 }
2819
2820 \defbeamertemplate*{RTLfootnote}{default}
2821 {
2822   \parindent 1em\noindent%
2823   \raggedleft
2824   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2825 }
2826
2827 \defbeamertemplate*{LTRfootnote}{default}
2828 {
2829   \parindent 1em\noindent%
2830   \raggedright
2831   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2832 }
2833
2834 \bidi@undef\beamer@@tmpop@caption@default
2835
2836 \defbeamertemplate*{caption}{default}
2837 {%
2838   \bidi@beamer@ragged
2839   {%
2840     \leavevmode
2841     \usebeamerfont[fg]{caption name}%
2842     \usebeamerfont*{caption name}%
2843     \insertcaptionname

```



```

2844 \usebeamertemplate{caption label separator}%
2845 }%
2846 \insertcaption\par
2847 }
2848
2849 \bidi@csundef{beamer@@tmpop@block begin@default}
2850
2851 \bidi@csundef{beamer@@tmpop@block alerted begin@default}
2852
2853 \bidi@csundef{beamer@@tmpop@block example begin@default}
2854
2855 \defbeamertemplate*{block begin}{default}
2856 {
2857 \par\vskip\medskipamount%
2858 \begin{beamercolorbox}[colsep*=.75ex]{block title}
2859 \usebeamerfont*{block title}\insertblocktitle%
2860 \end{beamercolorbox}%
2861 {\parskip0pt\par}%
2862 \ifbeamercoloreempty[bg]{block title}
2863 {}
2864 {\ifbeamercoloreempty[bg]{block body}{\nointerlineskip\vskip-0.5pt}}%
2865 \usebeamerfont{block body}%
2866 \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body}%
2867 \ifbeamercoloreempty[bg]{block body}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\base
2868 }
2869
2870 \defbeamertemplate*{block alerted begin}{default}
2871 {
2872 \par\vskip\medskipamount%
2873 \begin{beamercolorbox}[colsep*=.75ex]{block title alerted}
2874 \usebeamerfont*{block title alerted}\insertblocktitle%
2875 \end{beamercolorbox}%
2876 {\parskip0pt\par}%
2877 \ifbeamercoloreempty[bg]{block title alerted}
2878 {}
2879 {\ifbeamercoloreempty[bg]{block body alerted}{\nointerlineskip\vskip-0.5pt}}%
2880 \usebeamerfont{block body alerted}%
2881 \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body alerted}%
2882 \ifbeamercoloreempty[bg]{block body alerted}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75
2883 }
2884
2885 \defbeamertemplate*{block example begin}{default}
2886 {
2887 \par\vskip\medskipamount%
2888 \begin{beamercolorbox}[colsep*=.75ex]{block title example}
2889 \usebeamerfont*{block title example}\insertblocktitle%
2890 \end{beamercolorbox}%
2891 {\parskip0pt\par}%
2892 \ifbeamercoloreempty[bg]{block title example}
2893 {}
2894 {\ifbeamercoloreempty[bg]{block body example}{\nointerlineskip\vskip-0.5pt}}%
2895 \usebeamerfont{block body example}%
2896 \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body example}%
2897 \ifbeamercoloreempty[bg]{block body example}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75

```



```

2898 }
2899
2900 \bidi@csundef{beamer@@tmpop@abstract begin@default}
2901
2902 \defbeamer@template*{abstract begin}{default}
2903 {\beamer@colorbox[vmode]{abstract}\bidi@beamer@leftskip2em\bidi@beamer@rightskip2em plus 1fi}
2904
2905 \bidi@undef\beamer@@tmpop@button@default
2906
2907 \defbeamer@template*{button}{default}
2908 {%
2909   \setbox\beamer@tempbox=\hbox{\insertbuttontext}}%
2910   \ht\beamer@tempbox=6pt%
2911   \dp\beamer@tempbox=0pt%
2912   \setbox\beamer@tempbox=\vbox{\box\beamer@tempbox\vskip2pt}%
2913   \beamer@tempdim=\wd\beamer@tempbox%
2914   \beamer@dima=\beamer@tempdim\advance\beamer@dima by2.2pt
2915   \beamer@dimb=\beamer@tempdim\advance\beamer@dimb by4pt
2916   \if@RTL
2917     \kern4pt%
2918     \box\beamer@tempbox%
2919     \hskip-\beamer@tempdim%
2920   \fi
2921   \begin{pgfpicture}{-4pt}{0pt}{\the\beamer@tempdim}{8pt}
2922     \color{bg}
2923     \pgfsetlinewidth{0.8pt}
2924     \pgfpathqmoveto{0pt}{0pt}
2925     \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2926     \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2927     \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2928     \pgfpathcurveto%
2929     {\pgfpoint{\the\beamer@dima}{8pt}}%
2930     {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2931     {\pgfpoint{\the\beamer@dimb}{4pt}}
2932     \pgfpathcurveto%
2933     {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2934     {\pgfpoint{\the\beamer@dima}{0pt}}%
2935     {\pgfpoint{\the\beamer@tempdim}{0pt}}
2936     \pgfpathclose
2937     \pgfusepathqfill
2938     \colorlet{bg}{parent.bg}
2939     \usebeamercolor[fg]{button border}
2940     \pgfpathqmoveto{0pt}{0pt}
2941     \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2942     \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2943     \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2944     \pgfpathcurveto%
2945     {\pgfpoint{\the\beamer@dima}{8pt}}%
2946     {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2947     {\pgfpoint{\the\beamer@dimb}{4pt}}
2948     \pgfpathcurveto%
2949     {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2950     {\pgfpoint{\the\beamer@dima}{0pt}}%
2951     {\pgfpoint{\the\beamer@tempdim}{0pt}}

```



```

2952 \pgfpathclose
2953 \pgfusepathqstroke
2954 \end{pgfpicture}%
2955 \if@RTL
2956 \else
2957 \hskip-\beamer@tempdim%
2958 \box\beamer@tempbox%
2959 \kern4pt%
2960 \fi
2961 }
2962
2963

```

## 26 File beamerinnerthemecircles-xetex-bidi.def

```

2964 \ProvidesFile{beamerinnerthemecircles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for
2965 \setbeamertemplate{sections/subsections in toc}[circle]
2966

```

## 27 File beamerinnerthemefocus-xetex-bidi.def

```

2967 \ProvidesFile{beamerinnerthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for be
2968 \setbeamertemplate{section in toc}[square]
2969 \setbeamertemplate{subsection in toc}[square]
2970
2971 \setbeamertemplate{itemize items}[square]
2972 \setbeamertemplate{itemize subitem}[triangle]
2973
2974 \bidi@csundef{beamer@@tmpop@title page@focus}
2975
2976 \defbeamertemplate*{title page}{focus}{%
2977   {%
2978     \usebeamercolor{frametitle}\colorlet{focus@temp}{bg}%
2979     \begin{tikzpicture}[overlay, remember picture]
2980       \fill[color=focus@temp] (current page.north west) rectangle ([shift = {(0, -0.
2981     \end{tikzpicture}
2982   }
2983
2984   \vspace{-1.65\baselineskip}
2985   \begin{minipage}[b][0.35\paperheight]{\textwidth}
2986     \vspace{\baselineskip}
2987     \usebeamerfont{title}
2988     \usebeamercolor{fg}{frametitle}
2989     \inserttitle
2990   \end{minipage}
2991
2992   \begin{minipage}[t][0.1\paperheight]{\textwidth}
2993     \usebeamerfont{subtitle}
2994     \usebeamercolor{fg}{frametitle}
2995     \insertsubtitle
2996   \end{minipage}
2997
2998   % Set the title graphic in a zero-height box, so that
2999   % the position of other elements is not affected.

```



```

3000    {\vfuzz=9999pt\vbox to 0pt {
3001        \if@RTL
3002            \raggedright
3003        \else
3004            \raggedleft
3005        \fi
3006        \inserttitlegraphic
3007    }}
3008
3009    \begin{minipage}[t]{\textwidth}
3010        \usebeamerfont{author}
3011        \insertauthor
3012    \end{minipage}
3013
3014    \vspace*{\baselineskip}
3015    \begin{minipage}[t]{\textwidth}
3016        \usebeamerfont{institute}
3017        \insertinstitute
3018    \end{minipage}
3019
3020    \vspace*{\baselineskip}
3021    \begin{minipage}[t]{\textwidth}
3022        \usebeamerfont{date}
3023        \insertdate
3024    \end{minipage}
3025
3026    \vspace*{0pt plus 100fill}
3027
3028    \addtocounter{framenum}{-1}
3029    \addtocounter{realframenum}{-1}
3030 }
3031
3032
3033

```

## 28 File beamerinnerthemeinmargin-xetex-bidi.def

```

3034 \ProvidesFile{beamerinnerthemeinmargin-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
3035 \AtBeginDocument{%
3036     \setbeamsize{sidebar width left=.25\paperwidth}%
3037 }
3038
3039 \bidi@csundef{beamer@@tmpop@section in toc@inmargin}
3040
3041 \bidi@csundef{beamer@@tmpop@title page@inmargin}
3042
3043 \bidi@csundef{beamer@@tmpop@block begin@inmargin}
3044
3045 \bidi@csundef{beamer@@tmpop@block end@inmargin}
3046
3047 \bidi@csundef{beamer@@tmpop@block alerted begin@inmargin}
3048
3049 \bidi@csundef{beamer@@tmpop@block alerted end@inmargin}
3050

```



```

3051 \bidi@csundef{beamer@@tmpop@block example begin@inmargin}
3052
3053 \bidi@csundef{beamer@@tmpop@block example end@inmargin}
3054
3055 \defbeamertemplate*{section in toc}{inmargin}
3056 {\leavevmode
3057   \beamer@putleft{\usebeamercolor[fg]{section in toc}\inserttocsection}\strut}{2.5ex}}
3058
3059 \defbeamertemplate*{title page}{inmargin}
3060 {
3061   \begin{block}{\inserttitleindicator}
3062     \bgroup\usebeamercolor[fg]{title}\usebeamerfont{title}\inserttitle\egroup\par
3063     \usebeamercolor[fg]{subtitle}\usebeamerfont{subtitle}\insertsubtitle
3064   \end{block}
3065   \vfill
3066   \ifx\insertauthor\@empty
3067   \else
3068     \begin{block}{\insertauthorindicator}
3069       \bgroup\usebeamercolor[fg]{author}\usebeamerfont{author}\insertauthor\egroup\par
3070     \end{block}
3071   \fi
3072   \ifx\insertinstitute\@empty
3073   \else
3074     \begin{block}{\insertinstituteindicator}
3075       \bgroup\usebeamercolor[fg]{institute}\usebeamerfont{institute}\insertinstitute\egroup\par
3076     \end{block}
3077   \fi
3078   \ifx\insertdate\@empty
3079   \else
3080     \begin{block}{\insertdateindicator}
3081       \bgroup\usebeamercolor[fg]{date}\usebeamerfont{date}\insertdate\egroup\par
3082     \end{block}
3083   \fi
3084 }
3085
3086 \defbeamertemplate*{block begin}{inmargin}
3087 {
3088   \par\vskip\medskipamount%
3089   \leavevmode%
3090   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title}\usebeamerfont*{block title}}\par}
3091   \beginL\beamer@putright
3092   %\usebeamercolor[fg]{block body}% to be done!
3093 }
3094
3095 \defbeamertemplate*{block end}{inmargin}
3096 {\endbeamer@putright\endL\vskip\smallskipamount}
3097
3098 \defbeamertemplate*{block alerted begin}{inmargin}
3099 {
3100   \par\vskip\medskipamount%
3101   \leavevmode%
3102   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title alerted}\usebeamerfont*{block title alerted}}\par}
3103   \beginL\beamer@putright
3104   %\usebeamercolor[fg]{block body alerted}% to be done!

```





```

3105 }
3106
3107 \defbeamertemplate*{block alerted end}{inmargin}
3108 {\endbeamer@putright\endL\vskip\smallskipamount}
3109
3110 \defbeamertemplate*{block example begin}{inmargin}
3111 {
3112   \par\vskip\medskipamount%
3113   \leavevmode%
3114   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title example}\usebeamerfont*{block
3115   \beginL\beamer@putright
3116   %\usebeamercolor[fg]{block body example}% to be done
3117 }
3118
3119 \defbeamertemplate*{block example end}{inmargin}
3120 {\endbeamer@putright\endL\vskip\smallskipamount}
3121
3122 \bidi@AfterFile{beamerinnerthememetropolis-xetex-bidi.def}{%
3123   \setbeamertemplate{section in toc}[inmargin]%
3124   \setbeamertemplate{subsection in toc}[inmargin]%
3125   \setbeamertemplate{subsubsection in toc}[inmargin]%
3126 }
3127
3128

```

## 29 File beamerinnerthememetropolis-xetex-bidi.def

```

3129 \ProvidesFile{beamerinnerthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations f
3130 \setbeamertemplate{title}{
3131   \bidi@beamer@ragged%
3132   \linespread{1.0}%
3133   \inserttitle%
3134   \par%
3135   \vspace*{0.5em}
3136 }
3137
3138 \setbeamertemplate{subtitle}{
3139   \bidi@beamer@ragged%
3140   \insertsubtitle%
3141   \par%
3142   \vspace*{0.5em}
3143 }
3144
3145 \bidi@csundef{beamer@@tmpop@section page@progressbar}
3146
3147 \defbeamertemplate{section page}{progressbar}{
3148   \centering
3149   \begin{minipage}{22em}
3150     \bidi@beamer@ragged
3151     \usebeamercolor[fg]{section title}
3152     \usebeamerfont{section title}
3153     \insertsectionhead\[-1ex]
3154     \usebeamertemplate*{progress bar in section page}
3155     \par

```



```

3156 \ifx\insertsubsectionhead\@empty\else%
3157 \usebeamercolor[fg]{subsection title}%
3158 \usebeamerfont{subsection title}%
3159 \insertsubsectionhead
3160 \fi
3161 \end{minipage}
3162 \par
3163 \vspace{\baselineskip}
3164 }
3165
3166 \setbeamertemplate{progress bar in section page}{
3167 \setlength{\metropolis@progressonsectionpage}{%
3168 \textwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}%
3169 }%
3170 \begin{tikzpicture}
3171 \fill[bg] (0,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3172 \if@RTLmain
3173 \fill[fg] (\textwidth-\metropolis@progressonsectionpage,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3174 \else
3175 \fill[fg] (0,0) rectangle (\metropolis@progressonsectionpage, \metropolis@progressonsectionpage@linewidth);
3176 \fi
3177 \end{tikzpicture}%
3178 }
3179
3180 \renewcommand{\metropolis@block}[1]{
3181 \par\vskip\medskipamount%
3182 \setlength{\parskip}{0pt}
3183 \ifbeamercoloreempty[bg]{block title#1}{%
3184 \if@RTL
3185 \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3186 \else
3187 \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3188 \fi
3189 }{%
3190 \ifbeamercoloreempty[bg]{block title}{%
3191 \if@RTL
3192 \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3193 \else
3194 \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3195 \fi
3196 }%
3197 }%
3198 \if@RTL
3199 \begin{beamercolorbox}[
3200 sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3201 rightskip=\metropolis@blockadjust,
3202 leftskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3203 ]{block title#1}%
3204 \else
3205 \begin{beamercolorbox}[
3206 sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3207 leftskip=\metropolis@blockadjust,
3208 rightskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3209 ]{block title#1}%

```



```

3210 \fi
3211 }}%
3212 \usebeamerfont*{block title#1}%
3213 \metropolis@strut%
3214 \insertblocktitle%
3215 \metropolis@strut%
3216 \end{beamercolorbox}%
3217 \nointerlineskip%
3218 \ifbeamercolorempy[bg]{block body#1}{%
3219 \begin{beamercolorbox}[vmode]{block body#1}}{
3220 \ifbeamercolorempy[bg]{block body}{%
3221 \begin{beamercolorbox}[vmode]{block body#1}%
3222 }{%
3223 \begin{beamercolorbox}[sep=\metropolis@blocksep, vmode]{block body#1}%
3224 \vspace{-\metropolis@parskip}
3225 }}%
3226 \usebeamerfont{block body#1}%
3227 \setlength{\parskip}{\metropolis@parskip}%
3228 }
3229
3230
3231 \setbeamertemplate{footnote}{%
3232 \parindent 0em\noindent%
3233 \bidi@beamer@ragged
3234 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3235 }
3236
3237 \setbeamertemplate{RTLfootnote}{%
3238 \parindent 0em\noindent%
3239 \raggedleft
3240 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3241 }
3242
3243 \setbeamertemplate{LTRfootnote}{%
3244 \parindent 0em\noindent%
3245 \raggedright
3246 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3247 }
3248
3249 \setbeamertemplate{itemize items}{\textbullet}
3250
3251 \setbeamertemplate{section page}[progressbar]
3252
3253

```

## 30 File beamerinnerthemerectangles-xetex-bidi.def

```

3254 \ProvidesFile{beamerinnerthemerectangles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations f
3255 \setbeamertemplate{sections/subsections in toc}[square]
3256 \setbeamertemplate{items}[square]
3257

```

## 31 File beamerinnerthemrounded-xetex-bidi.def



```

3258 \ProvidesFile{beamerinnerthemeroounded-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for
3259 \setbeamertemplate{blocks}[rounded][shadow=\beamer@themeroounded@shadow]
3260 \setbeamertemplate{items}[ball]
3261 \setbeamertemplate{sections/subsections in toc}[ball]
3262

```

## 32 File beamerouterthemedefault-xetex-bidi.def

```

3263 \ProvidesFile{beamerouterthemedefault-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for
3264 \def\beamer@ftleft{\if@RTLmain\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by 1.7cm}
3265
3266 \def\beamer@fterright{\if@RTLmain\else\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by 1.7cm}
3267
3268 \AtBeginDocument{%
3269   \if@RTLmain
3270     \setbeamertemplate{frametitle}[default][right]
3271   \fi
3272 }
3273
3274 \bidi@csundef{beamer@@tmpop@note page@default}
3275
3276 \newcommand*{\bidi@beamer@today}{%
3277   \the\year-\ifnum\month<10\relax0\fi\the\month-\ifnum\day<10\relax0\fi\the\day}
3278
3279 \defbeamertemplate*{note page}{default}
3280 {%
3281   {%
3282     \scriptsize
3283     \usebeamerfont{note title}\usebeamercolor[fg]{note title}%
3284     \ifbeamercolorempy[bg]{note title}{\%
3285       \insertvrule{.25\paperheight}{note title.bg}%
3286       \vskip-.25\paperheight%
3287       \nointerlineskip%
3288     }%
3289     \vbox{
3290       \hfill\insertslideintonotes{0.25}\hskip-\Gm@rmargin\hskip0pt%
3291       \vskip-0.25\paperheight%
3292       \nointerlineskip
3293       \if@RTL
3294         \begin{pgfpicture}{-\textwidth}{0cm}{-\textwidth}{0cm}
3295           \begin{pgflowlevelscope}{\pgftransformrotate{-90}}
3296             {\pgftransformshift{\pgfpoint{2cm}{0.2cm}}}%
3297             \pgftext[base,right]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3298           \end{pgflowlevelscope}
3299         \end{pgfpicture}%
3300       \else
3301         \begin{pgfpicture}{0cm}{0cm}{0cm}{0cm}
3302           \begin{pgflowlevelscope}{\pgftransformrotate{90}}
3303             {\pgftransformshift{\pgfpoint{-2cm}{0.2cm}}}%
3304             \pgftext[base,left]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3305           \end{pgflowlevelscope}
3306         \end{pgfpicture}%
3307       \fi}
3308     \nointerlineskip

```



```

3309 \vbox to .25\paperheight{\vskip0.5em
3310 \if@RTL
3311 \moveright0.25\textwidth
3312 \fi
3313 \hbox{\insertshorttitle[width=0.75\textwidth]}%
3314 \setbox\beamer@tempbox=\hbox{\insertsection}%
3315
3316 \if@RTL
3317 \moveright\dimexpr0.29\textwidth-14pt\relax
3318 \fi
3319 \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip4pt\raise3pt\hbox{\vrule
3320 width0.4pt height7pt\vrule width 9pt
3321 height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}
3322 \if@RTL\endR\fi}%
3323 \setbox\beamer@tempbox=\hbox{\insertsubsection}%
3324
3325 \if@RTL
3326 \moveright\dimexpr0.29\textwidth-27.4pt\relax
3327 \fi \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip17.4pt\raise3pt\hbox{\vr
3328 width0.4pt height7pt\vrule width 9pt
3329 height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}
3330 \if@RTL\endR\fi}%
3331 \setbox\beamer@tempbox=\hbox{\insertshortframetitle}%
3332
3333 \if@RTL
3334 \moveright\dimexpr0.33\textwidth-40.8pt\relax
3335 \fi \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip30.8pt\raise3pt\hbox{\vr
3336 width0.4pt height7pt\vrule width 9pt
3337 height0.4pt}}\hskip1pt\hbox{\insertshortframetitle[width=0.67\textwidth]}\fi%
3338 \if@RTL\endR\fi}%
3339 \vfil}%
3340 }%
3341 \ifbeamercoloreempty[bg]{note page}{-}{-}%
3342 \nointerlineskip%
3343 \insertvrule{.75\paperheight}{note page.bg}%
3344 \vskip-.75\paperheight%
3345 }%
3346 \vskip.25em
3347 \nointerlineskip
3348 \insertnote
3349 }
3350
3351
3352

```

### 33 File beamerouterthemefocus-xetex-bidi.def

```

3353 \ProvidesFile{beamerouterthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for be
3354 \bidi@undef\beamer@tmpop@footline@progressbar
3355
3356 \defbeamertemplate*{footline}{progressbar}{%
3357 % If not appendix.
3358 \ifnum\mainend<0% From package appendixnumberbeamer.
3359 %

```



```

3360 \settothewidth{\focus@pbar@leftoffset}{1}%
3361 \addtolength{\focus@pbar@leftoffset}{1.5em}%
3362 %
3363 \ifx\beamer@focus@totalframenummering\no%
3364 \settothewidth{\focus@pbar@rightoffset}{}%
3365 \addtolength{\focus@pbar@rightoffset}{0.5em}%
3366 \else%
3367 \settothewidth{\focus@pbar@rightoffset}{\inserttotalframenummer}%
3368 \addtolength{\focus@pbar@rightoffset}{1.5em}%
3369 \fi%
3370 %
3371 % If not title page.
3372 \ifnum\value{realframenummer}>0%
3373 \ifnum\value{framenummer}<\inserttotalframenummer%
3374 \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]\usebeamerfont{footline}
3375 \pgfmathsetmacro{\focus@pbar@progress}%
3376 {(\paperwidth-\focus@pbar@leftoffset-\focus@pbar@rightoffset)*(\inserttotalframenummer-\value{framenummer})/\value{realframenummer}}
3377
3378 \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3379 \if@RTLmain
3380 \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@leftoffset,\the\focus@pbar@height);
3381 \fill[footline.bg] (\paperwidth-\the\focus@pbar@leftoffset,0) rectangle ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=west]{\focus@pbar@progress};
3382
3383 \else
3384 \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@leftoffset,\the\focus@pbar@height);
3385 \fill[footline.bg] (\the\focus@pbar@leftoffset,0) rectangle ++(\focus@pbar@rightoffset,\the\focus@pbar@height) node[anchor=east]{\focus@pbar@progress};
3386
3387 \fi
3388
3389 \ifx\beamer@focus@totalframenummering\no%
3390 \else%
3391 \if@RTLmain
3392 \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@rightoffset,\the\focus@pbar@height) node[anchor=east]{\focus@pbar@progress};
3393 \else
3394 \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@rightoffset,\the\focus@pbar@height) node[anchor=west]{\focus@pbar@progress};
3395
3396 \fi
3397 \fi%
3398 \end{tikzpicture}%
3399 \else%
3400 \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]
3401 \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3402 \fill[footline.bg] (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3403 \if@RTLmain
3404 \node[anchor=west, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {\focus@pbar@progress};
3405 \else
3406 \node[anchor=east, footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {\focus@pbar@progress};
3407 \fi
3408
3409 \ifx\beamer@focus@totalframenummering\no%
3410 \else%
3411 \if@RTLmain
3412 \node[footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {\focus@pbar@progress};
3413 \else

```



```

3414 \node[footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0
3415 \node[anchor=west, footline.fg] at ({\paperwidth-\the\focus@pbar@ri
3416 \fi
3417 \fi%
3418 \end{tikzpicture}%
3419 \fi%
3420 \fi%
3421 \fi%
3422 }
3423
3424

```

## 34 File beamerouterthemeinfolines-xetex-bidi.def

```

3425 \ProvidesFile{beamerouterthemeinfolines-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations fo
3426 \bidi@csundef{beamer@@tmpop@footline@infolines theme}
3427
3428 \defbeamertemplate*{footline}{infolines theme}
3429 {%
3430 \leavevmode%
3431 \hbox{%
3432 \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{author in head/foot}
3433 \usebeamerfont{author in head/foot}\insertshortauthor\expandafter\ifblank\expandafter{\
3434 \end{beamercolorbox}%
3435 \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{title in head/foot}
3436 \usebeamerfont{title in head/foot}\insertshorttitle
3437 \end{beamercolorbox}%
3438 \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,leftskip=2ex,rightskip=2ex,
3439 \hfill%
3440 \usebeamerfont{date in head/foot}%
3441 \insertshortdate{}%
3442 \hfill%
3443 \bgroup
3444 \usebeamerfont{page number in head/foot}%
3445 \usebeamerfont{page number in head/foot}%
3446 \usebeamertemplate{page number in head/foot}%
3447 \egroup
3448 \end{beamercolorbox}}%
3449 \vskip0pt%
3450 }
3451
3452 \bidi@csundef{beamer@@tmpop@headline@infolines theme}
3453
3454 \defbeamertemplate*{headline}{infolines theme}
3455 {%
3456 \leavevmode%
3457 \hbox{%
3458 \if@RTL
3459 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{section in head/foot}%
3460 \else
3461 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{section in head/foot}%
3462 \fi
3463 \usebeamerfont{section in head/foot}\insertsectionhead\hspace*{2ex}
3464 \end{beamercolorbox}%

```



```

3465 \if@RTL
3466   \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{subsection in head/foot}
3467 \else
3468   \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{subsection in head/foot}
3469 \fi
3470   \usebeamerfont{subsection in head/foot}\hspace*{2ex}\insertsubsectionhead
3471   \end{beamercolorbox}}%
3472   \vskip0pt%
3473 }
3474
3475 \bidi@AfterFile{beamerouterthememsplit-xetex-bidi.def}{%
3476   \setbeamertemplate{footline}[infoclines theme]%
3477 }
3478

```

### 35 File beamerouterthememetropolis-xetex-bidi.def

```

3479 \ProvidesFile{beamerouterthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations f
3480 \setbeamertemplate{progress bar in head/foot}{
3481   \nointerlineskip
3482   \setlength{\metropolis@progressinheadfoot}{%
3483     \paperwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}%
3484   }%
3485   \begin{beamercolorbox}[wd=\paperwidth]{progress bar in head/foot}
3486     \begin{tikzpicture}
3487       \fill[bg] (0,0) rectangle (\paperwidth, \metropolis@progressinheadfoot@linewidth);
3488 \if@RTLmain
3489       \fill[fg] (\paperwidth-\metropolis@progressinheadfoot,0) rectangle (\paperwidth, \met
3490 \else
3491       \fill[fg] (0,0) rectangle (\metropolis@progressinheadfoot, \metropolis@progressinhead
3492 \fi
3493     \end{tikzpicture}%
3494   \end{beamercolorbox}
3495 }
3496
3497 \AtBeginDocument{%
3498   \setbeamertemplate{frametitle}[plain]%
3499 }
3500
3501

```

### 36 File beamerouterthememiniframes-xetex-bidi.def

```

3502 \ProvidesFile{beamerouterthememiniframes-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations f
3503 \bidi@csundef{beamer@@tmpop@headline@miniframes theme}
3504
3505 \defbeamertemplate*{headline}{miniframes theme}
3506 {%
3507   \begin{beamercolorbox}[colsep=1.5pt]{upper separation line head}
3508   \end{beamercolorbox}
3509   \begin{beamercolorbox}{section in head/foot}
3510     \vskip2pt\if@RTL\beginR\fi\insertnavigation{\paperwidth}\if@RTL\endR\fi\vskip2pt
3511   \end{beamercolorbox}%
3512   \ifbeamer@theme@subsection%

```





```

3513 \begin{beamercolorbox}[colsep=1.5pt]{middle separation line head}
3514 \end{beamercolorbox}
3515 \if@RTL
3516 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3517   rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3518 \else
3519 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3520   leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3521 \fi
3522 \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3523 \end{beamercolorbox}%
3524 \fi%
3525 \begin{beamercolorbox}[colsep=1.5pt]{lower separation line head}
3526 \end{beamercolorbox}
3527 }
3528
3529

```

## 37 File beamerouterthemesidebar-xetex-bidi.def

```

3530 \ProvidesFile{beamerouterthemesidebar-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for
3531 \bidi@csundef{beamer@@tmpop@frametitle@sidebar theme}
3532
3533 \bidi@csundef{beamer@@tmpop@headline@sidebar theme}
3534
3535 \bidi@csundef{beamer@@tmpop@sidebar left@sidebar theme}
3536
3537 \bidi@csundef{beamer@@tmpop@sidebar right@sidebar theme}
3538
3539 \ifdim\beamer@headheight>0pt
3540
3541 \defbeamertemplate*{frametitle}{sidebar theme}
3542 {%
3543   \nointerlineskip%
3544   \ifbeamer@plainframe%
3545     \hbox{\usebeamercolor[bg]{frametitle}%
3546       \@tempdima\paperwidth\advance\@tempdima-\beamer@sidebarwidth
3547       \hskip-\beamer@leftmargin\vrule height\beamer@headheight width\@tempdima\hskip-\bea
3548     \nointerlineskip%
3549   \fi%
3550   \vskip-\beamer@headheight%
3551   \vbox to \beamer@headheight{%
3552     \vfil
3553     \bidi@beamer@leftskip=-\beamer@leftmargin%
3554     \advance\bidi@beamer@leftskip by0.3cm%
3555     \bidi@beamer@rightskip=-\beamer@rightmargin%
3556     \advance\bidi@beamer@rightskip by0.3cm plus1fil%
3557     {\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframetitle\par
3558     \ifx\insertframesubtitle\@empty\else%
3559       {\usebeamercolor[fg]{framesubtitle}\usebeamerfont{framesubtitle}\strut\insertframes
3560     \fi%
3561     \vbox{}%
3562     \vskip-1em%
3563     \vfil

```



```

3564 }%
3565 }
3566
3567 \AtBeginDocument{%
3568   \setbeamertheme{frametitle}[sidebar theme]%
3569 }
3570
3571 \defbeamertheme*{headline}{sidebar theme}
3572 {%
3573   \begin{beamercolorbox}[wd=\paperwidth]{frametitle}
3574     \ifx\beamer@sidebarside\beamer@lefttext%
3575       \else%
3576         \hfill%
3577       \fi%
3578     \ifdim\beamer@sidebarwidth>0pt%
3579       \bgroup
3580       \usebeamercolor[bg]{logo}%
3581       \if@RTLmain
3582       \else
3583         \vrule width\beamer@sidebarwidth height \beamer@headheight%
3584         \hskip-\beamer@sidebarwidth%
3585       \fi
3586       \hbox to \beamer@sidebarwidth{\hss\vbox to
3587         \beamer@headheight{\vss\hbox{\color{fg}\insertlogo}\vss}\hss}%
3588       \if@RTLmain
3589         \hskip-\beamer@sidebarwidth%
3590         \vrule width\beamer@sidebarwidth height \beamer@headheight%
3591       \fi
3592       \egroup
3593     \else%
3594       \vrule width0pt height \beamer@headheight%
3595     \fi%
3596   \end{beamercolorbox}
3597 }
3598 \fi
3599
3600 \def\beamer@sidebarformat#1#2#3{%
3601 \if@RTL
3602   \begin{beamercolorbox}[wd=\beamer@sidebarwidth,rightskip=#1,leftskip=1ex plus1fil,vmode]{
3603 \else
3604   \begin{beamercolorbox}[wd=\beamer@sidebarwidth,leftskip=#1,rightskip=1ex plus1fil,vmode]{
3605 \fi
3606   \vbox{}%
3607   #3\par%
3608   \vbox{}%
3609   \vskip-1.5ex%
3610 \end{beamercolorbox}
3611 }
3612
3613 \ifdim\beamer@sidebarwidth>0pt
3614
3615 \AtBeginDocument{%
3616   \setbeamertheme{sidebar width \beamer@sidebarside=\beamer@sidebarwidth}%
3617 }

```



```

3618
3619 \defbeamertemplate*{sidebar \beamer@sidebarside}{sidebar theme}
3620 {
3621   \beamer@tempdim=\beamer@sidebarwidth%
3622   \advance\beamer@tempdim by -6pt%
3623   {\usebeamerfont{title in sidebar}%
3624     \vskip1.5em%
3625     \hskip3pt%
3626     \bgroup
3627     \usebeamercolor[fg]{title in sidebar}%
3628     \insertshorttitle[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3629     \vskip1.25em%
3630   }%
3631   {%
3632     \hskip3pt%
3633     \bgroup
3634     \usebeamercolor[fg]{author in sidebar}%
3635     \usebeamerfont{author in sidebar}%
3636     \insertshortauthor[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3637     \vskip1.25em%
3638   }%
3639   \insertverticalnavigation{\beamer@sidebarwidth}%
3640   \vfill
3641   \ifx\beamer@sidebarside\beamer@lefttext%
3642   \else%
3643     \usebeamercolor{normal text}%
3644     \llap{\usebeamertemplate***{navigation symbols}\hskip0.1cm}%
3645     \vskip2pt%
3646   \fi%
3647 }%
3648 \fi
3649

```

## 38 File beamerouterthemesplit-xetex-bidi.def

```

3650 \ProvidesFile{beamerouterthemesplit-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for be
3651 \bidi@csundef{beamer@@tmpop@footline@split theme}
3652
3653 \defbeamertemplate*{footline}{split theme}
3654 {%
3655   \leavevmode%
3656   \hbox{\if@RTL\begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm p
3657 \else
3658 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm plus1fill,rightsk
3659 \fi
3660   \usebeamerfont{author in head/foot}\insertshortauthor
3661   \end{beamercolorbox}%
3662   \if@RTL
3663     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm,leftskip=.3cm
3664 \else
3665     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm,rightskip=.3cm
3666 \fi
3667   \usebeamerfont{title in head/foot}\insertshorttitle\nobreak\hfill\bgroup\usebeamercolor
3668   \end{beamercolorbox}}%

```



```

3669 \vskip0pt%
3670 }
3671
3672

```

### 39 File beamerouterthemeshadow-xetex-bidi.def

```

3673 \ProvidesFile{beamerouterthemeshadow-xetex-bidi.def}[2022/06/11 v0.3 bidi adaptations for b
3674 \pgfdeclarehorizontalshading[frametitle.bg,frametitle right.bg]{bidi@beamer@RTL@frametitles
3675 color(0pt)=(frametitle right.bg);
3676 color(\paperwidth)=(frametitle.bg)
3677 }
3678
3679 \newcommand*{\bidi@beamer@frametitleshade}{%
3680 \if@RTLmain
3681 \pgfuses shading{bidi@beamer@RTL@frametitleshade}%
3682 \else
3683 \pgfuses shading{beamer@frametitleshade}%
3684 \fi
3685 }
3686
3687 \bidi@csundef{beamer@@tmpop@frametitle@shadow theme}
3688
3689 \defbeamertemplate*{frametitle}{shadow theme}
3690 {%
3691 \nointerlineskip%
3692 \vskip-2pt%
3693 \hbox{\leavevmode
3694 \advance\beamer@leftmargin by -12bp%
3695 \advance\beamer@rightmargin by -12bp%
3696 \beamer@tempdim=\textwidth%
3697 \advance\beamer@tempdim by \beamer@leftmargin%
3698 \advance\beamer@tempdim by \beamer@rightmargin%
3699 \hskip-\Gm@lmargin\hbox{%
3700 \setbox\beamer@tempbox=\hbox{\begin{minipage}[b]{\paperwidth}%
3701 \vbox{\vskip-.75ex%
3702 \bidi@beamer@leftskip0.3cm%
3703 \bidi@beamer@rightskip0.3cm plus1fil\leavevmode
3704 \bgroup\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertfram
3705 \ifx\insertframesubtitle\@empty\else%
3706 {\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\insertframes
3707 \fi%
3708 \nointerlineskip
3709 \vbox{}}%
3710 \end{minipage}}}%
3711 \beamer@tempdim=\ht\beamer@tempbox%
3712 \advance\beamer@tempdim by 2pt%
3713 \begin{pgfpicture}{0pt}{0pt}{\paperwidth}{\beamer@tempdim}
3714 \begin{pgfscope}
3715 \pgfsetfillcolor{black}%
3716 \pgfpathrectangle{\pgfpoint{0pt}{-4pt}}{\pgfpoint{\paperwidth}{8pt}}%
3717 \pgfsetfading{beamer@topshadowmask}{}%
3718 \pgfusepath{fill}%
3719 \end{pgfscope}

```



```

3720     \begin{pgfscope}
3721         \usebeamercolor{frametitle right}%
3722         \pgfpathrectangle{\pgfpointorigin}{\pgfpoint{\paperwidth}{\beamer@tempdim}}%
3723         \pgfusepath{clip}%
3724         \pgftext[left,base]{\bidi@beamer@frametitleshade}%
3725     \end{pgfscope}
3726 \end{pgfpicture}
3727 \hskip-\paperwidth%
3728 \box\beamer@tempbox%
3729 }%
3730 \hskip-\Gm@rmargin%
3731 }%
3732 \vskip-2pt
3733 }
3734
3735 \AtBeginDocument{%
3736     \setbeamertemplate{frametitle}[shadow theme]%
3737 }
3738
3739

```

## 40 File beamerouterthemesmoothbars-xetex-bidi.def

```

3740 \ProvidesFile{beamerouterthemesmoothbars-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations f
3741 \bidi@csundef{beamer@@tmpop@headline@smoothbars theme}
3742
3743 \bidi@csundef{beamer@@tmpop@frametitle@smoothbars theme}
3744
3745 \defbeamertemplate*{headline}{smoothbars theme}
3746 {%
3747     \pgfuseshading{beamer@barshade}%
3748     \vskip-0.05ex%
3749     \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3750     \begin{pgfpicture}
3751         \begin{pgfscope}%
3752             \ifbeamer@sb@subsection%
3753                 \pgfsetfillcolor{subsection in head/foot.bg}%
3754             \else%
3755                 \pgfsetfillcolor{section in head/foot.bg}%
3756             \fi%
3757             \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-.05ex}}{\pgfpoint{\paperwidth}{1ex}}%
3758             \pgfsetfading{beamer@belowframetitlemask}{}%
3759             \pgfusepath{fill}%
3760         \end{pgfscope}%
3761     \end{pgfpicture}%
3762 \end{beamercolorbox}%
3763 \ifbeamer@sb@subsection%
3764     \vskip-9.75ex%
3765 \else%
3766     \vskip-6.85ex%
3767 \fi%
3768 \begin{beamercolorbox}[ignorebg,ht=2.25ex,dp=3.75ex]{section in head/foot}
3769     \insertnavigation{\paperwidth}
3770 \end{beamercolorbox}%

```



```

3771 \ifbeamer@sb@subsection%
3772 \if@RTL
3773   \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3774     rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3775   \else
3776   \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3777     leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3778   \fi
3779   \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3780   \end{beamercolorbox}%
3781 \fi%
3782 }%
3783
3784 \defbeamertemplate*{frametitle}{smoothbars theme}
3785 {%
3786   \nointerlineskip%
3787   \vskip-0.19ex%
3788   \usebeamerfont{headline}%
3789   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=1ex,vmode]{empty}
3790     \pgfuses shading{beamer@aboveframetitle}%
3791   \end{beamercolorbox}%
3792   \vskip-1ex%
3793   \nointerlineskip%
3794   \if@RTL
3795   \begin{beamercolorbox}[wd=\paperwidth,rightskip=.3cm,leftskip=.3cm plus1fil,vmode]{framet
3796   \else
3797   \begin{beamercolorbox}[wd=\paperwidth,leftskip=.3cm,rightskip=.3cm plus1fil,vmode]{framet
3798   \fi
3799   \vskip0.5ex%
3800   \usebeamerfont*{frametitle}\strut\insertframetitle%
3801   \ifx\insertframesubtitle\@empty%
3802     \strut\par%
3803   \else
3804     \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insert
3805   \fi}%
3806   \usebeamerfont{headline}%
3807   \vskip0.05ex%
3808   \end{beamercolorbox}%
3809   \nointerlineskip%
3810   \vskip-0.05ex%
3811   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3812   \begin{pgfpicture}
3813     \begin{pgfscope}%
3814       \pgfsetfillcolor{frametitle.bg}%
3815       \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3816       \pgfsetfading{beamer@belowframetitlemask}{}%
3817       \pgfusepath{fill}%
3818     \end{pgfscope}%
3819   \end{pgfpicture}%
3820   \end{beamercolorbox}%
3821 }
3822
3823 \AtBeginDocument{%
3824   \setbeamertemplate{frametitle}[smoothbars theme]%

```



```

3825 }
3826
3827

```

## 41 File beamerouterthemesmoothtree-xetex-bidi.def

```

3828 \ProvidesFile{beamerouterthemesmoothtree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations f
3829 \bidi@csundef{beamer@tmpop@headline@smoothtree theme}
3830
3831 \bidi@csundef{beamer@tmpop@frametitle@smoothtree theme}
3832
3833 \defbeamer*template*{headline}{smoothtree theme}
3834 {%
3835   \pgfuses shading{beamer@treeshade}%
3836   \vskip-0.05ex%
3837   \begin{beamer colorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3838   \begin{pgf picture}
3839     \begin{pgf scope}%
3840       \pgfset fillcolor{subsection in head/foot.bg}%
3841       \pgfpath rectangle{\pgf point{- .5\paperwidth}{-0.5ex}}{\pgf point{\paperwidth}{1ex}}%
3842       \pgfset fading{beamer@belowframetitlemask}{}%
3843       \pgfuse path{fill}%
3844     \end{pgf scope}%
3845   \end{pgf picture}%
3846   \end{beamer colorbox}%
3847   \vskip-9.15ex%
3848   \if@RTL
3849     \begin{beamer colorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3850       rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3851     \else
3852     \begin{beamer colorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3853       leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3854     \fi
3855     \usebeamer font{title in head/foot}\insertshort title
3856   \end{beamer colorbox}
3857   \if@RTL
3858     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3859       rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3860     \else
3861     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3862       leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3863     \fi
3864     \usebeamer font{section in head/foot}%
3865     \hskip6pt\insertsection head
3866   \end{beamer colorbox}
3867   \if@RTL
3868     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3869       rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3870     \else
3871     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3872       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3873     \fi
3874     \usebeamer font{subsection in head/foot}%
3875     \hskip12pt\insertsubsection head

```



```

3876 \end{beamercolorbox}
3877 \vskip-0.4ex%
3878 }
3879
3880 \defbeamertemplate*{frametitle}{smoohtree theme}
3881 {%
3882 \nointerlineskip%
3883 \vskip-0.05ex%
3884 \usebeamerfont{headline}%
3885 \begin{beamercolorbox}[wd=\paperwidth,ht=0.85ex,dp=0ex]{empty}
3886 \pgfuses shading{beamer@aboveframetitle}%
3887 \end{beamercolorbox}
3888 \nointerlineskip%
3889 \if@RTL
3890 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.935cm,leftskip=.3cm plus1fil]{frametitle}
3891 \else
3892 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.935cm,rightskip=.3cm plus1fil]{frametitle}
3893 \fi
3894 \vskip-1.2ex%
3895 \usebeamerfont*{frametitle}\strut\insertframetitle%
3896 \ifx\insertframesubtitle\@empty%
3897 \strut\par%
3898 \else
3899 \par{\usebeamerfont*{framesubtitle}\usebeamercolor[fg]{framesubtitle}\strut\insertframesubtitle}
3900 \fi%
3901 \usebeamerfont{headline}%
3902 \end{beamercolorbox}%
3903 \nointerlineskip
3904 \vskip-0.2ex%
3905 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3906 \begin{pgfpicture}
3907 \begin{pgfscope}%
3908 \pgfsetfillcolor{frametitle.bg}%
3909 \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3910 \pgfsetfading{beamer@belowframetitlemask}{}%
3911 \pgfusepath{fill}%
3912 \end{pgfscope}%
3913 \end{pgfpicture}%
3914 \end{beamercolorbox}%
3915 }
3916
3917
3918 \AtBeginDocument{%
3919 \setbeamertemplate{frametitle}[smoohtree theme]%
3920 }
3921
3922

```

## 42 File beamerouterthemetree-xetex-bidi.def

```

3923 \ProvidesFile{beamerouterthemetree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
3924 \bidi@csundef{beamer@tmpop@headline@tree theme}
3925
3926 \defbeamertemplate*{headline}{tree theme}

```





```

3927 {%
3928 \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{upper separation line head}
3929 \end{beamercolorbox}
3930 \if@RTL
3931 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3932 rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3933 \else
3934 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3935 leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3936 \fi
3937 \usebeamerfont{title in head/foot}\insertshorttitle
3938 \end{beamercolorbox}
3939 \if@RTL
3940 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3941 rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3942 \else
3943 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3944 leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3945 \fi
3946 \usebeamerfont{section in head/foot}%
3947 \ifbeamer@tree@showhooks
3948 \setbox\beamer@tempbox=\hbox{\insertsectionhead}%
3949 \ifdim\wd\beamer@tempbox>1pt%
3950 \hskip2pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.4pt}
3951 \hskip1pt%
3952 \fi%
3953 \else%
3954 \hskip6pt%
3955 \fi%
3956 \insertsectionhead
3957 \end{beamercolorbox}
3958 \if@RTL
3959 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3960 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3961 \else
3962 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3963 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3964 \fi
3965 \usebeamerfont{subsection in head/foot}%
3966 \ifbeamer@tree@showhooks
3967 \setbox\beamer@tempbox=\hbox{\insertsubsectionhead}%
3968 \ifdim\wd\beamer@tempbox>1pt%
3969 \hskip9.4pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.4pt}
3970 \hskip1pt%
3971 \fi%
3972 \else%
3973 \hskip12pt%
3974 \fi%
3975 \insertsubsectionhead
3976 \end{beamercolorbox}
3977 \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{lower separation line head}
3978 \end{beamercolorbox}
3979 }
3980

```



3981

## 43 File beamerthemeHannover-xetex-bidi.def

```
3982 \ProvidesFile{beamerthemeHannover-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for beam
3983 \AtBeginDocument{%
3984   \if@RTLmain
3985     \setbeamertemplate{frametitle}[default][left]%
3986   \else
3987     \setbeamertemplate{frametitle}[default][right]%
3988   \fi
3989 }
3990
3991
```

## 44 File beamerthemeSingapore-xetex-bidi.def

```
3992 \ProvidesFile{beamerthemeSingapore-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for bea
3993 \addtoheadtemplate{\pgfuses shading{beamer@headfade}\vskip-1.25cm}{%
3994
3995 \beamertemplatedotitem
3996
3997 \AtBeginDocument{%
3998   \setbeamertemplate{frametitle}[default][center]%
3999 }
4000
4001
```

## 45 File bidi.sty

```
4002 \NeedsTeXFormat{LaTeX2e}
4003 \def\bididate{2024/12/08}
4004 \def\bidi@version{40.0}
4005 \def\bidi@releasename{John Torrence Tate, Jr.}
4006 \newcommand*{\bidi@releasename}{\bidi@releasename}
4007 \ProvidesPackage{bidi}[\bididate\space v\bidi@version\space (Release \bidi@releasename)\spa
4008 Bidirectional typesetting in plain TeX and LaTeX]
4009 \edef\@bidi@info{*****~J%
4010 * ~J%
4011 * bidi package (Bidirectional typesetting in~J%
4012 * plain TeX and LaTeX, using XeTeX engine)~J%
4013 * ~J%
4014 * Description: A convenient interface for~J%
4015 * typesetting bidirectional texts in plain TeX~J%
4016 * and LaTeX. The package includes adaptations~J%
4017 * for use with many other commonly-used packages.~J%
4018 * ~J%
4019 * Copyright (c) 2007--2024 Vafa Khalighi~J%
4020 * Copyright (c) 2018--2020 bidi-tex GitHub organization~J%
4021 * ~J%
4022 * v\bidi@version\space (Release \bidi@releasename), \bididate~J%
4023 * ~J%
4024 * License: LaTeX Project Public License, version~J%
4025 * 1.3c or higher (your choice)~J%
```



```

4026 * ^^J%
4027 * Location on CTAN: /macros/xetex/latex/bidi^^J%
4028 * ^^J%
4029 * Issue tracker: https://github.com/xepersian/bidi/issues^^J%
4030 * ^^J%
4031 * Discussions: https://github.com/xepersian/bidi/discussions^^J%
4032 * ^^J%
4033 * Primary author of bidi package: Vafa Khalighi.^^J%
4034 * ^^J%
4035 *****}
4036 \typeout{\@bidi@info}
4037 \edef\bidi@everyjob{\the\everyjob}
4038 \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
4039 \newcommand*{\bidi@version}{\ensuremath\bidi@version}
4040 \newcommand*{\IfbidiPackageVersionLater}[1]{%
4041   \ifdim\bidi@version pt > #1 pt %
4042     \expandafter\@firstoftwo
4043   \else
4044     \expandafter\@secondoftwo
4045   \fi}
4046 \newcommand*{\IfbidiPackageVersionBefore}[1]{%
4047   \ifdim\bidi@version pt < #1 pt %
4048     \expandafter\@firstoftwo
4049   \else
4050     \expandafter\@secondoftwo
4051   \fi}
4052 \newcommand*{\IfbidiPackageVersion}[1]{%
4053   \ifdim\bidi@version pt = #1 pt %
4054     \expandafter\@firstoftwo
4055   \else
4056     \expandafter\@secondoftwo
4057   \fi}
4058 \RequirePackage{iftex}
4059 \RequireXeTeX
4060 \RequirePackage{biditools}
4061 \RequirePackage{zref-abspage}
4062 \RequirePackage{auxhook}
4063 \RequirePackage{ltxcmds}
4064 \RequirePackage{xkeyval}
4065 \eqnewif{\if@RTLmain}{\if@rlmain}
4066 \eqnewif{\if@RTL}{\if@rl}
4067 \newif\if@nonlatin
4068 \newif\if@bidi@perpage@footnote
4069 \newcommand*{\setlatin}{\@nonlatinfalse}
4070 \newcommand*{\setnonlatin}{\@nonlatintrue}
4071 \eqnewif{\if@RTLtab}{\if@tab@rl}
4072 \newif\if@hboxRconstruct
4073 \newif\if@bidi@pdfencrypt
4074 \newcommand*{\setRTLtable}{\@RTLtabtrue}
4075 \newcommand*{\setLTRtable}{\@RTLtabfalse}
4076 \newif\if@bidi@pdfm@mark
4077 \newif\if@RTLmarginpar
4078 \newif\if@LTRmarginpar
4079 \newif\if@LTRbibitems

```



```

4080 \newif\if@RTLbibitems
4081 \newif\if@extrafootnotefeatures
4082 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
4083 \newif\if@bidi@list@minipage@parbox
4084 \newif\if@bidi@list@minipage@parbox@not@nob
4085 \newcommand*{\@bidi@pdfcreator}{%
4086   The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4087 }
4088 \newcommand*{\@bidi@pdfproducer}{%
4089   The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4090 }
4091 \newcommand*{\@bidi@pdfcustomproperties}{%
4092   This is the bidi package, Version \bidi@version\space (Release \bidi@releasename),
4093   Released December 8, 2024.
4094 }
4095 \newcommand*{\bidi@beamer@ragged}{%}
4096 \@RTLmainfalse
4097 \AtBeginDocument{%
4098   \if@RTLmain\else
4099     \if@RTL\@RTLmaintrue%
4100     \else\@RTLmainfalse%
4101     \fi%
4102   \fi%
4103 }
4104 \let\n@xt=\
4105 \bidi@newrobustcmd*{\LRE}{\protect\pLRE}%
4106 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4107 \bidi@newrobustcmd*{\RLE}{\protect\pRLE}
4108 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4109 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4110   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4111 \newinsert\@bidi@copyins@
4112 \skip\@bidi@copyins@=12\p@
4113 \dimen\@bidi@copyins@=40pc
4114 \count\@bidi@copyins@=1000
4115 \newcommand*{\@bidi@inslogo@}{\insert\@bidi@copyins@{\@bidi@logo@}}
4116 \newcommand*{\@bidi@logo@hb@xt@columnwidth}{%
4117   \if@RTLmain
4118     \if@twocolumn
4119       \hboxR to \columnwidth
4120     \else
4121       \hboxR to \textwidth
4122     \fi
4123   \else
4124     \if@twocolumn
4125       \hboxL to \columnwidth
4126     \else
4127       \hboxL to \textwidth
4128     \fi
4129   \fi
4130 }
4131 \newcommand*{\@bidi@logo}[1]{%
4132   \toks@{%
4133     \setbox\z@\hbox{%

```



```

4134     \special{%
4135         pdf:image width 50pt height 50pt (#1)%
4136     }
4137 }%
4138 \dp\z@\z@
4139 \ht\z@=50pt
4140 \wd\z@=50pt
4141 \beginL
4142     \lower20pt\box\z@
4143 \endL
4144 }%
4145 \the\toks@
4146 }
4147 \newcommand*{\@bidi@logo@}{%
4148     \@bidi@logo@hb@xt@columnwidth
4149     {\hss\LRE{\bfseries Typeset by the \textsf{bidi}
4150         package\quad\@bidi@logo{bidi-logo.pdf}}}}
4151 \define@key{bidi@pdfencrypt}{userpassword}[]{%
4152     \def\bidi@pdfencrypt@userpassword{#1}%
4153 }
4154 \define@key{bidi@pdfencrypt}{ownerpassword}[]{%
4155     \def\bidi@pdfencrypt@ownerpassword{#1}%
4156 }
4157 \define@key{bidi@pdfencrypt}{keylength}[128]{%
4158     \def\bidi@pdfencrypt@keylength{#1}%
4159 }
4160 \define@key{bidi@pdfencrypt}{permissionflags}[2052]{%
4161     \def\bidi@pdfencrypt@permissionflags{#1}%
4162 }
4163 \newcommand*{\pdfencryptsetup}{\setkeys{bidi@pdfencrypt}}
4164 \@onlypreamble\pdfencryptsetup
4165 \input{latex-xetex-bidi.def}
4166 \input{loadingorder-xetex-bidi.def}
4167 \define@choicekey{bidi.sty}{RTLdocument}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4168     \ifcase\bidi@tempb\relax
4169         \@RTLtrue
4170     \or
4171         \@RTLfalse
4172     \fi}
4173 \define@choicekey{bidi.sty}{documentdirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttoright}
4174 \ifcase\bidi@tempb\relax
4175     \@RTLtrue
4176 \or
4177     \@RTLfalse
4178 \fi}
4179 \define@choicekey{bidi.sty}{tabledirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttoright}
4180 \ifcase\bidi@tempb\relax
4181     \@RTLtabtrue
4182 \or
4183     \@RTLtabfalse
4184 \fi}
4185 \define@choicekey{bidi.sty}{script}[\bidi@tempa\bidi@tempb]{latin,nonlatin}[latin]{%
4186     \ifcase\bidi@tempb\relax
4187         \@nonlatinfalse

```



```

4188 \or
4189 \nonlatintrue
4190 \fi}
4191 \define@choicekey{bidi.sty}{rldocument}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4192 \ifcase\bidi@tempb\relax
4193 \RTLtrue
4194 \or
4195 \RTLfalse
4196 \fi}
4197 \define@choicekey{bidi.sty}{footnoterule}[\bidi@tempa\bidi@tempb]{automatic,left,right,split}
4198 \ifcase\bidi@tempb\relax
4199 \autofootnoterule
4200 \or
4201 \leftfootnoterule
4202 \or
4203 \rightfootnoterule
4204 \or
4205 \SplitFootnoteRule
4206 \or
4207 \textwidthfootnoterule
4208 \fi}
4209 \define@choicekey{bidi.sty}{footnotedirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttoright}
4210 \ifcase\bidi@tempb\relax
4211 \RTL@footnotetrue
4212 \or
4213 \RTL@footnotefalse
4214 \fi}
4215 \define@choicekey{bidi.sty}{debugfootnotedirection}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4216 \ifcase\bidi@tempb\relax
4217 \footdir@debugtrue
4218 \or
4219 \footdir@debugfalse
4220 \fi}
4221 \define@choicekey{bidi.sty}{extrafootnotefeatures}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4222 \ifcase\bidi@tempb\relax
4223 \@extrafootnotefeaturestrue
4224 \or
4225 \@extrafootnotefeaturesfalse
4226 \fi}
4227
4228 \define@choicekey{bidi.sty}{DetectColumn}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4229 \ifcase\bidi@tempb\relax
4230 \def\bidi@firstcolumn@status@write{%
4231 \protected@write\@auxout{}%
4232 {\string\bidi@column@status
4233 {1}}}%
4234 \def\bidi@lastcolumn@status@write{%
4235 \protected@write\@auxout{}%
4236 {\string\bidi@column@status{2}}}%
4237 \or
4238 \let\bidi@firstcolumn@status@write\relax
4239 \let\bidi@lastcolumn@status@write\relax
4240 \fi}
4241

```



```

4242 \define@choicekey{bidi.sty}{logo}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4243   \ifcase\bidi@tempb\relax
4244     \AtBeginDocument{\@bidi@inslogo}%
4245   \or
4246     \let\@bidi@logo@\empty \let\@bidi@inslogo@\empty
4247   \fi}
4248
4249 \define@choicekey{bidi.sty}{pdfinfo}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4250   \ifcase\bidi@tempb\relax
4251     \@bidi@pdfm@marktrue
4252   \or
4253     \@bidi@pdfm@markfalse
4254   \fi}
4255
4256 % The `perpagefootnote' option is documented in UK TeX FAQ at
4257 % <https://texfaq.org/FAQ-footnpp> (see last paragraph)
4258
4259 \define@choicekey{bidi.sty}{perpagefootnote}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4260   \ifcase\bidi@tempb\relax
4261     \@bidi@perpage@footnotetrue
4262   \or
4263     \@bidi@perpage@footnotefalse
4264   \fi}
4265
4266 \ExecuteOptionsX{%
4267   DetectColumn=off%
4268 }
4269
4270 \ProcessOptionsX
4271
4272 \pdfencryptsetup{%
4273   userpassword,%
4274   ownerpassword,%
4275   keylength,%
4276   permissionflags%
4277 }
4278
4279 \if@extrafootnotefeatures
4280   \input{extrafootnotefeatures-xetex-bidi.def}
4281 \fi
4282 \newcount\bidi@digits
4283 \XeTeXinterchartokenstate=\@ne
4284 \newXeTeXintercharclass\bidi@digits@charclass
4285 \newXeTeXintercharclass\bidi@sepmark@charclass
4286 \XeTeXcharclass `\. \bidi@sepmark@charclass
4287 \XeTeXcharclass `\- \bidi@sepmark@charclass
4288 \bidi@digits=\`0 \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digits<10 \advance\bidi@digits by 1 \repeat
4289 \bidi@digits=\` \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digits<256 \advance\bidi@digits by 1 \repeat
4290 \bidi@digits=\` \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digits<65536 \advance\bidi@digits by 1 \repeat
4291 \XeTeXinterchartoks \bidi@sepmark@charclass \bidi@digits@charclass = {\DigitsDotDashInterCharToks}
4292 \newcommand*\DigitsDotDashInterCharToks{\if@nonlatin\char"200F \fi}
4293 \bidi@AtEndPreamble{%
4294   \if@bidi@perpage@footnote
4295     \RequirePackage{bidi-perpage}%

```



```

4296 \ResetCounterPerPage{footnote}%
4297 \fi
4298 \ifx\bidipdfencrypt@ownerpassword\bidipdfempty
4299 \ifx\bidipdfencrypt@userpassword\bidipdfempty
4300 \@bidipdfencryptfalse
4301 \else
4302 \@bidipdfencrypttrue
4303 \fi
4304 \else
4305 \@bidipdfencrypttrue
4306 \fi
4307 \if@bidipdfencrypt
4308 \special{pdf:encrypt
4309 userpw (\bidipdfencrypt@userpassword)
4310 ownerpw (\bidipdfencrypt@ownerpassword)
4311 length \bidipdfencrypt@keylength
4312 perm \bidipdfencrypt@permissionflags
4313 }%
4314 \fi
4315 }
4316 \AtEndDocument{%
4317 \special{pdf:
4318 docinfo<<%
4319 \if@bidipdfmark
4320 /Creator(\@bidipdfcreator)%
4321 /Producer(\@bidipdfproducer)%
4322 \fi
4323 /BIDI.Fullbanner(\@bidipdfcustomproperties)%
4324 \if@bidicsdef{\xepersian@pdfcustomproperties}{%
4325 /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4326 }-}%
4327 >>%
4328 }%
4329 }

```

## 46 File bidi.tex

```

4330 \def\bididate{2024/12/08}
4331 \catcode`@=11
4332 \def\bidiversion{40.0}
4333 \def\bidireleasename{John Torrence Tate, Jr.}
4334 \def\bidireleasename{\bidireleasename}
4335 \let \protect \relax
4336 \newlinechar`\^^J
4337 \edef\@bidinfo{*****^^J%
4338 * ^^J%
4339 * bidi package (Bidirectional typesetting in^^J%
4340 * plain TeX and LaTeX, using XeTeX engine)^^J%
4341 * ^^J%
4342 * Description: A convenient interface for^^J%
4343 * typesetting bidirectional texts in plain TeX^^J%
4344 * and LaTeX. The package includes adaptations^^J%
4345 * for use with many other commonly-used packages.^^J%
4346 * ^^J%

```





```

4347 * Copyright (c) 2007--2024 Vafa Khalighi^^J%
4348 * Copyright (c) 2018--2020 bidi-tex GitHub organization^^J%
4349 * ^^J%
4350 * v\bidi@version\space (Release \bidi@releasename), \bididate^^J%
4351 * ^^J%
4352 * License: LaTeX Project Public License, version^^J%
4353 * 1.3c or higher (your choice)^^J%
4354 * ^^J%
4355 * Location on CTAN: /macros/xetex/latex/bidi^^J%
4356 * ^^J%
4357 * Issue tracker: https://github.com/xepersian/bidi/issues^^J%
4358 * ^^J%
4359 * Discussions: https://github.com/xepersian/bidi/discussions^^J%
4360 * ^^J%
4361 * Primary author of bidi package: Vafa Khalighi.^^J%
4362 * ^^J%
4363 *****}
4364 \message{\@bidi@info}
4365 \edef\bidi@everyjob{\the\everyjob}
4366 \everyjob{\bidi@everyjob\message{\@bidi@info}}
4367 \def\bidiversion{%
4368   \relax
4369   \ifmmode
4370     \bidi@version
4371   \else
4372     $\bidi@version$
4373   \fi
4374 }
4375 \input iftex.sty
4376 \RequireXeTeX
4377 \newif\if@bidi@pdfm@mark
4378 \newif\if@RTLmain
4379 \newif\if@RTL
4380 \newif\if@hboxRconstruct
4381 \newif\if@sentdir
4382 \newif\if@RTL@footnote
4383 \@RTLmainfalse
4384 \def\setRTLmain{%
4385   \if@RTLmain\else
4386     \if@RTL\@RTLmaintrue%
4387   \else\@RTLmainfalse%
4388   \fi%
4389   \fi%
4390 }
4391 \let\n@xt=\
4392 \protected\def\LRE{\protect\pLRE}%
4393 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4394 \protected\def\RLE{\protect\pRLE}
4395 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4396 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4397   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4398 \newinsert\@bidi@copyins@
4399 \skip\@bidi@copyins@=12\p@
4400 \dimen\@bidi@copyins@=40pc

```



```

4401 \count\@bidi@copyins@=1000
4402 \def\@bidi@inslogo@{\insert\@bidi@copyins@{\@bidi@logo@}}
4403 \def\@bidi@logo@hb@xt@{%
4404   \if@RTLmain
4405     \hboxR to
4406   \else
4407     \hboxL to
4408   \fi
4409 }
4410 \def\@bidi@logo#1{%
4411   \toks@{%
4412     \setbox\z@\hbox{%
4413       \special{%
4414         pdf:image width 50pt height 50pt (#1)%
4415       }
4416     }%
4417     \dp\z@\z@
4418     \ht\z@=50pt
4419     \wd\z@=50pt
4420     \beginL
4421       \lower20pt\box\z@
4422     \endL
4423   }%
4424   \the\toks@
4425 }
4426 \def\@bidi@logo@{\@bidi@logo@hb@xt@\hsize{\hss\LRE{\bf Typeset by the bidi package\quad\@bidi@inslogo@}}
4427 \def\nobidilogo{\let\@bidi@logo@\empty \let\@bidi@inslogo@\empty}
4428 \def\@bidi@pdfcreator{%
4429   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
4430 }
4431 \def\@bidi@pdfproducer{%
4432   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
4433 }
4434 \def\@bidi@pdfcustomproperties{%
4435   This is the bidi package, Version \@bidi@version\space (Release \@bidi@releasename),
4436   Released December 8, 2024.
4437 }
4438 \def\bidi@pdfm@mark{%
4439   \special{pdf:
4440     docinfo<<%
4441     \if@bidi@pdfm@mark
4442       /Creator(\@bidi@pdfcreator)%
4443       /Producer(\@bidi@pdfproducer)%
4444     \fi
4445     /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4446     >>%
4447   }%
4448 }
4449 \def\bidi@pdfinfoon{\@bidi@pdfm@marktrue}
4450 \def\bidi@pdfinfooff{\@bidi@pdfm@markfalse}
4451 \input plain-xetex-bidi.def
4452 \@bidi@inslogo@
4453 \outer\def\bye{\par\vfill\supereject\bidi@pdfm@mark\end}
4454 \catcode~@=12

```



4455 \bidipdfinfoon

## 47 File bidi2in1.sty

```
4456 \NeedsTeXFormat{LaTeX2e}
4457 \ProvidesPackage{bidi2in1}
4458 \pagestyle{plain}
4459 \newcount\evenpage
4460 \newcount\oddpge
4461 \twocolumn
4462 \def\@oddfoot{\evenpage=\thepage%
4463 \multiply\evenpage by 2%
4464 \oddpge=\the\evenpage%
4465 \advance\oddpge by -1%
4466 \hfil\the\evenpage\hfil\hfil\the\oddpge\hfil}%
4467 \def\@evenfoot{\evenpage=\thepage%
4468 \multiply\evenpage by 2%
4469 \oddpge=\the\evenpage%
4470 \advance\oddpge by -1%
4471 \hfil\the\oddpge\hfil\hfil\the\evenpage\hfil}%
4472 \textwidth 9.49in
4473 \textheight 6.7in
4474 \columnsep 0.9in
4475 \columnseprule 0.125pt
4476 \headheight 0cm
4477 \topmargin 0in
4478 \marginparwidth 0in
4479 \marginparsep 0in
4480 \hoffset 0.05in % Corrected
4481 \voffset -0.5in %top margin space is 1.0in by default
4482 \oddsidemargin 0in
4483 \evensidemargin 0in
4484 \headsep 0cm
4485 \topskip 0cm
4486 \parskip 0.15in %
4487 \headsep 0pt
4488 \special{papersize=11.69in,8.26in}
4489 \renewcommand\maketitle{\par
4490 \begingroup
4491 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
4492 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
4493 \long\def\@makefntext##1{\parindent 1em\noindent
4494 \hb@xt@1.8em{%
4495 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
4496 \@maketitle
4497 \@thanks
4498 \endgroup
4499 \setcounter{footnote}{0}%
4500 \global\let\thanks\relax
4501 \global\let\maketitle\relax
4502 \global\let\@maketitle\relax
4503 \global\let\@thanks\@empty
4504 \global\let\@author\@empty
4505 \global\let\@date\@empty
```



```

4506 \global\let\@title\@empty
4507 \global\let\title\relax
4508 \global\let\author\relax
4509 \global\let\date\relax
4510 \global\let\and\relax
4511 }

```

## 48 File `bidicode.sty`

```

4512 \NeedsTeXFormat{LaTeX2e}
4513 \ProvidesPackage{bidicode}
4514 \RequirePackage{xcolor}
4515 \RequirePackage{showexpl}
4516 \definecolor{hellgelb}{rgb}{1,1,0.85}
4517 \definecolor{colKeys}{rgb}{0.2,0.4,0.8}
4518 \definecolor{colCS}{rgb}{0.2,0.4,0.8}
4519 \definecolor{colIdentifier}{rgb}{0,0,0}
4520 \definecolor{colComments}{rgb}{1,0,0}
4521 \definecolor{colString}{rgb}{0,0.5,0}
4522 \lstset{%
4523     language=[LaTeX]TeX,%
4524     float=hbp,%
4525     basicstyle=\ttfamily\small,%
4526     identifierstyle=\color{colIdentifier},%
4527     keywordstyle=\color{colKeys},%
4528     texcsstyle=\color{colCS},%
4529     stringstyle=\color{colString},%
4530     commentstyle=\color{colComments},%
4531     backgroundcolor=\color{hellgelb},%
4532     columns=flexible,%
4533     tabsize=4,%
4534     extendedchars=true,%
4535     showspaces=false,%
4536     showstringspaces=false,%
4537     numbers=left,%
4538     numbersep=0.9em,%
4539     numberstyle=\tiny,%
4540     frame=single,%
4541     captionpos=b,%
4542     xleftmargin=1em,%
4543     breaklines=true,%
4544     breakautoindent=false,%
4545     breakindent=0pt,%
4546     escapeinside=**,%
4547     pos=r,%
4548     explpreset={%
4549         xleftmargin=1em,%
4550         columns=flexible,%
4551         language=[LaTeX]TeX%
4552     },%
4553     moretexcs={%
4554         bididate,%
4555         bidiversion,%
4556         deflatinfont,%

```



```

4557     defpersianfont,%
4558     ding,%
4559     endLTR,%
4560     endRTL,%
4561     false,%
4562     falsesymbol,%
4563     junicode,%
4564     lr,%
4565     LR,%
4566     LRE,%
4567     LTR,%
4568     maketitle,%
4569     Nastaliq,%
4570     newfontfamily,%
4571     Parsifont,%
4572     part,%
4573     RL,%
4574     RLE,%
4575     RTL,%
4576     RTLcases,%
4577     SepMark,%
4578     setLR,%
4579     setLTR,%
4580     setRL,%
4581     setRTL,%
4582     settextfont,%
4583     subsection,%
4584     subsubsection,%
4585     tableofcontents,%
4586     text,%
4587     theequation,%
4588     thesection,%
4589     true,%
4590     truesymbol,%
4591     XePersian,%
4592     xepersiandate,%
4593     xepersianversion%
4594 }%
4595 }
4596 \newcommand\HLON{%
4597   \gdef\lst@alloverstyle##1{%
4598     \fboxrule=0pt
4599     \fboxsep=0pt
4600     \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
4601   }}
4602 \newcommand\HLOFF{%
4603   \xdef\lst@alloverstyle##1{##1}%
4604 }
4605 \newcommand\Larg [1]{\normalfont\itshape#1\;}
4606 \newcommand\Larga[1]{\langle$\Larg{#1}$\rangle$}
4607 \newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
4608 \newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
4609 \newcommand\Largr[1]{\lrb\Larg{#1}\rrb}
4610 \newcommand\LBEG[1]{\normalfont\ttfamily\bs{}begin\lcb#1\rcb}}

```



```

4611 \newcommand\LEND[1]{\{\normalfont\ttfamily\bs{}\end\lcb#1\rcb\}}
4612
4613 \DeclareRobustCommand\bs{\{\normalfont\ttfamily\symbol{92}\}}
4614 \DeclareRobustCommand\lcb{\{\normalfont\ttfamily\char`\{\}}
4615 \DeclareRobustCommand\rcb{\{\normalfont\ttfamily\char`\}\}}
4616 \DeclareRobustCommand\lsb{\{\normalfont\ttfamily[]\}}
4617 \DeclareRobustCommand\rsb{\{\normalfont\ttfamily[]\}}
4618 \DeclareRobustCommand\lrb{\{\normalfont\ttfamily{}\}}
4619 \DeclareRobustCommand\rrb{\{\normalfont\ttfamily{}\}}
4620
4621 \def\Lcs#1{\nxLcs{#1}}
4622 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
4623 \def\nxLcs#1{\texttt{\symbol{92}#1}}
4624
4625 \def\Coordx#1{$x_{#1}$}
4626 \def\Coordy#1{$y_{#1}$}
4627 \def\Coordz#1{$z_{#1}$}
4628 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4629 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
4630 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4631 \def\CAny{\Coordx{}},\kern 1pt\Coordy{}
4632 \def\CIIIAny{\Coordx{}},\kern 1pt\Coordy{},\kern 1pt\Coordz{}
4633 \def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
4634 \def\coordin{(\Coordx{n},\kern 1pt\Coordy{n})}
4635 \def\coordi#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
4636 \def\coordx#1{($x_{#1}$)}
4637 \def\coordy#1{($y_{#1}$)}
4638 \def\coordz#1{($z_{#1}$)}
4639 \def\cAny{(\Coordx{}},\kern 1pt\Coordy{})}
4640 \def\ciiAny{(\Coordx{}},\kern 1pt\Coordy{},\kern 1pt\Coordz{})}
4641
4642 \newsavebox{\boxdef}
4643 \newenvironment{BDef}
4644 {\begin{lrbox}\boxdef
4645 \def\arraystretch{1.0}
4646 \begin{tabular}{@{}l@{}l@{}l@{}}
4647 }
4648 {\end{tabular}\end{lrbox}}
4649
4650 {\BCmd\fbbox{\usebox\boxdef}\endBCmd}
4651 \aftergroup\@afterindentfalse\aftergroup\@afterheading
4652 }
4653
4654 \newenvironment{BDef*}
4655 {\begin{lrbox}\boxdef
4656 \def\arraystretch{1.0}
4657 \begin{tabular}{@{}l@{}l@{}l@{}}
4658 }
4659 {\end{tabular}\end{lrbox}}
4660 {\begin{BCmd*}\fbbox{\usebox\boxdef}\end{BCmd*}}
4661 \aftergroup\@afterindentfalse\aftergroup\@afterheading
4662 }
4663 \newenvironment{BCmd}{
4664 \beginparpenalty-\@lowpenalty

```



```

4665 \topsep\BDefaboveskip
4666 \fboxsep3pt
4667 \flushleft}
4668 {\@endparpenalty\@M
4669 \topsepadd\BDefbelowskip
4670 \endflushleft}
4671
4672 \newenvironment{BCmd*}{
4673 \@beginparpenalty\@M
4674 \topsep\BDefinlineskip
4675 \fboxsep3pt
4676 \flushleft}
4677 {\@endparpenalty5000
4678 \endflushleft}
4679
4680 \newskip\BDefaboveskip
4681 \newskip\BDefbelowskip
4682 \newskip\BDefinlineskip
4683 \setlength\BDefaboveskip{10pt plus 4pt}
4684 \setlength\BDefbelowskip{6pt}
4685 \setlength\BDefinlineskip{6pt}
4686
4687 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}}\kern1pt}
4688 \def\OptArg{\@ifnextchar*\OptArg@i{\OptArg@ii*}}
4689 \def\OptArg@i*#1{\colorbox{black!20}{\texttt{#1}}}\kern1pt}
4690 \def\OptArg@ii*#1{\colorbox{black!20}{\texttt{[#1]}}}\kern1pt}

```

## 49 File bidiftnxtra.sty

```

4691 \NeedsTeXFormat{LaTeX2e}
4692 \ProvidesPackage{bidiftnxtra}
4693 \newtoks\bidip@ftn
4694 \let\FN@sff@footnote\footnote
4695 \let\FN@sff@LTRfootnote\LTRfootnote
4696 \let\FN@sff@RTLfootnote\RTLfootnote
4697 \def\footnote{\ifx\protect\@typeset@protect
4698 \expandafter\FN@sff@footnote
4699 \else
4700 \expandafter\FN@sff@gobble@opt
4701 \fi
4702 }
4703 \def\LTRfootnote{\ifx\protect\@typeset@protect
4704 \expandafter\FN@sff@LTRfootnote
4705 \else
4706 \expandafter\FN@sff@gobble@opt
4707 \fi
4708 }
4709 \def\RTLfootnote{\ifx\protect\@typeset@protect
4710 \expandafter\FN@sff@RTLfootnote
4711 \else
4712 \expandafter\FN@sff@gobble@opt
4713 \fi
4714 }
4715 \edef\FN@sff@gobble@opt{\noexpand\protect

```



```

4716 \expandafter\noexpand\csname FN@sfgobble@opt \endcsname}
4717 \expandafter\def\csname FN@sfgobble@opt \endcsname{%
4718 \@ifnextchar [%]
4719 \FN@sfgobble@twobrace
4720 \@gobble
4721 }
4722 \def\FN@sfgobble@twobrace[#1]#2{}
4723 \let\FN@sfgobble@footnotemark\footnotemark
4724 \def\footnotemark{\ifx\protect\@typeset@protect
4725 \expandafter\FN@sfgobble@footnotemark
4726 \else
4727 \expandafter\FN@sfgobble@optonly
4728 \fi
4729 }
4730 \edef\FN@sfgobble@optonly{\noexpand\protect
4731 \expandafter\noexpand\csname FN@sfgobble@optonly \endcsname}
4732 \expandafter\def\csname FN@sfgobble@optonly \endcsname{%
4733 \@ifnextchar [%]
4734 \FN@sfgobble@brace
4735 {}%
4736 }
4737 \def\FN@sfgobble@brace[#1]{}
4738 \def\@tabular{%
4739 \leavevmode \hbox \bgroup
4740 \let\@footnotetext\@bidi@p@ftntext
4741 \let\@LTRfootnotetext\@bidi@p@LTRftntext
4742 \let\@RTLfootnotetext\@bidi@p@RTLftntext
4743 \let\@xfootnotenext\@bidi@p@xftntext
4744 \let\@xfootnote\@bidi@p@xfootnote
4745 \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
4746 \let\@xLTRfootnote\@bidi@p@xLTRfootnote
4747 \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
4748 \let\@xRTLfootnote\@bidi@p@xRTLfootnote
4749 \if@RTLtab\beginR \fi
4750 $\let\@acol\@tabacol
4751 \let\@classz\@tabclassz
4752 \let\@classiv\@tabclassiv \let\\ \@tabularcr \@tabarray}
4753 \def\endtabular{\@crr\egroup\if@RTLtab\egroup\endR\egroup\fi
4754 \egroup $\if@RTLtab\endR\fi\egroup
4755 \ifx\@capytype\@undefined
4756 \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn\fi}
4757 \long\def\@bidi@p@ftntext#1{%
4758 \edef\@tempy{\the\@bidi@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}%
4759 \global\@bidi@p@ftn\expandafter{\@tempy{#1}}}%
4760 \long\def\@bidi@p@LTRftntext#1{%
4761 \edef\@tempyi{\the\@bidi@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}%
4762 \global\@bidi@p@ftn\expandafter{\@tempyi{#1}}}%
4763 \long\def\@bidi@p@RTLftntext#1{%
4764 \edef\@tempyii{\the\@bidi@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]}%
4765 \global\@bidi@p@ftn\expandafter{\@tempyii{#1}}}%
4766
4767
4768 \long\def\@bidi@p@xftntext[#1]#2{%
4769 \global\@bidi@p@ftn\expandafter{\the\@bidi@p@ftn\footnotetext[#1]{#2}}}

```





```

4770
4771 \long\def\bidi@p@xLTRftntext[#1]#2{%
4772   \global\bidi@p@ftn\expandafter{\the\bidi@p@ftn\LTRfootnotetext[#1]{#2}}}
4773
4774 \long\def\bidi@p@xRTLftntext[#1]#2{%
4775   \global\bidi@p@ftn\expandafter{\the\bidi@p@ftn\RTLfootnotetext[#1]{#2}}}
4776
4777
4778 \def\bidi@p@xfootnote[#1]{%
4779   \begingroup
4780     \csname c@%mpfn\endcsname #1\relax
4781     \unrestored@protected@xdef\@thefnmark{\thempfn}%
4782   \endgroup
4783   \@footnotemark\bidi@p@xftntext[#1]}
4784
4785
4786 \def\bidi@p@xLTRfootnote[#1]{%
4787   \begingroup
4788     \csname c@%mpfn\endcsname #1\relax
4789     \unrestored@protected@xdef\@thefnmark{\thempfn}%
4790   \endgroup
4791   \@footnotemark\bidi@p@xLTRftntext[#1]}
4792
4793
4794 \def\bidi@p@xRTLfootnote[#1]{%
4795   \begingroup
4796     \csname c@%mpfn\endcsname #1\relax
4797     \unrestored@protected@xdef\@thefnmark{\thempfn}%
4798   \endgroup
4799   \@footnotemark\bidi@p@xRTLftntext[#1]}
4800
4801 \def\@xfloat #1[#2]{%
4802   \@nodocument
4803   \def \@capttype {#1}%
4804   \def \@fps {#2}%
4805   \@onelevel@sanitize \@fps
4806   \def \reserved@b {!}%
4807   \ifx \reserved@b \@fps
4808     \@fpsadddefault
4809   \else
4810     \ifx \@fps \@empty
4811       \@fpsadddefault
4812     \fi
4813   \fi
4814   \ifhmode
4815     \@bsphack
4816     \@floatpenalty -\@Mii
4817   \else
4818     \@floatpenalty-\@Miii
4819   \fi
4820   \ifinner
4821     \@parmoderr\@floatpenalty\z@
4822   \else
4823     \@next\@currbox\@freelist

```



```

4824     {%
4825     \@tempcnta \sixt@@n
4826     \expandafter \@tfor \expandafter \reserved@a
4827     \expandafter : \expandafter = \@fps
4828     \do
4829     {%
4830     \if \reserved@a h%
4831     \ifodd \@tempcnta
4832     \else
4833     \advance \@tempcnta \@ne
4834     \fi
4835     \fi
4836     \if \reserved@a t%
4837     \@setfpsbit \tw@
4838     \fi
4839     \if \reserved@a b%
4840     \@setfpsbit 4%
4841     \fi
4842     \if \reserved@a p%
4843     \@setfpsbit 8%
4844     \fi
4845     \if \reserved@a !%
4846     \ifnum \@tempcnta>15
4847     \advance \@tempcnta -\sixt@@n\relax
4848     \fi
4849     \fi
4850     }%
4851     \@tempcntb \csname ftype@\@cuptype \endcsname
4852     \multiply \@tempcntb \@xxxii
4853     \advance \@tempcnta \@tempcntb
4854     \global \count\@currbox \@tempcnta
4855     }%
4856     \@fltovf
4857     \fi
4858     \global \setbox\@currbox
4859     \color@vbox
4860     \normalcolor
4861     \vbox \bgroup
4862     \let\@footnotetext\@bidi@p@ftntext
4863     \let\@LTRfootnotetext\@bidi@p@LTRftntext
4864     \let\@RTLfootnotetext\@bidi@p@RTLftntext
4865     \let\@xfootnotenext\@bidi@p@xftntext
4866     \let\@xfootnote\@bidi@p@xfootnote
4867     \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
4868     \let\@xLTRfootnote\@bidi@p@xLTRfootnote
4869     \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
4870     \let\@xRTLfootnote\@bidi@p@xRTLfootnote
4871     \hsize\columnwidth
4872     \@parboxrestore
4873     \@floatboxreset
4874 }
4875 \def \@endfloatbox{%
4876     \par\vskip\z@skip      %% \par\vskip\z@ added 15 Dec 87
4877     \@minipagefalse

```



```

4878     \outer@nobreak
4879     \egroup                %% end of vbox
4880     \global\bidip@p@ftn\expandafter{\expandafter}\the\bidip@p@ftn
4881     \color@endbox
4882 }

```

## 50 File bidimoderncv.cls

```

4883 \NeedsTeXFormat{LaTeX2e}
4884 \ProvidesClass{bidimoderncv}
4885 \newif\if@DEBUG\@DEBUGfalse
4886 \DeclareOption{a4paper}{
4887   \setlength\paperheight{297mm}
4888   \setlength\paperwidth{210mm}}
4889 \DeclareOption{a5paper}{
4890   \setlength\paperheight{210mm}
4891   \setlength\paperwidth{148mm}}
4892 \DeclareOption{b5paper}{
4893   \setlength\paperheight{250mm}
4894   \setlength\paperwidth{176mm}}
4895 \DeclareOption{letterpaper}{
4896   \setlength\paperheight{11in}
4897   \setlength\paperwidth{8.5in}}
4898 \DeclareOption{legalpaper}{
4899   \setlength\paperheight{14in}
4900   \setlength\paperwidth{8.5in}}
4901 \DeclareOption{executivepaper}{
4902   \setlength\paperheight{10.5in}
4903   \setlength\paperwidth{7.25in}}
4904 \DeclareOption{landscape}{
4905   \setlength\@tempdima{\paperheight}
4906   \setlength\paperheight{\paperwidth}
4907   \setlength\paperwidth{\@tempdima}}
4908 \newcommand\@ptsize{}
4909 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
4910 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
4911 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
4912 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
4913 \DeclareOption{final}{\setlength\overfullrule{0pt}}
4914 \newif\if@colour\@colourtrue
4915 \DeclareOption{nocolour}{\@colourfalse}
4916 \ExecuteOptions{a4paper,11pt,colour,final}
4917 \ProcessOptions\relax
4918 \input{size1\@ptsize.clo}
4919 \RequirePackage{color}
4920 \RequirePackage{graphicx}
4921 \RequirePackage{ifthen}
4922 \RequirePackage{marvosym}
4923 \addtolength{\oddsidemargin}{-54pt}
4924 \addtolength{\textwidth}{109pt}
4925 \addtolength{\topmargin}{-70pt}
4926 \addtolength{\textheight}{122pt}
4927 \addtolength{\marginparsep}{-5pt}
4928 \addtolength{\marginparwidth}{-10pt}

```



```

4929 \RequirePackage{url}
4930 \RequirePackage{hyperref}
4931 \hypersetup{%
4932   breaklinks,
4933   baseurl      = http://,%
4934   pdfborder    = 0 0 0,%
4935   pdfpagemode  = UseNone,%
4936   pdfstartpage = 1}
4937 \AtEndOfClass{%
4938   \AtBeginDocument{%
4939     \hypersetup{%
4940       pdfauthor    = \@firstname~\@familyname,%
4941       pdftitle     = \@title,%
4942       pdfsubject   = \@firstname~\@familyname,%
4943       pdfkeywords  = \@resumename~\@firstname~\@familyname}}}
4944 \urlstyle{tt}
4945 \RequirePackage{fancyhdr}
4946 \fancypagestyle{plain}{%
4947   \renewcommand{\headrulewidth}{0pt}
4948   \renewcommand{\footrulewidth}{0pt}
4949   \fancyhf{}}
4950 \pagestyle{plain}
4951 \setlength\lineskip{1\p@}
4952 \setlength\normallineskip{1\p@}
4953 \renewcommand\baselinestretch{}
4954 \setlength{\parindent}{0pt}
4955 \setlength{\parskip}{0pt}
4956 \setlength\columnsep{10\p@}
4957 \setlength\columnseprule{0\p@}
4958 \pagestyle{empty}
4959 \pagenumbering{arabic}
4960 \raggedbottom
4961 \onecolumn
4962 \providecommand*\listitemsymbol{\textbullet}
4963 \providecommand*\addresssymbol{}
4964 \providecommand*\mobilesymbol{\Mobilefone}
4965 \providecommand*\phonesymbol{\Telefon}
4966 \providecommand*\faxsymbol{\FAX}
4967 \providecommand*\emailsymbol{\Letter}
4968 \definecolor{firstnamedcolor}{rgb}{0,0,0}
4969 \def\firstnamedcolor#1{\gdef\@firstnamedcolor{\addfontfeature{Color=#1}}}
4970 \def\familynamedcolor#1{\gdef\@familynamedcolor{\addfontfeature{Color=#1}}}
4971 \def\titlecolor#1{\gdef\@titlecolor{\addfontfeature{Color=#1}}}
4972 \def\addresscolor#1{\gdef\@addresscolor{\addfontfeature{Color=#1}}}
4973 \def\quotecolor#1{\gdef\@quotecolor{\addfontfeature{Color=#1}}}
4974 \def\sectiontitlecolor#1{\gdef\@sectiontitlecolor{\addfontfeature{Color=#1}}}
4975 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
4976 \def\subsectioncolor#1{\gdef\@subsectioncolor{\addfontfeature{Color=#1}}}
4977 \def\hintcolor#1{\gdef\@hintcolor{\addfontfeature{Color=#1}}}
4978 \providecommand*\firstnamedfont{}
4979 \providecommand*\familynamedfont{}
4980 \providecommand*\titlefont{}
4981 \providecommand*\addressfont{}
4982 \providecommand*\quotefont{}

```



```

4983 \providecommand*{\sectionfont}{}
4984 \providecommand*{\subsectionfont}{}
4985 \providecommand*{\hintfont}{\small}
4986 \providecommand*{\firstnamestyle}[1]{\{\{\firstnamefont\@firstnamecolour#1\}}
4987 \providecommand*{\familynamestyle}[1]{\{\{\familynamefont\@familynamecolour#1\}}
4988 \providecommand*{\titlestyle}[1]{\{\{\titlefont\@titlecolour#1\}}
4989 \providecommand*{\addresstyle}[1]{\{\{\addressfont\@addresscolour#1\}}
4990 \providecommand*{\quotestyle}[1]{\{\{\quote\font\@quotecolour#1\}}
4991 \providecommand*{\sectionstyle}[1]{\{\{\sectionfont\@sectiontitlecolour#1\}}
4992 \providecommand*{\subsectionstyle}[1]{\{\{\subsectionfont\@subsectioncolour#1\}}
4993 \providecommand*{\hintstyle}[1]{\{\{\hintfont\@hintcolour#1\}}
4994 \newcommand*{\cvtheme}[2][]{
4995   \def\@cvtheme{#2}
4996   \def\@cvthemeoptions{#1}}
4997 \cvtheme{bidi-casual}
4998 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
4999 \newcommand*{\resumename}[1]{\def\@resumename{#1}}
5000 \newcommand*{\firstname}[1]{\def\@firstname{#1}}
5001 \newcommand*{\familyname}[1]{\def\@familyname{#1}}
5002 \renewcommand*{\title}[1]{\def\@title{#1}}
5003 \newcommand*{\address}[1]{\def\@address{#1}}
5004 \newcommand*{\mobile}[1]{\def\@mobile{#1}}
5005 \newcommand*{\phone}[1]{\def\@phone{#1}}
5006 \renewcommand*{\fax}[1]{\def\@fax{#1}}
5007 \newcommand*{\email}[1]{\def\@email{#1}}
5008 \newcommand*{\extrainfo}[1]{\def\@extrainfo{#1}}
5009 \def\@photowidth{0pt}
5010 \newcommand*{\photo}[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
5011 \newcommand*{\quote}[1]{\def\@quote{#1}}
5012 \newlength{\quotewidth}
5013 \newlength{\hintscolumnwidth}
5014 \newlength{\separatorcolumnwidth}
5015 \setlength{\separatorcolumnwidth}{0.025\textwidth}
5016 \newlength{\maincolumnwidth}
5017 \newlength{\doubleitemmaincolumnwidth}
5018 \newlength{\listitemsymbolwidth}
5019 \settowidth{\listitemsymbolwidth}{\listitemsymbol{}}
5020 \newlength{\listitemmaincolumnwidth}
5021 \newlength{\listdoubleitemmaincolumnwidth}
5022 \newcommand*{\recomputethemelengths}{}
5023 \newcommand*{\recomputelengths}{%
5024 \setlength{\quotewidth}{0.65\textwidth}%
5025 \setlength{\maincolumnwidth}{\textwidth}%
5026 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
5027 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
5028 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
5029 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
5030 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
5031 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
5032 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
5033 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
5034 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
5035 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
5036 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%

```



```

5037 \renewcommand{\headwidth}{\textwidth}%
5038 \recomputethemelengths}
5039 \setlength{\hintscolumnwidth}{0.15\textwidth}
5040 \recomputelengths
5041 \title{}
5042 \renewcommand*{\maketitle}{}
5043 \newcommand*{\section}[1]{%
5044 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
5045 \phantomsection}%
5046 \addcontentsline{toc}{part}{#1}%
5047 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}
5048 \hspace{\separatorcolumnwidth}%
5049 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\[\[1ex]}
5050 \newcommand*{\subsection}[1]{%
5051 \cvline[0.45em]{\subsectionstyle{#1}}
5052 \newcommand*{\cvline}[3][.25em]{%
5053 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}
5054 \bidi@raggedleft\hintfont{#2} &{#3}%
5055 \end{tabular}\[\[1]}
5056 \newcommand*{\cvdoubleitem}[4]{%
5057 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
5058 \hfill%
5059 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{
5060 \newcommand*{\cvlistitem}[2][\listitemsymbol{}]{%
5061 \cvline[0pt]{\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}
5062 \newcommand*{\cvlistdoubleitem}[3][\listitemsymbol{}]{%
5063 \cvline[0pt]{\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
5064 \hfill%
5065 \ifthenelse{\equal{#3}{}}%
5066 {}%
5067 {#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}}
5068 \newcommand*{\cventry}[6]{%
5069 \cvline{#1}{%
5070 {\bfseries#2}%
5071 \ifx#3\else{, {\slshape#3}}\fi%
5072 \ifx#4\else{, #4}\fi%
5073 \ifx#5\else{, #5}\fi%
5074 .%
5075 \ifx#6\else{\newline{}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
5076 }%
5077 \newcommand*{\cvlanguage}[3]{%
5078 \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{
5079 \newcommand*{\cvcomputer}[4]{%
5080 \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
5081 \newcommand*{\link}[2][{}]{%
5082 \ifthenelse{\equal{#1}{}}%
5083 {\href{#2}{#2}}%
5084 {\href{#2}{#1}}}
5085 \newcommand*{\httplink}[2][{}]{%
5086 \ifthenelse{\equal{#1}{}}%
5087 {\href{http://#2}{#2}}%
5088 {\href{http://#2}{#1}}}
5089 \newcommand*{\emailink}[2][{}]{%
5090 \ifthenelse{\equal{#1}{}}%

```



```

5091     {\href{mailto:#2}{#2}}%
5092     {\href{mailto:#2}{#1}}}%
5093 \newif\if@displaypagenumbers\@displaypagenumberstrue
5094 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
5095 \AtBeginDocument{%
5096   \if@displaypagenumbers%
5097     \@ifundefined{r@lastpage}{}{%
5098       \ifthenelse{\pageref{lastpage} > 1}{%
5099         \fancypagestyle{plain}{%
5100           \fancyfoot[r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL/\endL\pa
5101             \pagestyle{plain}}}%}%
5102   \AtEndDocument{\label{lastpage}}%
5103   \fi}
5104 \newlength{\bibindent}
5105 \setlength{\bibindent}{1.5em}
5106 \newcommand*{\bibliographyitemlabel}{\includegraphics{bidi-bibitem.pdf}}
5107 \newenvironment{thebibliography}[1]{%
5108   {%
5109     \section{\refname}%
5110     \small%
5111     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
5112     \bidi@thebibliography@font@hook%
5113     \begin{list}{\bibliographyitemlabel}%
5114       {%
5115         \setlength{\topsep}{0pt}%
5116         \setlength{\labelwidth}{\hintscolumnwidth}%
5117         \setlength{\labelsep}{\separatorcolumnwidth}%
5118         \leftmargin\labelwidth%
5119         \advance\leftmargin\labelsep%
5120         \@openbib@code%
5121         \usecounter{enumiv}%
5122         \let\p@enumiv\@empty%
5123         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
5124         \sloppy\clubpenalty4000\widowpenalty4000%
5125       }%
5126     {%
5127       \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
5128       \end{list}%
5129     }
5130 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
5131 \let\@openbib@code\@empty

```

## 51 File bidi-perpage.sty

```

5132 \NeedsTeXFormat{LaTeX2e}
5133 \ProvidesPackage{bidi-perpage}[2018/10/04 v0.4 Reset counter(s) on every page]
5134 \newcount\bidi@page@count
5135 \bidi@page@count\@one
5136 \newcommand*{\ResetCounterPerPage}[2][\z@]{%
5137   \if@bidi@csundef\bidi@stepcounterhook@#2}{%
5138     \expandafter\gdef\csname bidi@stepcounterhook@#2\endcsname{}%
5139   }{}%
5140   \if@bidi@csundef\if@bidi@reset@#2@rerun}{%
5141     \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname

```



```

5142 }{}%
5143 \if@bidi@csundef{bidi@#2@count}{%
5144   \expandafter\newcount\csname bidi@#2@count\endcsname
5145 }{}%
5146 \csname bidi@#2@count\endcsname\z@
5147 \if@bidi@csundef{bidi@previous@page@@#2@count}{%
5148   \expandafter\newcount\csname
5149     bidi@previous@page@@#2@count\endcsname
5150 }{}%
5151 \csname bidi@previous@page@@#2@count\endcsname\z@
5152 \if@bidi@csundef{bidi@reset@#2@perpage}{%
5153   \bidi@AfterEndDocumentCheckLabelsRerun{%
5154     \csname if@bidi@reset@#2@rerun\endcsname
5155     \PackageWarningNoLine{bidi-perpage}{%
5156       Counter `#2' may not have been reset per page.
5157       Rerun to reset counter `#2' per page%
5158     }%
5159   \fi
5160 }%
5161 }{}%
5162 \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
5163   \global\advance\csname bidi@#2@count\endcsname\@ne
5164   \if@filesw
5165     \edef\@tempa{%
5166       \write\@auxout{%
5167         \string\bidi@counter@page{#2}%
5168         {\number\csname bidi@#2@count\endcsname}%
5169         {\noexpand\number\noexpand\bidi@page@count}%
5170       }%
5171     }%
5172     \@tempa
5173   \fi
5174   \begingroup\expandafter\expandafter\expandafter\endgroup
5175   \expandafter\ifx\csname bidi@#2@@\number\csname
5176     bidi@#2@count\endcsname\endcsname\relax
5177     \global\csname @bidi@reset@#2@reruntrue\endcsname
5178   \else
5179     \global\csname @bidi@reset@#2@rerunfalse\endcsname
5180     \expandafter\@tempcnta\csname bidi@#2@@\number
5181     \csname bidi@#2@count\endcsname\endcsname\relax
5182     \ifnum\@tempcnta=\csname
5183       bidi@previous@page@@#2@count\endcsname
5184     \else
5185       \global\csname
5186         bidi@previous@page@@#2@count\endcsname\@tempcnta
5187       \global\csname c@#2\endcsname#1\relax
5188     \fi
5189   \fi
5190 }%
5191 \expandafter\bidi@gappto\csname
5192 bidi@stepcounterhook@@#2\endcsname{%
5193   \csname bidi@reset@#2@perpage\endcsname
5194 }%
5195 }

```





```

5196 \def\bidicounter@page#1#2#3{\bidinamegdef{bidi@#1@#2}{#3}}
5197 \bidi@AtEndOutputPage{%
5198   \global\advance\bidi@page@count\@ne
5199 }

```

## 52 File biditools.sty

```

5200 \NeedsTeXFormat{LaTeX2e}
5201 \ProvidesPackage{biditools}[2024/12/07 v2.4 Programming tools for bidi package]
5202 \providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\relax
5203   \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
5204   \ifx\@tempa\@tempb \global\let#2#1%
5205   \else
5206     \edef\@tempb{\meaning#2}%
5207     \ifx\@tempa\@tempb
5208     \else
5209       \latexerror{Unable to properly define \string#2; primitive
5210         \noexpand#1no longer primitive}\@eha
5211     \fi
5212   \fi
5213 \endgroup}
5214 \newtoks\@bidi@envbody
5215 \newtoks\@bidi@emptytoks
5216 \def\bidi@addto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5217 \def\bidi@collect@body#1{%
5218   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5219   \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currenvir}}%
5220   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5221   \begingroup
5222   \expandafter\let\csname\@currenvir\endcsname\bidi@collect@@body
5223   \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currenvir\endcsname}%
5224   \bidi@process@envbody
5225 }
5226 \def\bidi@push@begins#1\begin#2{%
5227   \ifx\end#2\else b\expandafter\bidi@push@begins\fi
5228 }
5229 \def\bidi@collect@@body#1\end#2{%
5230   \edef\begin@bidi@stack{\bidi@push@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
5231   \ifx\@empty\begin@bidi@stack
5232     \endgroup
5233     \@checkend{#2}%
5234     \bidi@addto@envbody{#1}%
5235   \else
5236     \bidi@addto@envbody{#1\end{#2}}%
5237   \fi
5238   \bidi@process@envbody % A little tricky! Note the grouping
5239 }
5240 \long\def\bidi@addto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5241 \long\def\bidi@collect@long@body#1{%
5242   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5243   \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currenvir}}%
5244   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5245   \begingroup
5246   \expandafter\let\csname\@currenvir\endcsname\bidi@collect@long@@body

```



```

5247 \edef\ bidi@process@envbody{\expandafter\ noexpand\ csname\@currentenv\endcsname}%
5248 \bidi@process@envbody
5249 }
5250 \long\def\ bidi@push@long@begins#1\begin#2{%
5251 \ifx\end#2\else b\expandafter\ bidi@push@long@begins\fi
5252 }
5253 \long\def\ bidi@collect@long@@body#1\end#2{%
5254 \edef\begin@bidi@stack{\bidi@push@long@begins#1\begin\end \expandafter\@gobble\begin@bidi
5255 \ifx\@empty\begin@bidi@stack
5256 \endgroup
5257 \@checkend{#2}%
5258 \bidi@addto@long@envbody{#1}%
5259 \else
5260 \bidi@addto@long@envbody{#1\end{#2}}%
5261 \fi
5262 \bidi@process@envbody % A little tricky! Note the grouping
5263 }
5264 \long\def\ bidi@new@ifnextchar#1#2#3{%
5265 \let\reserved@d= #1%
5266 \def\reserved@a{#2}\def\reserved@b{#3}%
5267 \futurelet\@let@token\ bidi@new@ifnch
5268 }
5269 \def\ bidi@new@ifnch{%
5270 \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
5271 \reserved@b
5272 }
5273 \def\ bidi@matrix@check#1{%
5274 \expandafter\ifx\csname\@currentenv\endcsname#1%
5275 \else\ bidi@matrix@error#1%
5276 \expandafter\@gobble
5277 \fi
5278 }
5279 \def\ bidi@matrix@error#1{%
5280 \PackageError{biditools}{%
5281 Old form ``\string#1' should be \string\begin{\expandafter\@gobble\string#1}%
5282 }{%
5283 ``\string#1{...}' is old bidi package syntax whose use is
5284 ill-advised in the old versions of bidi package.%
5285 }%
5286 }
5287 \def\@tagsextension{clo}
5288 \def\@definitionfileextension{def}
5289 \def\@texfileextension{tex}
5290 \def\@iftagsloaded{\@ifl@aded\@tagsextension}
5291 \def\@ifdefinitionfileloaded{\@ifl@aded\@definitionfileextension}
5292 \def\@iftexfileloaded{\@ifl@aded\@texfileextension}
5293 \def\eqnewif#1#2{%
5294 \count@ \escapechar \escapechar \m@ne
5295 \let#1\iffalse
5296 \let#2\iffalse
5297 \eq@if#1#2\iftrue
5298 \eq@if#1#2\iffalse
5299 \escapechar \count@}
5300 \def\eq@if#1#2#3{%

```



```

5301 \expandafter\def\csname\expandafter\@gobbletwo\string#1%
5302 \expandafter\@gobbletwo\string#3\endcsname
5303 {\let#1#3%
5304 \let#2#3}%
5305 \expandafter\def\csname\expandafter\@gobbletwo\string#2%
5306 \expandafter\@gobbletwo\string#3\endcsname
5307 {\let#2#3%
5308 \let#1#3}}
5309 \def\noteqnewif#1#2{%
5310 \count@\escapechar \escapechar\m@ne
5311 \let#1\iffalse
5312 \let#2\iffalse
5313 \not@eq@if#1#2\iftrue\iffalse
5314 \escapechar\count@}
5315 \def\not@eq@if#1#2#3#4{%
5316 \expandafter\def\csname\expandafter\@gobbletwo\string#1%
5317 \expandafter\@gobbletwo\string#3\endcsname
5318 {\let#1#3%
5319 \let#2#4}%
5320 \expandafter\def\csname\expandafter\@gobbletwo\string#1%
5321 \expandafter\@gobbletwo\string#4\endcsname
5322 {\let#1#4%
5323 \let#2#3}%
5324 \expandafter\def\csname\expandafter\@gobbletwo\string#2%
5325 \expandafter\@gobbletwo\string#3\endcsname
5326 {\let#2#3%
5327 \let#1#4}%
5328 \expandafter\def\csname\expandafter\@gobbletwo\string#2%
5329 \expandafter\@gobbletwo\string#4\endcsname
5330 {\let#2#4%
5331 \let#1#3}}
5332 \newcommand*\SetBoolean}[2]{%
5333 \lowercase{\def\@tempa{#2}}%
5334 \@ifundefined{@tempwa\@tempa}%
5335 {\PackageError{biditools}%
5336 {You can only set a boolean to `true' or `false'}\@ehc}%
5337 {\@ifundefined{#1\@tempa}%
5338 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5339 {\csname#1\@tempa\endcsname}}}
5340 \newcommand*\GlobalSetBoolean}[2]{%
5341 \lowercase{\def\@tempa{#2}}%
5342 \@ifundefined{@tempwa\@tempa}%
5343 {\PackageError{biditools}%
5344 {You can only set a boolean to `true' or `false'}\@ehc}%
5345 {\@ifundefined{#1\@tempa}%
5346 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5347 {\global\csname#1\@tempa\endcsname}}}
5348 \newcommand*\SetatBoolean}[2]{%
5349 \lowercase{\def\@tempa{#2}}%
5350 \@ifundefined{@tempwa\@tempa}%
5351 {\PackageError{biditools}%
5352 {You can only set a boolean to `true' or `false'}\@ehc}%
5353 {\@ifundefined{@#1\@tempa}%
5354 {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%

```



```

5355     {\csname @#1\@tempa\endcsname}}
5356 \newcommand*{\GlobalSetatBoolean}[2]{%
5357   \lowercase{\def\@tempa{#2}}%
5358   \@ifundefined{@tempwa\@tempa}%
5359     {\PackageError{biditools}%
5360      {You can only set a boolean to `true' or `false'}\@ehc}%
5361   {\@ifundefined{@#1\@tempa}%
5362    {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5363    {\global\csname @#1\@tempa\endcsname}}}
5364 \def\@bidi@removefromreset#1#2{%
5365   \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
5366   \def\@elt##1{%
5367     \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
5368     \else
5369       \noexpand\@elt{##1}%
5370     \fi}%
5371   \expandafter\xdef\csname cl@#2\endcsname{%
5372     \csname cl@#2\endcsname}}
5373 \newcommand*{\ifRtoL}{%
5374   \if@RTL
5375     \expandafter\@firstoftwo
5376   \else
5377     \expandafter\@secondoftwo
5378   \fi}
5379 \newcommand*{\ifLtoR}{%
5380   \if@RTL
5381     \expandafter\@secondoftwo
5382   \else
5383     \expandafter\@firstoftwo
5384   \fi}
5385 \newcommand*{\ifRtoLtable}{%
5386   \if@RTLtab
5387     \expandafter\@firstoftwo
5388   \else
5389     \expandafter\@secondoftwo
5390   \fi}
5391 \newcommand*{\ifLtoRtable}{%
5392   \if@RTLtab
5393     \expandafter\@secondoftwo
5394   \else
5395     \expandafter\@firstoftwo
5396   \fi}
5397 \newcommand*{\ifRtoLhboxconstruct}{%
5398   \if@hboxRconstruct
5399     \expandafter\@firstoftwo
5400   \else
5401     \expandafter\@secondoftwo
5402   \fi}
5403 \newcommand*{\ifLtoRhboxconstruct}{%
5404   \if@hboxRconstruct
5405     \expandafter\@secondoftwo
5406   \else
5407     \expandafter\@firstoftwo
5408   \fi}

```



```

5409 \newcommand*{\iflatin}{%
5410   \if@nonlatin
5411     \expandafter\@secondoftwo
5412   \else
5413     \expandafter\@firstoftwo
5414   \fi}
5415 \newcommand*{\ifnonlatin}{%
5416   \if@nonlatin
5417     \expandafter\@firstoftwo
5418   \else
5419     \expandafter\@secondoftwo
5420   \fi}
5421
5422 \newcommand*{\bidi@convert@dimen@t@unit}[2]{%
5423   \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
5424
5425 \newcommand*{\bidi@convert@dimen@t@pt}[1]{%
5426   \dimexpr #1*65536/\dimexpr 1pt\relax}
5427
5428 \newcommand*{\if@bidi@csdef}[1]{%
5429   \ifcsname#1\endcsname
5430     \expandafter\@firstoftwo
5431   \else
5432     \expandafter\@secondoftwo
5433   \fi}
5434 \newcommand*{\if@bidi@csundef}[1]{%
5435   \ifcsname#1\endcsname
5436     \expandafter\ifx\csname#1\endcsname\relax
5437       \expandafter\expandafter
5438       \expandafter\@firstoftwo
5439     \else
5440       \expandafter\expandafter
5441       \expandafter\@secondoftwo
5442     \fi
5443   \else
5444     \expandafter\@firstoftwo
5445   \fi}
5446 \newcommand{\if@bidi@def}[1]{%
5447   \ifdefined#1%
5448     \expandafter\@firstoftwo
5449   \else
5450     \expandafter\@secondoftwo
5451   \fi}
5452 \newcommand{\if@bidi@undef}[1]{%
5453   \ifdefined#1%
5454     \ifx#1\relax
5455       \expandafter\expandafter
5456       \expandafter\@firstoftwo
5457     \else
5458       \expandafter\expandafter
5459       \expandafter\@secondoftwo
5460     \fi
5461   \else
5462     \expandafter\@firstoftwo

```



```

5463 \fi}
5464 \newcommand{\if@bidi@blank}[1]{% from url.sty
5465 \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
5466 \long\def\bidi@ifblank@i#1#2&#3#4#5:{#4}
5467 \newcommand{\bidi@notblank}[1]{%
5468 \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
5469 \newcommand{\if@bidi@defmacro}{%
5470 \long\edef\if@bidi@defmacro#1{%
5471 \noexpand\expandafter\noexpand\bidi@ifdefmacro
5472 \noexpand\meaning#1\detokenize{macro}:&}
5473 \edef\bidi@ifdefmacro{%
5474 \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&}
5475 \bidi@ifdefmacro{\bidi@notblank{#2}}
5476 \newcommand*{\if@bidi@csmacro}[1]{%
5477 \if@bidi@csdef{#1}
5478 {\expandafter\if@bidi@defmacro\csname#1\endcsname}
5479 {\@secondoftwo}}
5480 \newcommand{\if@bidi@defprimitive}[1]{%
5481 \ifprimitive#1%
5482 \expandafter\@firstoftwo
5483 \else
5484 \expandafter\@secondoftwo
5485 \fi}
5486 \newcommand{\if@bidi@csprimitive}[1]{%
5487 \begingroup\expandafter\expandafter\expandafter\endgroup%
5488 \expandafter\ifprimitive\csname#1\endcsname%
5489 \expandafter\@firstoftwo
5490 \else
5491 \expandafter\@secondoftwo
5492 \fi}
5493 \newcommand*{\bidi@csdefcs}[2]{%
5494 \expandafter\@ifdefinable \csname#1\endcsname{%
5495 \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}
5496 \newcommand*{\bidi@csletcs}[2]{%
5497 \expandafter\@ifdefinable \csname#1\endcsname{%
5498 \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}}
5499 \newcommand*{\bidi@cslet}[2]{%
5500 \expandafter\@ifdefinable \csname#1\endcsname{%
5501 \expandafter\let\csname#1\endcsname#2}}
5502 \newcommand{\bidi@namelongdef}[1]{%
5503 \long\expandafter\def\csname #1\endcsname}
5504 \newcommand{\bidi@namelonggdef}[1]{%
5505 \long\expandafter\gdef\csname #1\endcsname}
5506 \newcommand{\bidi@namelongedef}[1]{%
5507 \long\expandafter\edef\csname #1\endcsname}
5508 \newcommand{\bidi@namelongxdef}[1]{%
5509 \long\expandafter\xdef\csname #1\endcsname}
5510 \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
5511 \def\bidi@ensure@new@command#1{%
5512 \begingroup \escapechar\m@ne\xdef\@gtempa{\string#1}\endgroup
5513 \expandafter\if@bidi@csundef\@gtempa
5514 {\new@command#1}{\relax%
5515 \let\@ifdefinable\@rc@ifdefinable%
5516 \new@command#1}}

```



```

5517 \def\bid@ensure@newlength#1{\if@bid@undef#1{\newskip#1}{}}
5518
5519 \protected\def\bid@error{\PackageError{bid}}
5520 \protected\def\bid@warning{\PackageWarning{bid}}
5521 \protected\def\bid@warningnoline{\PackageWarningNoLine{bid}}
5522 \protected\def\bid@info{\PackageInfo{bid}}
5523
5524 \def\bid@pos#1#2#3#4{\bid@namegdef\bid@#1pos@@#2@#3}{#4}}
5525
5526 \newcount\bid@poscount
5527
5528 \newcommand*{\WriteStartXPostoaux}{%
5529   \global\advance\bid@poscount\@ne
5530   \edef\@tempa{%
5531     \write\@auxout{%
5532       \string\bid@pos{x}{start}{\number\bid@poscount}{\noexpand\number\noexpand\pdflast
5533     }%
5534   }%
5535   \ifvmode
5536     \leavevmode
5537   \fi
5538   \if@RTL
5539     \if@filesw
5540       \@tempa
5541     \fi
5542   \pdfsavepos
5543   \else
5544     \pdfsavepos
5545     \if@filesw
5546       \@tempa
5547     \fi
5548   \fi
5549   \if@bid@csundef\bid@xpos@@start@\number\bid@poscount}{%
5550     \PackageWarningNoLine{biditools}{%
5551       The start x position '\number\bid@poscount' is not known yet.
5552       Rerun to get this x position%
5553     }%
5554   }{}%
5555 }
5556
5557 \newcommand*{\WriteEndXPostoaux}{%
5558   \edef\@tempa{%
5559     \write\@auxout{%
5560       \string\bid@pos{x}{end}{\number\bid@poscount}{\noexpand\number\noexpand\pdflast
5561     }%
5562   }%
5563   \if@RTL
5564     \if@filesw
5565       \@tempa
5566     \fi
5567   \pdfsavepos
5568   \else
5569     \pdfsavepos
5570   \if@filesw

```



```

5571 \tempa
5572 \fi
5573 \fi
5574 \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{%
5575     \PackageWarningNoLine{biditools}{%
5576         The end x position `\'number\bidi@poscount' is not known yet.
5577         Rerun to get this x position%
5578     }%
5579 }{}%
5580 }
5581
5582 \newcommand*{\WriteStartYPostoaux}{%
5583     \global\advance\bidi@poscount\@ne
5584     \edef\@tempa{%
5585         \write\@auxout{%
5586             \string\bidi@pos{y}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflast
5587         }%
5588     }%
5589     \ifvmode
5590         \leavevmode
5591     \fi
5592     \if@RTL
5593         \if@filesw
5594             \tempa
5595         \fi
5596     \pdfsavepos
5597     \else
5598     \pdfsavepos
5599     \if@filesw
5600         \tempa
5601     \fi
5602     \fi
5603     \if@bidi@csundef{bidi@ypos@@start@\number\bidi@poscount}{%
5604         \PackageWarningNoLine{biditools}{%
5605             The start y position `\'number\bidi@poscount' is not known yet.
5606             Rerun to get this y position%
5607         }%
5608     }{}%
5609 }
5610
5611 \newcommand*{\WriteEndYPostoaux}{%
5612     \edef\@tempa{%
5613         \write\@auxout{%
5614             \string\bidi@pos{y}{end}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflast
5615         }%
5616     }%
5617     \if@RTL
5618         \if@filesw
5619             \tempa
5620         \fi
5621     \pdfsavepos
5622     \else
5623     \pdfsavepos
5624     \if@filesw

```





```

5625 \@tempa
5626 \fi
5627 \fi
5628 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{%
5629 \PackageWarningNoLine{biditools}{%
5630 The end y position `\'number\bidi@poscount' is not known yet.
5631 Rerun to get this y position%
5632 }%
5633 }{}%
5634 }
5635
5636 \newcommand*{\WriteStartXYPostoaux}{%
5637 \global\advance\bidi@poscount\@ne
5638 \edef\@tempa{%
5639 \write\@auxout{%
5640 \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflast
5641 }%
5642 \write\@auxout{%
5643 \string\bidi@pos{y}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflast
5644 }%
5645 }%
5646 \ifvmode
5647 \leavevmode
5648 \fi
5649 \if@RTL
5650 \if@filesw
5651 \@tempa
5652 \fi
5653 \pdfsavepos
5654 \else
5655 \pdfsavepos
5656 \if@filesw
5657 \@tempa
5658 \fi
5659 \fi
5660 \if@bidi@csundef{bidi@xpos@@start@\number\bidi@poscount}{%
5661 \PackageWarningNoLine{biditools}{%
5662 The start x position `\'number\bidi@poscount' is not known yet.
5663 Rerun to get this x position%
5664 }%
5665 }{}%
5666 \if@bidi@csundef{bidi@ypos@@start@\number\bidi@poscount}{%
5667 \PackageWarningNoLine{biditools}{%
5668 The start y position `\'number\bidi@poscount' is not known yet.
5669 Rerun to get this y position%
5670 }%
5671 }{}%
5672 }
5673
5674 \newcommand*{\WriteEndXYPostoaux}{%
5675 \edef\@tempa{%
5676 \write\@auxout{%
5677 \string\bidi@pos{x}{end}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflast
5678 }%

```



```

5679         \write\@auxout{%
5680             \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflast
5681         }%
5682     }%
5683 \if@RTL
5684     \if@filesw
5685         \@tempa
5686     \fi
5687 \pdfsavepos
5688 \else
5689 \pdfsavepos
5690 \if@filesw
5691     \@tempa
5692 \fi
5693 \fi
5694 \if@bidi@csundef{bidi@xpos@@end@\number\bidiposcount}{%
5695     \PackageWarningNoLine{biditools}{%
5696         The end x position '\number\bidiposcount' is not known yet.
5697         Rerun to get this x position%
5698     }%
5699 }{}%
5700 \if@bidi@csundef{bidi@ypos@@end@\number\bidiposcount}{%
5701     \PackageWarningNoLine{biditools}{%
5702         The end y position '\number\bidiposcount' is not known yet.
5703         Rerun to get this y position%
5704     }%
5705 }{}%
5706 }
5707
5708 \newcommand*{\currentposxwidth}{%
5709     \if@bidi@csundef{bidi@xpos@@end@\number\bidiposcount}{\z@}
5710     {%
5711         \ifnum\csname bidi@xpos@@start@\number\bidiposcount
5712         \endcsname < \csname bidi@xpos@@end@\number\bidiposcount
5713         \endcsname
5714         \dimexpr \csname bidi@xpos@@end@\number\bidiposcount
5715         \endcsname sp - \csname bidi@xpos@@start@\number\bidiposcount
5716         \endcsname sp\relax
5717     \else
5718         \dimexpr \csname bidi@xpos@@start@\number\bidiposcount
5719         \endcsname sp - \csname bidi@xpos@@end@\number\bidiposcount
5720         \endcsname sp\relax
5721     \fi
5722     }%
5723 }
5724
5725 \newcommand*{\currentposyheight}{%
5726     \if@bidi@csundef{bidi@ypos@@end@\number\bidiposcount}{\z@}
5727     {%
5728         \dimexpr \csname bidi@ypos@@start@\number\bidiposcount
5729         \endcsname sp - \csname bidi@ypos@@end@\number\bidiposcount
5730         \endcsname sp\relax
5731     }%
5732 }

```



```

5733
5734
5735
5736 \newcommand*{\setbaselineskip}[1]{%
5737     \linespread{\strip@pt\dimexpr\numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax}
5738     \selectfont
5739 }
5740
5741
5742 \newcommand*{\bidi@newrobustcmd}{}
5743 \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
5744
5745 \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}
5746
5747 \def\bidi@newcommand#1[#2]{%
5748     \@ifnextchar[%]
5749     {\bidi@xargdef#1[#2]}
5750     {\ifx\l@ngrel@x\relax
5751         \let\l@ngrel@x\protected
5752         \else
5753             \protected\def\l@ngrel@x{\protected\long}%
5754             \fi
5755         \@argdef#1[#2]}}
5756
5757 \long\def\bidi@xargdef#1[#2][#3]#4{%
5758     \@ifdefinable#1{%
5759         \expandafter\protected
5760         \expandafter\def
5761         \expandafter#1%
5762         \expandafter{%
5763             \expandafter\@testopt
5764             \csname\string#1\endcsname{#3}}%
5765         \expandafter\@yargdef\csname\string#1\endcsname\tw{#2}{#4}}}
5766
5767 \bidi@newrobustcmd*{\bidi@renewrobustcmd}{\@star@or@long\bidi@renew@command}
5768
5769 \def\bidi@renew@command#1{%
5770     \if@bidi@undef{#1}
5771         {\bidi@error{\string#1 undefined}\@ehc}
5772         {}%
5773     \let\@ifdefinable\@rc@ifdefinable
5774     \bidi@new@command#1}
5775
5776
5777
5778 \bidi@newrobustcmd*{\bidi@providerobustcmd}{\@star@or@long\bidi@provide@command}
5779
5780 \def\bidi@provide@command#1{%
5781     \if@bidi@undef{#1}
5782         {\def\reserved@a{\bidi@new@command#1}}
5783         {\def\reserved@a{\bidi@renew@command\reserved@a}}%
5784     \reserved@a}
5785
5786 \newcommand*{\bidi@csuse}[1]{%

```



```

5787 \ifcsname#1\endcsname
5788 \csname#1\expandafter\endcsname
5789 \fi}
5790
5791 \newcommand{\bidi@expandonce}[1]{%
5792 \unexpanded\expandafter{#1}}
5793
5794 \def\bidi@protected{%
5795 \let\@protect\protect
5796 \let\protect\@unexpandable@protect
5797 \afterassignment\restore@protect}
5798
5799 \bidi@newrobustcmd{\bidi@appto}[2]{%
5800 \if@bidi@undef{#1}
5801 {\edef#1{\unexpanded{#2}}}
5802 {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5803 \bidi@newrobustcmd{\bidi@eappto}[2]{%
5804 \if@bidi@undef{#1}
5805 {\edef#1{#2}}
5806 {\edef#1{\bidi@expandonce#1#2}}}
5807 \bidi@newrobustcmd{\bidi@gappto}[2]{%
5808 \if@bidi@undef{#1}
5809 {\xdef#1{\unexpanded{#2}}}
5810 {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5811 \bidi@newrobustcmd{\bidi@xappto}[2]{%
5812 \if@bidi@undef{#1}
5813 {\xdef#1{#2}}
5814 {\xdef#1{\bidi@expandonce#1#2}}}
5815
5816 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
5817 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
5818
5819
5820
5821 \bidi@newrobustcmd{\bidi@preto}[2]{%
5822 \if@bidi@undef{#1}
5823 {\edef#1{\unexpanded{#2}}}
5824 {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}}
5825 \bidi@newrobustcmd{\bidi@epreto}[2]{%
5826 \if@bidi@undef{#1}
5827 {\edef#1{#2}}
5828 {\edef#1{#2\bidi@expandonce#1}}}
5829 \bidi@newrobustcmd{\bidi@gpreto}[2]{%
5830 \if@bidi@undef{#1}
5831 {\xdef#1{\unexpanded{#2}}}
5832 {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}}
5833 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
5834 \if@bidi@undef{#1}
5835 {\xdef#1{#2}}
5836 {\xdef#1{#2\bidi@expandonce#1}}}
5837
5838 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
5839 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
5840

```



```

5841
5842
5843 \bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
5844 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
5845 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
5846 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
5847 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
5848 \bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}
5849
5850
5851
5852 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
5853 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}
5854 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}
5855 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
5856 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
5857 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
5858
5859
5860
5861 \bidi@newrobustcmd{\if@bidi@patchable}{%
5862   \bidi@dbg@trce\if@bidi@patchable
5863   \begingroup
5864   \@makeother\#%
5865   \ifstar\bidi@ifpatchable@i\bidi@ifpatchable}
5866
5867 \long\def\bidi@ifpatchable#1#2{%
5868   \endgroup
5869   \bidi@dbg@init#1%
5870   \if@bidi@undef{#1}
5871     {\bidi@dbg@fail{def}\@secondoftwo}
5872     {\bidi@dbg@info{def}%
5873       \if@bidi@defmacro{#1}
5874         {\bidi@dbg@info{mac}%
5875           \bidi@ifscanable{#1}
5876             {\bidi@ifhashcheck{#2}
5877               {\bidi@dbg@info{tok}%
5878                 \bidi@ifpattern#1{#2}
5879                 {\bidi@dbg@info{pat}%
5880                   \bidi@dbg@info{pos}\@firstoftwo}
5881                   {\bidi@dbg@fail{pat}\@secondoftwo}}
5882                 {\bidi@dbg@fail{hsh}\@secondoftwo}}
5883                 {\bidi@dbg@fail{tok}\@secondoftwo}}
5884                 {\bidi@dbg@fail{mac}\@secondoftwo}}}}
5885
5886 \long\def\bidi@ifpatchable@i#1{%
5887   \endgroup
5888   \bidi@dbg@init#1%
5889   \if@bidi@undef{#1}
5890     {\bidi@dbg@fail{def}\@secondoftwo}
5891     {\bidi@dbg@info{def}%
5892       \if@bidi@defmacro{#1}
5893         {\bidi@dbg@info{mac}%
5894           \if@bidi@defparam{#1}

```



```

5895         {\bidi@dbg@info{prm}}%
5896         \bidi@ifscanable{#1}
5897         {\bidi@dbg@info{tok}}%
5898         \bidi@dbg@info{pos}\@firstoftwo}
5899         {\bidi@dbg@fail{tok}\@secondoftwo}}
5900     {\bidi@dbg@info{prl}}%
5901     \if@bidi@defprotected{#1}
5902     {\bidi@dbg@info{pro}}
5903     {}%
5904     \bidi@dbg@info{pos}\@firstoftwo}}
5905     {\bidi@dbg@fail{mac}\@secondoftwo}}
5906
5907 \bidi@newrobustcmd*{\bidi@patchcmd}{%
5908     \bidi@dbg@trce\bidi@patchcmd
5909     \begingroup
5910     \@makeother\}%
5911     \bidi@patchcmd}
5912
5913 \newcommand{\bidi@patchcmd}[4][#####1]{%
5914     \bidi@ifpatchable#2{#3}
5915     {\bidi@dbg@succ{ret}}%
5916     \begingroup
5917     \edef\bidi@resrvda{%
5918         \def\noexpand\bidi@resrvda####1\detokenize{macro:}####2->####3&{%
5919             #1\def\string\bidi@resrvda\space####2{\noexpand\bidi@resrvdb####3&}}%
5920         \def\noexpand\bidi@resrvdb####1\detokenize{#3}####2&{%
5921             ####1\detokenize{#4}####2}%
5922         \edef\noexpand\bidi@resrvda{%
5923             \noexpand\bidi@resrvda\meaning#2&}}%
5924     \bidi@resrvda
5925     \bidi@patchcmd@scantoks\bidi@resrvda
5926     \let#2\bidi@resrvda
5927     \bidi@undef\bidi@resrvda
5928     \@firstoftwo}
5929     {\@secondoftwo}}
5930
5931 \def\bidi@patchcmd@scantoks#1{%
5932     \edef\bidi@resrvda{\endgroup
5933         \unexpanded{\makeatletter\scantokens}{#1}%
5934         \catcode\number`\@=\the\catcode`\@ \relax}%
5935     \bidi@resrvda}
5936
5937 \newcommand\bidi@isloaded[2][]{
5938     \expandafter\ifx\csname if@bidi@#2loaded@endcsname\relax
5939     \expandafter\newif\csname if@bidi@#2loaded@endcsname
5940     \fi
5941     \@ifpackageloaded{#2}
5942     {\csname @bidi@#2loaded@true\endcsname #1}
5943     {\csname @bidi@#2loaded@false\endcsname}}
5944
5945 \protected\def\bidi@ifscanable#1{%
5946     \begingroup
5947     \edef\bidi@resrvda{%
5948         \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%

```



```

5949     ###1\def\string\bidiresrvda###2{###3}}%
5950     \edef\noexpand\bidiresrvda{\noexpand\bidiresrvda\meaning#1&}}%
5951     \bidiresrvda
5952     \makeatletter
5953     \scantokens\expandafter{\bidiresrvda}%
5954     \expandafter\endgroup\ifx#1\bidiresrvda
5955         \expandafter\@firstoftwo
5956     \else
5957         \expandafter\@secondoftwo
5958     \fi}
5959
5960
5961 \protected\long\def\bidifhashcheck#1{%
5962     \begingroup
5963     \edef\bidiresrvda{\detokenize{#1}}%
5964     \expandafter\endgroup
5965     \expandafter\bidifhashcheck@i\meaning\bidiresrvda&}
5966
5967 \edef\bidifhashcheck@i#1{%
5968     \noexpand\expandafter
5969     \noexpand\bidifhashcheck@ii
5970     \noexpand\strip@prefix#1\string#\string#&}
5971
5972 \edef\bidifhashcheck@ii{%
5973     \def\noexpand\bidifhashcheck@ii##1\string#\string###2&
5974     \bidifhashcheck@ii{\if@bidi@blank{#2}}
5975
5976
5977 \protected\long\def\bidifpattern#1#2{%
5978     \begingroup
5979     \edef\bidiresrvda{%
5980         \def\noexpand\bidiresrvda###1\detokenize{#2}###2&{%
5981             \endgroup\noexpand\noexpand\noexpand\if@bidi@blank{###2}}%
5982         \edef\noexpand\bidiresrvda{\noexpand\bidiresrvda
5983             \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
5984         \noexpand\bidiresrvda}
5985     \bidiresrvda\@secondoftwo\@firstoftwo}
5986
5987
5988 \newcommand{\if@bidi@defparam}{%
5989 \long\edef\if@bidi@defparam#1{%
5990     \noexpand\expandafter\noexpand\bidifdefparam
5991     \noexpand\meaning#1\detokenize{macro}:->&}
5992 \edef\bidifdefparam{%
5993     \def\noexpand\bidifdefparam##1\detokenize{macro}:##2->##3&
5994     \bidifdefparam{\bidinotblank{#2}}
5995
5996
5997 \newcommand{\if@bidi@defprotected}{%
5998 \long\edef\if@bidi@defprotected#1{%
5999     \noexpand\expandafter\noexpand\bidifdefprotected
6000     \noexpand\meaning#1\string\protected&}
6001 \edef\bidifdefprotected{%
6002     \def\noexpand\bidifdefprotected##1\string\protected##2&}

```



```

6003 \bidi@ifdefprotected{\bidi@notblank{#2}}
6004
6005
6006 \bidi@newrobustcmd{\bidi@undef}[1]{\let#1\bidi@undefined}
6007 \bidi@newrobustcmd{\bidi@csundef}[1]{%
6008   \expandafter\let\csname #1\endcsname\bidi@undefined
6009 }
6010
6011 \let\bidi@dbg@trce\@gobble
6012 \let\bidi@dbg@init\@gobble
6013 \let\bidi@dbg@info\@gobble
6014 \let\bidi@dbg@succ\@gobble
6015 \let\bidi@dbg@fail\@gobble
6016
6017
6018
6019 \bidi@newrobustcmd*{\bidi@apptocmd}{%
6020   \bidi@dbg@trce\bidi@apptocmd
6021   \begingroup
6022   \@makeother\#%
6023   \bidi@hooktocmd\bidi@append}
6024
6025
6026
6027 \bidi@newrobustcmd*{\bidi@pretocmd}{%
6028   \bidi@dbg@trce\bidi@pretocmd
6029   \begingroup
6030   \@makeother\#%
6031   \bidi@hooktocmd\bidi@prepend}
6032
6033 \long\def\bidi@hooktocmd#1#2#3{%
6034   \endgroup
6035   \bidi@dbg@init#2%
6036   \if\bidi@undef{#2}
6037     {\bidi@dbg@fail{def}\@secondoftwo}
6038     {\bidi@dbg@info{def}%
6039      \if\bidi@defmacro{#2}
6040        {\bidi@dbg@info{mac}%
6041         \if\bidi@defparam{#2}
6042           {\bidi@dbg@info{prm}%
6043            \bidi@ifscanable{#2}
6044              {\bidi@ifhashcheck{#3}
6045                {\bidi@dbg@info{tok}%
6046                 \bidi@dbg@succ{ret}%
6047                 \bidi@hooktocmd\i#1#2{#3}%
6048                 \@firstoftwo}
6049                {\bidi@dbg@fail{hsh}\@secondoftwo}}
6050              {\bidi@dbg@fail{tok}\@secondoftwo}}
6051            {\bidi@dbg@info{prl}%
6052             \if\bidi@defprotected{#2}
6053               {\bidi@dbg@info{pro}%
6054                \bidi@dbg@succ{red}%
6055                \protected}
6056               {\bidi@dbg@succ{red}}}%

```





```

6057         \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
6058         \@firstoftwo}}
6059     {\bidi@dbg@fail{mac}\@secondoftwo}}
6060
6061 \long\def\bidi@hooktocmd#i#1#2#3{%
6062     \begingroup
6063     \edef\bidi@resrvda{%
6064         \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
6065             ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}}%
6066         \edef\noexpand\bidi@resrvda{%
6067             \noexpand\bidi@resrvda\meaning#2&}}%
6068     \bidi@resrvda
6069     \bidi@patchcmd@scantoks\bidi@resrvda
6070     \let#2\bidi@resrvda
6071     \bidi@undef\bidi@resrvda}
6072
6073 \long\def\bidi@append#1#2{#1#2}
6074 \long\def\bidi@prepend#1#2{#2#1}
6075
6076 %\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
6077 %\newcommand*{\bidi@endpreamblehook}{ }
6078
6079 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\AddToHook{begindocument/before}}%
6080
6081 \bidi@newrobustcmd*{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipou
6082 \newcommand*{\bidi@beforeoutputpageshipouthook}{ }
6083
6084 \bidi@newrobustcmd*{\bidi@BeforeHeader}{\bidi@gappto\bidi@beforeheaderhook}
6085 \newcommand*{\bidi@beforeheaderhook}{ }
6086
6087 \bidi@newrobustcmd*{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@beforeoutputboxoutpu
6088 \newcommand*{\bidi@beforeoutputboxoutputpagehook}{ }
6089
6090 \bidi@newrobustcmd*{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@afteroutputboxoutputp
6091 \newcommand*{\bidi@afteroutputboxoutputpagehook}{ }
6092
6093 \bidi@newrobustcmd*{\bidi@BeforeFooter}{\bidi@gappto\bidi@beforefooterhook}
6094 \newcommand*{\bidi@beforefooterhook}{ }
6095
6096 \bidi@newrobustcmd*{\bidi@AfterFooter}{\bidi@gappto\bidi@afterfooterhook}
6097 \newcommand*{\bidi@afterfooterhook}{ }
6098
6099
6100 \bidi@newrobustcmd*{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@afteroutputpageshipouth
6101 \newcommand*{\bidi@afteroutputpageshipouthook}{ }
6102
6103 \bidi@newrobustcmd*{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@atendoutputpagehook}
6104 \newcommand*{\bidi@atendoutputpagehook}{ }
6105
6106 %\bidi@preto\document{%
6107 %    \endgroup
6108 %    \let\bidi@AtEndPreamble\@firstofone
6109 %    \bidi@endpreamblehook
6110 %    \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%

```



```

6111 % \bidi@undef\bidi@endpreamblehook
6112 % \begingroup}
6113
6114 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
6115 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}
6116
6117 %\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterendpreamblehook}
6118 %\newcommand*{\bidi@afterendpreamblehook}{}
6119
6120 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\AddToHook{begindocument/end}}}%
6121
6122 %\bidi@gappto\document{%
6123 % \let\bidi@AfterEndPreamble\@firstofone
6124 % \bidi@afterendpreamblehook
6125 % \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
6126 % \bidi@undef\bidi@afterendpreamblehook
6127 % \ignorespaces}
6128
6129 \bidi@newrobustcmd*{\bidi@AfterEndDocumentCheckLabelsRerun}{\bidi@gappto\bidi@afterenddocumenthook}
6130 \newcommand*{\bidi@afterenddocumentchecklabelsrerunhook}{}
6131
6132 \bidi@patchcmd\enddocument
6133 {\fi}
6134 {\let\bidi@AfterEndDocumentCheckLabelsRerun\@firstofone
6135 \bidi@afterenddocumentchecklabelsrerunhook
6136 \fi}
6137 {}
6138 {\PackageWarning{biditools}{Patching '\string\enddocument' failed}}
6139
6140 \AtEndDocument{\let\bidi@AfterEndPreamble\@gobble}
6141
6142 \bidi@newrobustcmd*{\bidi@AfterLastShipout}{\bidi@gappto\bidi@afterlastshipouthook}
6143 \newcommand*{\bidi@afterlastshipouthook}{}
6144
6145 \bidi@patchcmd\enddocument
6146 {\clearpage}
6147 {\clearpage
6148 \let\bidi@AfterLastShipout\@firstofone
6149 \bidi@afterlastshipouthook}
6150 {}
6151 {\let\bidi@clearpage\clearpage
6152 \def\clearpage{%
6153 \bidi@clearpage
6154 \let\bidi@AfterLastShipout\@firstofone
6155 \bidi@afterlastshipouthook}}
6156
6157 %\bidi@newrobustcmd*{\bidi@AfterEndDocument}{\bidi@gappto\bidi@afterenddocumenthook}
6158 %\newcommand*{\bidi@afterenddocumenthook}{}
6159
6160 \bidi@newrobustcmd*{\bidi@AfterEndDocument}{\AddToHook{enddocument/end}}}%
6161
6162 %\bidi@patchcmd\enddocument
6163 % {\deadcycles}
6164 % {\let\bidi@AfterEndDocument\@firstofone

```



```

6165 % \bidi@afterendddocumenthook
6166 % \deadcycles}
6167 % {}
6168 % {\let\bidi@@end@@end
6169 % \def@@end{%
6170 % \let\bidi@AfterEndDocument\@firstofone
6171 % \bidi@afterendddocumenthook
6172 % \bidi@@end}}
6173
6174 \bidi@newrobustcmd{\bidi@AtBeginEnvironment}[1]{%
6175 \bidi@csgappto{@bidi@begin@#1@hook}}
6176
6177 % Patch \begin<space> and \end<space> in newer LaTeX releases
6178 % \begin and \end in older ones.
6179 \expandafter\bidi@patchcmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6180 {\csname #1\endcsname}
6181 {\bidi@csuse{@bidi@begin@#1@hook}}%
6182 \csname #1\endcsname}
6183 {}
6184 {\bidi@warning{%
6185 Patching '\string\begin' failed!\MessageBreak
6186 '\string\bidi@AtBeginEnvironment' will not work\@gobble}}
6187
6188
6189
6190 \bidi@newrobustcmd{\bidi@AtEndEnvironment}[1]{%
6191 \bidi@csgappto{@bidi@end@#1@hook}}
6192
6193 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6194 {\csname end#1\endcsname}
6195 {\bidi@csuse{@bidi@end@#1@hook}}%
6196 \csname end#1\endcsname}
6197 {}
6198 {\bidi@warning{%
6199 Patching '\string\end' failed!\MessageBreak
6200 '\string\bidi@AtEndEnvironment' will not work\@gobble}}
6201
6202
6203
6204 \bidi@newrobustcmd{\bidi@BeforeBeginEnvironment}[1]{%
6205 \bidi@csgappto{@bidi@beforebegin@#1@hook}}
6206
6207 \expandafter\bidi@pretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6208 {\bidi@csuse{@bidi@beforebegin@#1@hook}}
6209 {}
6210 {\bidi@warning{%
6211 Patching '\string\begin' failed!\MessageBreak
6212 '\string\bidi@BeforeBeginEnvironment' will not work\@gobble}}
6213
6214 \bidi@newrobustcmd{\bidi@AfterEndEnvironment}[1]{%
6215 \bidi@csgappto{@bidi@afterend@#1@hook}}
6216
6217 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6218 {\if@ignore}

```



```

6219 {\bidi@csuse{@bidi@afterend@#1@hook}}%
6220 \if@ignore}
6221 {}
6222 {\bidi@warning{%
6223     Patching '\string\end' failed!\MessageBreak
6224     '\string\bidi@AfterEndEnvironment' will not work@gobble}}
6225
6226 \def\bidi@namedef#1{\expandafter\def\csname #1\endcsname}
6227 \def\bidi@namegdef#1{\expandafter\gdef\csname #1\endcsname}
6228 \def\bidi@nameedef#1{\expandafter\edef\csname #1\endcsname}
6229 \def\bidi@namexdef#1{\expandafter\xdef\csname #1\endcsname}
6230
6231 % From David Carlisle:
6232 % The \@stpelt redefinition below belongs to Heiko Oberdiek
6233 % See also https://github.com/ho-tex/oberdiek/issues/26
6234
6235 \let@bidi@stepcounter\stepcounter
6236 \let@bidi@@stpelt\@stpelt
6237
6238 \def@bidi@stpelt#1{%
6239     \ifcsname bidi@reset@#1@perpage\endcsname
6240         \begingroup
6241             \let\stepcounter@bidi@stepcounter
6242             \@bidi@@stpelt{#1}%
6243         \endgroup
6244         \expandafter@gobbletwo
6245     \fi
6246     \@bidi@@stpelt{#1}%
6247 }
6248
6249 \bidi@pretocmd\stepcounter
6250 {%
6251     \if@bidi@csundef{bidi@stepcounterhook@@#1}{-}{%
6252         \csname bidi@stepcounterhook@@#1\endcsname
6253     }%
6254 }{%
6255     {\PackageWarning{biditools}{Patching '\string\stepcounter' failed}}
6256
6257 \chardef\bidi@backslash`\\
6258 \def\bidi@#1{\texttt{\char\bidi@backslash#1}}
6259
6260 % anonymous control sequences
6261 \newcount\bidi@tempcountb
6262 \newtoks\bidi@temptoksa
6263 \newtoks\bidi@temptoksb
6264
6265 % Catcode (re)storing
6266 %
6267 \def\bidi@storecatcode#1%
6268     {\escapechar@m@ne
6269     \bidi@csarg\edef{bidi@restorecatcode\string#1}%
6270         {\catcode`\string#1=
6271         \the\catcode\expandafter`\string#1}%
6272     \catcode\expandafter`\string#1=12\relax

```



```

6273 \escapechar`\\relax}
6274 \def\bidirestorecatcode#1%
6275   {\escapechar\m@ne
6276    \csname bidi@restorecatcode\string#1\endcsname
6277    \escapechar`\\relax}
6278
6279 % Construct a control sequence inside \edef
6280 %
6281 \def\bidicsname#1{\expandafter\noexpand\csname#1\endcsname}
6282
6283 % Construct a control sequence out of #2, and give it to #1
6284 %
6285 \def\bidicsarg#1#2{\expandafter#1\csname#2\endcsname}
6286
6287 % Pick an escapecharacter
6288 % this presumes that its argument is a character.
6289 %
6290 \def\bidipickescape#1{\ifnum`#1=\escapechar\else#1\fi}
6291
6292 % Equality of strings.
6293 % the fast approach: does not work in expansion-only environment.
6294 %
6295 \def\bidiequalstring#1#2{00\fi\def\bidieqs@a{#1}\def\bidieqs@b{#2}%
6296   \ifx\bidieqs@a\bidieqs@b}
6297
6298 % Test by expansion only
6299 %
6300 \def\bidiequalstringX#1#2{00\fi
6301   \csname if\@bidiequalstringX#1&#2&\endcsname}
6302 \def\@bidiequalstringX#1#2$#3#4${\ifx#1#3%
6303   \ifx#1&true\else\bidihop@ES\@bidiequalstringX#2$#4$\fi
6304   \else false\fi}
6305 \def\bidihop@ES#1\fi#2\fi{\fi\fi#1}
6306
6307 % Lexicographic ordering
6308 % note the use of \def
6309 % also note the characters 0,127,255 that are used,
6310 % these are not supposed to appear in the strings
6311 %
6312 {\catcode0=12 \catcode255=12 \catcode127=12
6313 \gdef\bidistringbeforeNC#1#2{00\fi
6314   \bidi@CharsBefore#1^^@^^?#2^^ff^^?}
6315 \gdef\bidicharsbeforeNC#1#2^^?#3#4^^?{%
6316   \ifcat#1\relax\def\bidinext{\bidi@CharsBefore#2^^@^^?#3#4^^ff^^?}%
6317   \else\ifcat#3\relax\def\bidinext{\bidi@CharsBefore#1#2^^@^^?#4^^ff^^?}%
6318   \else\ifnum\lccode`#1<\lccode`#3
6319     \def\bidinext{\csname iftrue\endcsname}%
6320   \else\ifnum\lccode`#1>\lccode`#3
6321     \def\bidinext{\csname iffalse\endcsname}%
6322   \else\def\bidinext{\bidi@CharsBefore#2^^?#4^^?}%
6323   \fi \fi \fi \fi
6324   \bidinext}
6325 \gdef\bidistringbefore#1#2{00\fi
6326   \bidi@CharsBefore#1^^@^^?#2^^ff^^?}

```



```

6327 \gdef\bid@CharsBefore#1#2^^?#3#4^^?{%
6328   \ifnum`#1<`#3
6329     \def\bid@next{\csname iftrue\endcsname}%
6330   \else\ifnum`#1>`#3
6331     \def\bid@next{\csname iffalse\endcsname}%
6332   \else\def\bid@next{\bid@CharsBefore#2^^?#4^^?}%
6333   \fi\fi
6334   \bid@next}
6335 }
6336
6337 % Null argument test
6338 %
6339 \def\bid@empty{}
6340 \def\bid@ifempty#1{00\fi\expandafter\ifx\csname bid@#1\endcsname\bid@empty}
6341 \def\bid@ifemptyX#1{\expandafter\ifx\csname bid@#1\endcsname\bid@empty}
6342 %\def\bid@ifempty#1{\def\bid@cs@a{#1}\ifx\bid@cs@a\bid@empty}
6343 \def\bid@IsEmptyList#1{00\fi\def\bid@cs@a{#1}\ifx\cs@a\bid@empty}
6344
6345 % Next character test
6346 %
6347 \def\bid@NextChar#1#2#3{00\fi
6348   \let\bid@nxt@ch#1\def\bid@nxt@a{#2}\def\bid@nxt@b{#3}%
6349   \futurelet\bid@nxt@c\@bid@ifnxtc}
6350 \def\bid@ifNextChar#1#2#3{%
6351   \let\bid@nxt@ch#1\def\bid@nxt@a{#2}\def\bid@nxt@b{#3}%
6352   \futurelet\bid@nxt@c\@bid@ifnxtc}
6353 \def\@bid@ifnxtc{\ifx\bid@nxt@ch\bid@nxt@c \expandafter\bid@nxt@a
6354   \else \expandafter\bid@nxt@b \fi}
6355
6356 % Test for defined-ness of string as control sequence.
6357 % works inside \edef
6358 %
6359 \def\bid@undefinedcs#1{00\fi\bid@csarg\ifx{#1}\relax}
6360
6361 % Define uniquely defined dummy macros,
6362 % usually to serve as bumper blocks at the end of a list
6363 %
6364 \newcount\bid@dummies
6365 \def\DefNewDummy#1{
6366   \if\bid@undefinedcs{#1}\bid@csarg\edef{#1}{\bid@dum\the\bid@dummies}
6367   \advance\bid@dummies\@ne
6368   \else
6369     \bid@error{Attempt at second definition of `#1'}
6370   \fi}
6371
6372 % string case statement
6373 % use: \bid@switch \iftest{...} in:
6374 %   item1 action1
6375 %   ...
6376 %   itemn actionn
6377 %   default defaultaction [optional]
6378 %   \endbid@switch
6379 % inspired by Jonathan Fine: Some Basic Control Macros
6380 % Tugboat 12 #4

```



```

6381 %
6382 \let\@bidi@fi\fi \let\endbidi@switch\relax \DefNewDummy{bidi@default}
6383 \def\bidi@switch@exit #1 \@bidi@fi #2 \endbidi@switch {\fi #1}
6384 \def\bidi@switch #1#2#3{\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6385   #1{#2}\bidi@switch@exit #3 \@bidi@fi
6386   \bidi@switch {#1}
6387 }
6388 % this version puts the test object in {}
6389 \def\bidi@oswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6390   #1{#2}\bidi@switch@exit #3 \@bidi@fi
6391   \bidi@switch #1 in:
6392 }
6393 % this version assumes that the test object is just one character
6394 \def\bidi@cswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6395   #1#2\bidi@switch@exit #3 \@bidi@fi
6396   \bidi@cswitch #1 in:
6397 }
6398 % this version assumes that the test object can have an optional space
6399 \def\bidi@bswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6400   #1#2 \bidi@switch@exit #3 \@bidi@fi
6401   \bidi@bswitch #1 in:
6402 }
6403 % this version can cope with significant spaces at the start of #3;
6404 % #2 is macro argument
6405 \def\bidi@mswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6406   #1{#2}\bidi@switch@exit #3 \@bidi@fi
6407   \bidi@mswitch #1 in:
6408 }
6409 % idem; #2 does not have to be enclosed in braces
6410 \def\bidi@fswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6411   #1#2 \bidi@switch@exit #3 \@bidi@fi
6412   \bidi@fswitch #1 in:
6413 }
6414
6415 % Routines for taking the value of a string:
6416 % if the string is defined as control sequence
6417 % take the value of that, otherwise take the string itself
6418
6419 % String or value of control sequence
6420 %
6421 \def\bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
6422
6423 % String or control sequence
6424 %
6425 \def\@bidi@ww#1{\if\bidi@undefinedcs{#1}#1\else \csname#1\endcsname \fi}
6426
6427 % String or \noexpand-ed control sequence;
6428 % for use in \edef
6429 %
6430 \newif\ifbidi@in@label
6431 \def\@bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else
6432   \ifbidi@in@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6433 \newtoks\bidi@are@these@correct
6434 \def\bidi@t@w@w#1{%

```



```

6435 \if\bid@undefinedcs{#1}#1%
6436 \ifdefining\bid@append@to@list\bid@are@these@correct{#1}\fi
6437 \else
6438 \ifin@label\noexpand\protect\fi \bid@csname{#1}\fi}
6439
6440 % List Manipulation .....
6441 % this assumes that #1 is a list of tokens, #2 is the name of a list
6442 %
6443 % Names of lists (and of items to pop into) are given as strings;
6444 % not as control sequences.
6445 %
6446 \newtoks\bid@toks@lista \newtoks\bid@toks@listb
6447 % basic append/prepend macro
6448 \long\def\bid@append@to@csl@list#1#2#3{\begingroup\bid@toks@lista=#2{#3}%
6449 \global#1=\expandafter\expandafter\expandafter\expandafter\the\expandafter#1\the\bid@toks@listb
6450 \long\def\bid@prepend@to@csl@list#1#2#3{\begingroup\bid@toks@lista=#2{#3}%
6451 \global#1=\expandafter\expandafter\expandafter\expandafter\the\expandafter\bid@toks@listb
6452 \def\bid@append@to@list{\bid@csarg\bid@append@to@csl@list}
6453 \def\bid@prepend@to@list{\bid@csarg\bid@prepend@to@csl@list}
6454 % variations:
6455 \long\def\bid@append@to@list#1#2{\bid@append@to@list{#1}{#2}}
6456 \long\def\bid@prepend@to@list#1#2{\bid@prepend@to@list{#1}{#2}}
6457 \def\bid@append@list@to@list#1#2{%
6458 \bid@append@to@list{#1}{\expandafter\expandafter\expandafter\expandafter\the\csname#1\endcsname}
6459 \def\bid@prepend@list@to@list#1#2{%
6460 \bid@prepend@to@list{#1}{\expandafter\expandafter\expandafter\expandafter\the\csname#1\endcsname}
6461 \def\bid@append@csl@list@to@csl@list#1#2{%
6462 \bid@append@to@csl@list{#1}\expandafter\the#2}}
6463 \def\bid@prepend@csl@list@to@csl@list#1#2{%
6464 \bid@prepend@to@csl@list{#1}\expandafter\the#2}}
6465 \def\bid@append@toks@cs@to@list#1#2{\bid@append@to@list{#1}\expandafter\the#2}}
6466 \def\bid@prepend@toks@cs@to@list#1#2{\bid@prepend@to@list{#1}\expandafter\the#2}}
6467
6468 \let\bid@willbeunhskip\unhskip
6469
6470 % A few list macros for the user
6471 \def\NewTokenList:#1 {\bid@csarg\newtoks{#1}\global\csname#1\endcsname{}}
6472 \def\EmptyTokenList:#1 {\global\csname#1\endcsname{}}
6473 \long\def\AppendToTokenList:#1=#2 {\bid@append@to@list{#1}{#2}}
6474 \long\def\PrependToTokenList:#1=#2 {\bid@prepend@to@list{#1}{#2}}
6475 \def\TheTokenList:#1 {\let\bid@oldwbuskip\bid@willbeunhskip \let\bid@willbeunhskip\@empty
6476 \if\bid@undefinedcs{#1}\bid@error{Token List <#1> undefined}
6477 \else\bid@csarg\the{#1}\fi
6478 \let\bid@willbeunhskip\bid@oldwbuskip}
6479
6480 \def\bid@del@tok@from@list#1#2{\begingroup
6481 \long\def\bid@cs@list#1#2##2\bid@tok@SM
6482 {\bid@toks@lista{##1}\bid@toks@listb{##2}%
6483 \edef\bid@cs@listb{\global\bid@csname{#1}=
6484 \the\bid@toks@lista\the\bid@toks@listb}}%
6485 \bid@cs@listb}%
6486 \edef\bid@cs@lista{\noexpand\bid@cs@list#1\expandafter\the\csname#1\endcsname\noexpand\bid@toks@listb}
6487 \bid@cs@lista \endgroup}
6488 \def\bid@in@front@of@list#1{\bid@csarg{\let\expandafter\bid@cs@list#1\expandafter\bid@cs@list#1}%

```





```

6489 \bidi@in@front@of@cslst\bidi@cs@lista}
6490 \long\def\bidi@in@front@of@cslst#1#2{\begingroup\bidi@toks@lista={#2}%
6491 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidi@toks@lis
6492 \endgroup}
6493 \long\def\bidi@local@in@front@of@list#1#2{\bidi@toks@lista={#2}%
6494 \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expanda
6495 {\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandaft
6496 \expandafter\the\csname#1\endcsname}%
6497 }
6498 \def\bidi@set@list#1{\bidi@csarg{\let\expandafter\bidi@cs@lista}{#1}%
6499 \bidi@set@cslst\bidi@cs@lista}
6500 \long\def\bidi@set@cslst#1#2{\begingroup\bidi@toks@lista={#2}%
6501 \global#1=\expandafter{\the\bidi@toks@lista}\endgroup}
6502
6503 %%%%%%%%%%%%%%% Stack macros
6504 %
6505 % push in terms of prepending of lists
6506 \def\bidi@push@cs@onto@cs#1#2{\@bidi@prepend@to@cslst#1\expandafter{\expandafter\\expanda
6507 \def\bidi@push@onto#1{\bidi@csarg\bidi@push@onto@cs{#1}}
6508 \def\bidi@push@onto@cs#1#2{\@bidi@prepend@to@cslst#1{\{\{#2\}\}}
6509 \def\bidi@local@push@onto#1#2{\let\\=\relax
6510 \bidi@local@in@front@of@list{#1}{\{\{#2\}\}}
6511 % pop via auxiliary macro: #1 is result, #2 is stack
6512 % two cs arguments
6513 \def\bidi@pop@cs@into#1#2{\edef\bidi@cs@e
6514 {\noexpand\@bidi@popinto\noexpand#1\noexpand#2\the#2\noexpand\@bidi@pop}\bidi@cs@e}
6515 % two string arguments
6516 \def\bidi@pop@into#1#2{\edef\bidi@cs@e
6517 {\noexpand\@bidi@popinto\bidi@csname{#1}\bidi@csname{#2}\bidi@csarg\the{#2}\noexpand\@
6518 \long\def\@bidi@popinto#1#2\#3#4\@bidi@pop{#1{#3}#2{#4}}
6519 \def\bidi@copy@stacktop#1#2{%
6520 \edef\bidi@cs@e{\noexpand\@bidi@copy@stacktop
6521 {#1}\bidi@csarg\the{#2}\noexpand\@bidi@pop}%
6522 \bidi@cs@e}
6523 \def\@bidi@copy@stacktop#1\#2#3\@bidi@pop{\csname#1\endcsname#2\relax}
6524 \newcount\bidi@stack@length \newtoks\bidi@empty@stack \bidi@empty@stack{\{\}}
6525 \def\bidi@length@of@stack#1{\bidi@csarg\bidi@length@of@csstack{#1}}
6526 \def\bidi@length@of@csstack#1{\def\#1{\advance\bidi@stack@length\@ne}%
6527 \bidi@stack@length\m@ne \the#1}
6528 % turn a stack upside down
6529 \def\bidi@invert@csstack#1{\bidi@length@of@csstack{#1}%
6530 \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@stack
6531 \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6532 \bidi@pop@cs@into\bidi@temptoksb#1\advance\bidi@stack@length\m@ne
6533 \bidi@push@cs@onto@cs\bidi@temptoksa\bidi@temptoksb
6534 % \bidi@append@cslst@to@cslst\bidi@temptoksb\bidi@temptoksa% append a to b
6535 % \bidi@temptoksa\bidi@temptoksb
6536 \repeat% copy b to a
6537 #1\bidi@temptoksa\bidi@temptoksa\bidi@empty@toks}
6538 % invert a stack into a list
6539 \def\bidi@x@stack@to@list#1{\bidi@length@of@stack{#1}%
6540 \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@toks
6541 \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6542 \bidi@pop@into{\bidi@temptoksb}{#1}\advance\bidi@stack@length\m@ne

```



```

6543 \bidi@append@list@to@list{bidi@temptoksb}{bidi@temptoksa}\repeat
6544 \csname#1\endcsname\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6545
6546
6547 % General loop macro:
6548 % \looprepeat
6549 % \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<end>}
6550 % \untilcondition{<cond>} \whilecondition{<cond>}
6551 % \doloopbody { <loop body> }
6552 % where all control sequences in between \looprepeat and \doloopbody are optional.
6553 %
6554 % var: characters to form a control sequence;
6555 % after \forvariable{index} you can access the loop counter as \index.
6556 % This is a count register; to print it use \number\index.
6557 % start,step,end: integers with obvious relations to the loop counter;
6558 % start and step have a default value of 1
6559 % cond: (sequence of commands ending in) any TeX \if... test.
6560 %
6561 % Count down instead of up with \downtovalue; the increment given in \bystep
6562 % is always positive, and is added or subtracted accordingly.
6563 %
6564 % Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition
6565 % at the beginning of the loop body.
6566 %
6567 % Exit from middle of loop: \breaklooprepeat
6568 % use this at any place in the loop; in case of a conditional use
6569 % \ifsomething ... \expandafter \breaklooprepeat \fi
6570 %
6571 % Note that the line ends do not cause spaces in the output.
6572 %
6573 % Technical details:
6574 % The loop body is not executed in a group: the braces are those
6575 % of a token list.
6576 % The 'forvariable' variable is \let to a \count register.
6577
6578
6579
6580 % Auxiliary stuff
6581 \def\bidi@looprepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
6582 \def\bidi@looprepeat@csromannumeral#1{\csname #1\romannumeral\bidi@looprepeat@depth\endcsname}
6583 \def\bidi@looprepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\bidi@looprepeat@depth\endcsname}
6584
6585 \newcount\bidi@looprepeat@depth
6586 \let\endlooprepeat\relax \def\bidi@csprotect{}
6587 % Trace switches may later be defined by PAC_utils
6588 \let\bidi@looprepeat@traceinit\relax \let\bidi@looprepeat@traceexit\relax
6589
6590 % Main repeatloop macro
6591 % - go to next level and allocate unique counter/toks if this is the
6592 % first time we visit this level
6593 % - setup: gather bounds and termination conditions
6594 % - scoop up body in token list; after the assignment define and
6595 % execute body
6596 \def\looprepeat#1\doloopbody{\bidi@looprepeat@traceinit % exit in \breakrepeatloop

```



```

6597 \advance\bidil@looprepeat@depth\@ne\relax
6598 \bidil@looprepeat@csargromannumeral\ifx{\bidil@looprepeat@count}\relax
6599 \bidil@looprepeat@csargromannumeral{\csname newcount\expandafter\endcsname}{\bidil@looprepe
6600 \bidil@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidil@looprepe
6601 \bidil@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidil@looprepe
6602 \bidil@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidil@looprepe
6603 \fi \bidil@looprepeat@zero \def\bidil@looprepeat@sign{}}\def\bidil@looprepeat@comp{>}\bidil@lo
6604 \edef\bidil@looprepeat@tmp
6605 {\def\bidil@looprepeat@csargromannumeral\noexpand{\bidil@looprepeat@looprepeat}{\bidil@lo
6606 \afterassignment\bidil@looprepeat@dxbody\bidil@looprepeat@csromannumeral{\bidil@looprepeat@to
6607
6608 % Define and execute loop body
6609 % This is done with an \edef to construct the actual sequence
6610 \def\bidil@looprepeat@dxbody{\bidil@looprepeat@csargromannumeral\edef{\bidil@looprepeat@body}{%
6611 \bidil@looprepeat@csargromannumeral\the{\bidil@looprepeat@wtest}%
6612 \noexpand\the\bidil@looprepeat@csargromannumeral\noexpand{\bidil@looprepeat@toks}%
6613 \bidil@looprepeat@csargromannumeral\the{\bidil@looprepeat@utest}%
6614 \global\bidil@looprepeat@csargromannumeral\advance{\bidil@looprepeat@count} by \bidil@loopr
6615 \noexpand\endlooprepeat
6616 \bidil@looprepeat@csargromannumeral\noexpand{\bidil@looprepeat@looprepeat}}}%
6617 \bidil@looprepeat@csromannumeral{\bidil@looprepeat@body}\ignorespaces}
6618
6619 % Stop test
6620 %% In order to stop, issue a
6621 % \breaklooprepeat which scoops up the rest of the body and exits
6622 \def\breaklooprepeat#1\endlooprepeat{\bidil@looprepeat@zero\bidil@looprepeat@csargromannumera
6623 \advance\bidil@looprepeat@depth\m@ne \bidil@looprepeat@traceexit
6624 }
6625
6626
6627 % Setup
6628 % gather bounds and termination conditions
6629 \def\bidil@looprepeat@setup#1{%
6630 \begingroup
6631 \def\forvariable##1{%
6632 \edef\bidil@looprepeat@tmp{%
6633 \global\let\bidil@looprepeat@csarg\noexpand{##1}\bidil@looprepeat@csromannumeral{\bidil
6634 \bidil@looprepeat@tmp}%
6635 \def\fromvalue##1{\bidil@looprepeat@csargromannumeral\global{\bidil@looprepeat@count}##1\i
6636 \def\tovalue##1{%
6637 \edef\bidil@looprepeat@tmp{\global\bidil@looprepeat@csargromannumeral\noexpand{\bidil@lo
6638 {\bidil@looprepeat@csargromannumeral\the{\bidil@looprepeat@wtest}%
6639 \noexpand\ifnum\bidil@looprepeat@csargromannumeral\noexpand{\bidil@looprepeat@count}\b
6640 \noexpand\expandafter \noexpand\breaklooprepeat
6641 \noexpand\fi}\ignorespaces}%
6642 \bidil@looprepeat@tmp}%
6643 \def\dwntovalue##1{%
6644 \gdef\bidil@looprepeat@sign{-}\gdef\bidil@looprepeat@comp{<}\tovalue{##1}\ignorespaces}
6645 \def\bystep##1{\ifnum##1<0 \bidil@error{LOOPREPEAT: increment has to be a positive value
6646 \bidil@looprepeat@csargromannumeral\gdef{\bidil@looprepeat@inc}{-##1}\else
6647 \bidil@looprepeat@csargromannumeral\gdef{\bidil@looprepeat@inc}{##1}\fi\ignores
6648 \def\untilcondition##1{%
6649 \edef\bidil@looprepeat@tmp{\global\bidil@looprepeat@csargromannumeral\noexpand{\bidil@lo
6650 {\noexpand##1\relax

```



```

6651         \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6652         \bidi@looprepeat@tmp}%
6653     \def\whilecondition##1{%
6654         \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand\bidi@looprepeat@tmp}%
6655         {\noexpand##1\relax \noexpand\else
6656         \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6657     \bidi@looprepeat@tmp}%
6658     \fromvalue{\@ne}\bystep{\@ne}#1%
6659 \endgroup}
6660 \def\bidi@looprepeat@zero
6661     {\bidi@looprepeat@csromannumeral\bidi@looprepeat@toks}{ }\bidi@looprepeat@csromannumeral\bidi@looprepeat@tmp}%
6662     \bidi@looprepeat@csargromannumeral\def\bidi@looprepeat@body{ } }
6663
6664 %\tracingmacros2
6665 %\newcount\tmpcount % used in some examples below
6666
6667 %\looprepeat \forvariable{i}
6668 %     \bystep{2}
6669 % \doloopbody {%
6670 %     \ifnum i=13 \expandafter\breaklooprepeat \fi
6671 %     \number{i} } %
6672 %}%
6673
6674 %\looprepeat \forvariable{iii}
6675 %     \tovalue{8}
6676 % \doloopbody {}
6677 %After loop: \number{iii}%
6678
6679 %\looprepeat \forvariable{i}
6680 %     \fromvalue{10}
6681 %     \bystep{2}
6682 %     \downtovalue{0}
6683 % \doloopbody {\number{i} }
6684
6685 %\looprepeat \forvariable{x} \whilecondition{\ifnum x<7}
6686 % \doloopbody {\number{x} }
6687
6688 %\looprepeat \tovalue{3} \doloopbody {Hello world! }
6689
6690 %\looprepeat \forvariable{j}
6691 %     \untilcondition{\tmpcount>j \divide\tmpcount by 37 \noexpand\ifnum\tmpcount=1}
6692 % \doloopbody {\number{j} }
6693
6694 %\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
6695 % {\looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
6696 % \doloopbody {(\number{i}.\number{j}) }
6697 % }
6698
6699 % infinite loop
6700 %\looprepeat \doloopbody {}
6701
6702 \renewcommand{\InputIfFileExists}[2]{%
6703     \begingroup\expandafter\expandafter\expandafter\endgroup
6704     \expandafter\ifx\csname #1-@bidi@alias\endcsname\relax

```



```

6705 \expandafter\@secondoftwo
6706 \else
6707 \bidi@replacefile@msg{\csname #1-@bidi@alias\endcsname}{#1}%
6708 \expandafter\@firstoftwo
6709 \fi
6710 {%
6711 \expandafter\InputIfFileExists\expandafter{\csname
6712 #1-@bidi@alias\endcsname}{#2}%
6713 }%
6714 {\IfFileExists{#1}{%
6715 \bidi@load@hook{before}{#1}%
6716 #2\@addtofilelist{#1}%
6717 \@input \@file@und
6718 \bidi@load@hook{after}{#1}%
6719 }}%
6720 }
6721
6722 \newcommand*\bidi@loadwithoptions{}
6723 \newcommand*\bidi@loadwithoptions{}
6724 \let\bidi@loadwithoptions\@loadwithoptions
6725
6726 \renewcommand*\@loadwithoptions}[3]{%
6727 \begingroup\expandafter\expandafter\expandafter\endgroup
6728 \expandafter\ifx\csname #3.#1-@bidi@aliasname\endcsname\relax
6729 \def\bidi@loadwithoptions{\bidi@loadwithoptions{#1}{#2}{#3}}%
6730 \else
6731 \bidi@replacefile@msg{\csname #3.#1-@bidi@aliasname\endcsname.#1}{#3.#1}%
6732 \def\bidi@loadwithoptions{%
6733 \@loadwithoptions{#1}{#2}{\csname #3.#1-@bidi@aliasname\endcsname}%
6734 }%
6735 \fi
6736 \bidi@loadwithoptions
6737 }
6738
6739 \newcommand*\bidi@onefilewithoptions{}
6740 \let\bidi@onefilewithoptions\@onefilewithoptions
6741 \def\bidi@onefilewithoptions#1[#2][#3]#4{%
6742 \begingroup\expandafter\expandafter\expandafter\endgroup
6743 \expandafter\ifx\csname #1.#4-@bidi@aliasname\endcsname\relax
6744 \def\bidi@onefilewithoptions{\bidi@onefilewithoptions{#1}}%
6745 \else
6746 \bidi@replacefile@msg{\csname #1.#4-@bidi@aliasname\endcsname.#4}{#1.#4}%
6747 \edef\bidi@onefilewithoptions{%
6748 \noexpand\@onefilewithoptions{\csname #1.#4-@bidi@aliasname\endcsname}}%
6749 \fi
6750 \bidi@onefilewithoptions[#{2}][#{3}]{#4}%
6751 \bidi@load@hook{lateafter}{#1.#4}%
6752 }
6753
6754 \newcommand*\bidi@ReplaceInput}[2]{%
6755 \expandafter\edef\csname #1-@bidi@alias\endcsname{#2}%
6756 }
6757
6758 \newcommand*\bidi@UnReplaceInput}[1]{%

```



```

6759 \ifcsname #1-@bidi@alias\endcsname
6760 \expandafter\let\csname #1-@bidi@alias\endcsname\relax
6761 \fi
6762 }
6763
6764 \newcommand*{\@bidi@replacefilewithtext}[3]{%
6765 \expandafter\edef\csname #1.#3-@bidi@aliasname\endcsname{#2}%
6766 }
6767 \newcommand*{\bidi@ReplacePackage}[2]{%
6768 \@bidi@replacefilewithtext{#1}{#2}\@pkgextension
6769 }
6770 \newcommand*{\bidi@ReplaceClass}[2]{%
6771 \@bidi@replacefilewithtext{#1}{#2}\@clsextension
6772 }
6773 \newcommand*{\@bidi@unreplacefilewithtext}[2]{%
6774 \ifcsname #1.#2-@bidi@aliasname\endcsname
6775 \expandafter\let\csname #1.#2-@bidi@aliasname\endcsname\relax
6776 \fi
6777 }
6778 \newcommand*{\bidi@UnReplacePackage}[1]{%
6779 \@bidi@unreplacefilewithtext{#1}\@pkgextension
6780 }
6781 \newcommand*{\bidi@UnReplaceClass}[1]{%
6782 \@bidi@unreplacefilewithtext{#1}\@clsextension
6783 }
6784 \newcommand*{\bidi@replacefile@msg}[2]{%
6785 \PackageInfo{biditools}{inputting `#1' instead of `#2'}%
6786 }
6787
6788 \newcommand*{\bidi@load@hook}[2]{%
6789 \@ifundefined{#2-@#1}{-}{%
6790 \@nameuse{#2-@#1}%
6791 \expandafter\let\csname #2-@#1\endcsname=\relax}}
6792 \newcommand*{\bidi@set@load@hook}[2]{%
6793 \@ifundefined{#2-@#1}{\@namedef{#2-@#1}{-}}{%
6794 \expandafter\g@addto@macro\csname #2-@#1\endcsname}
6795 \newcommand*{\bidi@BeforeFile}{\bidi@set@load@hook{before}}
6796 \newcommand*{\bidi@AfterFile}{\bidi@set@load@hook{after}}
6797 \newcommand*{\bidi@BeforeClass}[1]{%
6798 \bidi@set@load@hook{before}{#1.\@clsextension}}
6799 \newcommand*{\bidi@AfterClass}{%
6800 \@ifstar {\@s@bidi@AfterClass}{%
6801 \@ifnextchar +\@@bidi@AfterClass{%
6802 \@ifnextchar !\@@@bidi@AfterClass\bidi@AfterClass
6803 }%
6804 }%
6805 }
6806
6807 \newcommand*{\@@@bidi@AfterClass}[2]{%
6808 \begingroup\ifx\csname #2.\@clsextension-h@k\endcsname\relax
6809 \aftergroup\@s@bidi@AfterClass
6810 \else
6811 \aftergroup\bidi@AfterAtEndOfClass
6812 \fi

```



```

6813 \endgroup{#2}%
6814 }
6815
6816 \newcommand*\@bidi@AfterAtEndOfClass}[1]{%
6817 \bidi@set@load@hook{lateafter}{#1.\@clsextension}}
6818 \newcommand*\@@bidi@AfterClass}[2]{%
6819 \beginingroup
6820 \expandafter\ifx\csname #2.\@clsextension-h@@k\endcsname\relax
6821 \aftergroup\@s@bidi@AfterClass
6822 \else
6823 \aftergroup\@bidi@AfterClass
6824 \fi
6825 \endgroup{#2}%
6826 }
6827
6828 \newcommand*\@bidi@AfterClass}[1]{%
6829 \bidi@set@load@hook{after}{#1.\@clsextension}}
6830 \newcommand*\@s@bidi@AfterClass}[1]{%
6831 \beginingroup
6832 \@ifclassloaded{#1}{%
6833 \aftergroup\@secondoftwo
6834 }{%
6835 \aftergroup\@bidi@AfterClass
6836 }%
6837 \endgroup
6838 {#1}%
6839 }
6840
6841
6842 \newcommand*\@bidi@BeforePackage}[1]{%
6843 \bidi@set@load@hook{before}{#1.\@pkgextension}}
6844 \newcommand*\@bidi@AfterPackage}{%
6845 \@ifstar {\@s@bidi@AfterPackage}{%
6846 \@ifnextchar +\@@bidi@AfterPackage{%
6847 \@ifnextchar !\@@@bidi@AfterPackage\@bidi@AfterPackage
6848 }%
6849 }%
6850 }
6851 \newcommand*\@@@bidi@AfterPackage}[2]{%
6852 \beginingroup\ifx\csname #2.\@pkgextension-h@@k\endcsname\relax
6853 \aftergroup\@s@bidi@AfterPackage
6854 \else
6855 \aftergroup\bidi@AfterAtEndOfPackage
6856 \fi
6857 \endgroup{#2}%
6858 }
6859 \newcommand*\@bidi@AfterAtEndOfPackage}[1]{%
6860 \bidi@set@load@hook{lateafter}{#1.\@pkgextension}}
6861 \newcommand*\@@bidi@AfterPackage}[2]{%
6862 \beginingroup
6863 \expandafter\ifx\csname #2.\@pkgextension-h@@k\endcsname\relax
6864 \aftergroup\@s@bidi@AfterPackage
6865 \else
6866 \aftergroup\@bidi@AfterPackage

```



```

6867 \fi
6868 \endgroup{#2}%
6869 }
6870 \newcommand*{\@bidi@AfterPackage}[1]{%
6871 \bidi@set@load@hook{after}{#1.\@pkgextension}}
6872 \newcommand*{\@s@bidi@AfterPackage}[1]{%
6873 \beginingroup
6874 \@ifpackageloaded{#1}{%
6875 \aftergroup\@secondoftwo
6876 }{%
6877 \aftergroup\@bidi@AfterPackage
6878 }%
6879 \endgroup
6880 {#1}%
6881 }
6882
6883 \newcommand*{\bidi@excludedpackages}{%
6884 \let\bidi@excludedpackages\@empty
6885 \newcommand*{\bidi@saved@RequirePackage}{%
6886 \newcommand*{\bidi@PreventPackageFromLoading}{%
6887 \@ifstar{\@bidi@PreventPackageFromLoading\PackageInfo}%
6888 {\@bidi@PreventPackageFromLoading\PackageWarning}%
6889 }
6890 \newcommand*{\@bidi@PreventPackageFromLoading}[1]{%
6891 \@ifnextchar [%]
6892 {\@bidi@PreventPackageFromLoading#1}{\@bidi@PreventPackageFromLoading#1[]}%
6893 }
6894 \newcommand*{\@bidi@PreventPackageFromLoading}{%
6895
6896 \def\@bidi@PreventPackageFromLoading#1[#2]#3{%
6897 \edef\reserved@b{\zap@space#3 \@empty}%
6898 \ifx \reserved@b\@empty
6899 #1{biditools}{%
6900 \string\bidi@PreventPackageFromLoading\space with empty packages\MessageBreak
6901 argument ignored%
6902 }%
6903 \else
6904 \ifx\bidi@excludedpackages\@empty
6905 \let\bidi@saved@RequirePackage\RequirePackage
6906 \let\RequirePackage\bidi@RequirePackage
6907 \def\reserved@a##1##{%
6908 \@latex@error
6909 {\noexpand \usepackage before \string\documentclass}%
6910 {\noexpand \usepackage may only appear in the document
6911 preamble, i.e.,\MessageBreak
6912 between \noexpand\documentclass and
6913 \string\begin{document}.}%
6914 \@gobble}%
6915 \ifx\reserved@a\usepackage\else
6916 \ifx\usepackage\bidi@saved@RequirePackage\else
6917 \PackageWarning{biditools}{%
6918 Maybe serious problem: unexpected definition of\MessageBreak
6919 \string\usepackage
6920 }%

```





```

6921     \fi
6922     \let\usepackage\RequirePackage
6923   \fi
6924 \fi
6925 \expandafter\@for \expandafter\reserved@a\expandafter:\expandafter=%
6926 \reserved@b\do {%
6927   \ifx\reserved@a\@empty
6928     #1{biditools}{%
6929     empty package argument for
6930     \string\bidiParamPreventPackageFromLoading\MessageBreak
6931     ignored%
6932   }%
6933 \else
6934   \expandafter\@ifpackageloaded\expandafter{\reserved@a}{%
6935     #1{biditools}{%
6936     package '\reserved@a' already loaded.\MessageBreak
6937     Cannot prevent it from being loaded%
6938   }%
6939 }{%
6940   \edef\bidiParamExcludedpackages{\bidiParamExcludedpackages,%
6941   \reserved@a}%
6942   \if\relax\detokenize{#2}\relax\else
6943     \@ifundefined{bidiParamExclude@package@\reserved@a @do}{%
6944     \@namedef{bidiParamExclude@package@\reserved@a @do}{}%
6945   }{%
6946     \expandafter\def
6947     \csname bidiParamExclude@package@\reserved@a
6948     @do\expandafter\expandafter\expandafter\endcsname
6949     \expandafter\expandafter\expandafter{%
6950     \csname bidiParamExclude@package@\reserved@a @do\endcsname
6951     #2%
6952   }%
6953 \fi
6954 }%
6955 \fi
6956 }%
6957 \ifx\bidiParamExcludedpackages\@empty
6958   \bidiParamResetPreventPackageFromLoading
6959 \fi
6960 \fi
6961 }
6962
6963 \@onlypreamble\bidiParamPreventPackageFromLoading
6964 \newcommand*{\bidiParamResetPreventPackageFromLoading}{%
6965   \let\bidiParamExcludedpackages\@empty
6966   \ifx\RequirePackage\bidiParamRequirePackage
6967     \ifx\usepackage\RequirePackage
6968       \let\usepackage\bidiParamSaved@RequirePackage
6969     \fi
6970   \let\RequirePackage\bidiParamSaved@RequirePackage
6971   \fi
6972 }
6973 \@onlypreamble\bidiParamResetPreventPackageFromLoading
6974 \newcommand*{\bidiParamStorePreventPackageFromLoading}[1]{%

```



```

6975 \let#1\bidixexcludedpackages
6976 }
6977 \@onlypreamble\bidixStorePreventPackageFromLoading
6978 \newcommand*{\bidixUnPreventPackageFromLoading}{%
6979 \ifstar {\@tempswatrue\bidixUnPreventPackageFromLoading}%
6980          {\@tempswafalse\bidixUnPreventPackageFromLoading}%
6981 }
6982
6983 \newcommand*{\@bidixUnPreventPackageFromLoading}[1]{%
6984 \edef\reserved@b{\zap@space#1 \@empty}%
6985 \if@tempswa
6986 \for\reserved@a:=\reserved@b\do {%
6987 \ifx\reserved@a\@empty \else
6988 \ifcsname bidixexclude@package@\reserved@a @do\endcsname
6989 \expandafter\let
6990 \csname bidixexclude@package@\reserved@a @do\endcsname
6991 \undefined
6992 \fi
6993 \fi
6994 }%
6995 \fi
6996 \ifcsname bidixexcludedpackages\endcsname
6997 \let\reserved@a\bidixexcludedpackages
6998 \let\bidixexcludedpackages\@empty
6999 \expandafter\for\expandafter\reserved@c
7000 \expandafter:\expandafter=\reserved@a
7001 \do{%
7002 \ifx\reserved@c\@empty\else
7003 \expandtwoargs\in@{,\reserved@c,}{,\reserved@b,}%
7004 \ifin@
7005 \else
7006 \edef\bidixexcludedpackages{%
7007 \bidixexcludedpackages,\reserved@c
7008 }%
7009 \fi
7010 \fi
7011 }%
7012 \ifx\bidixexcludedpackages\@empty\bidixResetPreventPackageFromLoading\fi
7013 \fi
7014 }
7015
7016
7017 \newcommand*{\bidixRequirePackage}[2][ ]{%
7018 \let\reserved@c\@empty
7019 \let\reserved@d\@empty
7020 \edef\reserved@b{\zap@space#2 \@empty}%
7021 \expandafter\for\expandafter\reserved@b\expandafter:\expandafter=\reserved@b
7022 \do {%
7023 \begingroup
7024 \@tempswatrue
7025 \for\reserved@a:=\bidixexcludedpackages\do {%
7026 \ifx\reserved@a\reserved@b
7027 \tempswafalse
7028 \fi

```



```

7029 }%
7030 \if@tempswa
7031 \xdef\reserved@c{\reserved@c,\reserved@b}%
7032 \else
7033 \ifx\reserved@b\@empty\else
7034 \PackageInfo{biditools}{Excluding package `\'reserved@b'\MessageBreak
7035 from loading}%
7036 \@ifundefined{bidi@exclude@package@\reserved@b @do}{%
7037 }{%
7038 \expandafter\g@addto@macro\expandafter\reserved@d
7039 \csname bidi@exclude@package@\reserved@b @do\endcsname
7040 }%
7041 \fi
7042 \fi
7043 \endgroup
7044 }%
7045 \ifx\reserved@c\@empty
7046 \let\reserved@a\bidi@gobbleopt
7047 \else
7048 \edef\reserved@a{\noexpand\bidi@saved@RequirePackage[#1]{%
7049 \expandafter\@gobble\reserved@c\@empty}}%
7050 \fi
7051 \expandafter\reserved@d
7052 \reserved@a
7053 }
7054
7055 \newcommand{\bidi@gobbleopt}[1][]{ }
7056 \AtEndDocument{%
7057 \let\bidi@saved@checkend=\@checkend
7058 \renewcommand*{\@checkend}[1]{%
7059 \def\reserved@a{#1}\def\reserved@b{document}%
7060 \bidi@saved@checkend{#1}%
7061 \ifx\reserved@a\reserved@b
7062 \let\bidi@saved@clearpage=\clearpage
7063 \renewcommand*{\clearpage}{\bidi@saved@clearpage
7064 \bidi@hook@bcma
7065 \bidi@restore@newpage
7066 \let\clearpage=\bidi@saved@clearpage}%
7067 \fi%
7068 \let\bidi@saved@dofilelist\@dofilelist
7069 \def\@dofilelist{%
7070 \bidi@hook@acma
7071 \let\@dofilelist\bidi@saved@dofilelist
7072 \bidi@saved@dofilelist
7073 }%
7074 }%
7075 }
7076
7077
7078 \newcommand*{\bidi@saved@checkend}{}
7079 \newcommand*{\bidi@saved@dofilelist}{}
7080 \newcommand*{\bidi@redefine@newpage}{%
7081 \let\bidi@saved@newpage\newpage
7082 \def\bidi@restore@newpage{%

```



```

7083 \renewcommand*{\newpage}{%
7084 \PackageWarningNoLine{%
7085     biditools%
7086 }{%
7087     \string\newpage\space at main aux file!\MessageBreak
7088     You have output material at the main aux file.\MessageBreak
7089     Note, that the \string\bid@BeforeClosingMainAux\space commands\MessageBreak
7090     are processed before the output from aux file%
7091 }%
7092 \let\newpage\bid@saved@newpage
7093 \newpage
7094 }%
7095 }%
7096 \renewcommand*{\newpage}{%
7097 \PackageError{%
7098     biditools%
7099 }{%
7100     \string\newpage\space at \string\bid@BeforeClosingMainAux
7101 }{%
7102     You should never use \string\newpage\space or
7103     \string\clear(double)page or other output material at the\MessageBreak
7104     argument of \string\bid@BeforeClosingMainAux!\MessageBreak
7105     If you'll continue, the \string\newpage\space will be ignored to
7106     avoid corruption of\MessageBreak
7107     every prior use of \string\bid@BeforeClosingMainAux.
7108 }%
7109 }%
7110 }
7111
7112 \newcommand*{\bid@restore@newpage}{%
7113 \newcommand*{\bid@hook@bcma}{%
7114 \newcommand*{\bid@hook@acma}{%
7115 \newcommand*{\bid@BeforeClosingMainAux}{%
7116     \ifx\bid@hook@bcma\@empty
7117     \gdef\bid@hook@bcma{%
7118         \renewcommand*{\bid@BeforeClosingMainAux}[1]{###1}%
7119         \let\protected@write\bid@protected@immediate@write
7120         \bid@redefine@newpage
7121     }%
7122     \fi
7123     \g@addto@macro\bid@hook@bcma%
7124 }
7125
7126 \newcommand*{\bid@AfterReadingMainAux}{%
7127     \ifx\bid@hook@acma\@empty
7128     \gdef\bid@hook@acma{%
7129         \renewcommand*{\bid@AfterReadingMainAux}[1]{###1}%
7130         \let\protected@write\bid@protected@immediate@write
7131     }%
7132     \fi
7133     \g@addto@macro\bid@hook@acma%
7134 }
7135
7136 \long\def\bid@protected@immediate@write#1#2#3{%

```



```

7137 \begingroup
7138 #2%
7139 \let\protect\@unexpandable@protect
7140 \edef\reserved@a{\immediate\write#1{#3}}%
7141 \reserved@a
7142 \endgroup
7143 \if@nobreak\ifvmode\nobreak\fi\fi
7144 }
7145
7146 \def\@bidi@patch@counter{0}%
7147 \if@bidi@csundef{numexpr}{%
7148 \def\@bidi@patch@stepcounter{%
7149 \begingroup
7150 \count@\@bidi@patch@counter\relax
7151 \advance\count@\@ne\relax
7152 \edef\x{\endgroup
7153 \noexpand\def\noexpand\@bidi@patch@counter{\the\count@}%
7154 }%
7155 \x
7156 }%
7157 }{%
7158 \def\@bidi@patch@stepcounter{%
7159 \edef\@bidi@patch@counter{%
7160 \the\numexpr\@bidi@patch@counter+\@ne\relax
7161 }%
7162 }%
7163 }
7164 \def\@bidi@patch@list{}
7165 \def\@bidi@patch@Add{%
7166 \bidi@appto\@bidi@patch@list
7167 }
7168 \def\@bidi@patch@AfterPackage#1{%
7169 \@ifpackageloaded{#1}{%
7170 \@firstofone
7171 }{%
7172 \@bidi@patch@AfterPackage{#1}%
7173 }%
7174 }
7175 \def\@bidi@patch@AfterPackage#1{%
7176 \edef\@bidi@patch@temp{#1}%
7177 \bidi@patch@stepcounter
7178 \expandafter\@bidi@patch@@AfterPackage
7179 \csname @bidi@patch@\@bidi@patch@counter\expandafter\endcsname{%
7180 \@bidi@patch@temp
7181 }%
7182 }
7183 \def\@bidi@patch@@AfterPackage#1#2#3{%
7184 \begingroup
7185 \toks@{#3}%
7186 \xdef\@bidi@patch@gtemp{%
7187 \noexpand\@ifpackageloaded{#2}{%
7188 \noexpand\let\noexpand#1\noexpand\relax
7189 \the\toks@
7190 }{%

```



```

7191 }%
7192 \endgroup
7193 \let#1\bidipatch@gtemp
7194 \bidipatch@Add#1%
7195 \bidipatch@try{\bidipatch@AfterPackage}{#2}#1%
7196 }
7197
7198 \def\bidipatch@try#1#2#3{%
7199   \if@bidicsundef{#1}{}%
7200     \csname #1\endcsname{#2}{#3}%
7201   }%
7202 }
7203
7204 \AtBeginDocument{\bidipatch@list}
7205
7206 \bidipatch@AtEndPreamble{\bidipatch@list}%
7207
7208 \bidipatch@AfterEndPreamble{%
7209   \let\bidipatch@OrgIfPackageLoaded\ifpackageloaded
7210   \let\bidipatch@OrgIfPackageLater\ifpackagelater
7211   \let\bidipatch@OrgIfClassLoaded\ifclassloaded
7212   \let\bidipatch@OrgIfClassLater\ifclasslater
7213   \bidipatch@list
7214   \let\bidipatch@OrgIfPackageLoaded\ifpackageloaded
7215   \let\bidipatch@OrgIfPackageLater\ifpackagelater
7216   \let\bidipatch@OrgIfClassLoaded\ifclassloaded
7217   \let\bidipatch@OrgIfClassLater\ifclasslater
7218 }%

```

## 53 File `bidituftefloat.sty`

```

7219 \NeedsTeXFormat{LaTeX2e}
7220 \ProvidesPackage{bidituftefloat}[2017/05/19 v0.2
7221 bidi implementation of tufte float]
7222 \RequirePackage{xifthen}
7223 \newcommand{\@bidituftefloat@pkgname}{bidituftefloat}
7224 \newcommand{\bidituftefloatError}[2]{\PackageError{\@bidituftefloat@pkgname}{#1}{#2}}
7225 \newcommand{\bidituftefloatDebugInfoNL}[1]{\ifthenelse{\boolean{\@bidituftefloat@debug}}{\bi
7226 \newcommand{\bidituftefloatInfoNL}[1]{\PackageInfo{\@bidituftefloat@pkgname}{#1\gobble}}
7227 \newboolean{\@bidituftefloat@reversegeometry}
7228 \setboolean{\@bidituftefloat@reversegeometry}{false}
7229 \DeclareOption{reversegeometry}{\setboolean{\@bidituftefloat@reversegeometry}{true}}
7230 \newboolean{\@bidituftefloat@a4paper}
7231 \DeclareOption{a4paper}{\setboolean{\@bidituftefloat@a4paper}{true}}
7232 \newboolean{\@bidituftefloat@b5paper}
7233 \DeclareOption{b5paper}{\setboolean{\@bidituftefloat@b5paper}{true}}
7234 \newboolean{\@bidituftefloat@symmetric}
7235 \newboolean{\@bidituftefloat@twoside}
7236 \DeclareOption{twoside}{%
7237   \@twoside>true \mparswitchtrue%
7238   \setboolean{\@bidituftefloat@twoside}{true}%
7239   \setboolean{\@bidituftefloat@symmetric}{true}%
7240 }
7241 \DeclareOption{oneside}{%

```



```

7242 \@twosidefalse \@mparswitchfalse%
7243 \setboolean{@biditytfloat@twoside}{false}%
7244 \setboolean{@biditytfloat@symmetric}{false}%
7245 }
7246 \@ifclassloaded{book}{\ExecuteOptions{twoside}}{}
7247 \newboolean{@biditytfloat@debug}
7248 \newcommand*{\@biditytfloat@caption@justification}{\@biditytfloat@justification@autodet
7249 \ProcessOptions
7250 %% Globally sets the length
7251 \newcommand*{\gsetlength}[2]{%
7252   \setlength{#1}{#2}%
7253   \global#1=#1\relax%
7254 }
7255
7256 %% Set the font sizes and baselines to match biditytfloat's books
7257 \renewcommand\normalsize{%
7258   \@setfontsize\normalsize\@xpt{14}%
7259   \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
7260   \abovedisplayshortskip \z@ \@plus3\p@
7261   \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
7262   \belowdisplayskip \abovedisplayskip
7263   \let\@listi\@listI}
7264 \normalbaselineskip=14pt
7265 \normalsize
7266 \renewcommand\footnotesize{%
7267   \@setfontsize\footnotesize\@viipt{10}%
7268   \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
7269   \abovedisplayshortskip \z@ \@plus\p@
7270   \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
7271   \def\@listi{\leftmargin\leftmarginI
7272     \topsep 3\p@ \@plus\p@ \@minus\p@
7273     \parsep 2\p@ \@plus\p@ \@minus\p@
7274     \itemsep \parsep}%
7275   \belowdisplayskip \abovedisplayskip
7276 }
7277 %% Paragraph indentation and separation for marginal text
7278 \newcommand{\@biditytfloat@margin@par}{%
7279   \setlength{\RaggedRightParindent}{0.5pc}%
7280   \setlength{\JustifyingParindent}{0.5pc}%
7281   \setlength{\parindent}{0.5pc}%
7282   \setlength{\parskip}{0pt}%
7283 }
7284 \RequirePackage{ragged2e}
7285 \ifthenelse{\boolean{@biditytfloat@reversegeometry}}{%
7286 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginp
7287 \ifthenelse{\boolean{@biditytfloat@a4paper}}{
7288   {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginp
7289   }}
7290 \ifthenelse{\boolean{@biditytfloat@b5paper}}{
7291   {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66m
7292   }}{}%
7293 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpa
7294 \ifthenelse{\boolean{@biditytfloat@a4paper}}{
7295   {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpa

```



```

7296 {}
7297 \ifthenelse{\boolean{@bidituftefloat@bfivepaper}}
7298 {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm}
7299 {}
7300 \ifthenelse{\boolean{@bidituftefloat@symmetric}}
7301 {}
7302 {\geometry{asymmetric}}% forces internal LaTeX `twoside'
7303 \setlength\marginparpush{10pt}
7304 %% Font for margin items
7305 \newcommand{\@bidituftefloat@marginfont}{\normalfont\footnotesize}
7306 \newcommand*{\@bidituftefloat@caption@font}{\@bidituftefloat@marginfont}
7307 \newcommand*{\setcaptionfont}[1]{\renewcommand*{\@bidituftefloat@caption@font}{#1}}
7308 \newcommand{\@bidituftefloat@justification}{\justifying}%
7309 \setlength\abovedisplayskip{6pt plus 2pt minus 4pt}
7310 \setlength\belowdisplayskip{6pt plus 2pt minus 4pt}
7311 \newboolean{@bidituftefloat@changepage}
7312 \IfFileExists{changepage.sty}{%
7313 \bidituftefloatDebugInfoNL{Found changepage.sty}
7314 \RequirePackage[strict]{changepage}
7315 \setboolean{@bidituftefloat@changepage}{true}
7316 }{%
7317 \bidituftefloatDebugInfoNL{Found chngpage.sty}
7318 \RequirePackage[strict]{chngpage}
7319 \setboolean{@bidituftefloat@changepage}{false}
7320 }
7321 \newboolean{@bidituftefloat@odd@page}
7322 \setboolean{@bidituftefloat@odd@page}{true}
7323 \newcommand*{\@bidituftefloat@checkoddpage}{%
7324 \checkoddpage%
7325 \ifthenelse{\boolean{@bidituftefloat@changepage}}{%
7326 \ifoddpage%
7327 \setboolean{@bidituftefloat@odd@page}{true}%
7328 \else%
7329 \setboolean{@bidituftefloat@odd@page}{false}%
7330 \fi%
7331 }{%
7332 \ifcpoddpage%
7333 \setboolean{@bidituftefloat@odd@page}{true}%
7334 \else%
7335 \setboolean{@bidituftefloat@odd@page}{false}%
7336 \fi%
7337 }%
7338 }
7339 \newlength{\@bidituftefloat@overhang}% used by the fullwidth environment and the running head
7340 \newlength{\@bidituftefloat@fullwidth}
7341 \newlength{\@bidituftefloat@caption@fill}
7342 \newcommand{\bidituftefloatRecalculate}{%
7343 \setlength{\@bidituftefloat@overhang}{\marginparwidth}
7344 \addtolength{\@bidituftefloat@overhang}{\marginparsep}
7345
7346 \setlength{\@bidituftefloat@fullwidth}{\textwidth}
7347 \addtolength{\@bidituftefloat@fullwidth}{\marginparsep}
7348 \addtolength{\@bidituftefloat@fullwidth}{\marginparwidth}
7349

```





```

7350 \setlength{\@biditytfloat@caption@fill}{\textwidth}
7351 \addtolength{\@biditytfloat@caption@fill}{\marginparsep}
7352 }
7353 \AtBeginDocument{\biditytfloatRecalculate}
7354 \RequirePackage{optparams}% provides multiple optional arguments for commands
7355 \RequirePackage{placeins}
7356 \newsavebox{\@biditytfloat@margin@floatbox}
7357 \newenvironment{\@biditytfloat@margin@float}[2][-1.2ex]%
7358 {\FloatBarrier% process all floats before this point so the figure/table numbers stay in
7359 \begin{lrbox}{\@biditytfloat@margin@floatbox}%
7360 \begin{minipage}{\marginparwidth}%
7361 \@biditytfloat@caption@font%
7362 \def\@capttype{#2}%
7363 \hbox{\vspace*{#1}%
7364 \@biditytfloat@caption@justification%
7365 \@biditytfloat@margin@par%
7366 \noindent%
7367 }
7368 {\end{minipage}%
7369 \end{lrbox}%
7370 \marginpar{\usebox{\@biditytfloat@margin@floatbox}}}%
7371 }
7372 \newenvironment{marginfigure}[1][-1.2ex]%
7373 {\begin{\@biditytfloat@margin@float}[#1]{figure}}
7374 {\end{\@biditytfloat@margin@float}}
7375 \newenvironment{marginfigure}[1][-1.2ex]%
7376 {\begin{\@biditytfloat@margin@float}[#1]{table}}
7377 {\end{\@biditytfloat@margin@float}}
7378 \newcommand*\@biditytfloat@justification@autodetect{\justifying}%
7379
7380 \newcommand{\@biditytfloat@float@debug@info}{}% contains debug info generated as the float
7381 \newcommand{\@biditytfloat@float@debug}[1]{% adds debug info to the queue for output
7382 \ifthenelse{equal{\@biditytfloat@float@debug@info}{}}%
7383 {\def\@biditytfloat@float@debug@info{#1}}%
7384 {\g@addto@macro\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7385 }
7386 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
7387 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@biditytfloat@float@deb
7388 \newboolean{\@biditytfloat@float@recto}
7389 \newcommand{\forcerectofloat}{\GlobalSetBoolean{\@biditytfloat@float@recto}{true}\@bidityt
7390 \newcommand{\forceversofloat}{\GlobalSetBoolean{\@biditytfloat@float@recto}{false}\@bidityt
7391 \newsavebox{\@biditytfloat@figure@box}
7392 \newsavebox{\@biditytfloat@caption@box}
7393 \let\@biditytfloat@orig@float\@float
7394 \let\@biditytfloat@orig@endfloat\endfloat
7395 \newlength{\@biditytfloat@caption@vertical@offset}
7396 \setlength{\@biditytfloat@caption@vertical@offset}{0pt}
7397 \newcommand{\@biditytfloat@stored@shortcaption}{%
7398 \newcommand{\@biditytfloat@stored@caption}{%
7399 \newcommand{\@biditytfloat@stored@label}{%
7400 \long\def\@biditytfloat@caption[#1][#2]#3{%
7401 \ifthenelse{isempty{#1}}%
7402 {\gdef\@biditytfloat@stored@shortcaption{#3}}%
7403 {\gdef\@biditytfloat@stored@shortcaption{#1}}%

```



```

7404 \gsetlength{\@biditytfloat@caption@vertical@offset}{-#2}% we want a positive offset to
7405 \gdef\@biditytfloat@stored@caption{#3}%
7406 }
7407 \newcommand{\@biditytfloat@label}[1]{%
7408 \gdef\@biditytfloat@stored@label{#1}%
7409 }
7410 \newcommand{\@biditytfloat@fps}{}
7411 \newboolean{\@biditytfloat@float@star}
7412 \newlength{\@biditytfloat@float@contents@width}
7413 \newenvironment{\@biditytfloat@float}[3][htbp]%
7414 {% begin \@biditytfloat@float
7415 % Should this float be full-width or just text-width?
7416 \ifthenelse{\equal{#3}{star}}%
7417 {\GlobalSetBoolean{\@biditytfloat@float@star}{true}}%
7418 {\GlobalSetBoolean{\@biditytfloat@float@star}{false}}%
7419 % Check page side (recto/verso) and store detected value -- can be overridden in environ
7420 \@biditytfloat@checkoddpage%
7421 \ifthenelse{\boolean{\@biditytfloat@odd@page}}%
7422 {\GlobalSetBoolean{\@biditytfloat@float@recto}{true}}\@biditytfloat@float@debug{Det
7423 {\GlobalSetBoolean{\@biditytfloat@float@recto}{false}}\@biditytfloat@float@debug{De
7424 % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-page
7425 \renewcommand{\@biditytfloat@fps}{#1}%
7426 \@biditytfloat@float@debug{Allowed positions: [ #1 ]}%
7427 \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}%
7428 {\renewcommand{\floatalignment}{b}}\@biditytfloat@float@debug{Presumed position: [bo
7429 {\renewcommand{\floatalignment}{t}}\@biditytfloat@float@debug{Presumed position: [to
7430 % Capture the contents of the \caption and \label commands to use later
7431 \global\let\@biditytfloat@orig@caption\caption%
7432 \global\let\@biditytfloat@orig@label\label%
7433 \renewcommand{\caption}{\optparams{\@biditytfloat@caption}{[] [0pt]}}%
7434 \renewcommand{\label}[1]{\@biditytfloat@label{##1}}%
7435 % Handle subfigure package compatibility
7436 \ifthenelse{\boolean{\@biditytfloat@packages@subfigure}}{%
7437 \bidi@patchcmd{\subfigure}{%
7438 \let\subfig@oldlabel=\label
7439 }{%
7440 \let\subfig@oldlabel=\@biditytfloat@orig@label
7441 }
7442 {}
7443 {}
7444 \let\subtable=\subfigure
7445 }{% subfigure package is not loaded
7446 \@biditytfloat@orig@float{#2}[#1]%
7447 \ifthenelse{\boolean{\@biditytfloat@float@star}}%
7448 {\setlength{\@biditytfloat@float@contents@width}{\@biditytfloat@fullwidth}}%
7449 {\setlength{\@biditytfloat@float@contents@width}{\textwidth}}%
7450 \begin{lrbox}{\@biditytfloat@figure@box}%
7451 \begin{minipage}[\floatalignment]{\@biditytfloat@float@contents@width}\hbox{%
7452 }{% end \@biditytfloat@float
7453 \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{}%
7454 \end{minipage}%
7455 \end{lrbox}%
7456 % build the caption box
7457 \begin{lrbox}{\@biditytfloat@caption@box}%

```



```

7458 \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
7459 \ifthenelse{\NOT\equal{\@biditytfloat@stored@caption}{}}{\@biditytfloat@orig@ca
7460 \ifthenelse{\NOT\equal{\@biditytfloat@stored@label}{}}{\@biditytfloat@orig@labe
7461 \par\vspace{-\prevdepth}}%% TODO: DOUBLE-CHECK FOR SAFETY
7462 \end{minipage}%
7463 \end{lrbox}%
7464 % now typeset the stored boxes
7465 \begin{fullwidth}%
7466 \begin{minipage}[\floatalignment]{\linewidth}%
7467 \ifthenelse{\boolean{\@biditytfloat@float@star}}%
7468 {\@biditytfloat@float@fullwidth[\@biditytfloat@caption@vertical@offset]{\@bid
7469 {\@biditytfloat@float@textwidth[\@biditytfloat@caption@vertical@offset]{\@bid
7470 \end{minipage}%
7471 \end{fullwidth}%
7472 \@biditytfloat@orig@endfloat% end original LaTeX float environment
7473 % output debug info
7474 \ifthenelse{\boolean{\@biditytfloat@debug}}{%
7475 \typeout{^^J^^J----- biditytfloat package float information -----}%
7476 \ifthenelse{\equal{\@biditytfloat@stored@label}{}}%
7477 {\typeout{Warning: Float unlabeled!}}%
7478 {\typeout{Float label: [\@biditytfloat@stored@label]}}%
7479 \typeout{Page number: [\thepage]}%
7480 \def\MessageBreak{^^J}%
7481 \typeout{\@biditytfloat@float@debug@info}%
7482 \ifthenelse{\boolean{\@biditytfloat@symmetric}}%
7483 {\typeout{Symmetric: [true]}}%
7484 {\typeout{Symmetric: [false]}}%
7485 \typeout{-----^^J^^J}%
7486 }}%
7487 % reset commands and temp boxes and captions
7488 \gdef\@biditytfloat@float@debug@info{%
7489 \let\caption\@biditytfloat@orig@caption%
7490 \let\label\@biditytfloat@orig@label%
7491 \begin{lrbox}{\@biditytfloat@figure@box}\hbox{}\end{lrbox}%
7492 \begin{lrbox}{\@biditytfloat@caption@box}\hbox{}\end{lrbox}%
7493 \gdef\@biditytfloat@stored@shortcaption{%
7494 \gdef\@biditytfloat@stored@caption{%
7495 \gdef\@biditytfloat@stored@label{%
7496 \gsetlength{\@biditytfloat@caption@vertical@offset}{0pt}% reset caption offset
7497 }
7498 \newcommand{\@biditytfloat@float@textwidth}[3][0pt]{%
7499 \ifthenelse{\NOT\boolean{\@biditytfloat@symmetric}}\OR\boolean{\@biditytfloat@float@rect
7500 % asymmetric or page is odd, so caption is on the right
7501 \hbox{%
7502 \usebox{#2}%
7503 \hspace{\marginparsep}%
7504 \smash{\raisebox{#1}{\usebox{#3}}}%
7505 }
7506 \@biditytfloat@float@debug{Caption position: [right]}%
7507 }{% symmetric pages and page is even, so caption is on the left
7508 \hbox{%
7509 \smash{\raisebox{#1}{\usebox{#3}}}%
7510 \hspace{\marginparsep}%
7511 \usebox{#2}%

```



```

7512 }
7513 \@biditytfloat@float@debug{Caption position: [left]]%
7514 }%
7515 }
7516 \newcommand{\@biditytfloat@float@fullwidth}[3][Opt]{%
7517 \ifthenelse{\equal{\floatalignment}{b}}{%
7518 {% place caption above figure
7519 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@
7520 {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@biditytfloat@float@debu
7521 {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@biditytfloat@float@debu
7522 }{% place caption below figure
7523 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@
7524 {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@biditytfloat@float@debu
7525 {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@biditytfloat@float@debu
7526 }%
7527 }
7528 \renewenvironment{figure}[1][htbp]{%
7529 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{}}
7530 {\end{@biditytfloat@float}}
7531 \renewenvironment{table}[1][htbp]
7532 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{}}
7533 {\end{@biditytfloat@float}}
7534 \renewenvironment{figure*}[1][htbp]{%
7535 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{star}}
7536 {\end{@biditytfloat@float}}
7537 \renewenvironment{table*}[1][htbp]{%
7538 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{star}}
7539 {\end{@biditytfloat@float}}
7540 \newenvironment{fullwidth}
7541 {\ifthenelse{\boolean{@biditytfloat@symmetric}}{%
7542 {\ifthenelse{\boolean{@biditytfloat@changepage}}{\begin{adjustwidth*}{- \@biditytfloat@
7543 {\begin{adjustwidth}{- \@biditytfloat@overhang}}}%
7544 }%
7545 {\ifthenelse{\boolean{@biditytfloat@symmetric}}{%
7546 {\ifthenelse{\boolean{@biditytfloat@changepage}}{\end{adjustwidth*}}{\end{adjustwidth
7547 {\end{adjustwidth}}}%
7548 }
7549 \long\def\@caption#1[#2]#3{%
7550 \par%
7551 \addcontentsline{\csname ext@#1\endcsname}{#1}%
7552 {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
7553 \begingroup%
7554 \@parboxrestore%
7555 \if@minipage%
7556 \@setminipage%
7557 \fi%
7558 \@biditytfloat@caption@font\@biditytfloat@caption@justification%
7559 \noindent\csname fnum#1\endcsname: \ignorespaces#3\par%
7560 %\@makecaption{\csname fnum#1\endcsname}{\ignorespaces #3}\par
7561 \endgroup}
7562 %%
7563 % Turns newlines into spaces. Based on code from the `titlesec' package.
7564 \DeclareRobustCommand{\@biditytheheading@newlinetospace}{%
7565 \@ifstar{\@biditytheheading@newlinetospace@i}{\@biditytheheading@newlinetospace@i}%

```



```

7566 }
7567 \def\@bidityfteheading@newlinetospace@i{%
7568   \ifdim\lastskip>\z@ \else \space \fi
7569   \ignorespaces%
7570 }
7571 \DeclareRobustCommand{\newlinetospace}[1]{%
7572   \let\@bidityfteheading@orig@cr\% save the original meaning of \
7573   \def\{\@bidityfteheading@newlinetospace}% turn \ and \* into \space
7574   \let\newline\% turn \newline into \space
7575   #1%
7576   \let\{\@bidityfteheading@orig@cr% revert to original meaning of \
7577 }
7578 \RequirePackage{fancyhdr}
7579 \pagestyle{fancy}
7580 \AtBeginDocument{%
7581   \ifthenelse{\boolean{@bidityftefloat@symmetric}}{
7582     {\fancyhfoffset[LE,RO]{\@bidityftefloat@overhang}}{
7583     {\fancyhfoffset[RE,RO]{\@bidityftefloat@overhang}}
7584 }
7585 % The running heads/feet don't have rules
7586 \renewcommand{\headrulewidth}{0pt}
7587 \renewcommand{\footrulewidth}{0pt}
7588 % The 'fancy' page style is the default style for all pages.
7589 \fancyhf{} % clear header and footer fields
7590   \ifthenelse{\boolean{@bidityftefloat@symmetric}}{
7591     {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
7592     {\fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7593     {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7594 % The 'plain' page style is used on chapter opening pages.
7595 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
7596 % bottom of pages -- the folios are unexpressed.
7597 \fancypagestyle{plain}{
7598   \fancyhf{} % clear header and footer fields
7599   % Uncomment the following five lines of code if you want the opening page
7600   % of the chapter to express the folio in the lower outside corner.
7601   % \ifthenelse{\boolean{@bidityftefloat@symmetric}}{
7602   %   {\fancyfoot[LE,RO]{\thepage}}{
7603   %   {\fancyfoot[RE,RO]{\thepage}}
7604 }
7605 % The 'empty' page style suppresses all headers and footers.
7606 % It's used on title pages and 'intentionally blank' pages.
7607 \fancypagestyle{empty}{
7608   \fancyhf{} % clear header and footer fields
7609 }
7610 \def\morefloats{% provides a total of 52 floats
7611   \ifthenelse{\isundefined{\bx@S}}{%
7612     \bidityftefloatDebugInfoNL{Adding 34 more float slots.}
7613     \newinsert\bx@S
7614     \newinsert\bx@T
7615     \newinsert\bx@U
7616     \newinsert\bx@V
7617     \newinsert\bx@W
7618     \newinsert\bx@X
7619     \newinsert\bx@Y

```



```

7620 \newinsert\bx@Z
7621 \newinsert\bx@a
7622 \newinsert\bx@b
7623 \newinsert\bx@c
7624 \newinsert\bx@d
7625 \newinsert\bx@e
7626 \newinsert\bx@f
7627 \newinsert\bx@g
7628 \newinsert\bx@h
7629 \newinsert\bx@i
7630 \newinsert\bx@j
7631 \newinsert\bx@k
7632 \newinsert\bx@l
7633 \newinsert\bx@m
7634 \newinsert\bx@n
7635 \newinsert\bx@o
7636 \newinsert\bx@p
7637 \newinsert\bx@q
7638 \newinsert\bx@r
7639 \newinsert\bx@s
7640 \newinsert\bx@t
7641 \newinsert\bx@u
7642 \newinsert\bx@v
7643 \newinsert\bx@w
7644 \newinsert\bx@x
7645 \newinsert\bx@y
7646 \newinsert\bx@z
7647 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7648 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7649 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7650 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7651 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7652 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7653 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7654 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7655 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7656 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7657 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7658 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%
7659 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
7660 \ifthenelse{\isundefined{\bx@AA}}{%
7661 \biditytfloatDebugInfoNL{Adding 26 more float slots.}
7662 \newinsert\bx@AA
7663 \newinsert\bx@BB
7664 \newinsert\bx@CC
7665 \newinsert\bx@DD
7666 \newinsert\bx@EE
7667 \newinsert\bx@FF
7668 \newinsert\bx@GG
7669 \newinsert\bx@HH
7670 \newinsert\bx@II
7671 \newinsert\bx@JJ
7672 \newinsert\bx@KK
7673 \newinsert\bx@LL

```



```

7674 \newinsert\bx@MM
7675 \newinsert\bx@NN
7676 \newinsert\bx@OO
7677 \newinsert\bx@PP
7678 \newinsert\bx@QQ
7679 \newinsert\bx@RR
7680 \newinsert\bx@SS
7681 \newinsert\bx@TT
7682 \newinsert\bx@UU
7683 \newinsert\bx@VV
7684 \newinsert\bx@WW
7685 \newinsert\bx@XX
7686 \newinsert\bx@YY
7687 \newinsert\bx@ZZ
7688 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7689 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7690 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7691 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7692 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7693 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7694 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7695 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7696 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7697 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7698 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7699 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
7700 \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE
7701 \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
7702 \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
7703 \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
7704 \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
7705 \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
7706 }{%
7707 \biditytfloatError{You may only call \string\morefloats\space twice. See the\Message
7708 {There are already 78 float slots allocated. Try using \string\FloatBarrier\space o
7709 }%
7710 }%
7711 }
7712 \newboolean{@biditytfloat@packages@subfigure}
7713 \setboolean{@biditytfloat@packages@subfigure}{false}
7714 \AtBeginDocument{%
7715 \@ifpackageloaded{subfigure}
7716 {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{true}}
7717 {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{false}}%
7718 }
7719 \AtBeginDocument{%
7720 \@ifpackageloaded{float}{%
7721 % Save the redefined float environment (instead of the LaTeX float environment)
7722 \let\@biditytfloat@orig@float\@float
7723 \let\@biditytfloat@orig@endfloat\end@float
7724
7725 % Define Tuftian float styles (with the caption in the margin)
7726 \newcommand{\floatc@biditytfloatplain}[2]{%
7727 \begin{lrbox}{\@biditytfloat@caption@box}%

```





```

7728     \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
7729         \@bituftefloat@caption@font{\@fs@cfont #1:} #2\par%
7730     \end{minipage}%
7731 \end{lrbox}%
7732 \smash{\hspace{\@bituftefloat@caption@fill}\usebox{\@bituftefloat@caption@box}}%
7733 }
7734 \newcommand{\fs@bituftefloatplain}{%
7735     \def\@fs@cfont{\@bituftefloat@caption@font}%
7736     \let\@fs@capt\floatc@bituftefloatplain%
7737     \def\@fs@pre{}%
7738     \def\@fs@post{}%
7739     \def\@fs@mid{}%
7740     \let\@fs@iftopcapt\iftrue%
7741 }
7742 \let\fs@bituftefloatplaintop=\fs@bituftefloatplain
7743 \let\floatc@bituftefloatplaintop=\floatc@bituftefloatplain
7744 \newcommand\floatc@bituftefloatruled[2]{%
7745     {\@fs@cfont #1} #2\par%
7746 }
7747 \newcommand\fs@bituftefloatruled{%
7748     \def\@fs@cfont{\@bituftefloat@caption@font}%
7749     \let\@fs@capt\floatc@bituftefloatplain%
7750     \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
7751     \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
7752     \def\@fs@mid{}%
7753     \let\@fs@iftopcapt\iftrue%
7754 }
7755 \newcommand\fs@bituftefloatboxed{%
7756     \def\@fs@cfont{}%
7757     \let\@fs@capt\floatc@bituftefloatplain%
7758     \def\@fs@pre{%
7759         \setbox\@currbox\vbox{\hbadness10000
7760         \moveleft3.4pt\vbox{\advance\hsize by6.8pt
7761             \hrule \hbox to\hsize{\vrule\kern3pt
7762                 \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
7763     }%
7764     \def\@fs@mid{\kern2pt}%
7765     \def\@fs@post{}%
7766     \let\@fs@iftopcapt\iftrue%
7767 }
7768 }{%
7769     % Nothing to do
7770 }
7771 }
7772 \AtBeginDocument{%
7773     \ifpackageloaded{algorithm}{%
7774         % Set the float style to the Tufteian version
7775         \ifthenelse{\equal{\ALG@floatstyle}{plain}\OR\equal{\ALG@floatstyle}{ruled}\OR\equal{\ALG@floatstyle}{boxed}}{
7776             \bituftefloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBreak
7777                 \floatstyle{bituftefloat\ALG@floatstyle}%
7778                 \restylefloat{algorithm}%
7779             }{}%
7780         }{%
7781             % Nothing to do

```





```

7782 }
7783 }
7784 \PassOptionsToPackage{caption=false}{subfig}

```

## 54 File `bidituftesidenote.sty`

```

7785 \NeedsTeXFormat{LaTeX2e}
7786 \ProvidesPackage{bidituftesidenote}[2017/08/09 v0.4
7787 bidi implementation of tuftesidenote]
7788 \RequirePackage{xifthen}
7789 \RequirePackage{ragged2e}
7790 \RequirePackage{setspace}
7791 \RequirePackage{biditools}
7792 \def\bidituftesidenotemarginpar{%
7793   \ifhmode
7794     \@bsphack
7795     \@floatpenalty -\@Mii
7796   \else
7797     \@floatpenalty-\@Miii
7798   \fi
7799   \ifinner
7800     \@parmoderr
7801     \@floatpenalty\z@
7802   \else
7803     \@next\@currbox\@freelist{}{}%
7804     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7805     {\@floatpenalty\z@
7806       \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7807   \fi
7808   \ifnextchar [\@bidituftesidenotexmpar\@bidituftesidenoteympar}
7809 \long\def\@bidituftesidenotexmpar[#1]#2{%
7810   \@bidituftesidenotesavemarbox\@marbox{#1}%
7811   \@bidituftesidenotesavemarbox\@currbox{#2}%
7812   \@xympar}
7813 \long\def\@bidituftesidenoteympar#1{%
7814   \@bidituftesidenotesavemarbox\@marbox{#1}%
7815   \global\setbox\@currbox\copy\@marbox
7816   \@xympar}
7817 \long\def \@bidituftesidenotesavemarbox #1#2{%
7818   \global\setbox #1%
7819     \color@vbox
7820     \vtop{%
7821       \hsize\marginparwidth
7822       \@parboxrestore
7823       \@bidituftesidenotemarginparreset
7824       #2%
7825       \@minipagefalse
7826       \outer@nobreak
7827     }%
7828   \color@endbox
7829 }
7830 \def \@bidituftesidenotemarginparreset {%
7831   \reset@font
7832   \normalsize

```



```

7833         \@minipagetrue
7834         \everypar{\@minipagefalse\everypar{}\if@RTL@footnote\beginR\else\beginL\fi}%
7835 }
7836 \def\LTRbidityftesidenotemarginpar{%
7837   \ifhmode
7838     \@bsphack
7839     \@floatpenalty -\@Mii
7840   \else
7841     \@floatpenalty-\@Miii
7842   \fi
7843   \ifinner
7844     \@parmoderr
7845     \@floatpenalty\z@
7846   \else
7847     \@next\@currbox\@freelist{}\fi}%
7848     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7849     {\@floatpenalty\z@
7850     \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
7851   \fi
7852   \@ifnextchar [\@LTRbidityftesidenotexmpar\@LTRbidityftesidenoteympar}
7853 \long\def\@LTRbidityftesidenotexmpar[#1]#2{%
7854   \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7855   \@LTRbidityftesidenotesavemarbox\@currbox{#2}%
7856   \@xympar}
7857 \long\def\@LTRbidityftesidenoteympar#1{%
7858   \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7859   \global\setbox\@currbox\copy\@marbox
7860   \@xympar}
7861 \long\def \@LTRbidityftesidenotesavemarbox #1#2{%
7862   \global\setbox #1%
7863   \color@vbox
7864   \vtop{%
7865     \hsize\marginparwidth
7866     \@parboxrestore
7867     \@LTRbidityftesidenotemarginparreset
7868     #2%
7869     \@minipagefalse
7870     \outer@nobreak
7871     }%
7872   \color@endbox
7873 }
7874 \def \@LTRbidityftesidenotemarginparreset {%
7875   \reset@font
7876   \normalsize
7877   \@minipagetrue
7878   \everypar{\@minipagefalse\everypar{}\beginL}%
7879 }
7880 \def\RTLbidityftesidenotemarginpar{%
7881   \ifhmode
7882     \@bsphack
7883     \@floatpenalty -\@Mii
7884   \else
7885     \@floatpenalty-\@Miii
7886   \fi

```



```

7887 \ifinner
7888 \@parmoderr
7889 \@floatpenalty\z@
7890 \else
7891 \@next\@currbox\@freelist{}{}%
7892 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7893 {\@floatpenalty\z@
7894 \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7895 \fi
7896 \@ifnextchar [\@RTLbidityftesidenotexmpar\@RTLbidityftesidenoteympar}
7897 \long\def\@RTLbidityftesidenotexmpar[#1]#2{%
7898 \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7899 \@RTLbidityftesidenotesavemarbox\@currbox{#2}%
7900 \@xympar}
7901 \long\def\@RTLbidityftesidenoteympar#1{%
7902 \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7903 \global\setbox\@currbox\copy\@marbox
7904 \@xympar}
7905 \long\def \@RTLbidityftesidenotesavemarbox #1#2{%
7906 \global\setbox #1%
7907 \color@vbox
7908 \vtop{%
7909 \hsize\marginparwidth
7910 \@parboxrestore
7911 \@RTLbidityftesidenotemarginparreset
7912 #2%
7913 \@minipagefalse
7914 \outer@nobreak
7915 }%
7916 \color@endbox
7917 }
7918 \def \@RTLbidityftesidenotemarginparreset {%
7919 \reset@font
7920 \normalsize
7921 \@minipagetrue
7922 \everypar{\@minipagefalse\everypar{}\beginR}%
7923 }
7924 \newcommand*\@bidityftesidenote@marginfont{\normalfont\footnotesize}
7925 \newcommand*\@bidityftesidenote@LTRmarginfont{\normalfont\footnotesize}
7926 \newcommand*\@bidityftesidenote@RTLmarginfont{\normalfont\footnotesize}
7927 \newcommand*\@bidityftesidenote@sidenote@font{\@bidityftesidenote@marginfont}
7928 \newcommand*\@bidityftesidenote@LTRsidenote@font{\@bidityftesidenote@LTRmarginfont}
7929 \newcommand*\@bidityftesidenote@RTLSidenote@font{\@bidityftesidenote@RTLmarginfont}
7930 \newcommand*\@bidityftesidenote@marginnote@font{\@bidityftesidenote@marginfont}
7931 \newcommand*\@bidityftesidenote@LTRmarginnote@font{\@bidityftesidenote@LTRmarginfont}
7932 \newcommand*\@bidityftesidenote@RTLmarginnote@font{\@bidityftesidenote@RTLmarginfont}
7933 \newcommand*\@bidityftesidenote@citation@font{\@bidityftesidenote@marginfont}
7934 \newcommand*\@bidityftesidenote@LTRcitation@font{\@bidityftesidenote@LTRmarginfont}
7935 \newcommand*\@bidityftesidenote@RTLCitation@font{\@bidityftesidenote@RTLmarginfont}
7936 \newcommand*\@setsidenote@font[1]{\renewcommand*\@bidityftesidenote@sidenote@font{#1}}
7937 \newcommand*\@setLTRsidenote@font[1]{\renewcommand*\@bidityftesidenote@LTRsidenote@font{#1}}
7938 \newcommand*\@setRTLSidenote@font[1]{\renewcommand*\@bidityftesidenote@RTLSidenote@font{#1}}
7939 \newcommand*\@setmarginnote@font[1]{\renewcommand*\@bidityftesidenote@marginnote@font{#1}}
7940 \newcommand*\@setLTRmarginnote@font[1]{\renewcommand*\@bidityftesidenote@LTRmarginnote@font{#1}}

```



```

7941 \newcommand*{\setRTLmarginnote@font}[1]{\renewcommand*{\@bituftesidenote@RTLmarginnote@font}[1]{\setRTLmarginnote@font}[1]}
7942 \newcommand*{\setcitationfont}[1]{\renewcommand*{\@bituftesidenote@citation@font}[1]{\setcitationfont}[1]}
7943 \newcommand*{\setLTRcitationfont}[1]{\renewcommand*{\@bituftesidenote@LTRcitation@font}[1]{\setLTRcitationfont}[1]}
7944 \newcommand*{\setRTLcitationfont}[1]{\renewcommand*{\@bituftesidenote@RTLcitation@font}[1]{\setRTLcitationfont}[1]}
7945 \newcommand*{\@bituftesidenote@sidenote@justification}{\@bituftesidenote@justification}
7946 \newcommand*{\@bituftesidenote@marginnote@justification}{\@bituftesidenote@justification}
7947 \newcommand*{\@bituftesidenote@citation@justification}{\@bituftesidenote@justification}
7948 \newcommand*{\@bituftesidenote@justification@autodetect}{\justifying}%
7949 \newcommand{\@bituftesidenote@margin@par}{%
7950   \setlength{\RaggedRightParindent}{0.5pc}%
7951   \setlength{\JustifyingParindent}{0.5pc}%
7952   \setlength{\parindent}{0.5pc}%
7953   \setlength{\parskip}{0pt}%
7954 }
7955 %%
7956 % Globally sets the length
7957 \@ifundefined{gsetlength}{%
7958 \newcommand*{\gsetlength}[2]{%
7959   \setlength{#1}{#2}%
7960   \global#1=#1\relax%
7961 }%
7962 }{}
7963
7964 %%
7965 % A function that removes leading and trailing spaces from the supplied macro.
7966 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
7967 % Executing \@bituftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy
7968 % being trimmed of leading and trailing white space.
7969 \catcode\Q=3
7970 \def\@bituftesidenote@trim@spaces#1{%
7971   % Use grouping to emulate a multi-token afterassignment queue
7972   \begingroup%
7973   % Put ``\toks 0 {' into the afterassignment queue
7974   \aftergroup\toks\aftergroup0\aftergroup{%
7975     % Apply \trimb to the replacement text of #1, adding a leading
7976     % \noexpand to prevent brace stripping and to serve another purpose
7977     % later.
7978     \expandafter\@bituftesidenote@trim@b\expandafter\noexpand#1\Q}%
7979   % Transfer the trimmed text back into #1.
7980   \edef#1{\the\toks0}%
7981 }
7982 % \trimb removes a trailing space if present, then calls \@bituftesidenote@trim@c to
7983 % clean up any leftover bizarre Qs, and trim a leading space. In
7984 % order for \trimc to work properly we need to put back a Q first.
7985 \def\@bituftesidenote@trim@b#1\Q{\@bituftesidenote@trim@c#1\Q}
7986 % Execute \vfuzz assignment to remove leading space; the \noexpand
7987 % will now prevent unwanted expansion of a macro or other expandable
7988 % token at the beginning of the trimmed text. The \endgroup will feed
7989 % in the \aftergroup tokens after the \vfuzz assignment is completed.
7990 \def\@bituftesidenote@trim@c#1\Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
7991 \catcode\Q=11
7992 %%
7993 % Citations should go in the margin as sidenotes
7994

```



```

7995 \RequirePackage{natbib}
7996 \RequirePackage{bibentry} % allows bibitems to be typeset outside the bibliography en
7997 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
7998 \renewcommand\BR@b@bibitem[2] []{%
7999   \ifthenelse{\isempty{#1}}{%
8000     {\BR@b@bibitem{#2}}%
8001     {\BR@b@bibitem{#1}{#2}}%
8002   \BR@c@bibitem{#2}%
8003 }
8004 \bidi@AtEndPreamble{\nobibliography*} % pre-loads the bibliography keys
8005 %%
8006 % Normal \cite behavior
8007 \newcounter{@bidityftesidenote@num@bibkeys}%
8008 \newcommand{@@bidityftesidenote@normal@cite}[2] [Opt]{%
8009   % Snag the last bibentry in the list for later comparison
8010   \let@temp@last@bibkey\@empty%
8011   \@for@temp@bibkey:=#2\do{\let@temp@last@bibkey\@temp@bibkey}%
8012   \sidenote[] [#1]{%
8013     % Loop through all the bibentries, separating them with semicolons and spaces
8014     \normalsize\normalfont\@bidityftesidenote@citation@font%
8015     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8016     \@for@temp@bibkeyx:=#2\do{%
8017       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8018         {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\{and\ }%
8019           \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8020           \bibentry{\@temp@bibkeyx}}%
8021         {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8022           \bibentry{\@temp@bibkeyx};\ }%
8023       \stepcounter{@bidityftesidenote@num@bibkeys}%
8024     }%
8025   }%
8026 }
8027 \newcommand{\@bidityfteLTRsidenote@normal@cite}[2] [Opt]{%
8028   % Snag the last bibentry in the list for later comparison
8029   \let@temp@last@bibkey\@empty%
8030   \@for@temp@bibkey:=#2\do{\let@temp@last@bibkey\@temp@bibkey}%
8031   \LTRsidenote[] [#1]{%
8032     % Loop through all the bibentries, separating them with semicolons and spaces
8033     \normalsize\normalfont\@bidityftesidenote@LTRcitation@font%
8034     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8035     \@for@temp@bibkeyx:=#2\do{%
8036       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8037         {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\{and\ }%
8038           \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8039           \bibentry{\@temp@bibkeyx}}%
8040         {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8041           \bibentry{\@temp@bibkeyx};\ }%
8042       \stepcounter{@bidityftesidenote@num@bibkeys}%
8043     }%
8044   }%
8045 }
8046 \newcommand{@@bidityfteRTLSidenote@normal@cite}[2] [Opt]{%
8047   % Snag the last bibentry in the list for later comparison
8048   \let@temp@last@bibkey\@empty%

```



```

8049 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8050 \RTLsidenote[] [#1]{%
8051 % Loop through all the bibentries, separating them with semicolons and spaces
8052 \normalsize\normalfont\@bidityftesidenote@citation@font%
8053 \setcounter{\@bidityftesidenote@num@bibkeys}{0}%
8054 \@for\@temp@bibkeyx:=#2\do{%
8055 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8056 {\ifthenelse{\equal{\value{\@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8057 \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8058 \bibentry{\@temp@bibkeyx}}%
8059 {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8060 \bibentry{\@temp@bibkeyx};\ }%
8061 \stepcounter{\@bidityftesidenote@num@bibkeys}%
8062 }%
8063 }%
8064 }
8065 %%
8066 % Macros for holding the list of cite keys until after the \sidenote
8067 \gdef\@bidityftesidenote@citations{}% list of cite keys
8068 \newcommand\@bidityftesidenote@add@citation[1]{\relax% adds a new bibkey to the list of cit
8069 \ifx\@bidityftesidenote@citations\@empty\else
8070 \g@addto@macro\@bidityftesidenote@citations{,}% separate by commas
8071 \fi
8072 \g@addto@macro\@bidityftesidenote@citations{#1}
8073 }
8074 \newcommand{\@bidityftesidenote@print@citations}[1][Opt]{% puts the citations in a margin n
8075 % Snag the last bibentry in the list for later comparison
8076 \let\@temp@last@bibkey\@empty%
8077 \@for\@temp@bibkey:=\@bidityftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}
8078 \marginpar{%
8079 \hbox{\vspace*{#1}}%
8080 \@bidityftesidenote@citation@font%
8081 \@bidityftesidenote@citation@justification%
8082 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8083 \vspace*{-1\baselineskip}%
8084 % Loop through all the bibentries, separating them with semicolons and spaces
8085 \setcounter{\@bidityftesidenote@num@bibkeys}{0}%
8086 \@for\@temp@bibkeyx:=\@bidityftesidenote@citations\do{%
8087 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8088 {\ifthenelse{\equal{\value{\@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8089 \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8090 \bibentry{\@temp@bibkeyx}}%
8091 {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8092 \bibentry{\@temp@bibkeyx};\ }%
8093 \stepcounter{\@bidityftesidenote@num@bibkeys}%
8094 }%
8095 }%
8096 }
8097 %%
8098 % \cite behavior when executed within a sidenote
8099 \newcommand{\@bidityftesidenote@sidenote@citations}{}% contains list of \cites in sidenote
8100 \newcommand{\@bidityftesidenote@infootnote@cite}[1]{%
8101 \@bidityftesidenote@add@citation{#1}
8102 }

```



```

8103 %%
8104 % Set the default \cite style. This is set and reset by the \sidenote command.
8105 \let\cite\@bidityftesidenote@normal@cite
8106 \let\LTRcite\@bidityfteLTRsidenote@normal@cite
8107 \let\RTLcite\@bidityfteRTLSidenote@normal@cite
8108 %%
8109 % Transform existing \footnotes into \sidenotes
8110 % Sidenote: ``Where God meant footnotes to go.''' ---bidityftesidenote
8111 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional arg
8112 \providecommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@siden
8113 \renewcommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenot
8114 % Override footmisc's definition to set the sidenote marks (numbers) inside the
8115 % sidenote's text block.
8116 \bidi@patch@AfterPackage{bidi}{\long\def\@makeintext#1{\@textsuperscript{\@bidityftesidenot
8117 % Set the in-text footnote mark in the same typeface as the body text itself.
8118 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnot
8119 \providecommand*\multiplefootnotemarker}{3sp}
8120 \providecommand*\multfootsep}{,}
8121 \bidi@patch@AfterPackage{bidi}{\%
8122 \renewcommand{\@footnotemark}{\%
8123 \leavevmode\%
8124 \ifhmode\%
8125 \edef\@x@sf{\the\spacefactor}\%
8126 \@bidityftesidenote@check@multiple@sidenotes\%
8127 \nobreak\%
8128 \fi\%
8129 \@makefnmark\%
8130 \ifhmode\spacefactor\@x@sf\fi\%
8131 \relax\%
8132 }%
8133 }
8134 \newcommand{\@bidityftesidenote@check@multiple@sidenotes}{\%
8135 \ifdim\lastkern=\multiplefootnotemarker\relax\%
8136 \edef\@x@sf{\the\spacefactor}\%
8137 \unkern\%
8138 \textsuperscript{\multfootsep}\%
8139 \spacefactor\@x@sf\relax\%
8140 \fi
8141 }
8142 \bidi@patch@AfterPackage{bidi}{\%
8143 \renewcommand\@footnotetext[2][Opt]{\%
8144 \bidityftesidenotemarginpar{\%
8145 \hbox{\vspace*{#1}}\%
8146 \def\baselinestretch {\setspace@singlespace}\%
8147 \reset@font\%
8148 \bidi@\@footnotetext@font\% \reset@font\footnotesize\%
8149 \@bidityftesidenote@margin@par\% use parindent and parskip settings for marginal text
8150 \vspace*{-1\baselineskip}\noindent\%
8151 \protected@edef\@currentlabel{\%
8152 \csname p@footnote\endcsname\@thefnmark\%
8153 }%
8154 \color@begingroup\%
8155 \@makeintext{\%
8156 \ignorespaces#2\%

```



```

8157     }%
8158     \color@endgroup%
8159 }%
8160 }%
8161 \renewcommand\@LTRfootnotetext[2][Opt]{%
8162   \LTRbidituftesidenotemarginpar{%
8163     \hbox{}\vspace*{#1}%
8164     \def\baselinestretch {\setspace@singlespace}%
8165     \reset@font%
8166     \bidi@LTRfootnotetext@font% \reset@font\footnotesize%
8167     \@bidituftesidenote@margin@par% use parindent and parskip settings for marginal text
8168     \vspace*{-1\baselineskip}\noindent%
8169     \protected@edef\@currentlabel{%
8170       \csname p@footnote\endcsname\@thefnmark%
8171     }%
8172     \color@begingroup%
8173     \@makefntext{%
8174       \ignorespaces#2%
8175     }%
8176     \color@endgroup%
8177   }%
8178 }%
8179 \renewcommand\@RTLfootnotetext[2][Opt]{%
8180   \RTLbidituftesidenotemarginpar{%
8181     \hbox{}\vspace*{#1}%
8182     \def\baselinestretch {\setspace@singlespace}%
8183     \reset@font%
8184     \bidi@RTLfootnotetext@font% \reset@font\footnotesize%
8185     \@bidituftesidenote@margin@par% use parindent and parskip settings for marginal text
8186     \vspace*{-1\baselineskip}\noindent%
8187     \protected@edef\@currentlabel{%
8188       \csname p@footnote\endcsname\@thefnmark%
8189     }%
8190     \color@begingroup%
8191     \@makefntext{%
8192       \ignorespaces#2%
8193     }%
8194     \color@endgroup%
8195   }%
8196 }%
8197 }
8198 %
8199 % Define \sidenote command. Can handle \cite.
8200 \newlength{\@bidituftesidenote@sidenote@vertical@offset}
8201 \setlength{\@bidituftesidenote@sidenote@vertical@offset}{0pt}
8202 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
8203 \long\def\@bidituftesidenote@sidenote[#1][#2]#3{%
8204   \let\cite\@bidituftesidenote@infootnote@cite% use the in-sidenote \cite command
8205   \gdef\@bidituftesidenote@citations{}% clear out any old citations
8206   \ifthenelse{\NOT\isempty{#2}}{%
8207     \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{#2}%
8208   }{%
8209     \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{0pt}%
8210   }%

```





```

8211 \ifthenelse{\isempty{#1}}{%
8212 % no specific footnote number provided
8213 \stepcounter{\mpfn%
8214 \protected@xdef\@thefnmark{\thempfn}%
8215 \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8216 }{%
8217 % specific footnote number provided
8218 \begingroup%
8219 \csname c@\mpfn\endcsname #1\relax%
8220 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8221 \endgroup%
8222 \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8223 }%
8224 \@bidityftesidenote@print@citations% print any citations
8225 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite com
8226 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LT
8227 \let\RTLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RT
8228 \unskip\ignorespaces% remove extra white space
8229 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8230 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8231 }
8232 \long\def\@LTRbidityftesidenote@sidenote[#1][#2]#3{%
8233 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8234 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8235 \ifthenelse{\NOT\isempty{#2}}{%
8236 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8237 }{%
8238 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8239 }%
8240 \ifthenelse{\isempty{#1}}{%
8241 % no specific footnote number provided
8242 \stepcounter{\mpfn%
8243 \protected@xdef\@thefnmark{\thempfn}%
8244 \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8245 }{%
8246 % specific footnote number provided
8247 \begingroup%
8248 \csname c@\mpfn\endcsname #1\relax%
8249 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8250 \endgroup%
8251 \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8252 }%
8253 \@bidityftesidenote@print@citations% print any citations
8254 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite com
8255 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LT
8256 \let\RTLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RT
8257 \unskip\ignorespaces% remove extra white space
8258 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8259 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8260 }
8261 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%
8262 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8263 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8264 \ifthenelse{\NOT\isempty{#2}}{%

```



```

8265 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8266 }{%
8267 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8268 }%
8269 \ifthenelse{\isempty{#1}}{%
8270 % no specific footnote number provided
8271 \stepcounter\@mpfn%
8272 \protected@xdef\@thefnmark{\thempfn}%
8273 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8274 }{%
8275 % specific footnote number provided
8276 \begingroup%
8277 \csname c@\@mpfn\endcsname #1\relax%
8278 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8279 \endgroup%
8280 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8281 }%
8282 \@bidityftesidenote@print@citations% print any citations
8283 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite com
8284 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LT
8285 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RT
8286 \unskip\ignorespaces% remove extra white space
8287 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8288 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8289 }
8290 \newcommand{\sidenote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}
8291 \newcommand{\LTRsidenote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}
8292 \newcommand{\RTLsidenote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}
8293 \bidi@patch@AfterPackage{bidi}{%
8294 \renewcommand{\footnote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}%
8295 \renewcommand{\LTRfootnote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}%
8296 \renewcommand{\RTLfootnote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}%
8297 }
8298 %%
8299 % Sidenote without the footnote mark
8300 \newcommand\marginnote[2] [Opt]{%
8301 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8302 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8303 \bidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@marginnote@font\@bidi
8304 \@bidityftesidenote@print@citations% print any citations
8305 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite com
8306 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LT
8307 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RT
8308 }
8309 \newcommand\LTRmarginnote[2] [Opt]{%
8310 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8311 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8312 \LTRbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@LTRmarginnote@font\
8313 \@bidityftesidenote@print@citations% print any citations
8314 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite com
8315 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LT
8316 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RT
8317 }
8318 \newcommand\RTLmarginnote[2] [Opt]{%

```



```

8319 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8320 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8321 \RTLbidityftesidenotemarginpar{\hbox{} \vspace*{#1}\@bidityftesidenote@RTLmarginnote@font\
8322 \@bidityftesidenote@print@citations% print any citations
8323 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite com
8324 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LT
8325 \let\RLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RT
8326 }

```

## 55 File bidityftetoc.sty

```

8327 \NeedsTeXFormat{LaTeX2e}
8328 \ProvidesPackage{bidityftetoc}[2011/06/17 v0.1
8329 bidi implementation of tufte toc]
8330 \RequirePackage{titlesec,titletoc,xifthen,biditytools}
8331 \newcommand{\@bidityftetoc@pkgname}{bidityftetoc}
8332 \newcommand{\bidityftetocError}[2]{\PackageError{\@bidityftetoc@pkgname}{#1}{#2}}
8333 %%
8334 % Turn off section numbering
8335 \setcounter{secnumdepth}{-1}
8336 \newboolean{\@bidityftetoc@toc}
8337 \setboolean{\@bidityftetoc@toc}{true}
8338 \DeclareOption{notoc}{\setboolean{\@bidityftetoc@toc}{false}}
8339 \DeclareOption{toc}{\setboolean{\@bidityftetoc@toc}{true}}
8340 \ProcessOptions
8341 %%
8342 % Make Tuftean-style section headings and TOC formatting
8343 \bidi@patch@AfterPackage{bidi}{%
8344 \titleformat{\chapter}%
8345 [display]% shape
8346 {\relax\ifthenelse{\NOT\boolean{\@bidityftefloat@symmetric}}{\begin{fullwidth}}{}% format
8347 {\itshape\huge\thechapter}% label
8348 {0pt}% horizontal separation between label and title body
8349 {\huge\rmfamily\itshape}% before the title body
8350 [\ifthenelse{\NOT\boolean{\@bidityftefloat@symmetric}}{\end{fullwidth}}{}% after the titl
8351 \titleformat{\section}%
8352 [hang]% shape
8353 {\normalfont\Large\itshape}% format applied to label+text
8354 {\thesection}% label
8355 {1em}% horizontal separation between label and title body
8356 {}% before the title body
8357 []% after the title body
8358 \titleformat{\subsection}%
8359 [hang]% shape
8360 {\normalfont\large\itshape}% format applied to label+text
8361 {\thesubsection}% label
8362 {1em}% horizontal separation between label and title body
8363 {}% before the title body
8364 []% after the title body
8365 \titleformat{\paragraph}%
8366 [runin]% shape
8367 {\normalfont\itshape}% format applied to label+text
8368 {\theparagraph}% label
8369 {1em}% horizontal separation between label and title body

```



```

8370 {}% before the title body
8371 []% after the title body
8372 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
8373 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
8374 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
8375 }
8376 % Subsubsection and following section headings shouldn't be used.
8377 % See Bringhurst's _The Elements of Typography_, section 4.2.2.
8378 \renewcommand\subsubsection{%
8379   \biditytetocError{\noexpand\subsubsection is undefined by this class.%
8380     \MessageBreak See Robert Bringhurst's _The Elements of
8381     \MessageBreak Typographic Style_, section 4.2.2.
8382     \MessageBreak \noexpand\subsubsection was used}
8383   {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8384     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the
8385     \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
8386 }
8387 \renewcommand\subparagraph{%
8388   \biditytetocError{\noexpand\subparagraph is undefined by this class.%
8389     \MessageBreak See Robert Bringhurst's _The Elements of
8390     \MessageBreak Typographic Style_, section 4.2.2.
8391     \MessageBreak \noexpand\subparagraph was used}
8392   {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8393     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the
8394     \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
8395 }
8396 % Formatting for main TOC (printed in front matter)
8397 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
8398 \ifthenelse{\boolean{@biditytetoc@toc}}{%
8399   \bidity@patch@AfterPackage{bidity}{%
8400     \titlecontents{part}% FIXME
8401     [0em] % distance from left margin
8402     {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global for
8403     {\contentslabel{2em}} % before w/label (label = ``II'')
8404     {} % before w/o label
8405     {\rmfamily\upshape\quad\thecontentspage} % filler + page (leaders and page num)
8406     [\end{fullwidth}] % after
8407     \titlecontents{chapter}%
8408     [0em] % distance from left margin
8409     {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global for
8410     {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
8411     {\hspace*{0em}} % before w/o label
8412     {\rmfamily\upshape\quad\thecontentspage} % filler + page (leaders and page num)
8413     [\end{fullwidth}] % after
8414     \titlecontents{section}% FIXME
8415     [0em] % distance from left margin
8416     {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global forma
8417     {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
8418     {\hspace*{2em}} % before w/o label
8419     {\rmfamily\upshape\quad\thecontentspage} % filler + page (leaders and page num)
8420     [\end{fullwidth}] % after
8421     \titlecontents{subsection}% FIXME
8422     [0em] % distance from left margin
8423     {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global forma

```



```

8424     {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
8425     {\hspace*{4em}} % before w/o label
8426     {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8427     [\end{fullwidth}] % after
8428     \titlecontents{paragraph}% FIXME
8429     [0em] % distance from left margin
8430     {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global
8431     {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
8432     {\hspace*{6em}} % before w/o label
8433     {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8434     [\end{fullwidth}] % after
8435 }%
8436 }{}
8437 %%
8438 % Format lists of figures/tables
8439 \renewcommand\listoffigures{%
8440   \@ifundefined{chapter}%
8441     {\section*{\listfigurename}}%
8442     {\chapter*{\listfigurename}}%
8443 %   \begin{fullwidth}%
8444     \@starttoc{lof}%
8445 %   \end{fullwidth}%
8446 }
8447 \renewcommand\listoftables{%
8448   \@ifundefined{chapter}%
8449     {\section*{\listtablename}}%
8450     {\chapter*{\listtablename}}%
8451 %   \begin{fullwidth}%
8452     \@starttoc{lot}%
8453 %   \end{fullwidth}%
8454 }
8455 \newcommand{\@biditytetoc@lof@line}[2]{%
8456   % #1 is the figure/table number and its caption text
8457   % #2 is the page number on which the figure/table appears
8458   \leftskip 0.0em
8459   \rightskip 0em
8460   \parfillskip 0em plus 1fil
8461   \parindent 0.0em
8462   \@afterindenttrue
8463   \interlinepenalty\@M
8464   \leavevmode
8465   \@tempdima 2.0em
8466   \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
8467   \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi
8468   {#1}\nobreak\qqquad\nobreak#2%
8469   \par%
8470 }
8471 \renewcommand*\l@figure{\@biditytetoc@lof@line}
8472 \let\l@table\l@figure

```

## 56 File biditytgeneralstructure.sty

```

8473 \NeedsTeXFormat{LaTeX2e}
8474 \ProvidesPackage{biditytgeneralstructure}[2011/06/18 v0.1

```



```

8475 bidi implementation of tufte general structure]
8476 \renewcommand\small{%
8477   \@setfontsize\small\@ixpt{12}%
8478   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
8479   \abovedisplayshortskip \z@ \@plus2\p@
8480   \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
8481   \def\@listi{\leftmargin\leftmargini
8482             \topsep 4\p@ \@plus2\p@ \@minus2\p@
8483             \parsep 2\p@ \@plus\p@ \@minus\p@
8484             \itemsep \parsep}%
8485   \belowdisplayskip \abovedisplayskip
8486 }
8487 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viipt}
8488 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vpt}
8489 \renewcommand\large{\@setfontsize\large\@xipt{15}}
8490 \renewcommand\Large{\@setfontsize\Large\@xipt{16}}
8491 \renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
8492 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
8493 \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
8494 \setlength\leftmargini {1pc}
8495 \setlength\leftmarginii {1pc}
8496 \setlength\leftmarginiii {1pc}
8497 \setlength\leftmarginiv {1pc}
8498 \setlength\leftmarginv {1pc}
8499 \setlength\leftmarginvi {1pc}
8500 \setlength\labelsep {.5pc}
8501 \setlength\labelwidth {\leftmargini}
8502 \addtolength\labelwidth{-\labelsep}
8503 \setlength{\parindent}{1.0pc}%
8504 \setlength{\parskip}{0pt}%
8505 \RequirePackage{ragged2e}
8506 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
8507 % Paragraph indentation and separation for normal text
8508 \newcommand{\@bidiuftgeneralstructure@reset@par}{%
8509   \setlength{\RaggedRightParindent}{1.0pc}%
8510   \setlength{\JustifyingParindent}{1.0pc}%
8511   \setlength{\parindent}{1pc}%
8512   \setlength{\parskip}{0pt}%
8513 }
8514 \@bidiuftgeneralstructure@reset@par
8515 % Require paralist package for tighter lists
8516 \RequirePackage{paralist}
8517 % Add rightmargin to compactenum
8518 \def\@compactenum{%
8519   \expandafter\list\csname label\@enumctr\endcsname{%
8520     \usecounter{\@enumctr}%
8521     \rightmargin=2em% added this
8522     \parsep\plparsep
8523     \itemsep\plitemsep
8524     \topsep\pltopsep
8525     \partopsep\plpartopsep
8526     \def\makelabel##1{\hss\llap{##1}}}}
8527 %%
8528 % An environment for paragraph-style section

```



```

8529 \providecommand\newthought[1]{%
8530   \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
8531   \noindent\textbf{#1}%
8532 }
8533 %%
8534 % Redefine the display environments (quote, quotation, etc.)
8535 \renewenvironment{verse}
8536   {\let\\ \@centercr
8537    \list{}{\itemsep      \z@
8538             \itemindent  -1pc%
8539             \listparindent\itemindent
8540             \rightmargin \leftmargin
8541             \advance\leftmargin 1pc}%
8542    \small%
8543    \item\relax}
8544 {\endlist}
8545 \renewenvironment{quotation}
8546   {\list{}{\listparindent 1pc%
8547             \itemindent     \listparindent
8548             \rightmargin    \leftmargin
8549             \parsep         \z@ \@plus\p@}%
8550    \small%
8551    \item\relax\noindent\ignorespaces}
8552 {\endlist}
8553 \renewenvironment{quote}
8554   {\list{}{\rightmargin\leftmargin}%
8555    \small%
8556    \item\relax}
8557 {\endlist}
8558 % Italicize description run-in headings (instead of the default bold)
8559 \renewcommand*{\descriptionlabel[1]}{\hspace\labelsep\normalfont\em #1}
8560 %%
8561 % Redefine \bibsection to not mark the running heads.
8562 % (Code modified from natbib.sty.)
8563 \@ifundefined{chapter}%
8564   {\renewcommand\bibsection{\section*{\refname}}}
8565   {\@ifundefined{NAT@sectionbib}%
8566     {\renewcommand\bibsection{\chapter{\bibname}}}
8567     {\renewcommand\bibsection{\section*{\bibname}}}}
8568 \RequirePackage{multicol}
8569 \renewenvironment{theindex}{%
8570 \@ifundefined{chapter}%
8571   {\section*{\indexname}}%
8572   {\chapter{\indexname}}%
8573   \begin{fullwidth}%
8574   \small%
8575   \parskip0pt%
8576   \parindent0pt%
8577   \let\item\@idxitem%
8578   \begin{multicols}{3}%
8579 }{%
8580   \end{multicols}%
8581   \end{fullwidth}%
8582 }

```





```

8583 \AtBeginDocument{%
8584 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
8585 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
8586 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}%
8587 \renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
8588 \newcommand{\lettergroup}[1]{}% swallow the letter heading in the index

```

## 57 File `bidituftehyperref.sty`

```

8589 \NeedsTeXFormat{LaTeX2e}
8590 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
8591 bidi implementation of tufte hyperref]
8592 %%
8593 % Color
8594 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
8595 \newboolean{@bidituftehyperref@loadhyper}
8596 \setboolean{@bidituftehyperref@loadhyper}{true}
8597 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
8598 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
8599 \ProcessOptions
8600 %% Loads the hyperref package and sets some default options.
8601 \newcommand{\bidituftehyperrefLoadHyperref}{%
8602 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
8603 \hypersetup{%
8604     bookmarksdepth = section,
8605     citecolor = DarkGreen,
8606     linkcolor = DarkBlue,
8607 %    pagecolor = DarkBlue,
8608     urlcolor = DarkGreen,
8609 }%
8610 }
8611 \ifthenelse{\boolean{@bidituftehyperref@loadhyper}}{%
8612 \bidituftehyperrefLoadHyperref%
8613 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
8614 \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
8615 }

```

## 58 File `bidituftetitle.sty`

```

8616 \NeedsTeXFormat{LaTeX2e}
8617 \ProvidesPackage{bidituftetitle}[2011/06/18 v0.1
8618 bidi implementation of tufte title]
8619 \RequirePackage{biditools}
8620 %%
8621 % `titlepage' option -- creates a full title page with \maketitle
8622 \newboolean{@bidituftetitle@titlepage}
8623 \DeclareOption{titlepage}{\setboolean{@bidituftetitle@titlepage}{true}}
8624 \DeclareOption{notitlepage}{\setboolean{@bidituftetitle@titlepage}{false}}
8625 % Default `book' and `handout' options
8626 \@ifclassloaded{book}{%
8627 \ExecuteOptions{titlepage}}{%
8628 \@ifclassloaded{article}{%
8629 \ExecuteOptions{notitlepage}}%
8630 {}

```





```

8631 \ProcessOptions
8632 %%
8633 % Modified \title, \author, and \date commands. These store the
8634 % (footnote-less) values in \plaintitle, \plainauthor, and \thedata, respectively.
8635 \newcommand{\plaintitle}{}% plain-text-only title
8636 \newcommand{\plainauthor}{}% plain-text-only author
8637 \newcommand{\plainpublisher}{}% plain-text-only publisher
8638 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
8639 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
8640 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
8641 \newcommand{\@publisher}{}% full publisher with \thanks{}
8642 \newcommand{\thedata}{\today}
8643 \bidi@patch@AfterPackage{bidi}{%
8644 \renewcommand{\thanks}[1]{\footnote{#1}}
8645 \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
8646 \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
8647 }
8648 \renewcommand{\title}[2][]{%
8649 \gdef\@title{#2}%
8650 \begingroup%
8651 % TODO store contents of \thanks command
8652 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8653 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8654 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8655 \protected@xdef\thanklesstitle{#2}%
8656 \endgroup%
8657 \ifthenelse{\isempty{#1}}{%
8658 {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
8659 {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
8660 \@ifundefined{hypersetup}%
8661 {}% hyperref is not loaded; do nothing
8662 {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
8663 }
8664 \let\@author\@empty% suppress default latex.ltx ``no author'' warning
8665 \renewcommand{\author}[2][]{%
8666 \ifthenelse{\isempty{#2}}{}{\gdef\@author{#2}}%
8667 \begingroup%
8668 % TODO store contents of \thanks command
8669 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8670 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8671 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8672 \protected@xdef\thanklessauthor{#2}%
8673 \endgroup%
8674 \ifthenelse{\isempty{#1}}{%
8675 {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
8676 {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
8677 \@ifundefined{hypersetup}%
8678 {}% hyperref is not loaded; do nothing
8679 {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
8680 }
8681 \renewcommand{\date}[1]{%
8682 \gdef\@date{#1}%
8683 \begingroup%
8684 % TODO store contents of \thanks command

```



```

8685 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8686 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8687 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8688 \protected@xdef\thedata{#1}%
8689 \endgroup%
8690 }
8691 %%
8692 % Provides a \publisher command to set the publisher
8693 \newcommand{\publisher}[2][ ]{%
8694 \gdef\@publisher{#2}%
8695 \begingroup%
8696 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8697 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8698 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8699 \protected@xdef\thanklesspublisher{#2}%
8700 \endgroup%
8701 \ifthenelse{\isempty{#1}}{
8702 {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
8703 {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
8704 }
8705 %%
8706 % Produces a full title page
8707 \newcommand{\maketitlepage}[0]{%
8708 \cleardoublepage%
8709 {%
8710 \bfseries%
8711 \begin{fullwidth}%
8712 \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
8713 \vspace{11.5pc}%
8714 \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
8715 \vfill%
8716 \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
8717 \end{fullwidth}%
8718 }
8719 \thispagestyle{empty}%
8720 \clearpage%
8721 }
8722 %%
8723 % Title block
8724 \bidi@AfterEndPreamble{%
8725 \renewcommand{\maketitle}{%
8726 \newpage%
8727 \global\@topnum\z@% prevent floats from being placed at the top of the page
8728 \begingroup%
8729 \setlength{\parindent}{0pt}%
8730 \setlength{\parskip}{4pt}%
8731 \let\@title\@empty%
8732 \let\@author\@empty%
8733 \let\@date\@empty%
8734 \gdef\@title{\LARGE\itshape\@title\par}%
8735 \gdef\@author{\Large\itshape\@author\par}%
8736 \gdef\@date{\Large\itshape\@date\par}%
8737 \@title%
8738 \@author%

```



```

8739 \@@date%
8740 \endgroup%
8741 \thispagestyle{plain}% suppress the running head
8742 }%
8743 }
8744 %%
8745 % Title page (if the `titlepage' option was passed to the bidentufte-handout
8746 % class.)
8747 \bidentufteAfterEndPreamble{%
8748 \ifthenelse{\boolean{@bidentufte@titlepage}}
8749 {\renewcommand{\maketitle}{\maketitlepage}}
8750 {}
8751 }
8752 %%
8753 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
8754 % without headers and footers
8755 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
8756 \hbox{}
8757 %\vspace*{\fill}
8758 %\begin{center}
8759 % This page intentionally contains only this sentence.
8760 %\end{center}
8761 %\vspace{\fill}
8762 \thispagestyle{empty}
8763 \newpage
8764 \if@twocolumn\hbox{}\newpage\fi\fi\fi}

```

## 59 File bidentufte-handout.cls

```

8765 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8766 \ProvidesClass{bidentufte-handout}[2011/06/18 v0.1 bidentufte-handout class]
8767 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
8768 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftefloat}}
8769 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftetoc}}
8770 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftehyperref}}
8771 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftetitle}}
8772 \ProcessOptions\relax
8773 \LoadClass{article}
8774 \RequirePackage{bidentuftefloat}
8775 \RequirePackage{bidentuftesidenote}
8776 \RequirePackage{bidentuftetoc}
8777 \RequirePackage{bidentuftegeneralstructure}
8778 \RequirePackage{bidentuftehyperref}
8779 \RequirePackage{bidentuftetitle}
8780 \renewenvironment{abstract}
8781 {\begin{quotation}}
8782 {\end{quotation}}
8783 \AtBeginDocument{%
8784 \IfFileExists{bidentufte-handout.cfg}
8785 {\input{bidentufte-handout.cfg}
8786 \ClassInfo{bidentufte-handout}{Loading bidentufte-handout configuration file \@gobble}}
8787 {}%
8788 }

```



## 60 File bidentufte-book.cls

```
8789 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8790 \ProvidesClass{bidentufte-book}[2011/06/18 v0.1 bidentufte-book class]
8791 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
8792 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftefloat}}
8793 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftetoc}}
8794 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftehyperref}}
8795 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftetitle}}
8796 \ProcessOptions\relax
8797 \LoadClass{book}
8798 \RequirePackage{bidentuftefloat}
8799 \RequirePackage{bidentuftesidenote}
8800 \RequirePackage{bidentuftetoc}
8801 \RequirePackage{bidentuftegeneralstructure}
8802 \RequirePackage{bidentuftehyperref}
8803 \RequirePackage{bidentuftetitle}
8804 %%
8805 % Set up any book-specific stuff now
8806 %%
8807 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
8808 % to the opening page of Chapter 1. The running heads, when they appear,
8809 % contain only the (arabic) page number in the outside corner.
8810 %\newif\if@mainmatter \@mainmattertrue
8811 \renewcommand\frontmatter{%
8812   \cleardoublepage%
8813   \@mainmatterfalse%
8814   \pagenumbering{arabic}%
8815   %\pagestyle{plain}%
8816   \fancyhf{}%
8817   \ifthenelse{\boolean{@bidentuftefloat@twoside}}{%
8818     {\fancyhead[LE,RO]{\thepage}}%
8819     {\fancyhead[RE,RO]{\thepage}}%
8820   }
8821   %%
8822 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
8823 % numbering---it continues where it left off in the front matter.
8824 \renewcommand\mainmatter{%
8825   \cleardoublepage%
8826   \@mainmattertrue%
8827   \fancyhf{}%
8828   \ifthenelse{\boolean{@bidentuftefloat@twoside}}{%
8829     {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}}%
8830     {\fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
8831     {\fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}% chapter title
8832     {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}% book titl
8833   }
8834   %%
8835 % The back matter contains appendices, indices, glossaries, endnotes,
8836 % bibliographies, list of contributors, illustration credits, etc.
8837 \renewcommand\backmatter{%
8838   \if@openright%
8839     \cleardoublepage%
8840   \else%
```



```

8841 \clearpage%
8842 \fi%
8843 \@mainmatterfalse%
8844 }
8845 %%
8846 % Only show the chapter titles in the table of contents
8847 \setcounter{tocdepth}{0}
8848 \AtBeginDocument{%
8849 \IfFileExists{biditufte-book.cfg}
8850 {\input{biditufte-book.cfg}
8851 \ClassInfo{biditufte-book}{Loading biditufte-book configuration file \@gobble}}
8852 {}%
8853 }

```

## 61 File bidipoem.sty

```

8854 \NeedsTeXFormat{LaTeX2e}
8855 \ProvidesPackage{bidipoem}%
8856 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
8857
8858 % Usage:
8859 %
8860 % \Setversedim #1#2 % define the layout (within a group):
8861 % #1 = length of both half-verses
8862 % #2 = separation distance = length of a connection, if present
8863 % Variant:
8864 % \Setversedim #1[#2]#3 % for half-verses of unequal length
8865 % #1 = length of first (=right) half-verse
8866 % #2 = length of second (=left) half-verse
8867 % #3 = separation distance = length of a connection, if present
8868 %
8869 % \traditionalhalfverses #1#2 % typeset two separated half-verses
8870 % #1 = text of first (=right) half-verse
8871 % #2 = text of second (=left) half-verse
8872 % Variant:
8873 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
8874 % #1 = text of first (=right) half-verse
8875 % #2 = text of connection
8876 % #3 = text of second (=left) half-verse
8877 %
8878 % Alternative (if preferred):
8879 %
8880 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
8881
8882
8883 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}
8884
8885 % define the layout, verses will be centered
8886
8887 \newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
8888 \newdimen \bidipoem@hvind \newdimen \bidipoem@@hvlen
8889
8890 \newcommand*{\Setversedim}[2]{% set lengths of half-verse, [separation]
8891 \bidipoem@hvind \textwidth

```



```

8892 \bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
8893 \ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []\else
8894 \bidipoem@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipo
8895
8896 \def \bidipoem@set@verseI [#1]{% optional parameter
8897 \bidipoem@hvlen #1\relax \bidipoem@set@@verse }
8898
8899 \newcommand*{\bidipoem@set@@verse}[1]{% separation
8900 \advance \bidipoem@hvind -\bidipoem@hvlen \bidipoem@hvsep #1\relax
8901 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
8902
8903 \newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
8904 \ifdim Opt > \bidipoem@hvind %
8905 \bidipoem@spreadbox \bidipoem@hvlen {#1}\ \hfill % first block
8906 \else
8907 \noindent \hskip \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlen {#1}\fi
8908 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
8909 \bidipoem@spreadbox \bidipoem@hvlen {#3}% second block
8910 \par }
8911
8912 % macro for two half verses
8913 \newcommand*{\traditionalhalfverses}[2]{% optional parameter?
8914 \ifx [#2\def \bidipoem@half@verses@next{\bidipoem@half@verses {#1}[]%
8915 \else\def \bidipoem@half@verses@next{\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
8916 \bidipoem@half@verses@next}
8917
8918 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second
8919 \traditionalconnverses {#1}{#2}{#3}}
8920
8921
8922 {\catcode\^^M=\active % these lines must end with %
8923 \gdef\traditionalpoem@obeylines{\catcode\^^M=\active \let^^M\traditionalpoem@par}%
8924 \global\let^^M\traditionalpoem@par % this is in case ^^M appears in a \write
8925 {\catcode\^^M=\active % these lines must end with %
8926 \gdef\modernpoem@obeylines{\catcode\^^M=\active \let^^M\modernpoem@par}%
8927 \global\let^^M\modernpoem@par % this is in case ^^M appears in a \write
8928 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
8929 \def\poemmarginsskip{1em plus 1fil minus 1em}
8930 \def\poemextrabaselineskip{0\baselineskip}
8931 \def\poemskip{\medskip}
8932 \newcommand{\bidipoem@openbox}{\leavevmode
8933 \hbox to.77778em{%
8934 \hfil\vrule
8935 \vbox to.675em{\hrule width.6em\vfil\hrule}%
8936 \vrule\hfil}}
8937 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
8938 \newdimen\versewidth
8939 \newtoks\bidipoem@p@ftn
8940 \def\poem@verse#1{%
8941 \ifdim\wd#1>\new@poem@width
8942 \xdef\new@poem@width{\the\wd#1}%
8943 \ifdim\new@poem@width>\poem@width
8944 \xdef\poem@width{\new@poem@width}%
8945 \global\let\poem@needrun\relax

```



```

8946 \fi
8947 \fi
8948 \hbox to\poem@width{\unhbox#1}%
8949 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
8950 }
8951 \def\poem@linebegin{\vadjust{}\hskip\@flushglue\hskip\poemmargin\skip\relax}
8952 \def\poem@lineend{\nobreak\hskip\poemmargin\skip\hskip\@flushglue\vadjust{}}
8953 \def\poem@lineversesep{%
8954 \nobreak
8955 \hskip\z@ plus 1filll%
8956 \penalty600%
8957 \hskip\poemcolsepskip
8958 \hskip\z@ plus -2filll%
8959 \vadjust{}}%
8960 \nobreak
8961 \hskip\z@ plus 1filll%
8962 }
8963 \def\poem@lineparsebegin{%
8964 \halign\bgroup
8965 \global\setbox\verse@i=\hbox{%
8966 \let\@footnotetext\bidipoem@p@ftntext%
8967 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8968 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8969 \let\@xfootnotenext\bidipoem@p@xftntext%
8970 \let\@xfootnote\bidipoem@p@xfootnote%
8971 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8972 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8973 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8974 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8975 \ignorespaces##\unskip}&&
8976 \global\setbox\verse@ii=\hbox{%
8977 \let\@footnotetext\bidipoem@p@ftntext%
8978 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8979 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8980 \let\@xfootnotenext\bidipoem@p@xftntext%
8981 \let\@xfootnote\bidipoem@p@xfootnote%
8982 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8983 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8984 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8985 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8986 \ignorespaces##\unskip}
8987 \cr
8988 }
8989 \def\poem@lineparseend{%
8990 \crcr\egroup
8991 \vskip-\baselineskip
8992 }
8993 \def\traditionalpoem@cr{%
8994 \cr\poem@line
8995 }
8996 \newbox\verse@i
8997 \newbox\verse@ii
8998 \newif\ifpoem@started
8999

```



```

9000 \def\poem@line{%
9001 \poem@lineparseend
9002 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
9003 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
9004 \ifpoem@started
9005 \ifdim\wd\verse@ii>\z@\else
9006 \nopagebreak[3]
9007 \fi
9008 \leavevmode
9009 \poem@linebegin
9010 \poem@verse\verse@i
9011 \ifdim\wd\verse@ii>\z@
9012 \poem@lineversesep
9013 \poem@verse\verse@ii
9014 \fi
9015 \poem@lineend
9016 % \nopagebreak
9017 \par
9018 \vskip\poemextrabaselineskip
9019 \fi
9020 \poem@lineparsebegin
9021 }
9022 \def\@traditionalpoem{%
9023 \stepcounter{poem@no}
9024 \ifnum\max@poem@no<\number\c@poem@no%
9025 \xdef\poem@width{\z@}%
9026 \else
9027 \xdef\poem@width{\poem@prop{poem@width}}%
9028 \fi
9029 \xdef\new@poem@width{\z@}%
9030 \global\versewidth=\poem@width
9031 \poemskip\par
9032 \beginngroup
9033 \tabskip=\z@
9034 \parskip=\z@
9035 \parindent=\z@
9036 \parfillskip=\z@
9037 \rightskip=\z@
9038 \leftskip=\z@
9039 \widowpenalty=10000% No break between verses of the same line.
9040 \clubpenalty=10000% Same as above. Not really needed.
9041 \def\newblock{\hfil\poemblocksep\hfil\null}%
9042 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
9043 \def\{\global\poem@startedtrue\traditionalpoem@cr}%
9044 \global\poem@startedfalse
9045 \csname poem@obeylines\endcsname
9046 \let\poem@obeylines\relax
9047 \poem@lineparsebegin
9048 }
9049 \def\@endtraditionalpoem{%
9050 \cr
9051 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
9052 \noalign{%
9053 \skip0=\poemextrabaselineskip

```





```

9054 \vskip-\skip0
9055 \vskip-\baselineskip
9056 }%
9057 \fi\fi
9058 \poem@lineparseend
9059 \endgroup
9060 \par
9061 \vskip\baselineskip
9062 \poemskip
9063 \ifdim\new@poem@width<\poem@width
9064 \global\let\poem@needrun\relax
9065 \fi
9066 \poem@write@aux{poem@width@romannumeral@c@poem@no}{\new@poem@width}%
9067 \ifx\AtEndDocument\undefined\poem@finish\fi
9068 \@endparenv
9069 }
9070
9071
9072 \long\def\bidipoem@p@ftntext#1{%
9073   \edef\@temp{x\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}}%
9074   \global\bidipoem@p@ftn\expandafter{\@temp{x#1}}}%
9075 \long\def\bidipoem@p@LTRftntext#1{%
9076   \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}}%
9077   \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
9078 \long\def\bidipoem@p@RTLftntext#1{%
9079   \edef\@tempxii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]}}%
9080   \global\bidipoem@p@ftn\expandafter{\@tempxii{#1}}}%
9081
9082 \long\def\bidipoem@p@xftntext[#1]#2{%
9083   \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}}
9084
9085 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
9086   \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}}
9087
9088 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
9089   \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}}
9090
9091 \def\bidipoem@p@xfootnote[#1]{%
9092   \begingroup
9093     \csname c@\@mpfn\endcsname #1\relax
9094     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9095   \endgroup
9096   \@footnotemark\bidipoem@p@xftntext[#1]}
9097
9098 \def\bidipoem@p@xLTRfootnote[#1]{%
9099   \begingroup
9100     \csname c@\@mpfn\endcsname #1\relax
9101     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9102   \endgroup
9103   \@footnotemark\bidipoem@p@xLTRftntext[#1]}
9104
9105 \def\bidipoem@p@xRTLfootnote[#1]{%
9106   \begingroup
9107     \csname c@\@mpfn\endcsname #1\relax

```



```

9108     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9109     \endgroup
9110     \@footnotemark\bidipoem@p@xRTLftntext[#1]}
9111
9112
9113
9114 \newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}
9115 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obe
9116 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
9117 \def\poem@finish{%
9118 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
9119 \ifx\poem@needrun\relax
9120 \PackageWarning{bidipoem}{Unjustified poem.  Rerun XeLaTeX to get poem right}%
9121 \global\let\poem@needrun\undefined
9122 \fi
9123 }
9124 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
9125 \newcounter{poem@no}\setcounter{poem@no}{\z@}
9126 \ifx\max@poem@no\undefined
9127     \def\max@poem@no{0}%
9128 \fi
9129 \newcommand{\poem@prop}[1]{\@nameuse{#1@romannumeral\c@poem@no}}
9130 \newcommand{\poem@write@aux}[2]{%
9131     \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
9132     \@x
9133 }
9134 \def\@modernpoem{%
9135 \par
9136 \begingroup
9137 \parskip=\z@
9138 \parindent=\z@
9139 \def\[{ \settab\@tabplus\ignorespaces}%
9140 \def\] { \tabminus\ignorespaces}%
9141 \def\newblock { \poemblocksep}%
9142 \let\newpoem@tabcr\@tabcr
9143 \def\modernpoem@par{% Redefine \par for possible \obeylines
9144     \ifpoem@started\else
9145         \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9146             \@stopfield
9147             \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9148             \@contfield
9149         \fi
9150     \fi
9151     \ifpoem@started\newpoem@tabcr\fi}%
9152 \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
9153 \global\poem@startedfalse
9154 \csname poem@obeylines\endcsname
9155 \let\poem@obeylines\relax
9156 \begin{tabbing}%
9157 }
9158 \def\@endmodernpoem{%
9159 \global\poem@startedfalse
9160 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9161     \@stopfield

```



```

9162 \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9163 \@contfield
9164 \fi
9165 \ifpoem@started\else\let\@stopline\@stopfield\fi
9166 \end{tabbing}%
9167 \endgroup
9168 \par
9169 \if@nparlist \else
9170 \ifdim\lastskip >\z@
9171 \@tempskipa\lastskip \vskip -\lastskip
9172 \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
9173 \vskip\@tempskipa
9174 \fi
9175 \@endparenv
9176 \fi
9177 }
9178 \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
9179 \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\mod
9180 \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
9181 \gdef\@startfield{%
9182 \global\setbox\@curfield\hbox\bgroup%
9183 \let\@footnotetext\bidipoem@p@fnttext%
9184 \let\@LTRfootnotetext\bidipoem@p@LTRfnttext%
9185 \let\@RTLfootnotetext\bidipoem@p@RTLfnttext%
9186 \let\@xfootnotenext\bidipoem@p@xftntext%
9187 \let\@xfootnote\bidipoem@p@xfootnote%
9188 \let\@xLTRfootnotenext\bidipoem@p@xLTRfnttext%
9189 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9190 \let\@xRTLfootnotenext\bidipoem@p@xRTLfnttext%
9191 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9192 \color@begingroup}
9193 \gdef\@stopfield{%
9194 \color@endgroup\egroup\global\bidipoem@p@fnt\expandafter{\expandafter}\the\bidipoem@p@fnt
9195 \gdef\@contfield{%
9196 \global\setbox\@curfield\hbox\bgroup%
9197 \let\@footnotetext\bidipoem@p@fnttext%
9198 \let\@LTRfootnotetext\bidipoem@p@LTRfnttext%
9199 \let\@RTLfootnotetext\bidipoem@p@RTLfnttext%
9200 \let\@xfootnotenext\bidipoem@p@xftntext%
9201 \let\@xfootnote\bidipoem@p@xfootnote%
9202 \let\@xLTRfootnotenext\bidipoem@p@xLTRfnttext%
9203 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9204 \let\@xRTLfootnotenext\bidipoem@p@xRTLfnttext%
9205 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9206 \color@begingroup\unhbox\@curfield}

```

## 62 File boek3-xetex-bidi.def

```

9207 \ProvidesFile{boek3-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek3 class for Xe
9208 \renewenvironment{theindex}{%
9209 \if@twocolumn
9210 \@restonecolfalse
9211 \else
9212 \@restonecoltrue

```



```

9213 \fi
9214 \columnseprule \z@
9215 \columnsep 35\p@
9216 \twocolumn[\@makeschapterhead{\indexname}]{%
9217 \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
9218 \thispagestyle{plain}\parindent\z@
9219 \parskip\z@ \@plus .3\p@\relax
9220 \let\item\@idxitem
9221 }{%
9222 \if@restonecol\onecolumn\else\clearpage\fi}
9223 \renewcommand*{\head@style}{%
9224 \interlinepenalty \@M
9225 \hyphenpenalty=\@M \exhyphenpenalty=\@M
9226 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9227 \renewcommand*{\@regtocline[3]}{%
9228 \ifnum #1>\c@tocdepth
9229 \else
9230 \vskip\z@ \@plus .2\p@
9231 {\hangindent\z@ \@afterindenttrue \interlinepenalty \@M
9232 \if@RTL\rightskip\else\leftskip\fi\unitindent
9233 \if@RTL\leftskip\else\rightskip\fi\unitindent \@plus 1fil
9234 \parfillskip\z@
9235 \@tempdima\unitindent
9236 \parindent\z@
9237 \leavevmode
9238 \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9239 \hskip 1em \nobreak{\slshape #3}\par
9240 }%
9241 \fi}
9242 \if@oldtoc
9243 \renewcommand*\l@part[2]{%
9244 \ifnum \c@tocdepth >-2\relax
9245 \addpenalty{-\@highpenalty}%
9246 \addvspace{2.25em \@plus\p@}%
9247 \begingroup
9248 \setlength\@tempdima{3em}%
9249 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9250 \parfillskip -\@pnumwidth
9251 {\leavevmode
9252 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9253 \nobreak
9254 \global\@nobreaktrue
9255 \everypar{\global\@nobreakfalse\everypar{}}}%
9256 \endgroup
9257 \fi}
9258 \else
9259 \renewcommand*\l@part{%
9260 \ifnum \c@tocdepth >-2\relax
9261 \addpenalty{-\@highpenalty}%
9262 \addvspace{2.25em \@plus \p@}%
9263 \@regtocline{0}%
9264 \fi}
9265 \fi
9266 \if@oldtoc

```



```

9267 \renewcommand*\l@chapter[2]{%
9268     \addpenalty{-\@highpenalty}%
9269     \vskip 1.0em \@plus\p@
9270     \setlength\@tempdima{1.5em}%
9271     \begingroup
9272     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9273     \parfillskip -\@pnumwidth
9274     \leavevmode \bfseries
9275     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9276     \hskip -\if@RTL\rightskip\else\leftskip\fi
9277     #1\nobreak\hfil \nobreak\hbext@\@pnumwidth{\hss #2}\par
9278     \penalty\@highpenalty
9279     \endgroup}
9280 \else
9281     \renewcommand*\l@chapter{\@regtocline{0}}
9282 \fi
9283 \renewenvironment{abstract}{%
9284     \titlepage
9285     \null\vfil
9286     \section*{\SectFont \abstractname}
9287     \noindent\ignorespaces}
9288     {\par\vfil\null\endtitlepage}
9289 \renewenvironment{thebibliography}[1]
9290     {\chapter*{\bibname}}%
9291     {\mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
9292     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9293     \bidi@thebibliography@font@hook%
9294     \list{\@biblabel{\@arabic\c@enumiv}}%
9295         {\settowidth\labelwidth{\@biblabel{#1}}%
9296         \leftmargin\labelwidth
9297         \advance\leftmargin\labelsep
9298         \@openbib@code
9299         \usecounter{enumiv}%
9300         \let\p@enumiv\@empty
9301         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9302     \sloppy\clubpenalty4000\widowpenalty4000%
9303     \sfcode\.\@m}
9304     {\def\@noitemerr
9305         {\@latex@warning{Empty `thebibliography' environment}}%
9306     \endlist}
9307 \renewcommand*\left@footnoterule{%
9308     \kern-3\p@
9309     \kern.5\baselineskip
9310     \hrule\@width\unitindent
9311     \kern.4\baselineskip
9312 }
9313 \renewcommand*\right@footnoterule{%
9314     \kern-3\p@
9315     \kern.5\baselineskip
9316     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9317     \kern.4\baselineskip}
9318 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9319 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9320 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}

```



```

9321 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9322 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9323 \renewcommand*\theequation{%
9324   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9325 \renewcommand*\thefigure{%
9326   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9327 \renewcommand*\thetable{%
9328   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9329 \renewcommand*\maketitle{%
9330   \begin{titlepage}%
9331     \let\footnotesize\small
9332     \let\right@footnoterule\relax
9333     \let\left@footnoterule\relax
9334     \let\textwidth\footnoterule\relax
9335     \let \footnote \thanks
9336     \long\def\@makefntext##1{\parindent\z@
9337       \def\labelitemi{\textendash}\@revlabeltrue
9338       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9339     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9340     \if@compatibility\setcounter{page}{0}\fi
9341     \null\vfil
9342     \vskip 60\p@
9343     \begin{center}%
9344       \TitleFont
9345       {\LARGE \def\\{\penalty -\@M}
9346         \if@allcaps
9347           \expandafter\uc@nothanks\@title\thanks\relax
9348         \else
9349           \@title
9350         \fi\par}%
9351       \vskip 3em%
9352       {\large
9353         \lineskip .75em \parindent\z@
9354         \begin{tabular}[t]{c}%
9355           \if@allcaps
9356             \expandafter\uc@authornothanks\@author\and\relax
9357           \else
9358             \@author
9359           \fi
9360         \end{tabular}\par}%
9361       \vskip 1.5em%
9362       {\large
9363         \if@allcaps
9364           \uppercase\expandafter{\@date}%
9365         \else
9366           \@date
9367         \fi\par}%
9368       \end{center}\par
9369     \@thanks
9370     \vfil\null
9371   \end{titlepage}%
9372   \setcounter{footnote}{0}%
9373   \global\let\thanks\relax
9374   \global\let\maketitle\relax

```



```

9375 \global\let\@thanks\@empty
9376 \global\let\@author\@empty
9377 \global\let\@title\@empty
9378 \global\let\@date\@empty
9379 \global\let\title\relax
9380 \global\let\author\relax
9381 \global\let\date\relax
9382 \global\let\and\relax
9383 }

```

## 63 File boek-xetex-bidi.def

```

9384 \ProvidesFile{boek-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek class for XeTeX]
9385 \renewenvironment{theindex}{%
9386   \if@twocolumn
9387     \@restonecolfalse
9388   \else
9389     \@restonecoltrue
9390   \fi
9391   \columnseprule \z@
9392   \columnsep 35\p@
9393   \twocolumn[\@makeschapterhead{\indexname}]{%
9394     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9395     \thispagestyle{plain}\parindent\z@
9396     \parskip\z@ \@plus .3\p@\relax
9397     \let\item\@idxitem
9398   }{%
9399     \if@restonecol\onecolumn\else\clearpage\fi}
9400 \renewcommand*{\head@style}{%
9401   \interlinepenalty \@M
9402   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9403   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9404 \renewcommand*{\@regtocline}[3]{%
9405   \ifnum #1>\c@tocdepth
9406   \else
9407     \vskip\z@\@plus.2\p@
9408     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9409     \if@RTL\rightskip\else\leftskip\fi\unitindent
9410     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9411     \parfillskip\z@
9412     \@tempdima\unitindent
9413     \parindent\z@
9414     \leavevmode
9415     \hbox{\hspace -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9416     \hspace 1em \nobreak{\slshape #3}\par
9417     }%
9418   \fi}
9419 \if@oldtoc
9420 \renewcommand*\l@part[2]{%
9421   \ifnum \c@tocdepth >-2\relax
9422     \addpenalty{-\@highpenalty}%
9423     \addvspace{2.25em \@plus\p@}%
9424     \begingroup
9425     \setlength\@tempdima{3em}%

```



```

9426     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9427     \parfillskip -\@pnumwidth
9428     {\leavevmode
9429       \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9430       \nobreak
9431       \global\@nobreaktrue
9432       \everypar{\global\@nobreakfalse\everypar{}}}%
9433   \endgroup
9434 \fi}
9435 \else
9436   \renewcommand*\l@part{%
9437     \ifnum \c@tocdepth >-2\relax
9438       \addpenalty{-\@highpenalty}%
9439       \addvspace{2.25em \@plus \p@}%
9440       \@regtocline{0}%
9441     \fi}
9442 \fi
9443 \if@oldtoc
9444 \renewcommand*\l@chapter[2]{%
9445   \addpenalty{-\@highpenalty}%
9446   \vskip 1.0em \@plus \p@
9447   \setlength\@tempdima{1.5em}%
9448   \begingroup
9449     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9450     \parfillskip -\@pnumwidth
9451     \leavevmode \bfseries
9452     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9453     \hskip -\if@RTL\rightskip\else\leftskip\fi
9454     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9455     \penalty\@highpenalty
9456   \endgroup}
9457 \else
9458   \renewcommand*\l@chapter{\@regtocline{0}}
9459 \fi
9460 \renewcommand*\left@footnoterule{%
9461   \kern-3\p@
9462   \kern.5\baselineskip
9463   \hrule\@width\unitindent
9464   \kern.4\baselineskip
9465 }
9466 \renewcommand*\right@footnoterule{%
9467   \kern-3\p@
9468   \kern.5\baselineskip
9469   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9470   \kern.4\baselineskip}
9471 \renewenvironment{abstract}{%
9472   \titlepage
9473   \null\vfil
9474   \section*{\SectFont \abstractname}
9475   \noindent\ignorespaces}
9476 {\par\vfil\null\endtitlepage}
9477 \renewenvironment{thebibliography}[1]
9478 {\chapter*{\bibname}%
9479   \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%

```





```

9480 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9481 \bidi@thebibliography@font@hook%
9482 \list{\@biblabel{\@arabic\c@enumiv}}%
9483 {\settowidth\labelwidth{\@biblabel{#1}}%
9484 \leftmargin\labelwidth
9485 \advance\leftmargin\labelsep
9486 \@openbib@code
9487 \usecounter{enumiv}%
9488 \let\p@enumiv\@empty
9489 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9490 \sloppy\clubpenalty4000\widowpenalty4000%
9491 \sfcode`. \m}
9492 {\def\@noitemerr
9493 {\@latex@warning{Empty `thebibliography' environment}}%
9494 \endlist}
9495 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9496 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9497 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9498 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9499 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9500 \renewcommand*\theequation{%
9501 \ifnum \c@chapter>z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9502 \renewcommand*\thefigure{%
9503 \ifnum\c@chapter>z@\thechapter\@SepMark\fi\@arabic\c@figure}
9504 \renewcommand*\thetable{%
9505 \ifnum\c@chapter>z@\thechapter\@SepMark\fi\@arabic\c@table}
9506 \renewcommand*\maketitle{%
9507 \begin{titlepage}%
9508 \let\footnotesize\small
9509 \let\right@footnoterule\relax
9510 \let\left@footnoterule\relax
9511 \let\textwidth@footnoterule\relax
9512 \let \footnote \thanks
9513 \long\def\@makefnmark{\parindent\z@
9514 \def\labelitemi{\textendash}\@revlabeltrue
9515 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9516 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9517 \if@compatibility\setcounter{page}{0}\fi
9518 \null\vfil
9519 \vskip 60\p@
9520 \begin{center}%
9521 \TitleFont
9522 {\LARGE \def\{\{\penalty -\@M}
9523 \if@allcaps
9524 \expandafter\uc@nothanks\@title\thanks\relax
9525 \else
9526 \@title
9527 \fi\par}%
9528 \vskip 3em%
9529 {\large
9530 \lineskip .75em \parindent\z@
9531 \begin{tabular}[t]{c}%
9532 \if@allcaps
9533 \expandafter\uc@authornothanks\@author\and\relax

```



```

9534         \else
9535         \@author
9536         \fi
9537     \end{tabular}\par}%
9538     \vskip 1.5em%
9539     {\large
9540     \if@allcaps
9541     \uppercase\expandafter{\@date}%
9542     \else
9543     \@date
9544     \fi\par}%
9545     \end{center}\par
9546     \@thanks
9547     \vfil\null
9548 \end{titlepage}%
9549 \setcounter{footnote}{0}%
9550 \global\let\thanks\relax
9551 \global\let\maketitle\relax
9552 \global\let\@thanks\@empty
9553 \global\let\@author\@empty
9554 \global\let\@title\@empty
9555 \global\let\@date\@empty
9556 \global\let\title\relax
9557 \global\let\author\relax
9558 \global\let\date\relax
9559 \global\let\and\relax
9560 }

```

## 64 File bookest-xetex-bidi.def

```

9561 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class fo
9562 \def\@makechapterhead#1{%
9563     \vspace*{20\p@}
9564     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9565     \ifnum \c@secnumdepth >\m@ne
9566     \if@mainmatter
9567     {\colorA\huge\scshape \@chapapp\space \thechapter}
9568     \par\nobreak
9569     \vskip 10\p@
9570     \fi
9571     \fi
9572     \interlinepenalty\@M
9573     {\colorB\hrule}
9574     \vskip 15\p@
9575     \if@RTL\begin{flushleft}\else\begin{flushright}\fi
9576     {\colorA\Huge \bfseries #1}\par\nobreak
9577     \if@RTL\end{flushleft}\else\end{flushright}\fi
9578     \vskip 5\p@
9579     {\colorB\hrule}
9580     \vskip 30\p@
9581     }}
9582 \def\@makeschapterhead#1{%
9583     \vspace*{20\p@}
9584     {\parindent \z@ \raggedright \normalfont

```



```

9585 {\colorB\hrule}
9586 \vskip 15\p@
9587 \begin{center}
9588   {\colorA\Huge \bfseries #1}\par\nobreak
9589 \end{center}
9590 \vskip 5\p@
9591 {\colorB\hrule}
9592 \vskip 30\p@
9593 }

```

## 65 File book-xetex-bidi.def

```

9594 \ProvidesFile{book-xetex-bidi.def}[2017/06/09 v1.0 bidi adaptations for standard book class]
9595 \renewenvironment{theindex}
9596   {\if@twocolumn
9597     \@restonecolfalse
9598   \else
9599     \@restonecoltrue
9600   \fi
9601   \columnseprule \z@
9602   \columnsep 35\p@
9603   \twocolumn[\@makeschapterhead{\indexname}]}%
9604   \@mkboth{\MakeUppercase\indexname}%
9605           {\MakeUppercase\indexname}%
9606   \thispagestyle{plain}\parindent\z@
9607   \parskip\z@ \@plus .3\p@\relax
9608   \let\item\@idxitem}
9609   {\if@restonecol\onecolumn\else\clearpage\fi}
9610 \@ifclassloaded{bookest}{\}{%
9611   \if@titlepage
9612     \renewcommand\maketitle{\begin{titlepage}%
9613       \let\footnotesize\small
9614       \let\right@footnoterule\relax
9615       \let\left@footnoterule\relax
9616       \let\textwidth@footnoterule\relax
9617       \let \footnote \thanks
9618       \let \LTRfootnote \LTRthanks
9619       \let \RTLfootnote \RTLthanks
9620       \null\vfil
9621       \vskip 60\p@
9622       \begin{center}%
9623         {\LARGE \@title \par}%
9624         \vskip 3em%
9625         {\large
9626           \lineskip .75em%
9627           \begin{tabular}[t]{c}%
9628             \@author
9629           \end{tabular}\par}%
9630         \vskip 1.5em%
9631         {\large \@date \par}%           % Set date in \large size.
9632       \end{center}\par
9633       \@thanks
9634       \vfil\null
9635     \end{titlepage}%

```



```

9636 \setcounter{footnote}{0}%
9637 \global\let\thanks\relax
9638 \global\let\LTRthanks\relax
9639 \global\let\RTLthanks\relax
9640 \global\let\maketitle\relax
9641 \global\let\@thanks\@empty
9642 \global\let\@author\@empty
9643 \global\let\@date\@empty
9644 \global\let\@title\@empty
9645 \global\let\title\relax
9646 \global\let\author\relax
9647 \global\let\date\relax
9648 \global\let\and\relax
9649 }
9650 \else
9651 \renewcommand\maketitle{\par
9652 \begingroup
9653 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
9654 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
9655 \long\def\@makefntext##1{\parindent 1em\noindent
9656 \hb@xt@1.8em{%
9657 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
9658 \if@twocolumn
9659 \ifnum \col@number=\@ne
9660 \@maketitle
9661 \else
9662 \twocolumn[\@maketitle]%
9663 \fi
9664 \else
9665 \newpage
9666 \global\@topnum\z@ % Prevents figures from going at top of page.
9667 \@maketitle
9668 \fi
9669 \thispagestyle{plain}\@thanks
9670 \endgroup
9671 \setcounter{footnote}{0}%
9672 \global\let\thanks\relax
9673 \global\let\LTRthanks\relax
9674 \global\let\RTLthanks\relax
9675 \global\let\maketitle\relax
9676 \global\let\@maketitle\relax
9677 \global\let\@thanks\@empty
9678 \global\let\@author\@empty
9679 \global\let\@date\@empty
9680 \global\let\@title\@empty
9681 \global\let\title\relax
9682 \global\let\author\relax
9683 \global\let\date\relax
9684 \global\let\and\relax
9685 }
9686 \def\@maketitle{%
9687 \newpage
9688 \null
9689 \vskip 2em%

```



```

9690 \begin{center}%
9691 \let \footnote \thanks
9692 \let \LTRfootnote \LTRthanks
9693 \let \RTLfootnote \RTLthanks
9694 {\LARGE \@title \par}%
9695 \vskip 1.5em%
9696 {\large
9697 \lineskip .5em%
9698 \begin{tabular}[t]{c}%
9699 \author
9700 \end{tabular}\par}%
9701 \vskip 1em%
9702 {\large \@date}%
9703 \end{center}%
9704 \par
9705 \vskip 1.5em}
9706 \fi}
9707 \renewcommand*\l@part[2]{%
9708 \ifnum \c@tocdepth >-2\relax
9709 \addpenalty{-\@highpenalty}%
9710 \addvspace{2.25em \@plus\p@}%
9711 \setlength\@tempdima{3em}%
9712 \begingroup
9713 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9714 \parfillskip -\@pnumwidth
9715 {\leavevmode
9716 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9717 \nobreak
9718 \global\@nobreaktrue
9719 \everypar{\global\@nobreakfalse\everypar{}}%
9720 \endgroup
9721 \fi}
9722 \renewcommand*\l@chapter[2]{%
9723 \ifnum \c@tocdepth >\m@ne
9724 \addpenalty{-\@highpenalty}%
9725 \vskip 1.0em \@plus\p@
9726 \setlength\@tempdima{1.5em}%
9727 \begingroup
9728 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9729 \parfillskip -\@pnumwidth
9730 \leavevmode \bfseries
9731 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9732 \hskip -\if@RTL\rightskip\else\leftskip\fi
9733 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9734 \penalty\@highpenalty
9735 \endgroup
9736 \fi}
9737 \renewcommand\left@footnoterule{%
9738 \kern-3\p@
9739 \hrule\@width.4\columnwidth
9740 \kern2.6\p@}
9741 \renewcommand\right@footnoterule{%
9742 \kern-3\p@
9743 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }}

```



```

9744 \kern2.6\p@}
9745 \renewcommand\theequation
9746 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
9747 \renewcommand \thefigure
9748 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
9749 \renewcommand \thetable
9750 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
9751 \renewcommand \thechapter {\@arabic\c@chapter}
9752 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
9753 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
9754 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
9755 \renewcommand \theparagraph {\thesubsubsection \@SepMark\@arabic\c@paragraph}
9756 \renewcommand \thesubparagraph {\theparagraph \@SepMark\@arabic\c@subparagraph}
9757 \def\@makechapterhead#1{%
9758 \vspace*{50\p@}%
9759 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9760 \ifnum \c@secnumdepth >\m@ne
9761 \if@mainmatter
9762 \huge\bfseries \@chapapp\space \thechapter
9763 \par\nobreak
9764 \vskip 20\p@
9765 \fi
9766 \fi
9767 \interlinepenalty\@M
9768 \Huge \bfseries #1\par\nobreak
9769 \vskip 40\p@
9770 }}
9771 \def\@makeschapterhead#1{%
9772 \vspace*{50\p@}%
9773 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
9774 \normalfont
9775 \interlinepenalty\@M
9776 \Huge \bfseries #1\par\nobreak
9777 \vskip 40\p@
9778 }}
9779 \renewcommand\backmatter{%
9780 \if@openright
9781 \cleardoublepage
9782 \else
9783 \clearpage
9784 \fi
9785 \@mainmatterfalse}
9786 \renewenvironment{thebibliography}[1]
9787 {\chapter*{\bibname}%
9788 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9789 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9790 \bidi@thebibliography@font@hook%
9791 \list{\@biblabel{\@arabic\c@enumiv}}%
9792 {\settowidth\labelwidth{\@biblabel{#1}}%
9793 \leftmargin\labelwidth
9794 \advance\leftmargin\labelsep
9795 \@openbib@code
9796 \usecounter{enumiv}%
9797 \let\p@enumiv\@empty

```



```

9798         \renewcommand\theenumiv{\@arabic\c@enumiv}}}%
9799     \sloppy
9800     \clubpenalty4000
9801     \@clubpenalty \clubpenalty
9802     \widowpenalty4000%
9803     \sfcode`.\@m}
9804     {\def\@noitemerr
9805       {\@latex@warning{Empty `thebibliography' environment}}}%
9806     \endlist}

```

## 66 File breqn-xetex-bidi.def

```

9807 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for
9808 \def\@dmath[#1]{\if@RTL\@RTLfalse\fi%
9809   \everydisplay\expandafter{\the\everydisplay \display@setup}%
9810   \if@noskipsec \leavevmode \fi
9811   \if@inlabel \leavevmode \global\@inlabelfalse \fi
9812   \if@eq@group\else\eq@prelim\fi
9813   \setkeys{breqn}{#1}%
9814   \the\eqstyle
9815   \eq@setnumber
9816   \begingroup
9817   \eq@setup@a
9818   \eq@startup
9819 }
9820 \def\@dgroup[#1]{\if@RTL\@RTLfalse\fi%
9821   \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
9822   \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
9823   \global\let\GRP@label\@empty
9824   \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
9825   \global\grp@linewidth\z@\global\grp@wdNum\z@
9826   \global\let\grp@eqs@numbered\@False
9827   \global\let\grp@aligned\@True
9828   \global\let\grp@shiftnumber\@False
9829   \eq@prelim
9830   \setkeys{breqn}{#1}%
9831   \if\grp@hasNumber \grp@setnumber \fi
9832 }
9833 \def\@dseries[#1]{\if@RTL\@RTLfalse\fi%
9834   \let\display@setup\dseries@display@setup
9835   % Question: should this be the default for dseries???
9836   \global\eq@wdCond\z@
9837   \@dmath[layout={M},#1]%
9838   \mathsurround\z@\@math \penalty\@Mi
9839   \let\endmath\ends@math
9840   \def\premath{%
9841     \ifdim\lastskip<.3em \unskip
9842     \else\ifnum\lastpenalty<\@M \dquad\fi\fi
9843 }%
9844   \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
9845   \ignorespaces
9846 }
9847 \def\eqnumform#1{\if@nonlatin\beginR\@RTLtrue\fi(#1\@@italiccorr)\if@nonlatin\endR\fi}
9848 \renewenvironment{dsuspend}{%

```



```

9849 \global\setbox\EQ@box\vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
9850 \parshape 1 \displayindent \displaywidth\relax
9851 \hsize=\columnwidth \noindent\ignorespaces
9852 }{%
9853 \par\egroup
9854 \global\setbox\GRP@box\vbox{%
9855 \hbox{\copy\EQ@box\top{\unvbox\EQ@box}}%
9856 \unvbox\GRP@box
9857 }%
9858 \global\GRP@queue\@xp{\the\GRP@queue
9859 \@elt{\let\eq@isIntertext\@True}%
9860 }%
9861 }

```

## 67 File cals-xetex-bidi.def

```

9862 \ProvidesFile{cals-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for cals package for Xe
9863 \renewcommand\cals@setup@alignment[1]{%
9864 \if c#1\relax \cals@vfillAdd \leftskip \cals@vfillAdd \rightskip \fi
9865 \if l#1\relax \cals@vfillDrop\leftskip \cals@vfillDrop\rightskip \fi
9866 \if r#1\relax \cals@vfillAdd \leftskip \cals@vfillDrop\rightskip \fi
9867 }
9868 \renewcommand\cals@table@alignment{\if@RTLtab r\else l\fi}
9869 \renewenvironment{calstable}[1][\cals@table@alignment]{%
9870 \if@RTLtab\cals@activate@rtl\fi
9871 \let\cals@thead@tokens=\relax
9872 \let\cals@tfoot@tokens=\relax
9873 \let\cals@tbody@tokens=\relax
9874 \cals@tfoot@height=0pt \relax
9875 \let\cals@last@context=n%
9876 \let\cals@current@context=b%
9877 \parindent=0pt \relax%
9878 \cals@setup@alignment{#1}%
9879 \cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsize%
9880 %% Alignment inside is independent on center/flushright outside
9881 \parfillskip=0pt plus1fil\relax
9882 \let\cals@borderL=\relax
9883 \let\cals@borderR=\relax
9884 \let\cals@borderT=\relax
9885 \let\cals@borderB=\relax
9886 \setbox\cals@backup@row=\box\voidb@x\relax
9887 \cals@AtBeginTable
9888 }{% End of the table
9889 \cals@tfoot@tokens\lastrule\cals@AtEndTable}
9890 \renewcommand\alignL{%
9891 \if@RTLtab
9892 \cals@vfillAdd\cals@paddingL
9893 \else
9894 \cals@vfillDrop\cals@paddingL
9895 \fi
9896 \cals@vfillDrop\cals@paddingR}
9897 \renewcommand\alignR{%
9898 \if@RTLtab
9899 \cals@vfillDrop\cals@paddingL

```





```

9900 \else
9901   \cals@vfillAdd\cals@paddingL
9902 \fi
9903 \cals@vfillDrop\cals@paddingR}

```

## 68 File caption-xetex-bidi.def

```

9904 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package
9905 \let\@makecaption\caption@makecaption

```

## 69 File caption3-xetex-bidi.def

```

9906 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package
9907 \renewcommand*\caption@par{%
9908   \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```

## 70 File colortbl-xetex-bidi.def

```

9909 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package
9910 \def\CT@setup{%
9911   \@tempdimb\col@sep
9912   \@tempdimc\col@sep
9913   \def\CT@color{%
9914     \global\let\CT@do@color\CT@@do@color
9915     \bidicolor}}
9916 \def\@classz{\@classx
9917   \@tempcnta \count@
9918   \prepnext@tok
9919 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
9920   \@addtopreamble{\if@RTLtab\beginL\fi%
9921     \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
9922       \ifcase \@chnum
9923         \hskip\stretch{.5}\kern\z@
9924         \d@llarbegin
9925         \insert@column
9926         \d@llarend\hskip\stretch{.5}\or
9927         \d@llarbegin \insert@column \d@llarend \hfill \or
9928         \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
9929       $\vcenter
9930       \@startpbox{\@nextchar}\insert@column \@endpbox $\or
9931       \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
9932       \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
9933     \fi
9934   \if@RTLtab\endR\fi\egroup\egroup
9935 \begingroup
9936   \CT@setup
9937   \CT@column@color
9938   \CT@row@color
9939   \CT@cell@color
9940   \CT@do@color
9941 \endgroup
9942   \@tempdima\ht\z@
9943   \advance\@tempdima\minrowclearance
9944   \vrule\@height\@tempdima\@width\z@

```



```

9945      \unhbox\z@\if@RTLtab\endL\fi}%
9946      \prepnext@tok}

```

## 71 File color-xetex-bidi.def

```

9947 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for
9948 \long\def\color@b@x#1#2#3{%
9949   \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
9950   \setbox\z@\hbox{\kern\fbxsep{\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbxsep}%
9951   \dimen@ \ht\z@\advance\dimen@\fbxsep\ht\z@\dimen@
9952   \dimen@ \dp\z@\advance\dimen@\fbxsep\dp\z@\dimen@
9953   {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}%
9954     \box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
9955 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
9956 \DeclareRobustCommand\color{%
9957   \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor]{}
9958 \def\@declaredcolor#1{%
9959   \@ifundefined{\string\color @#1}%
9960     {\c@lor@error{`#1'}}%
9961     {\expandafter\let\expandafter\current@color
9962       \csname\string\color @#1\endcsname
9963       \set@color}%
9964   \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9965 \def\@undeclaredcolor[#1]#2{%
9966   \@ifundefined{color@#1}%
9967     {\c@lor@error{model `#1'}}%
9968     {\csname color@#1\endcsname\current@color{#2}%
9969       \set@color}%
9970   \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9971 \DeclareRobustCommand\bidicolor{%
9972   \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor]{}
9973 \def\@bidiundeclaredcolor[#1]#2{%
9974   \@ifundefined{color@#1}%
9975     {\c@lor@error{model `#1'}}%
9976     {\csname color@#1\endcsname\current@color{#2}%
9977       \set@color}%
9978   \ignorespaces}
9979 \def\@bidideclaredcolor#1{%
9980   \@ifundefined{\string\color @#1}%
9981     {\c@lor@error{`#1'}}%
9982     {\expandafter\let\expandafter\current@color
9983       \csname\string\color @#1\endcsname
9984       \set@color}%
9985   \ignorespaces}
9986 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
9987 \def\color@fbx#1#2#3{%
9988   \color@b@x{\fbxsep\z@\bidicolor#1{#2}\fbx}{\bidicolor#1{#3}}}
9989 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmo

```

## 72 File combine-xetex-bidi.def

```

9990 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class fo
9991 \renewcommand{\c@ll@chapsecii}[2]{%
9992   \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi

```



```

9993 \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
9994 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9995 }
9996 \renewcommand{\c@ll@chapseci}{%
9997 \setlength\@tempdima{0em}%
9998 \begin{group}
9999 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
10000 \parfillskip -\@pnumwidth
10001 \leavevmode
10002 }
10003 \renewenvironment{tocindent}[1]{%
10004 \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```

## 73 File crop-xetex-bidi.def

```

10005 \ProvidesFile{crop-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for crop package for Xe
10006 \renewcommand*\CROP@ulc{%
10007 \if@RTLmain%
10008 \begin{picture}(0,0)
10009 \unitlength\p@\thinline
10010 \put(-40,0){\circle{10}}
10011 \put(-30,-5){\line(0,1){10}}
10012 \put(-35,0){\line(1,0){30}}
10013 \put(-10,30){\circle{10}}
10014 \put(-5,30){\line(1,0){10}}
10015 \put(0,35){\line(0,-1){30}}
10016 \end{picture}%
10017 \else%
10018 \begin{picture}(0,0)
10019 \unitlength\p@\thinline
10020 \put(-30,0){\circle{10}}
10021 \put(-30,-5){\line(0,1){10}}
10022 \put(-35,0){\line(1,0){30}}
10023 \put(0,30){\circle{10}}
10024 \put(-5,30){\line(1,0){10}}
10025 \put(0,35){\line(0,-1){30}}
10026 \end{picture}%
10027 \fi%
10028 }
10029 \renewcommand*\CROP@urc{%
10030 \if@RTLmain%
10031 \begin{picture}(0,0)
10032 \unitlength\p@\thinline
10033 \put(20,0){\circle{10}}
10034 \put(30,-5){\line(0,1){10}}
10035 \put(35,0){\line(-1,0){30}}
10036 \put(-10,30){\circle{10}}
10037 \put(-5,30){\line(1,0){10}}
10038 \put(0,35){\line(0,-1){30}}
10039 \end{picture}%
10040 \else%
10041 \begin{picture}(0,0)
10042 \unitlength\p@\thinline
10043 \put(30,0){\circle{10}}

```



```

10044      \put(30,-5){\line(0,1){10}}
10045      \put(35,0){\line(-1,0){30}}
10046      \put(0,30){\circle{10}}
10047      \put(-5,30){\line(1,0){10}}
10048      \put(0,35){\line(0,-1){30}}
10049      \end{picture}%
10050      \fi%
10051  }
10052  \renewcommand*\CROP@llc{%
10053    \if@RTLmain%
10054      \begin{picture}(0,0)
10055        \unitlength\p@\thinline
10056        \put(-40,0){\circle{10}}
10057        \put(-30,-5){\line(0,1){10}}
10058        \put(-35,0){\line(1,0){30}}
10059        \put(-10,-30){\circle{10}}
10060        \put(-5,-30){\line(1,0){10}}
10061        \put(0,-35){\line(0,1){30}}
10062      \end{picture}%
10063    \else%
10064      \begin{picture}(0,0)
10065        \unitlength\p@\thinline
10066        \put(-30,0){\circle{10}}
10067        \put(-30,-5){\line(0,1){10}}
10068        \put(-35,0){\line(1,0){30}}
10069        \put(0,-30){\circle{10}}
10070        \put(-5,-30){\line(1,0){10}}
10071        \put(0,-35){\line(0,1){30}}
10072      \end{picture}%
10073      \fi%
10074  }
10075  \renewcommand*\CROP@lrc{%
10076    \if@RTLmain%
10077      \begin{picture}(0,0)
10078        \unitlength\p@\thinline
10079        \put(20,0){\circle{10}}
10080        \put(30,-5){\line(0,1){10}}
10081        \put(35,0){\line(-1,0){30}}
10082        \put(-10,-30){\circle{10}}
10083        \put(-5,-30){\line(1,0){10}}
10084        \put(0,-35){\line(0,1){30}}
10085      \end{picture}%
10086    \else%
10087      \begin{picture}(0,0)
10088        \unitlength\p@\thinline
10089        \put(30,0){\circle{10}}
10090        \put(30,-5){\line(0,1){10}}
10091        \put(35,0){\line(-1,0){30}}
10092        \put(0,-30){\circle{10}}
10093        \put(-5,-30){\line(1,0){10}}
10094        \put(0,-35){\line(0,1){30}}
10095      \end{picture}%
10096      \fi%
10097  }

```



```

10098 \@ifpackagewith{crop}{cam}{%
10099 \CROP@execopt{cam}%
10100 }{}

```

## 74 File cutwin-xetex-bidi.def

```

10101 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
10102 \renewcommand*{\c@twcompctr}[2]{%
10103   \def\c@twfirst{1}
10104   \loop\advance\c@twinlines\m@ne
10105   \setbox\c@twslicea=\vsplit#1 to\baselineskip
10106   \setbox\c@twsliceb=\vsplit#1 to\baselineskip
10107   \c@twprune{\c@twslicea}{\c@twlftside}%
10108   \c@twprune{\c@twsliceb}{\c@twrtside}%
10109   \ifnum\c@twfirst=\@ne
10110     \setbox#2=\vbox{\unvbox#2\hbox
10111       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tw
10112     \else
10113       \setbox#2=\vbox{\unvbox#2\hbox
10114       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\
10115     \fi
10116   \def\c@twfirst{2}
10117   \ifnum\c@twinlines>\z@\repeat}
10118 \renewcommand*{\c@twcompodctr}[2]{%
10119   \def\c@twrounds{1}
10120   \def\c@twfirst{1}
10121   \@for\c@twlspec:=\c@twb\do{%
10122     \ifnum\c@twrounds=1
10123       \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
10124       \c@twprune{\c@twslicea}{\c@twlspec}%
10125       \def\c@twrounds{2}
10126     \else
10127       \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
10128       \c@twprune{\c@twsliceb}{\c@twlspec}%
10129       \ifnum\c@twfirst=1
10130         \setbox#2=\vbox{\unvbox#2\hbox
10131           to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\if@RTL
10132         \def\c@twfirst{2}
10133       \else
10134         \setbox#2=\vbox{\unvbox#2\hbox
10135         to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\el
10136       \fi
10137     \def\c@twrounds{1}
10138   \fi}}

```

## 75 File cuted-xetex-bidi.def

```

10139 \ProvidesFile{cuted-xetex-bidi.def}[2022/02/18 v0.7 bidi adaptations for cuted package for
10140
10141 \def\RTL@outputdblcol{%
10142   \if@firstcolumn
10143     \global\@firstcolumnfalse
10144     \global\setbox\@leftcolumn\copy\@outputbox
10145     \splitmaxdepth\maxdimen

```



```

10146 \vbadness\maxdimen
10147 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10148 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10149 \toks@\expandafter{\topmark}%
10150 \xdef\@firstcoltopmark{\the\toks@}%
10151 \toks@\expandafter{\splitfirstmark}%
10152 \xdef\@firstcolfirstmark{\the\toks@}%
10153 \ifx\@firstcolfirstmark\@empty
10154 \global\let\@setmarks\relax
10155 \else
10156 \gdef\@setmarks{%
10157 \let\firstmark\@firstcolfirstmark
10158 \let\topmark\@firstcoltopmark}%
10159 \fi
10160 \else
10161 \global\@firstcolumntrue
10162 \setbox\@outputbox\vbox{%
10163 \hb@xt@\textwidth{%
10164 \hskip \columnwidth
10165 \hfil
10166 {\normalcolor\vrule \@width\columnseprule}%
10167 \hfil
10168 \hb@xt@\columnwidth{%
10169 \bidi@firstcolumn@status@write%
10170 \box\@leftcolumn \hss}%
10171 \hskip -\textwidth
10172 \hb@xt@\columnwidth{%
10173 \bidi@lastcolumn@status@write%
10174 \box\@outputbox \hss}%
10175 \hskip \columnsep
10176 \hskip \columnwidth }}%
10177 \ifvoid\hold@viper
10178 \else
10179 \setbox\@outputbox \vbox to\textheight{%
10180 \box\hold@viper
10181 \box\@outputbox
10182 \vss
10183 }%
10184 \fi
10185 \@combinedblfloats
10186 \@setmarks
10187 \@outputpage
10188 \beginngroup
10189 \@dblfloatplacement
10190 \@startdblcolumn
10191 \@whiles\if@fcolmade \fi{\@outputpage
10192 \@startdblcolumn}%
10193 \ifvoid\@viper
10194 \else
10195 \global\setbox\@viper\vbox{%
10196 \vskip-\stripsep
10197 \unvbox\@viper
10198 }%
10199 \@viperoutput

```



```

10200     \fi
10201     \endgroup
10202     \fi}%
10203
10204 \def\LTR@outputdblcol{%
10205     \if@firstcolumn
10206         \global\@firstcolumnfalse
10207         \global\setbox\@leftcolumn\copy\@outputbox
10208         \splitmaxdepth\maxdimen
10209         \vbadness\maxdimen
10210         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10211         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10212         \toks@\expandafter{\topmark}%
10213         \xdef\@firstcoltopmark{\the\toks@}%
10214         \toks@\expandafter{\splitfirstmark}%
10215         \xdef\@firstcolfirstmark{\the\toks@}%
10216         \ifx\@firstcolfirstmark\@empty
10217             \global\let\@setmarks\relax
10218         \else
10219             \gdef\@setmarks{%
10220                 \let\firstmark\@firstcolfirstmark
10221                 \let\topmark\@firstcoltopmark}%
10222         \fi
10223     \else
10224         \global\@firstcolumntrue
10225         \setbox\@outputbox\vbox{%
10226             \hb@xt@\textwidth{%
10227                 \hb@xt@\columnwidth{%
10228                     \bidi@firstcolumn@status@write%
10229                     \box\@leftcolumn \hss}%
10230                 \hfil
10231                 {\normalcolor\vrule \@width\columnseprule}%
10232                 \hfil
10233                 \hb@xt@\columnwidth{%
10234                     \bidi@lastcolumn@status@write%
10235                     \box\@outputbox \hss}}}%
10236         \ifvoid\hold@viper
10237         \else
10238             \setbox\@outputbox \vbox to\textheight{%
10239                 \box\hold@viper
10240                 \box\@outputbox
10241                 \vss
10242             }%
10243         \fi
10244     \@combinedblfloats
10245     \@setmarks
10246     \@outputpage
10247     \begingroup
10248         \@dblfloatplacement
10249         \@startdblcolumn
10250         \@whilesw\if@fcolmade \fi{\@outputpage
10251         \@startdblcolumn}%
10252     \ifvoid\@viper
10253     \else

```



```

10254      \global\setbox\@viper\vbox{%
10255          \vskip-\stripsep
10256          \unvbox\@viper
10257      }%
10258      \@viperoutput
10259      \fi
10260  \endgroup
10261  \fi}%
10262
10263  \def\@addviper{%
10264      \@insertfalse
10265      \def\var@@thecol@num{2}%
10266      \if@firstcolumn
10267          \def\var@@thecol@num{1}%
10268          \@reqcolroom=.5\@pageht
10269          \ht@viper=\@reqcolroom
10270          \advance\@reqcolroom by\ht\@viper
10271          \advance\@reqcolroom by\stripsep
10272      \else
10273          \@reqcolroom=\@colht
10274          \advance\@reqcolroom by\@pageht
10275          \ht@viper.5\@reqcolroom
10276          \@reqcolroom=\ht@viper
10277          \advance\@reqcolroom by\ht\@viper
10278          \advance\@reqcolroom by\stripsep
10279          \global\setbox\@holdpg\vbox{%
10280              \setbox\cuted@@tempbox@a\vbox{%
10281                  \aftergroup\unvbox
10282                  \unvcopy\@leftcolumn
10283                  \unskip\unkern\unpenalty
10284                  \setbox\@tempbox@a\lastbox
10285                  \ifdim\dimexpr\ht\@tempbox@a+\wd\@tempbox@a+\dp\@tempbox@a>\z@
10286                      %% keeps lastbox
10287                      \aftergroup\@leftcolumn
10288                  \else
10289                      %% removes lastbox
10290                      \aftergroup\cuted@@tempbox@a
10291                  \fi
10292              }%
10293              \unskip\unkern\unpenalty
10294              \on@stripcols@break
10295              \the\At@ViperColsBreak
10296              \unvbox\@holdpg
10297          }%
10298          \global\At@ViperColsBreak{}%
10299          \ht@viper=.5\ht\@holdpg
10300          \ifdim\ht@viper>\@colht
10301              \ht@viper=\@colht
10302          \fi
10303      \fi
10304      %%
10305      %% calculations for breaking
10306      %%
10307      \ifvoid\hold@viper

```





```

10308      \ht@hold@viper=\z@
10309    \else
10310      \ht@hold@viper=\ht\hold@viper
10311    \fi
10312    \cuted@@tempdim@b\ht@viper
10313    \set@split@topskip@to\topskip
10314    \loop
10315      \xdef\saved@tempdimb{\the\cuted@@tempdim@b}%
10316      \setbox\cuted@@varbox@a\copy\@holdpg
10317      \setbox\cuted@@tempbox@a\vsplit\cuted@@varbox@a to\cuted@@tempdim@b
10318      %% set leftcolumn boxes
10319      \setbox\cuted@@tempbox@c\vbox{\unvbox\cuted@@tempbox@a}%
10320      \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@tempbox@c}%
10321      \xdef\var@@leftcolumn@badness{\the\badness}%
10322      %% set rightcolumn boxes
10323      \setbox\cuted@@varbox@c\vbox{\unvbox\cuted@@varbox@a}%
10324      \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@varbox@c}%
10325      \xdef\var@@rightcolumn@badness{\the\badness}%
10326      %% analyzing split goodness
10327      \cuted@@tempdim@spread=\ht\cuted@@tempbox@c
10328      \advance\cuted@@tempdim@spread by\dp\cuted@@tempbox@c
10329      \advance\cuted@@tempdim@spread by-\ht\cuted@@varbox@c
10330      \advance\cuted@@tempdim@spread by-\dp\cuted@@varbox@c
10331      \cuted@@wlog@debug{CUTED [----]}%
10332      ^^JLeft: \the\ht\cuted@@tempbox@c
10333      +\the\dp\cuted@@tempbox@c\space/\var@@leftcolumn@badness
10334      ^^JRight: \the\ht\cuted@@varbox@c
10335      +\the\dp\cuted@@varbox@c\space/\var@@rightcolumn@badness
10336      ^^JSplit: \the\cuted@@tempdim@b
10337      ^^JExtra height: \the\cuted@@tempdim@spread
10338      }%
10339      \ifnum\var@@leftcolumn@badness<\cuted@@column@badness
10340        \ifnum\var@@rightcolumn@badness<\cuted@@column@badness
10341          \cuted@@tempdim@spread=\z@
10342        \fi
10343      \fi
10344      \ifdim\cuted@@tempdim@spread<\z@
10345        \if@left@column@spread
10346          \if@right@column@shrink
10347            \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink>\z@
10348              \cuted@@tempdim@a=\dimexpr\ht\cuted@@tempbox@c-0.5\cuted@@tempdim@spread
10349            \else
10350              \cuted@@tempdim@a=-\dimexpr\cuted@@tempdim@spread+.5\pageshrink\rel
10351            \fi
10352            \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@a}
10353            \ifnum\badness<\cuted@@column@badness
10354              \cuted@@tempdim@b=\cuted@@tempdim@a
10355              \cuted@@tempdim@spread=\z@
10356            \fi
10357            \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness\space on}
10358            \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@varbox@a}
10359            \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness\space on}
10360          \else
10361            \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{\the\cuted@@tempdim@spread}

```



```

10362         \unvcopy\cuted@@tempbox@c
10363     }%
10364     \ifnum\badness<\cuted@@column@badness
10365         \@tempdimb=\ht\cuted@@varbox@c
10366         \cuted@@tempdim@spread=\z@
10367     \fi
10368     \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness on \the\
10369     \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{%
10370         \unvcopy\cuted@@varbox@c
10371     }%
10372     \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness on \the\
10373     \fi
10374     \else
10375         \if@right@column@shrink
10376             \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink<\z@
10377             \else
10378                 \cuted@@tempdim@b=\ht\cuted@@tempbox@c
10379                 \cuted@@tempdim@spread=\z@
10380             \fi
10381         \fi
10382     \fi
10383     \else
10384         \ifdim\cuted@@tempdim@spread>\z@
10385             \ifdim\dimexpr\@tempdimb+\p@\relax>\@colht
10386                 \cuted@@tempdim@b=\@colht
10387                 \cuted@@tempdim@spread=\z@
10388             \fi
10389         \fi
10390     \fi
10391     \ifdim\cuted@@tempdim@spread<\z@
10392         \advance\cuted@@tempdim@b 1\p@
10393     \repeat
10394     \wlog{CUTED [- LAST -]}%
10395     ^^JExtra skip:\the\cuted@@tempdim@spread
10396     ^^JLeft:\the\ht\cuted@@tempbox@c/\the\dp\cuted@@tempbox@c
10397     ^^JRight:\the\ht\cuted@@varbox@c/\the\dp\cuted@@varbox@c
10398     ^^JSplit:\saved@tempdimb
10399     ^^JOutput:\the\cuted@@tempdim@b
10400     ^^JPageshrink:\the\pageshrink
10401     ^^JPagestretch:\the\pagestretch
10402     ^^J@colht:\the\@colht
10403     }%
10404     %%
10405     %% final construction of the cuted page above strip
10406     %%
10407     \setbox\cuted@@tempbox@c\vsplit\@holdpg to\saved@tempdimb
10408     \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{%
10409         \cuted@@tempdim@a=\dimexpr
10410             \cuted@@tempdim@b-\ht\cuted@@tempbox@c
10411         \relax
10412     \cuted@@tempdim@spread=\dp\cuted@@tempbox@c
10413     \unvbox\cuted@@tempbox@c
10414     \ifdim\cuted@@tempdim@spread>\dp\strutbox
10415     \else

```



```

10416         \vskip-\cuted@@tempdim@spread
10417     \fi
10418     \prevdepth\z@
10419     \hrule\@height\cuted@@page@rule width\textwidth
10420     \vskip-\cuted@@page@rule
10421     \ifdim\cuted@@tempdim@a>\z@
10422         \if@left@column@spread
10423         \else
10424             \vss
10425         \fi
10426     \else
10427         \ifdim\cuted@@tempdim@a<\z@
10428             \if@left@column@shrink
10429             \else
10430                 \vss
10431             \fi
10432         \fi
10433     \fi
10434     }%
10435     \wlog{CUTED [output]: \the\cuted@@tempdim@b
10436     ^^JCUTED [leftcolumn badness]: \number\badness
10437     }%
10438     \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{%
10439         \cuted@@tempdim@a=\dimexpr
10440         \cuted@@tempdim@b-\ht\@holdpg
10441         \relax
10442         \unvbox\@holdpg
10443         \ifdim\cuted@@tempdim@a>\z@
10444             \if@right@column@spread
10445             \else
10446                 \vss
10447             \fi
10448         \else
10449             \ifdim\cuted@@tempdim@a<\z@
10450                 \if@right@column@shrink
10451                 \else
10452                     \vss
10453                 \fi
10454             \fi
10455         \fi
10456     }%
10457     \wlog{CUTED [rightcolumn badness]: \number\badness}%
10458     \setbox\cuted@@tempbox@var\vbox{%
10459         \hb@xt@\textwidth{%
10460             \if@RTLmain
10461                 \hskip \columnwidth
10462                 \hfil
10463                 {\normalcolor\vrule \@width\columnseprule}%
10464                 \hfil
10465                 \hb@xt@\columnwidth{%
10466                     \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10467                     \hss
10468                 }%
10469                 \hskip -\textwidth

```



```

10470         \hb@xt@\columnwidth{%
10471             \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10472             \hss
10473         }%
10474         \hskip \columnsep
10475         \hskip \columnwidth
10476     \else
10477         \hb@xt@\columnwidth{%
10478             \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10479             \hss
10480         }%
10481         \hfil
10482         {\normalcolor\vrule \@width\columnseprule}%
10483         \hfil
10484         \hb@xt@\columnwidth{%
10485             \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10486             \hss
10487         }%
10488     \fi
10489     }%
10490 }%
10491 %%
10492 %% finalize cuted page
10493 %%
10494 \ifvoid\hold@viper
10495     \global\setbox\hold@viper\vbox{%
10496         \unvbox\cuted@@tempbox@var
10497         \penalty\interlinepenalty
10498         \vskip\stripsep
10499         \the\preCutedStrip
10500         \ifnum\outputpenalty<-\@Mii
10501             \vskip -\parskip
10502         \fi
10503         \outputpenalty\z@
10504     }%
10505 \else
10506     \global\setbox\hold@viper\vbox{%
10507         \unvbox\hold@viper
10508         \cuted@@tempbox@var
10509         \penalty\interlinepenalty
10510         \vskip\stripsep
10511         \the\preCutedStrip
10512         \ifnum\outputpenalty<-\@Mii
10513             \vskip -\parskip
10514         \fi
10515         \outputpenalty\z@
10516     }%
10517 \fi
10518 \ifdim\@colht>\@reqcolroom
10519     \global\setbox\hold@viper\vbox{%
10520         \unvbox\hold@viper
10521         \box\@viper
10522         \penalty\interlinepenalty
10523         \the\postCutedStrip

```



```

10524         \vskip\stripsep
10525         \ifnum\outputpenalty<-\@Mii
10526             \vskip -\parskip
10527         \fi
10528         \outputpenalty\z@
10529     }%
10530 \inserttrue
10531 \global\@firstcolumntrue
10532 \advance\ht@hold@viper by-\ht@hold@viper
10533 \global\advance\@colht by\ht@hold@viper
10534 \ifdim\@colht<2.5\baselineskip
10535     \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
10536                             too tall on page \thepage (\var@@thecol@num column)}}%
10537     \@emptycol
10538     \if@firstcolumn
10539     \else
10540         \@emptycol
10541     \fi
10542     \global\@lastvipertrue
10543 \else
10544     \global\vsizel\@colht
10545     \global\@colroom\@colht
10546     \check@floats\cuted@@tempdim@a
10547     \ifdim\cuted@@tempdim@a>\z@
10548         \global\advance\@colroom by-\cuted@@tempdim@a
10549     \fi
10550     \ifdim\@colroom<\z@
10551         \global\@colroom1\p@
10552         \ifdim\cuted@@tempdim@a>\@colht
10553             \@latex@warning@no@line{TOP and/or BOT FLOAT's
10554                                     to large on \thepage (\var@@thecol@num column)}}%
10555         \fi
10556         \@emptycol
10557         \if@firstcolumn
10558         \else
10559             \@emptycol
10560         \fi
10561         \global\@lastvipertrue
10562     \fi
10563 \fi
10564 \fi
10565 \if@insert
10566 \else
10567     \advance\ht@hold@viper by-\ht@hold@viper
10568     \global\advance\@colht by\ht@hold@viper
10569     \global\setbox\hold@viper\ vbox{%
10570         \unvbox\hold@viper
10571         \set@split@topskip@to{\z@ plus2\p@}%
10572         \vsplit\@viper to\@colht
10573     \vss
10574     }%
10575     \vbox{}%
10576     \global\@firstcolumnfalse
10577 \newpage

```



```

10578 \fi
10579 }

```

## 76 File cvthemebidicasual.sty

```

10580 \NeedsTeXFormat{LaTeX2e}
10581 \ProvidesPackage{cvthemebidicasual}
10582 \DeclareOption{blue}{}
10583 \newif\if@colourorange\@colourorangefalse
10584 \DeclareOption{orange}{\@colourorange true}
10585 \newif\if@colourgreen\@colourgreenfalse
10586 \DeclareOption{green}{\@colourgreen true}
10587 \newif\if@coloured\@colouredfalse
10588 \DeclareOption{red}{\@coloured true}
10589 \newif\if@colourgrey\@colourgreyfalse
10590 \DeclareOption{grey}{\@colourgrey true}
10591 \DeclareOption*{
10592   \PackageWarning{cvthemebidicasual}{Unknown option ‘\CurrentOption’}}
10593 \ExecuteOptions{colour}
10594 \ProcessOptions\relax
10595 \renewcommand*{\listitemsymbol}{\textbullet}
10596 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
10597 \familynamecolour{808080}
10598 \firstnamecolour{A9A9A9}
10599 \quotecolour{696969}
10600 \addresscolour{696969}
10601 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
10602 \sectiontitlecolour{1E90FF}
10603 \subsectioncolour{4682B4}
10604 \definecolor{rulecolour}{gray}{0.6}
10605 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
10606 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
10607 \if@colourorange
10608   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10609   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10610   \sectiontitlecolour{FF8C00}
10611   \subsectioncolour{FF8C00}
10612   \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
10613   \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
10614 \if@colourgreen
10615   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10616   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10617   \sectiontitlecolour{008000}
10618   \subsectioncolour{008000}
10619   \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
10620   \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
10621 \if@coloured
10622   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10623   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10624   \sectiontitlecolour{FF0000}
10625   \subsectioncolour{FF0000}
10626   \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
10627   \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
10628 \if@colourgrey

```



```

10629 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10630 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10631 \sectiontitlecolour{808080}
10632 \subsectioncolour{808080}
10633 \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
10634 \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
10635 \renewcommand*{\ttdefault}{pcr}
10636 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
10637 \renewcommand*{\familynamefont}{\firstnamefont}
10638 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10639 \renewcommand*{\quoteont}{\large\slshape}
10640 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10641 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10642 \renewcommand*{\maketitle}{%
10643   {%
10644     \ifthenelse{\isundefined{\@photo}}{%
10645       {%
10646         {\color{firstnamecolor}\framebox{\includegraphics[width=\photowidth]{\@photo}}}%
10647         \hfill%
10648         \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\[-.35em]
10649         {\color{firstnamecolor}\rule{\textwidth}{.25ex}\[2.5em]}%
10650       \ifthenelse{\isundefined{\@quote}}{%
10651         {%
10652           {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\%
10653         }%
10654       \newif\if@firstfooterelement\@firstfooterelementtrue
10655       \providecommand*{\footersymbol}{%
10656         \renewcommand*{\footersymbol}{%
10657           \if@firstfooterelement%
10658           \else%
10659             { ~\color{footersymbolcolor}\textbullet~~}\fi
10660         \providecommand*{\makefooter}{%
10661           \renewcommand*{\makefooter}{%
10662             \fancypagestyle{plain}{%
10663               \fancyfoot[c]{%
10664                 \parbox{0.8\textwidth}{%
10665                   \centering%
10666                   \addressfont\@addresscolour%
10667                   \ifthenelse{\isundefined{\@address}}{}{}%
10668                   \addresssymbol~\@address\%
10669                   \@firstfooterelementfalse}%
10670                 \ifthenelse{\isundefined{\@mobile}}{}{\mobilesymbol~\@mobile\@firstfooterelementfalse}
10671                 \ifthenelse{\isundefined{\@phone}}{}{\footersymbol\phonesymbol~\@phone\@firstfooterelementfalse}
10672                 \ifthenelse{\isundefined{\@fax}}{}{\footersymbol\faxsymbol~\@fax\@firstfooterelementfalse}
10673                 \ifthenelse{\isundefined{\@email}}{}{\footersymbol\emailsymbol~\emailink{\@email}\@firstfooterelementfalse}
10674                 \ifthenelse{\isundefined{\@extrainfo}}{}{\footersymbol\@extrainfo\@firstfooterelementfalse}
10675               }%
10676             \pagestyle{plain}}
10677       \AtBeginDocument{\makefooter}

```

## 77 File cvthemebidiclassic.sty

```

10678 \NeedsTeXFormat{LaTeX2e}
10679 \ProvidesPackage{cvthemebidiclassic}

```



```

10680 \DeclareOption{blue}{}
10681 \newif\if@colourorange\@colourorangefalse
10682 \DeclareOption{orange}{\@colourorange>true}
10683 \newif\if@colourgreen\@colourgreenfalse
10684 \DeclareOption{green}{\@colourgreentruer}
10685 \newif\if@colourred\@colourredfalse
10686 \DeclareOption{red}{\@colourredtrue}
10687 \newif\if@colourgrey\@colourgreyfalse
10688 \DeclareOption{grey}{\@colourgreytrue}
10689 \DeclareOption*{
10690   \PackageWarning{cvthemebidiclassic}{Unknown option ‘\CurrentOption’}}
10691 \ExecuteOptions{colour}
10692 \ProcessOptions\relax
10693 \renewcommand*{\listitemsymbol}{\textbullet}
10694 \firstnamecolour{}
10695 \familynamecolour{}
10696 \titlecolour{808080}
10697 \quotecolour{696969}
10698 \addresscolour{696969}
10699 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
10700 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
10701 \sectiontitlecolour{1E90FF}
10702 \subsectioncolour{4682B4}
10703 \if@colourorange
10704   \addresscolour{FF8C00}
10705   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10706   \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
10707   \sectiontitlecolour{FF8C00}
10708   \subsectioncolour{FF8C00}\fi
10709 \if@colourgreen
10710   \addresscolour{008000}
10711   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10712   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10713   \sectiontitlecolour{008000}
10714   \subsectioncolour{008000}\fi
10715 \if@colourred
10716   \addresscolour{FF0000}
10717   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10718   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10719   \sectiontitlecolour{FF0000}
10720   \subsectioncolour{FF0000}\fi
10721 \if@colourgrey
10722   \addresscolour{808080}
10723   \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10724   \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10725   \sectiontitlecolour{808080}
10726   \subsectioncolour{808080}\fi
10727 \renewcommand*{\ttdefault}{pcr}
10728 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
10729 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
10730 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10731 \renewcommand*{\familynamefont}{\firstnamefont}
10732 \renewcommand*{\quotefont}{\large\slshape}
10733 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}

```





```

10734 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10735 \newlength{\maketitlenamemaxwidth}
10736 \setlength{\maketitlenamemaxwidth}{.525\textwidth}
10737 \newlength{\maketitlenamefullwidth}
10738 \settowidth{\maketitlenamefullwidth}{\firstnamestyle{\@firstname-}\familynamestyle{\@familyname-}}
10739 \newlength{\maketitlenamewidth}
10740 \ifnum\maketitlenamemaxwidth<\maketitlenamefullwidth\setlength{\maketitlenamewidth}{\maketitlenamemaxwidth}\else\setlength{\maketitlenamewidth}{\maketitlenamefullwidth}\fi
10741 \newlength{\maketitlepicturewidth}
10742 \setlength{\maketitlepicturewidth}{\@photowidth}
10743 \newlength{\maketitledetailwidth}
10744 \renewcommand*{\recomputethemelengths}{%
10745   \setlength{\maketitledetailwidth}{\textwidth}%
10746   \addtolength{\maketitledetailwidth}{-\maketitlenamewidth}%
10747   \addtolength{\maketitledetailwidth}{-\separatorcolumnwidth}%
10748   \addtolength{\maketitledetailwidth}{-\maketitlepicturewidth}%
10749 \recomputethemelengths}
10750 \newif\if@firstdetailselement\@firstdetailselementtrue
10751 \newcommand*{\maketitledetailsnewline}{%
10752   \if@firstdetailselement%
10753     \@firstdetailselementfalse%
10754   \else%
10755     \[\.2em]\fi}
10756 \renewcommand*{\maketitle}{%
10757   % name and title
10758   \begin{minipage}[b]{\maketitlenamewidth}%
10759     \firstnamestyle{\@firstname-}\familynamestyle{\@familyname}%
10760     \ifthenelse{equal{\@title}{}}{\[\1.25em]\titlestyle{\@title}}{}%
10761   \end{minipage}%
10762   % optional data
10763   \begin{minipage}[b]{\maketitledetailwidth}%
10764     \bidi@raggedleft\addressfont\@addresscolour%
10765     \ifthenelse{\isundefined{\@address}}{\%
10766       \maketitledetailsnewline%
10767       \addresssymbol~\[\@address}%
10768     \ifthenelse{\isundefined{\@mobile}}{\%
10769       \maketitledetailsnewline\mobilesymbol~\@mobile}%
10770     \ifthenelse{\isundefined{\@phone}}{\%
10771       \maketitledetailsnewline\phonesymbol~\@phone}%
10772     \ifthenelse{\isundefined{\@fax}}{\%
10773       \maketitledetailsnewline\faxsymbol~\@fax}%
10774     \ifthenelse{\isundefined{\@email}}{\%
10775       \maketitledetailsnewline\emailsymbol~\emailink{\@email}%
10776     \ifthenelse{\isundefined{\@extrainfo}}{\%
10777       \maketitledetailsnewline\@extrainfo}%
10778   \end{minipage}%
10779   % optional photo
10780   \ifthenelse{\isundefined{\@photo}}{\%
10781     {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=\@photoheight]{\@photo}}}%
10782   \else%
10783     {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\@photo}%
10784   \fi}

```

## 78 File dblfnote-xetex-bidi.def

```

10783 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package]
10784 \let\autofooterline\relax

```



```

10785 \let\rightfootnoterule\relax
10786 \let\leftfootnoterule\relax
10787 \let\textwidthfootnoterule\relax
10788 \let\LRfootnoterule\relax
10789 \def\footnoterule{\kern-3\p@
10790   \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
10791 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
10792 \let\@footnotetext\dfn@footnotetext}
10793 \long\def\dfn@LTRfootnotetext#1{{\setbox\dfn@boxa\vbox{
10794   \let\insert\dfn@gobble
10795   \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10796   \def\@makefnmark{\smash{\dfn@makefnmark}}}
10797   \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10798   \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10799   \ifdim\dfn@dima>\z@ \else
10800     \dfn@dima1sp\relax
10801     \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10802   \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10803     \ifvoid\dfn@ins\else
10804       \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10805     \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10806   \setbox\dfn@boxa\copy\dfn@ins
10807   \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10808   \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10809   \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10810   \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10811   \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10812 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext
10813 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
10814 \long\def\dfn@RTLfootnotetext#1{{\setbox\dfn@boxa\vbox{
10815   \let\insert\dfn@gobble
10816   \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10817   \def\@makefnmark{\smash{\dfn@makefnmark}}}
10818   \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10819   \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10820   \ifdim\dfn@dima>\z@ \else
10821     \dfn@dima1sp\relax
10822     \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10823   \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10824     \ifvoid\dfn@ins\else
10825       \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10826     \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10827   \setbox\dfn@boxa\copy\dfn@ins
10828   \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10829   \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10830   \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10831   \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10832   \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10833 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
10834 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
10835 \def\dfn@RTLmakecol{{\ifvoid\footins\else
10836   \dfn@dima\ht\footins
10837   \@tempcnta\z@ \dfn@countins
10838   \@tempdima\z@ \let\@elt\dfn@elt@getht

```



```

10839 \dfn@list\@nil
10840 \ifdim\@tempdima=\z@\else
10841 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10842 \global\setbox\dfn@ins\box\dfn@ins
10843 \@tempswattrue
10844 \ifdfn@trysingle
10845 \setbox\dfn@boxb\ vbox{\unvcopy\@cclv}\@tempdima\@colroom
10846 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10847 \advance\@tempdima-\skip\footins
10848 \advance\@tempdima-\ht\dfn@boxa
10849 \ifdim\@tempdima<\z@\else \@tempswafalse
10850 \global\setbox\footins\ vbox{\boxmaxdepth\dfn@fnmaxdp
10851 \footnoterule \unvbox\dfn@boxa}\fi\fi
10852 \if@tempswa
10853 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10854 \global\setbox\footins\ vbox{\hbox{%
10855 \hskip \DFNcolumnwidth
10856 \hskip \DFNcolumnsep
10857 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10858 \unvbox\dfn@boxb\vss}\hss}
10859 \hskip -\textwidth
10860 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10861 \vbox to\@tempdima{
10862 \setbox\@tempboxa\ vbox{\footnoterule}
10863 \ifdfn@ruleboth \unvbox\@tempboxa
10864 \else \@tempdima\ht\@tempboxa
10865 \advance\@tempdima\dp\@tempboxa
10866 \vskip\@tempdima
10867 \prevdepth\dp\@tempboxa \fi
10868 \unvbox\dfn@boxa\vss}\fi\hss}
10869 \hskip \DFNcolumnsep
10870 \hskip \DFNcolumnwidth}}\fi\fi
10871 \global\dfn@fnht\z@
10872 \ifx\dfn@list\@empty\else
10873 \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10874 \dfn@list \global\advance\dfn@fnht\dfn@dimb
10875 \let\@elt\relax
10876 \ifdim\dfn@dimb>\z@
10877 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10878 \insert\footins{\floatingpenalty\@MM
10879 \vbox to\dfn@dimb{}}\fi
10880 \ifdim\dfn@fnht>\@tempdima
10881 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10882 \global\dfn@fnht\@tempdima
10883 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10884 \xdef\dfn@afteroutput{\insert\footins{
10885 \floatingpenalty\@MM
10886 \vbox to\number\@tempdimb sp{}}}%
10887 \global\let\noexpand\dfn@afteroutput\relax}%
10888 \fi\fi
10889 \fi}%
10890 \let\footnoterule\relax \dfn@latex@makecol
10891 \let\footnoterule\dfn@footnoterule}
10892 \def\dfn@LTRmakecol{\ifvoid\footins\else

```



```

10893 \dfn@dima\ht\footins
10894 \@tempcnta\z@ \dfn@countins
10895 \@tempdima\z@ \let\@elt\dfn@elt@getht
10896 \dfn@list\@nil
10897 \ifdim\@tempdima=\z@\else
10898 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10899 \global\setbox\dfn@ins\box\dfn@ins
10900 \@tempswatrue
10901 \ifdfn@trysingle
10902 \setbox\dfn@boxb\ vbox{\unvcopy\@cclv}\@tempdima\@colroom
10903 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10904 \advance\@tempdima-\skip\footins
10905 \advance\@tempdima-\ht\dfn@boxa
10906 \ifdim\@tempdima<\z@\else \@tempswafalse
10907 \global\setbox\footins\ vbox{\boxmaxdepth\dfn@fnmaxdp
10908 \footnoterule \unvbox\dfn@boxa}\fi\fi
10909 \if@tempswa
10910 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10911 \global\setbox\footins\ vbox{\hbox{%
10912 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10913 \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
10914 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10915 \vbox to\@tempdima{
10916 \setbox\@tempboxa\ vbox{\footnoterule}
10917 \ifdfn@ruleboth \unvbox\@tempboxa
10918 \else \@tempdima\ht\@tempboxa
10919 \advance\@tempdima\dp\@tempboxa
10920 \vskip\@tempdima
10921 \prevdepth\dp\@tempboxa \fi
10922 \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
10923 \global\dfn@fnht\z@
10924 \ifx\dfn@list\@empty\else
10925 \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10926 \dfn@list \global\advance\dfn@fnht\dfn@dimb
10927 \let\@elt\relax
10928 \ifdim\dfn@dimb>\z@
10929 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10930 \insert\footins{\floatingpenalty\@MM
10931 \vbox to\dfn@dimb{}}\fi
10932 \ifdim\dfn@fnht>\@tempdima
10933 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10934 \global\dfn@fnht\@tempdima
10935 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10936 \xdef\dfn@afteroutput{\insert\footins{
10937 \floatingpenalty\@MM
10938 \vbox to\number\@tempdimb sp{}}}%
10939 \global\let\noexpand\dfn@afteroutput\relax}%
10940 \fi\fi
10941 \fi}%
10942 \let\footnoterule\relax \dfn@latex@makecol
10943 \let\footnoterule\dfn@footnoterule}
10944 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
10945 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
10946 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}

```



10947 \DFNalwaysdouble

## 79 File diagbox-xetex-bidi.def

```
10948 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package
10949 \bidi@patchcmd{\diagbox@double}{%
10950   \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10951 }{\bidi@@diagbox@double@ii}{-}{-}
10952 \bidi@patchcmd{\diagbox@double}{%
10953   \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10954 }{\bidi@@diagbox@double@iii}{-}{-}
10955 \newcommand*{\bidi@@diagbox@double@ii}{%
10956   \ifRTL
10957     \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}}
10958   \else
10959     \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10960   \fi
10961 }
10962 \newcommand*{\bidi@@diagbox@double@iii}{%
10963   \ifRTL
10964     \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
10965   \else
10966     \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10967   \fi
10968 }
10969 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10970   \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10971 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
10972 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10973   \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10974 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
10975 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10976   \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10977 }{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{-}{-}
10978 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{%
10979   \ifRTL
10980     \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}}
10981   \else
10982     \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10983   \fi
10984 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{%
10985   \ifRTL
10986     \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
10987   \else
10988     \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10989   \fi
10990 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
10991 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10992   \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}%
10993 }{\bidi@@diagbox@triple@setbox@SE@tabular@i}{-}{-}
10994 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10995   \begin{tabular}{@{>{\hspace{\diagbox@insepr}}}}%
10996 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
10997 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
```



```

10998     \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
10999 }{\bidi@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
11000 \newcommand*{\bidi@diagbox@triple@setbox@SE@tabular@i}{%-
11001     \if@RTL
11002         \begin{tabular}{@{}r@{\hspace{\diagbox@insepl}}}%
11003     \else
11004         \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}
11005     \fi
11006 }
11007 \newcommand*{\bidi@diagbox@triple@setbox@SE@tabular@ii@iii}{%-
11008     \if@RTL
11009         \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}
11010     \else
11011         \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11012     \fi
11013 }
11014 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
11015 \bidi@patchcmd{\diagbox@double@pict@SE}{%-
11016     \diagbox@setlinecolor
11017     \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)%
11018 }{%
11019     {\diagbox@setlinecolor
11020     \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}%
11021 }{-}{-}
11022 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
11023 \bidi@patchcmd{\diagbox@double@pict@NE}{%-
11024     \diagbox@setlinecolor
11025     \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)%
11026 }{%
11027     {\diagbox@setlinecolor
11028     \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
11029 }{-}{-}
11030 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
11031 \bidi@patchcmd{\diagbox@triple@pict@NW}{%-
11032     \diagbox@setlinecolor
11033     \Line(0,\yym)(\x,0)
11034     \Line(\xm,\y)(\x,0)%
11035 }{%
11036     {\diagbox@setlinecolor
11037     \Line(0,\yym)(\x,0)
11038     \Line(\xm,\y)(\x,0)}%
11039 }{-}{-}
11040 \bidi@patchcmd{\diagbox@triple@pict@NE}{%-
11041     \diagbox@setlinecolor
11042     \Line(0,0)(\xxm,\y)
11043     \Line(0,0)(\x,\yym)%
11044 }{%
11045     {\diagbox@setlinecolor
11046     \Line(0,0)(\xxm,\y)
11047     \Line(0,0)(\x,\yym)}%
11048 }{-}{-}
11049 \bidi@patchcmd{\diagbox@triple@pict@SW}{%-
11050     \diagbox@setlinecolor
11051     \Line(0,\ym)(\x,\y)

```



```

11052 \Line(\xm,0)(\x,\y)%
11053 }{%
11054 {\diagbox@setlinecolor
11055 \Line(0,\ym)(\x,\y)
11056 \Line(\xm,0)(\x,\y)}%
11057 }{}{}
11058 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
11059 \diagbox@setlinecolor
11060 \Line(0,\y)(\xxm,0)
11061 \Line(0,\y)(\x,\ym)}%
11062 }{%
11063 {\diagbox@setlinecolor
11064 \Line(0,\y)(\xxm,0)
11065 \Line(0,\y)(\x,\ym)}%
11066 }{}{}

```

## 80 File draftwatermark-xetex-bidi.def

```

11067 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwatermark]
11068 \renewcommand\SetWatermarkText[1]{%
11069 \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

## 81 File eso-pic-xetex-bidi.def

```

11070 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for eso-pic package]
11071 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
11072 \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}}
11073
11074 \ESO@isMEMOIR{%
11075 \renewcommand\AtTextUpperLeft[1]{%
11076 \begingroup
11077 \ifodd\c@page
11078 \if@RTLmain
11079 \ESO@tempdima=\paperwidth
11080 \advance\ESO@tempdima-\textwidth
11081 \advance\ESO@tempdima-\spinemargin
11082 \else
11083 \ESO@tempdima=\spinemargin
11084 \fi
11085 \else
11086 \if@RTLmain
11087 \ESO@tempdima=\spinemargin
11088 \else
11089 \ESO@tempdima=\paperwidth
11090 \advance\ESO@tempdima-\textwidth
11091 \advance\ESO@tempdima-\spinemargin
11092 \fi
11093 \fi
11094 \ESO@tempdimb=-\uppermargin
11095 \AtPageUpperLeft{%
11096 \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11097 }%
11098 \endgroup
11099 }

```



```

11100 }{%
11101   \renewcommand\AtTextUpperLeft[1]{%
11102     \begingroup
11103       \ESO@tempdima=1in\relax
11104       \if@twoside
11105         \ifodd\c@page
11106           \if@RTLmain
11107             \advance\ESO@tempdima\evensidemargin
11108           \else
11109             \advance\ESO@tempdima\oddsidemargin
11110           \fi
11111         \else
11112           \if@RTLmain
11113             \advance\ESO@tempdima\oddsidemargin
11114           \else
11115             \advance\ESO@tempdima\evensidemargin
11116           \fi
11117         \fi
11118       \else
11119         \advance\ESO@tempdima\oddsidemargin
11120       \fi
11121       \ESO@tempdimb=-1in\relax
11122       \advance\ESO@tempdimb-\topmargin
11123       \advance\ESO@tempdimb-\headheight
11124       \advance\ESO@tempdimb-\headsep
11125       \AtPageUpperLeft{%
11126         \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11127       }%
11128     \endgroup
11129   }
11130 }

```

## 82 File empheq-xetex-bidi.def

```

11131 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package fo
11132 \MHInternalSyntaxOn
11133 \def\EQ_tag_plus_endmark:{%
11134   \iftagsleft@
11135     \gdef\maketag@@@##1{%
11136       \hfuzz\displaywidth
11137       \if@RTL\makebox[\widthof{##1}][r]{%
11138         \hbox to \displaywidth{\m@th\normalfont##1\hss
11139           \raisebox{-\dp\EQ_mathdisplay_box
11140             -\depthof{\EQ_outerbox:}}{
11141             {\PotEndMark{\hss}}}}
11142       \else\makebox[\widthof{##1}][l]{%
11143         \hbox to \displaywidth{\m@th\normalfont##1\hss
11144           \raisebox{-\dp\EQ_mathdisplay_box
11145             -\depthof{\EQ_outerbox:}}{
11146             {\PotEndMark{\hss}}}}\fi}%
11147   \MH_else:
11148   \gdef\maketag@@@##1{%
11149     \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
11150       \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}}%

```





```

11151 \MH_addtolength:dn \@tempdima
11152 {\g_EQ_bottomtag_depth_dim+\mintagvsep}
11153 \setlength{\@tempdimb}
11154 {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox:}}
11155 +\depthof{\EQ_innerbox:}}
11156 \MH_if_dim:w \@tempdima>\@tempdimb
11157 \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
11158 -\@tempdima+\g_EQ_bottomrow_depth_dim}
11159 \addtolength{\@tempdima}{\depthof{\EQ_innerbox:}}}%
11160 \def\EQ_next:{\raisebox{\@tempdima}}%
11161 \MH_else:
11162 \def\EQ_next:{
11163 \raisebox{-\dp\EQ_mathdisplay_box
11164 -\depthof{\EQ_outerbox:}}}%
11165 \MH_fi:\EQ_next:}}}%
11166 \MH_fi:}
11167 \def\EQ_post_process:{%
11168 \EQ_initialize:
11169 \EQ_begin_equation:
11170 \MH_if_boolean:nT {outer_mult}{
11171 \setkeys{\MT_options_name:}{
11172 firstline-afterskip=Opt,
11173 lastline-preskip=Opt,
11174 multlined-width=Opt,
11175 }
11176 \ifodd \l_EQ_alignmentmode_int
11177 \setkeys{\MT_options_name:}{multlined-pos=b}
11178 \MH_else:
11179 \setkeys{\MT_options_name:}{multlined-pos=t}
11180 \MH_fi:
11181 \g@addto@macro\EQ_complete_mathdisplay:{
11182 \begin{MTmultlined}\relax}
11183 }
11184 \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
11185 \MH_if_boolean:nT {outer_mult}{
11186 \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
11187 }
11188 \EQ_end_equation:
11189 \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
11190 \savecounters@
11191 \EQ_typeset_tags:
11192 \edef\l_EQ_equation_fint{\number\c@equation}
11193 \restorecounters@
11194 \Hy@linkcounter=\EQ_hyperref_link_fint
11195 \settowidth\l_EQ_totalwidth_dim{%
11196 $\EQ_left_side:\EQ_innerbox:}\EQ_right_side:$}%
11197 \MH_if_boolean:nTF {outer_mult}
11198 { \def\EQ_next:{_mult} }
11199 { \def\EQ_next:{} }
11200 \@nameuse{EQ_modify_linewidth_
11201 \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11202 \EQ_typeset_display:
11203 \@nameuse{EQ_find_displaywidth_
11204 \romannumeral\l_EQ_equationtype_int\EQ_next: :}

```



```

11205 \MH_addtolength:dn
11206 \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
11207 \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
11208   $\EQ_left_side:
11209   \EQ_innerbox:{%
11210     \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
11211     \makebox[\l_EQ_displaywidth_dim][c]
11212     {\usebox{\EQ_mathdisplay_box}}%
11213   \MH_or:
11214     \makebox[\l_EQ_displaywidth_dim][c]
11215     {\usebox{\EQ_mathdisplay_box}}%
11216   \MH_or:
11217     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11218       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11219         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11220         \kern-\@mathmargin
11221         \MH_fi:
11222       \MH_fi:
11223       \usebox{\EQ_mathdisplay_box}}%
11224     \else\makebox[\l_EQ_displaywidth_dim][l]{%
11225       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11226       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11227       \kern-\@mathmargin
11228       \MH_fi:
11229       \MH_fi:
11230       \usebox{\EQ_mathdisplay_box}}\fi%
11231   \MH_or:
11232     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11233       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11234       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11235       \kern-\@mathmargin
11236       \MH_fi:
11237       \MH_fi:
11238       \usebox{\EQ_mathdisplay_box}}
11239     \else\makebox[\l_EQ_displaywidth_dim][l]{%
11240       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11241       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11242       \kern-\@mathmargin
11243       \MH_fi:
11244       \MH_fi:
11245       \usebox{\EQ_mathdisplay_box}}\fi%
11246   \MH_fi:}%
11247 \EQ_right_side:$}%
11248 \begin{AmSequation*}
11249 \@nameuse{EQ_place_display_
11250   \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11251 \MH_if_dim:w \g_EQ_widesttag_dim>\z@
11252 \MH_set_boolean_T:n {show_manual_tags}
11253 \MH_if_case:w \l_EQ_alignmentmode_int
11254 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %\#1
11255 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %\#2
11256 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %\#3
11257 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %\#4
11258 \MH_fi:

```



```

11259 \MH_fi:
11260 \end{AmSequation*}
11261 \global\c@equation=\l_EQ_equation_fint\relax
11262 }
11263 \AtBeginDocument{%
11264 \ifpackageloaded{fancybox}{%
11265 \ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
11266 {\renewcommand*\textcolor[2]{\normalcolor{#2}}}%
11267 \renewcommand*\shadowbox{%
11268 \ifstar{\MH_set_boolean_T:n {shadowbox_star}
11269 \VerbBox\EQ_shadowbox:n}
11270 {\MH_set_boolean_F:n {shadowbox_star}
11271 \VerbBox\EQ_shadowbox:n}}
11272 \def\EQ_shadowbox:n #1{%
11273 \sbox{z@}{\fbox{#1}}%
11274 \MH_if_boolean:nTF {shadowbox_star}{
11275 \MH_setlength:dn \@tempdima{z@}%
11276 }{
11277 \MH_setlength:dn \@tempdima{\dp z@+\shadowsize}%
11278 }
11279 \raisebox{\@tempdima}{%
11280 \if@RTL\makebox[\z@][r]{%
11281 \kern\shadowsize \textcolor{shadowcolor}{%
11282 \rule[-\dp z@-\shadowsize]{\wd z@}{\shadowsize}}}%
11283 }%
11284 \else\makebox[\z@][l]{%
11285 \kern\shadowsize \textcolor{shadowcolor}{%
11286 \rule[-\dp z@-\shadowsize]{\wd z@}{\shadowsize}}}%
11287 }\fi%
11288 \usebox z@\textcolor{shadowcolor}{%
11289 \rule[-\dp z@-\shadowsize]{\shadowsize}{\ht z@+\dp z@}}}%
11290 }{}%
11291 }
11292 \MHInternalSyntaxOff

```

## 83 File extarticle-xetex-bidi.def

```

11293 \ProvidesFile{extarticle-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extarticle cl
11294 \renewcommand*\l@section[2]{%
11295 \ifnum \c@tocdepth >\z@
11296 \addpenalty\@secpenalty
11297 \addvspace{1.0em \@plus\p@}%
11298 \setlength\@tempdima{1.5em}%
11299 \begingroup
11300 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11301 \parfillskip -\@pnumwidth
11302 \leavevmode \bfseries
11303 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
11304 \hskip -\if@RTL\rightskip\else\leftskip\fi
11305 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
11306 \endgroup
11307 \fi}
11308 \renewcommand*\l@part[2]{%
11309 \ifnum \c@tocdepth >-2\relax

```



```

11310 \addpenalty\@secpenalty
11311 \addvspace{2.25em \@plus\p@}%
11312 \begingroup
11313 \setlength\@tempdima{3em}%
11314 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11315 \parfillskip -\@pnumwidth
11316 {\leavevmode
11317 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11318 \nobreak
11319 \endgroup
11320 \fi}
11321 \def\@part[#1]#2{%
11322 \ifnum \c@secnumdepth >\m@ne
11323 \refstepcounter{part}%
11324 \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
11325 \else
11326 \addcontentsline{toc}{part}{#1}%
11327 \fi
11328 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11329 \interlinepenalty \@M
11330 \normalfont
11331 \ifnum \c@secnumdepth >\m@ne
11332 \Large\bfseries \partname~\thepart
11333 \par\nobreak
11334 \fi
11335 \huge \bfseries #2%
11336 \markboth{}{}\par}%
11337 \nobreak
11338 \vskip 3ex
11339 \@afterheading}
11340 \def\@spart#1{%
11341 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11342 \interlinepenalty \@M
11343 \normalfont
11344 \huge \bfseries #1\par}%
11345 \nobreak
11346 \vskip 3ex
11347 \@afterheading}
11348 \renewenvironment{thebibliography}[1]
11349 {\section*{\refname
11350 \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
11351 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11352 \bidi@thebibliography@font@hook%
11353 \list{\@biblabel{\@arabic\c@enumiv}}%
11354 {\settowidth\labelwidth{\@biblabel{#1}}%
11355 \leftmargin\labelwidth
11356 \advance\leftmargin\labelsep
11357 \@openbib@code
11358 \usecounter{enumiv}%
11359 \let\p@enumiv\@empty
11360 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11361 \sloppy\clubpenalty4000\widowpenalty4000%
11362 \sfcode\.\@m}
11363 {\def\@noitemerr

```



```

11364      {\@latex@warning{Empty `thebibliography' environment}}%
11365      \endlist}
11366 \renewcommand\left@footnoterule{%
11367   \kern-3\p@
11368   \hrule\@width.4\columnwidth
11369   \kern2.6\p@}
11370 \renewcommand\right@footnoterule{%
11371   \kern-3\p@
11372   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11373   \kern2.6\p@}
11374   \if@titlepage
11375   \renewcommand\maketitle{\begin{titlepage}%
11376     \let\footnotesize\small
11377     \let\right@footnoterule\relax
11378     \let\left@footnoterule\relax
11379     \let\textwidth\footnoterule\relax
11380     \let \footnote \thanks
11381     \null\vfil
11382     \vskip 60\p@
11383     \begin{center}%
11384       {\LARGE \@title \par}%
11385       \vskip 3em%
11386       {\large
11387         \lineskip .75em%
11388         \begin{tabular}[t]{c}%
11389           \@author
11390         \end{tabular}\par}%
11391       \vskip 1.5em%
11392       {\large \@date \par}%           % Set date in \large size.
11393     \end{center}\par
11394     \@thanks
11395     \vfil\null
11396   \end{titlepage}%
11397   \setcounter{footnote}{0}%
11398   \global\let\thanks\relax
11399   \global\let\maketitle\relax
11400   \global\let\@thanks\@empty
11401   \global\let\@author\@empty
11402   \global\let\@date\@empty
11403   \global\let\@title\@empty
11404   \global\let\title\relax
11405   \global\let\author\relax
11406   \global\let\date\relax
11407   \global\let\and\relax
11408 }
11409 \else
11410 \renewcommand\maketitle{\par
11411   \begingroup
11412     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11413     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11414     \long\def\@makefntext##1{\parindent 1em\noindent
11415       \hb@xt@1.8em{%
11416         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11417     \if@twocolumn

```



```

11418     \ifnum \col@number=\@ne
11419         \@maketitle
11420     \else
11421         \twocolumn[\@maketitle]%
11422     \fi
11423 \else
11424     \newpage
11425     \global\@topnum\z@    % Prevents figures from going at top of page.
11426     \@maketitle
11427 \fi
11428 \thispagestyle{plain}\@thanks
11429 \endgroup
11430 \setcounter{footnote}{0}%
11431 \global\let\thanks\relax
11432 \global\let\maketitle\relax
11433 \global\let\@maketitle\relax
11434 \global\let\@thanks\@empty
11435 \global\let\@author\@empty
11436 \global\let\@date\@empty
11437 \global\let\@title\@empty
11438 \global\let\title\relax
11439 \global\let\author\relax
11440 \global\let\date\relax
11441 \global\let\and\relax
11442 }
11443 \def\@maketitle{%
11444     \newpage
11445     \null
11446     \vskip 2em%
11447     \begin{center}%
11448     \let \footnote \thanks
11449     {\LARGE \@title \par}%
11450     \vskip 1.5em%
11451     {\large
11452         \lineskip .5em%
11453         \begin{tabular}[t]{c}%
11454             \@author
11455         \end{tabular}\par}%
11456     \vskip 1em%
11457     {\large \@date}%
11458     \end{center}%
11459     \par
11460     \vskip 1.5em}
11461 \fi
11462 \renewcommand\thesubsection    {\thesection\@SepMark\@arabic\c@section}
11463 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11464 \renewcommand\theparagraph    {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11465 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```

## 84 File extbook-xetex-bidi.def

```

11466 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class fo
11467     \if@titlepage
11468     \renewcommand\maketitle{\begin{titlepage}%

```



```

11469 \let\footnotesize\small
11470 \let\right@footnoterule\relax
11471 \let\left@footnoterule\relax
11472 \let\textwidth@footnoterule\relax
11473 \let \footnote \thanks
11474 \let \LTRfootnote \LTRthanks
11475 \let \RTLfootnote \RTLthanks
11476 \null\vfil
11477 \vskip 60\p@
11478 \begin{center}%
11479   {\LARGE \@title \par}%
11480   \vskip 3em%
11481   {\large
11482     \lineskip .75em%
11483     \begin{tabular}[t]{c}%
11484       \@author
11485       \end{tabular}\par}%
11486     \vskip 1.5em%
11487     {\large \@date \par}%           % Set date in \large size.
11488 \end{center}\par
11489 \@thanks
11490 \vfil\null
11491 \end{titlepage}%
11492 \setcounter{footnote}{0}%
11493 \global\let\thanks\relax
11494 \global\let\LTRthanks\relax
11495 \global\let\RTLthanks\relax
11496 \global\let\maketitle\relax
11497 \global\let\@thanks\@empty
11498 \global\let\@author\@empty
11499 \global\let\@date\@empty
11500 \global\let\@title\@empty
11501 \global\let\title\relax
11502 \global\let\author\relax
11503 \global\let\date\relax
11504 \global\let\and\relax
11505 }
11506 \else
11507 \renewcommand\maketitle{\par
11508   \begingroup
11509     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11510     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11511     \long\def\@makefntext##1{\parindent 1em\noindent
11512       \hb@xt@1.8em{%
11513         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11514     \if@twocolumn
11515       \ifnum \col@number=\@one
11516         \@maketitle
11517       \else
11518         \twocolumn[\@maketitle]%
11519       \fi
11520     \else
11521       \newpage
11522       \global\@topnum\z@           % Prevents figures from going at top of page.

```



```

11523     \@maketitle
11524     \fi
11525     \thispagestyle{plain}\@thanks
11526 \endgroup
11527 \setcounter{footnote}{0}%
11528 \global\let\thanks\relax
11529 \global\let\LTRthanks\relax
11530 \global\let\RTLthanks\relax
11531 \global\let\maketitle\relax
11532 \global\let\@maketitle\relax
11533 \global\let\@thanks\@empty
11534 \global\let\@author\@empty
11535 \global\let\@date\@empty
11536 \global\let\@title\@empty
11537 \global\let\title\relax
11538 \global\let\author\relax
11539 \global\let\date\relax
11540 \global\let\and\relax
11541 }
11542 \def\@maketitle{%
11543   \newpage
11544   \null
11545   \vskip 2em%
11546   \begin{center}%
11547     \let \footnote \thanks
11548     \let \LTRfootnote \LTRthanks
11549     \let \RTLfootnote \RTLthanks
11550     {\LARGE \@title \par}%
11551     \vskip 1.5em%
11552     {\large
11553       \lineskip .5em%
11554       \begin{tabular}[t]{c}%
11555         \@author
11556       \end{tabular}\par}%
11557     \vskip 1em%
11558     {\large \@date}%
11559   \end{center}%
11560   \par
11561   \vskip 1.5em}
11562 \fi
11563 \renewcommand*\l@part[2]{%
11564   \ifnum \c@tocdepth >-2\relax
11565     \addpenalty{-\@highpenalty}%
11566     \addvspace{2.25em \@plus\p@}%
11567     \begingroup
11568       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11569       \parfillskip -\@pnumwidth
11570       {\leavevmode
11571         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11572       \nobreak
11573       \global\@nobreaktrue
11574       \everypar{\global\@nobreakfalse\everypar{}}%
11575     \endgroup
11576   \fi}

```





```

11577 \renewcommand\theequation
11578 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
11579 \renewcommand \thefigure
11580 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11581 \renewcommand \thetable
11582 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11583 \renewcommand \thechapter {\@arabic\c@chapter}
11584 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
11585 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11586 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11587 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11588 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
11589 \def\@makechapterhead#1{%
11590 \vspace*{50\p@}%
11591 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
11592 \ifnum \c@secnumdepth >\m@ne
11593 \if@mainmatter
11594 \huge\bfseries \@chapapp\space \thechapter
11595 \par\nobreak
11596 \vskip 20\p@
11597 \fi
11598 \fi
11599 \interlinepenalty\@M
11600 \Huge \bfseries #1\par\nobreak
11601 \vskip 40\p@
11602 }}
11603
11604 \def\@makeschapterhead#1{%
11605 \vspace*{50\p@}%
11606 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11607 \normalfont
11608 \interlinepenalty\@M
11609 \Huge \bfseries #1\par\nobreak
11610 \vskip 40\p@
11611 }}
11612 \renewcommand\backmatter{%
11613 \if@openright
11614 \cleardoublepage
11615 \else
11616 \clearpage
11617 \fi
11618 \@mainmatterfalse}
11619 \renewenvironment{thebibliography}[1]
11620 {\chapter*{\bibname
11621 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
11622 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11623 \bidi@thebibliography@font@hook%
11624 \list{\@biblabel{\@arabic\c@enumiv}}%
11625 {\settowidth\labelwidth{\@biblabel{#1}}%
11626 \leftmargin\labelwidth
11627 \advance\leftmargin\labelsep
11628 \@openbib@code
11629 \usecounter{enumiv}%
11630 \let\p@enumiv\@empty

```



```

11631         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11632     \sloppy
11633     \clubpenalty4000
11634     \@clubpenalty \clubpenalty
11635     \widowpenalty4000%
11636     \sfcode`. \m}
11637 {\def\@noitemerr
11638   {\@latex@warning{Empty `thebibliography' environment}}%
11639   \endlist}

```

## 85 File extletter-xetex-bidi.def

```

11640 \ProvidesFile{extletter-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extletter clas
11641 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
11642   \thispagestyle{firstpage}%
11643   {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
11644   \else % home address
11645     \thispagestyle{empty}%
11646     {\if@RTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignor
11647     \fromaddress \*[2\parskip]%
11648     \@date \end{tabular}\par}%
11649   \fi
11650   \vspace{2\parskip}%
11651   {\if@RTL\raggedleft\else\raggedright\fi \toname \\\ toaddress \par}%
11652   \vspace{2\parskip}%
11653   #1\par\nobreak}
11654 \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
11655   \stopbreaks
11656   \noindent
11657   \ifx\@empty\fromaddress\else
11658     \hspace*{\longindentation}\fi
11659   \parbox{\indentedwidth}{\if@RTL\raggedleft\else\raggedright\fi
11660     \ignorespaces #1\[\medskipamount]}%
11661     \ifx\@empty\fromsig
11662       \fromname
11663     \else \fromsig \fi\strut}%
11664   \par}
11665 \renewcommand\left@footnoterule{%
11666   \kern-\p@
11667   \hrule \@width .4\columnwidth
11668   \kern .6\p@}
11669 \renewcommand\right@footnoterule{%
11670   \kern-\p@
11671   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11672   \kern .6\p@}

```

## 86 File extrafootnotefeatures-xetex-bidi.def

```

11673 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2023/08/02 v2.6 bidi extra footnote fea
11674 \newdimen\bidi@columnwidth
11675 \def\bidi@floathook{%
11676   \bidi@columnwidth\columnwidth
11677 }
11678 \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%

```



```

11679 \if@bidi@csundef{ifHy@hyperfootnotes}{-}{%
11680 \if@bidi@csundef{HLTR@LTrfootnotetext}{-}{%
11681 \ifHy@hyperfootnotes
11682 \let\@H@footnotetext\@footnotetext
11683 \let\@HLTR@LTrfootnotetext\@LTrfootnotetext
11684 \let\@HRTL@RTLfootnotetext\@RTLfootnotetext
11685 \let\@H@mpfootnotetext\@mpfootnotetext
11686 \let\@HLTR@mpLTrfootnotetext\@mpLTrfootnotetext
11687 \let\@HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11688 \fi
11689 }%
11690 }%
11691 }
11692 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{-}{%
11693 \if@bidi@csundef{ifHy@hyperfootnotes}{-}{%
11694 \if@bidi@csundef{HLTR@LTrfootnotetext}{-}{%
11695 \ifHy@hyperfootnotes
11696 \let\H@footnotetext\@footnotetext
11697 \let\@footnotetext\@H@footnotetext
11698 \let\HLTR@LTrfootnotetext\@LTrfootnotetext
11699 \let\@LTrfootnotetext\@HLTR@LTrfootnotetext
11700 \let\HRTL@RTLfootnotetext\@RTLfootnotetext
11701 \let\@RTLfootnotetext\@HRTL@RTLfootnotetext
11702 \let\H@mpfootnotetext\@mpfootnotetext
11703 \let\@mpfootnotetext\@H@mpfootnotetext
11704 \let\HLTR@mpLTrfootnotetext\@mpLTrfootnotetext
11705 \let\@mpLTrfootnotetext\@HLTR@mpLTrfootnotetext
11706 \let\HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11707 \let\@mpRTLfootnotetext\@HRTL@mpRTLfootnotetext
11708 \fi
11709 }%
11710 }%
11711 }
11712 \let\autofootnoterule\relax
11713 \let\rightfootnoterule\relax
11714 \let\leftfootnoterule\relax
11715 \let\textwidthfootnoterule\relax
11716 \let\LRfootnoterule\relax
11717 \def\footnoterule{\kern-3\p@
11718 \hrule \@width \columnwidth \kern 2.6\p@}
11719 \newcommand{\@preamnormalfmt}{-}{%
11720 \parindent 1em%
11721 \noindent
11722 }
11723 \newcommand{\@normalfootfmt}[1]{-}{%
11724 \@preamnormalfmt
11725 \footfootmark
11726 \rule{z@}{footnotesep}\ignorespaces{\foottextfont #1}%
11727 \@finalstrut\strutbox
11728 }
11729 \newcommand{\@normalRTLfootfmt}[1]{-}{%
11730 \@preamnormalfmt
11731 \RTLfootfootmark
11732 \rule{z@}{footnotesep}\ignorespaces{\RTLfoottextfont #1}%

```



```

11733 \@finalstrut\strutbox
11734 }
11735 \newcommand{\@normalLTRfootfmt}[1]{%
11736   \@preamnormalfmt
11737   \LTRfootfootmark
11738   \rule{z@\footnotesep\ignorespaces}{\LTRfoottextfont #1}%
11739   \@finalstrut\strutbox
11740 }
11741 \renewcommand{\@footnotetext}[1]{%
11742   \insert\footins{%
11743     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11744     \def\baselinestretch{\m@m@footnote@spacing}%
11745     \reset@font
11746     \foottextfont
11747     \@preamfntext
11748     \hsize\columnwidth
11749     \protected@edef\@currentlabel{%
11750       \csname p@footnote\endcsname\@thefnmark}%
11751     \color@begingroup
11752       \@normalfootfmt{#1}%
11753     \color@endgroup}%
11754     \m@mmf@prepare}
11755 \newcommand{\@bidi@bidiold@footnotetext}[1]{%
11756   \@bidi@step@absolute@footnote@count
11757   \@bidi@reinsert@footnote\footinsv@1\@footstartv@1\@LTRfootgroupv@1
11758   \insert\footins{%
11759     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11760     \def\baselinestretch{\m@m@footnote@spacing}%
11761     \reset@font
11762     \foottextfont
11763     \@preamfntext
11764     \hsize\columnwidth
11765     \protected@edef\@currentlabel{%
11766       \csname p@footnote\endcsname\@thefnmark}%
11767     \color@begingroup
11768       \@normalfootfmt{#1}%
11769     \color@endgroup}%
11770     \m@mmf@prepare
11771 }
11772 \renewcommand{\@RTLfootnotetext}[1]{%
11773   \insert\footins{%
11774     \@RTLtrue%
11775     \def\baselinestretch{\m@m@footnote@spacing}%
11776     \reset@font
11777     \RTLfoottextfont
11778     \@preamfntext
11779     \hsize\columnwidth
11780     \protected@edef\@currentlabel{%
11781       \csname p@footnote\endcsname\@thefnmark}%
11782     \color@begingroup
11783       \@normalRTLfootfmt{#1}%
11784     \color@endgroup}%
11785     \m@mmf@prepare}
11786 \newcommand{\@bidi@bidiold@RTLfootnotetext}[1]{%

```



```

11787 \bidi@step@absolutefootnote@count
11788 \bidi@reinsertfootnote\footinsv@1\@footstartv@1\@LTRfootgroupv@1
11789 \insert\footins{%
11790 \@RTLtrue%
11791 \def\baselinestretch{\m@m@footnote@spacing}%
11792 \reset@font
11793 \RTLfoottextfont
11794 \@preamfntext
11795 \hsize\columnwidth
11796 \protected@edef\@currentlabel{%
11797 \csname p@footnote\endcsname\@thefnmark}%
11798 \color@begingroup
11799 \@normalRTLfootfmt{#1}%
11800 \color@endgroup}%
11801 \m@mmf@prepare
11802 }
11803 \renewcommand{\@LTRfootnotetext}[1]{%
11804 \insert\footins{%
11805 \@RTLfalse%
11806 \def\baselinestretch{\m@m@footnote@spacing}%
11807 \reset@font
11808 \LTRfoottextfont
11809 \@preamfntext
11810 \hsize\columnwidth
11811 \protected@edef\@currentlabel{%
11812 \csname p@footnote\endcsname\@thefnmark}%
11813 \color@begingroup
11814 \@normalLTRfootfmt{#1}%
11815 \color@endgroup}%
11816 \m@mmf@prepare}
11817 \renewcommand{\@mpfootnotetext}[1]{%
11818 \global\setbox\@mpfootins\vbox{%
11819 \unvbox\@mpfootins
11820 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
11821 \def\baselinestretch{\m@m@footnote@spacing}%
11822 \reset@font%
11823 \foottextfont \hsize\columnwidth \@parboxrestore
11824 \protected@edef\@currentlabel{%
11825 \csname p@mpfootnote\endcsname\@thefnmark}%
11826 \color@begingroup
11827 \@normalfootfmt{#1}%
11828 \color@endgroup}}
11829 \newcommand{\bidi@bidiold@mpfootnotetext}[1]{%
11830 \bidi@joinmpfootnotes\@mpfootinsv@1\@footstartv@1\mp@LTRfootgroupv@1
11831 \global\setbox\@mpfootins\vbox{%
11832 \unvbox\@mpfootins
11833 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11834 \def\baselinestretch{\m@m@footnote@spacing}%
11835 \reset@font%
11836 \foottextfont \hsize\columnwidth \@parboxrestore
11837 \protected@edef\@currentlabel{%
11838 \csname p@mpfootnote\endcsname\@thefnmark}%
11839 \color@begingroup
11840 \@normalfootfmt{#1}%

```



```

11841 \color@endgroup}}
11842 \renewcommand{\@mpLTRfootnotetext}[1]{%
11843 \global\setbox\@mpfootins\vbox{%
11844 \unvbox\@mpfootins
11845 \@RTLfalse
11846 \def\baselinestretch{\m@m@footnote@spacing}%
11847 \reset@font%
11848 \LTRfoottextfont \hsize\columnwidth \@parboxrestore
11849 \protected@edef\@currentlabel{%
11850 \csname p@mpfootnote\endcsname\@thefnmark}%
11851 \color@begingroup
11852 \@normalLTRfootfmt{#1}%
11853 \color@endgroup}}
11854 \renewcommand{\@mpRTLfootnotetext}[1]{%
11855 \global\setbox\@mpfootins\vbox{%
11856 \unvbox\@mpfootins
11857 \@RTLtrue
11858 \def\baselinestretch{\m@m@footnote@spacing}%
11859 \reset@font%
11860 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11861 \protected@edef\@currentlabel{%
11862 \csname p@mpfootnote\endcsname\@thefnmark}%
11863 \color@begingroup
11864 \@normalRTLfootfmt{#1}%
11865 \color@endgroup}}
11866 \newcommand{\bidi@bidiold@mpRTLfootnotetext}[1]{%
11867 \bidi@joinmpfootnotes\@mpfootinsv@1\@footstartv@1\mp@LTRfootgroupv@1
11868 \global\setbox\@mpfootins\vbox{%
11869 \unvbox\@mpfootins
11870 \@RTLtrue
11871 \def\baselinestretch{\m@m@footnote@spacing}%
11872 \reset@font%
11873 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11874 \protected@edef\@currentlabel{%
11875 \csname p@mpfootnote\endcsname\@thefnmark}%
11876 \color@begingroup
11877 \@normalRTLfootfmt{#1}%
11878 \color@endgroup}}
11879 \let\m@mold@footnotetext\@footnotetext
11880 \let\m@mold@LTRfootnotetext\@LTRfootnotetext
11881 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
11882 \let\m@mold@mpfootnotetext\@mpfootnotetext
11883 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
11884 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
11885 \bidi@ensure@newcommand{\normalfootnotes}{%
11886 \@bidi@before@Hy@hyperfootnotes
11887 \let\@footnotetext\m@mold@footnotetext
11888 \let\@LTRfootnotetext\m@mold@LTRfootnotetext
11889 \let\@RTLfootnotetext\m@mold@RTLfootnotetext
11890 \let\@mpfootnotetext\m@mold@mpfootnotetext
11891 \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
11892 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
11893 \@bidi@after@Hy@hyperfootnotes
11894 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth

```



```

11895 }
11896 \@ifclassloaded{memoir}{\let\plainfootnotes\normalfootnotes}{}
11897 \bidi@ensure@newcommand*\setSingleSpace[1]{%
11898   \def\m@m@singlespace{#1}%
11899   \def\m@m@footnote@spacing{#1}%
11900   \def\m@m@float@spacing{#1} %
11901 }
11902 \setSingleSpace{1}
11903 \bidi@ensure@newcommand*\multiplefootnotemarker{3sp}
11904 \bidi@ensure@newcommand*\m@mmf@prepare{%
11905   \kern-\multiplefootnotemarker
11906   \kern\multiplefootnotemarker\relax}
11907 \bidi@ensure@newlength{\footmarkwidth}
11908 \bidi@ensure@newcommand*\footmarkstyle[1]{\def\footscript##1{#1}}
11909 \bidi@ensure@newcommand*\LTRfootmarkstyle[1]{\def\LTRfootscript##1{#1}}
11910 \bidi@ensure@newcommand*\RTLfootmarkstyle[1]{\def\RTLfootscript##1{#1}}
11911 \bidi@ensure@newcommand{\footfootmark}{%
11912   \ifdim\footmarkwidth < \z@
11913     \llap{\hb@xt@ -\footmarkwidth{%
11914       \hss\normalfont\footscript{\@thefnmark}}}%
11915     \hspace*{-\footmarkwidth}}%
11916   \else
11917     \ifdim\footmarkwidth = \z@
11918       {\normalfont\footscript{\@thefnmark}}%
11919     \else
11920       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
11921     \fi
11922   \fi}
11923 \bidi@ensure@newcommand{\LTRfootfootmark}{%
11924   \ifdim\footmarkwidth < \z@
11925     \llap{\hb@xt@ -\footmarkwidth{%
11926       \hss\normalfont\LTRfootscript{\@thefnmark}}}%
11927     \hspace*{-\footmarkwidth}}%
11928   \else
11929     \ifdim\footmarkwidth = \z@
11930       {\normalfont\LTRfootscript{\@thefnmark}}%
11931     \else
11932       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
11933     \fi
11934   \fi}
11935 \bidi@ensure@newcommand{\RTLfootfootmark}{%
11936   \ifdim\footmarkwidth < \z@
11937     \llap{\hb@xt@ -\footmarkwidth{%
11938       \hss\normalfont\RTLfootscript{\@thefnmark}}}%
11939     \hspace*{-\footmarkwidth}}%
11940   \else
11941     \ifdim\footmarkwidth = \z@
11942       {\normalfont\RTLfootscript{\@thefnmark}}%
11943     \else
11944       \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
11945     \fi
11946   \fi}
11947 \footmarkstyle{\textsuperscript{#1}}
11948 \LTRfootmarkstyle{\textsuperscript{#1}}

```



```

11949 \RTLfootmarkstyle{\textsuperscript{#1}}
11950 \newcommand*{\bidi@normal@footmarkwidth}{%
11951   \setlength{\footmarkwidth}{1em plus.3em minus.3em}%
11952 }
11953 \newcommand*{\bidi@star@footmarkwidth}{%
11954   \setlength{\footmarkwidth}{0em plus.3em minus.3em}%
11955 }
11956 \bidi@normal@footmarkwidth
11957 \bidi@ensure@newcommand{\m@ndoextrafeet}{\extrafeetins}
11958 \bidi@ensure@newcommand*{\extrafeetins}{%
11959   \bidi@joinfootnotes\footinsv@r\@footstartv@r\@footgroupv@r
11960   \bidi@joinfootnotes\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11961   \bidi@joinfootnotes\@bidi@copyins@{\}\@unvbox\@bidi@copyins@}%
11962   \extrafeetinshook}
11963 \bidi@ensure@newcommand{\extrafeetinshook}{\}
11964 \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
11965 \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
11966 \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
11967 \bidi@ensure@newlength{\footinsdim}
11968   \setlength{\footinsdim}{8in} % standard for \dimen\footins
11969 \bidi@ensure@newcommand{\@preamfntext}{%
11970   \interlinepenalty\interfootnotelinepenalty
11971   \floatingpenalty \@MM
11972   \splittopskip=\footnotesep
11973   \splitmaxdepth=\dp\strutbox
11974   \@parboxrestore}
11975 \def\bidi@ifmulticol#1#2{\@tempswafalse
11976   \ifnum\col@number>\@ne
11977     \ifnum\count\footins>1999 \@tempswatrue \fi
11978   \fi
11979   \if@tempswa #1\else #2\fi
11980 }
11981 \def\bidi@joinfootnotes#1#2#3{%
11982   \ifvoid#1
11983   \else
11984     \@tempskipa\skip#1%
11985     \bidi@ifmulticol{\divide\@tempskipa\col@number}{\}%
11986     \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
11987     \bidi@removexfootskip
11988     \ifvoid\footins
11989       \global\setbox\footins\vbox{#2#3}%
11990     \else
11991       \global\setbox\footins\vbox{%
11992         \unvbox\footins
11993         \bidi@footskip
11994         #2#3%
11995       }%
11996     \fi
11997   \fi
11998 }
11999 \def\bidi@reinsertfootnote#1#2#3{%
12000   \ifvoid#1%
12001   \else
12002     \insert\footins{#2#3}%

```





```

12003 \fi
12004 }
12005 \def\bidijoinmpfootnotes#1#2#3{%
12006 \ifvoid#1
12007 \else
12008 \@tempskipa\skip#1%
12009 \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%
12010 \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
12011 \bidi@removexfootskip
12012 \ifvoid\@mpfootins
12013 \global\setbox\@mpfootins\vbox{#2#3}%
12014 \else
12015 \global\setbox\@mpfootins\vbox{%
12016 \unvbox\@mpfootins
12017 \bidi@footskip
12018 #2#3%
12019 }%
12020 \fi
12021 \fi
12022 }
12023 \newcount\bidi@absolute@page@count
12024 \bidi@absolute@page@count\@ne
12025 \newcount\bidi@absolute@footnote@count
12026 \bidi@AfterOutputBoxOutputPage{%
12027 \if@filesw
12028 \edef\@tempa{%
12029 \write\@auxout{%
12030 \string\bidi@finalfootnoteperpage%
12031 {\noexpand\number\noexpand\bidi@absolute@page@count}%
12032 {\noexpand\number\noexpand\bidi@absolute@footnote@count}%
12033 }%
12034 }%
12035 \@tempa
12036 \fi
12037 }
12038 \bidi@AtEndOutputPage{%
12039 \global\advance\bidi@absolute@page@count\@ne
12040 }
12041 \newcommand*{\bidi@finalfootnoteperpage}[2]{%
12042 \expandafter\gdef\csname bidi@currentpagefinalfootnote@@#1\endcsname{#2}%
12043 }
12044 \newif\ifbidi@finalfootnoteperpage
12045 \newcommand{\bidi@ifafterfinalfootnoteperpage}[2]{%
12046 \ifbidi@csundef\bidi@currentpagefinalfootnote@@\number\bidi@absolute@page@count}{%
12047 \global\@bidi@finalfootnoteperpagetrue
12048 }{%
12049 \global\@bidi@finalfootnoteperpagefalse
12050 \ifnum\bidi@absolute@footnote@count=\bidi@csuse\bidi@currentpagefinalfootnote@@\number\b
12051 #1%
12052 \else
12053 #2%
12054 \fi
12055 }%
12056 }

```



```

12057 \newcommand{\bidi@reinsertfinalfootnoteperpage}[3]{%
12058   \bidi@ifafterfinalfootnoteperpage{%
12059     \bidi@reinsertfootnote{#1}{#2}{#3}%
12060   }{%
12061   }%
12062 }
12063 \newcommand*{\bidi@step@absolutefootnote@count}{%
12064   \global\advance\bidi@absolutefootnote@count\@ne
12065 }
12066 \bidi@AfterEndDocumentCheckLabelsRerun{%
12067   \if\bidi@finalfootnoteperpage
12068     \PackageWarningNoLine{bidi}{%
12069       The absolute final footnote is not
12070       known on every page of your
12071       document. Rerun TeX to get the
12072       absolute final footnote on every page
12073       of your document%
12074     }%
12075   \fi
12076 }
12077 \bidi@ensure@newcommand{\m@mndoextrafeetmini}{%
12078   \extrafeetminihook}
12079 \bidi@ensure@newcommand{\extrafeetendmini}{%
12080   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12081   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12082   \extrafeetendminihook}
12083 \bidi@ensure@newcommand{\extrafeetendminihook}{}
12084 \bidi@ensure@newcommand{\m@mndoextrafeetendmini}{\extrafeetendmini}
12085 \def\endminipage{%
12086   \par
12087   \unskip
12088   \m@mndoextrafeetendmini
12089   \ifvoid\@mpfootins
12090   \else
12091     \vskip\skip\@mpfootins
12092     \normalcolor
12093     \footnoterule
12094     \unvbox\@mpfootins
12095   \fi
12096   \@minipagefalse
12097   \color@endgroup
12098   \egroup
12099   \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
12100 \bidi@ensure@newcommand{\m@make@footstart}[1]{%
12101   \@namedef{@footstart#1}{%
12102     \leftskip=\z@
12103     \rightskip=\z@
12104     \parindent=\z@
12105   }%
12106 }
12107 \newinsert\footinsv@r
12108 \skip\footinsv@r\skip\footins
12109 \count\footinsv@r=1000 % no magnification
12110 \dimen\footinsv@r=\footinsdim

```



```

12111 \make@footstart{v@r}
12112 \newinsert\footinsv@l
12113 \skip\footinsv@l\skip\footins
12114 \count\footinsv@l=1000 % no magnification
12115 \dimen\footinsv@l=\footinsdim
12116 \make@footstart{v@l}
12117 \bidi@ensure@newcommand{\@footgroupv@r}{\}
12118 \newinsert\@mpfootinsv@r
12119 \skip\@mpfootinsv@r\skip\@mpfootins
12120 \newinsert\@mpfootinsv@l
12121 \skip\@mpfootinsv@l\skip\@mpfootins
12122 \bidi@ensure@newcommand{\mp@footgroupv@r}{\}
12123 \newcount\m@m@k \newdimen\m@m@h
12124 \bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12125 \@@line{\beginR\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12126 \valign{##\vfill\cr\m@mdosplits}\endR}}
12127 \newcommand*{\bidi@LTRrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12128 \@@line{\beginL\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12129 \valign{##\vfill\cr\m@mdosplits}\endL}}
12130 \bidi@ensure@newcommand*{\m@mdosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@msplitoff
12131 \global\advance\m@m@k-1\cr\m@mdosplits\fi}
12132 \bidi@ensure@newcommand*{\m@msplitoff}{\dimen0=\ht0
12133 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
12134 \setbox2 \vsplit0 to \dimen0
12135 \unvbox2 }
12136 \bidi@ensure@newcommand{\twocolumnfootnotes}{\%
12137 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12138 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12139 \@bidi@before@Hy@hyperfootnotes
12140 \let\@footnotetext\@twocolfootnotetext
12141 \let\@LTRfootnotetext\@twocolLTRfootnotetext
12142 \let\@RTLfootnotetext\@twocolRTLfootnotetext
12143 \dimen\footinsv@r=2\footinsdim
12144 \count\footinsv@r=500\relax
12145 \make@twocol@footgroup{v@r}%
12146 \let\@footgroupv@r\@twocol@footgroupv@r
12147 \dimen\footinsv@l=2\footinsdim
12148 \count\footinsv@l=500\relax
12149 \bidi@make@twocol@LTRfootgroup{v@l}%
12150 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12151 \let\@mpfootnotetext\@mptwocolfootnotetext
12152 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
12153 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
12154 \@bidi@after@Hy@hyperfootnotes
12155 \make@mptwocol@footgroup{v@r}%
12156 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12157 \bidi@make@mptwocol@LTRfootgroup{v@l}%
12158 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
12159 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12160 }
12161 \newcommand{\TwoColumnFootnotes}{\%
12162 \@namedef{foottextfontv@r}{\foottextfont}%
12163 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12164 \@bidi@before@Hy@hyperfootnotes

```



```

12165 \let\@footnotetext\@TwoColfootnotetext
12166 \let\@LTRfootnotetext\@TwoColLTRfootnotetext
12167 \let\@RTLfootnotetext\@TwoColRTLfootnotetext
12168 \dimen\footinsv@r=2\footinsdim
12169 \count\footinsv@r=500\relax
12170 \m@make@twocol@footgroup{v@r}%
12171 \let\@footgroupv@r\@twocol@footgroupv@r
12172 \dimen\footinsv@l=2\footinsdim
12173 \count\footinsv@l=500\relax
12174 \bidi@make@twocol@LTRfootgroup{v@l}%
12175 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12176 \let\@mpfootnotetext\@mpTwoColfootnotetext
12177 \let\@mpLTRfootnotetext\@mpTwoColLTRfootnotetext
12178 \let\@mpRTLfootnotetext\@mpTwoColRTLfootnotetext
12179 \@bidi@after@Hy@hyperfootnotes
12180 \m@make@mp@twocol@footgroup{v@r}%
12181 \let\mp@footgroupv@r\@mp@twocol@footgroupv@r
12182 \bidi@make@mp@twocol@LTRfootgroup{v@l}%
12183 \let\mp@LTRfootgroupv@l\@mp@twocol@LTRfootgroupv@l
12184 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12185 }
12186 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert
12187   \if@RTL@footnote
12188     \footinsv@r
12189   \else
12190     \footinsv@l
12191   \fi
12192 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12193   \def\baselinestretch{\m@mm@footnote@spacing}%
12194   \reset@font\foottextfont
12195   \@preamfntext
12196   \protected@edef\@currentlabel{%
12197     \csname p@footnote\endcsname\@thefnmark}%
12198   \color@begingroup
12199     \@twocolfootfmt{#1}%
12200   \color@endgroup}%
12201   \m@mmf@prepare}
12202 \newcommand{\@TwoColfootnotetext}[1]{%
12203   \bidi@step@absolute@footnote@count
12204   \if@RTL@footnote
12205     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12206   \else
12207     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12208   \fi
12209   \global\setbox
12210   \if@RTL@footnote
12211     \footinsv@r
12212   \else
12213     \footinsv@l
12214   \fi
12215 \vbox{%
12216   \unvbox
12217   \if@RTL@footnote
12218     \footinsv@r

```



```

12219 \else
12220   \footinsv@l
12221 \fi
12222 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12223 \def\baselinestretch{\m@m@footnote@spacing}%
12224 \reset@font\foottextfont
12225 \@preamfntext
12226 \protected@edef\@currentlabel{%
12227   \csname p@footnote\endcsname\@thefnmark}%
12228 \color@begingroup
12229   \@twocolfootfmt{#1}%
12230 \color@endgroup}%
12231 \m@mmf@prepare
12232 \if@RTL@footnote
12233   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12234 \else
12235   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12236 \fi
12237 }
12238 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12239 \def\baselinestretch{\m@m@footnote@spacing}%
12240 \reset@font\LTRfoottextfont
12241 \@preamfntext
12242 \protected@edef\@currentlabel{%
12243   \csname p@footnote\endcsname\@thefnmark}%
12244 \color@begingroup
12245   \@twocolLTRfootfmt{#1}%
12246 \color@endgroup}%
12247 \m@mmf@prepare}
12248 \newcommand{\@TwoColLTRfootnotetext}[1]{%
12249   \bidi@step@absolutefootnote@count
12250 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12251 \global\setbox\footinsv@l\vbox{%
12252   \unvbox\footinsv@l
12253   \@RTLfalse
12254   \def\baselinestretch{\m@m@footnote@spacing}%
12255   \reset@font\LTRfoottextfont
12256   \@preamfntext
12257   \protected@edef\@currentlabel{%
12258     \csname p@footnote\endcsname\@thefnmark}%
12259   \color@begingroup
12260     \@twocolLTRfootfmt{#1}%
12261   \color@endgroup}%
12262   \m@mmf@prepare
12263   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12264 }
12265 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12266 \def\baselinestretch{\m@m@footnote@spacing}%
12267 \reset@font\RTLfoottextfont
12268 \@preamfntext
12269 \protected@edef\@currentlabel{%
12270   \csname p@footnote\endcsname\@thefnmark}%
12271 \color@begingroup
12272   \@twocolRTLfootfmt{#1}%

```



```

12273 \color@endgroup}%
12274 \m@mmf@prepare}
12275 \newcommand{\@TwoColRTLfootnotetext}[1]{%
12276 \bidi@step@absolutefootnote@count
12277 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12278 \global\setbox\footinsv@r\vbox{%
12279 \unvbox\footinsv@r
12280 \RTLtrue
12281 \def\baselinestretch{\m@mm@footnote@spacing}%
12282 \reset@font\RTLfoottextfont
12283 \preamfntext
12284 \protected@edef\@currentlabel{%
12285 \csname p@footnote\endcsname\@thefnmark}%
12286 \color@begingroup
12287 \@twocolRTLfootfmt{#1}%
12288 \color@endgroup}%
12289 \m@mmf@prepare
12290 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12291 }
12292 \bidi@ensure@newcommand{\@preamtwofmt}{%
12293 \hsize .45\hsize
12294 \parindent=\z@
12295 \tolerance=5000\relax
12296 \leavevmode}
12297 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
12298 \@preamtwofmt
12299 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12300 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
12301 \@preamtwofmt
12302 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12303 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
12304 \@preamtwofmt
12305 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12306 \bidi@ensure@newcommand{\@mptwocolfootnotetext}[1]{%
12307 \global\setbox
12308 \if@RTL@footnote
12309 \@mpfootinsv@r
12310 \else
12311 \@mpfootinsv@l
12312 \fi
12313 \vbox{%
12314 \unvbox
12315 \if@RTL@footnote
12316 \@mpfootinsv@r
12317 \else
12318 \@mpfootinsv@l
12319 \fi
12320 \if@RTL@footnote\RTLtrue\else\RTLfalse\fi
12321 \def\baselinestretch{\m@mm@footnote@spacing}%
12322 \reset@font\foottextfont
12323 \hsize\columnwidth \@parboxrestore
12324 \protected@edef\@currentlabel{%
12325 \csname p@mpfootnote\endcsname\@thefnmark}%
12326 \color@begingroup

```



```

12327 \@twocolfootfmt{#1}%
12328 \color@endgroup}%
12329 \m@mmf@prepare}
12330 \newcommand{\@mpTwoColfootnotetext}[1]{%
12331 \if@RTL@footnote
12332 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12333 \else
12334 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12335 \fi
12336 \global\setbox
12337 \if@RTL@footnote
12338 \@mpfootinsv@r
12339 \else
12340 \@mpfootinsv@l
12341 \fi
12342 \vbox{%
12343 \unvbox
12344 \if@RTL@footnote
12345 \@mpfootinsv@r
12346 \else
12347 \@mpfootinsv@l
12348 \fi
12349 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12350 \def\baselinestretch{\m@m@footnote@spacing}%
12351 \reset@font\foottextfont
12352 \hsize\columnwidth \@parboxrestore
12353 \protected@edef\@currentlabel{%
12354 \csname p@mpfootnote\endcsname\@thefnmark}%
12355 \color@begingroup
12356 \@twocolfootfmt{#1}%
12357 \color@endgroup}%
12358 \m@mmf@prepare}
12359 \bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
12360 \global\setbox\@mpfootinsv@l\vbox{%
12361 \unvbox\@mpfootinsv@l
12362 \@RTLfalse
12363 \def\baselinestretch{\m@m@footnote@spacing}%
12364 \reset@font\LTRfoottextfont
12365 \hsize\columnwidth \@parboxrestore
12366 \protected@edef\@currentlabel{%
12367 \csname p@mpfootnote\endcsname\@thefnmark}%
12368 \color@begingroup
12369 \@twocolLTRfootfmt{#1}%
12370 \color@endgroup}%
12371 \m@mmf@prepare}
12372 \newcommand{\@mpTwoColLTRfootnotetext}[1]{%
12373 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12374 \global\setbox\@mpfootinsv@l\vbox{%
12375 \unvbox\@mpfootinsv@l
12376 \@RTLfalse
12377 \def\baselinestretch{\m@m@footnote@spacing}%
12378 \reset@font\LTRfoottextfont
12379 \hsize\columnwidth \@parboxrestore
12380 \protected@edef\@currentlabel{%

```



```

12381 \csname p@mpfootnote\endcsname\@thefnmark}%
12382 \color@begingroup
12383 \@twocolLTRfootfmt{#1}%
12384 \color@endgroup}%
12385 \m@mmf@prepare}
12386 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
12387 \global\setbox\@mpfootinsv@r\vbox{%
12388 \unvbox\@mpfootinsv@r
12389 \@RTLtrue
12390 \def\baselinestretch{\m@m@footnote@spacing}%
12391 \reset@font\RTLfoottextfont
12392 \hsize\columnwidth \@parboxrestore
12393 \protected@edef\@currentlabel{%
12394 \csname p@mpfootnote\endcsname\@thefnmark}%
12395 \color@begingroup
12396 \@twocolRTLfootfmt{#1}%
12397 \color@endgroup}%
12398 \m@mmf@prepare}
12399 \newcommand{\@mpTwoColRTLfootnotetext}[1]{%
12400 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12401 \global\setbox\@mpfootinsv@r\vbox{%
12402 \unvbox\@mpfootinsv@r
12403 \@RTLtrue
12404 \def\baselinestretch{\m@m@footnote@spacing}%
12405 \reset@font\RTLfoottextfont
12406 \hsize\columnwidth \@parboxrestore
12407 \protected@edef\@currentlabel{%
12408 \csname p@mpfootnote\endcsname\@thefnmark}%
12409 \color@begingroup
12410 \@twocolRTLfootfmt{#1}%
12411 \color@endgroup}%
12412 \m@mmf@prepare}
12413 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
12414 \@namedef{@twocol@footgroup#1}{%
12415 \def\baselinestretch{\m@m@footnote@spacing}%
12416 \hsize\bidi@columnwidth
12417 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12418 \m@mrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12419 \newcommand{\bidi@make@twocol@LTRfootgroup}[1]{%
12420 \@namedef{@twocol@LTRfootgroup#1}{%
12421 \def\baselinestretch{\m@m@footnote@spacing}%
12422 \hsize\bidi@columnwidth
12423 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12424 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12425 \bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
12426 \@namedef{@mptwocol@footgroup#1}{%
12427 \def\baselinestretch{\m@m@footnote@spacing}%
12428 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12429 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}%
12430 \newcommand{\bidi@make@mptwocol@LTRfootgroup}[1]{%
12431 \@namedef{@mptwocol@LTRfootgroup#1}{%
12432 \def\baselinestretch{\m@m@footnote@spacing}%
12433 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12434 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}%

```





```

12435 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
12436   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12437   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12438   \@bidi@before@Hy@hyperfootnotes
12439   \let\@footnotetext\@threecolfootnotetext
12440   \let\@LTRfootnotetext\@threecolLTRfootnotetext
12441   \let\@RTLfootnotetext\@threecolRTLfootnotetext
12442   \dimen\footinsv@r=3\footinsdim
12443   \count\footinsv@r=333\relax
12444   \m@make@threecol@footgroup{v@r}%
12445   \let\@footgroupv@r\@threecol@footgroupv@r
12446   \dimen\footinsv@l=3\footinsdim
12447   \count\footinsv@l=333\relax
12448   \bidi@make@threecol@LTRfootgroup{v@l}%
12449   \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12450   \let\@mpfootnotetext\@mpthreecolfootnotetext
12451   \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
12452   \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
12453   \@bidi@after@Hy@hyperfootnotes
12454   \m@make@mpthreecol@footgroup{v@r}%
12455   \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12456   \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12457   \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12458   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12459 }
12460 \newcommand{\ThreeColumnFootnotes}{%
12461   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12462   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12463   \@bidi@before@Hy@hyperfootnotes
12464   \let\@footnotetext\@ThreeColfootnotetext
12465   \let\@LTRfootnotetext\@ThreeColLTRfootnotetext
12466   \let\@RTLfootnotetext\@ThreeColRTLfootnotetext
12467   \dimen\footinsv@r=3\footinsdim
12468   \count\footinsv@r=333\relax
12469   \m@make@threecol@footgroup{v@r}%
12470   \let\@footgroupv@r\@threecol@footgroupv@r
12471   \dimen\footinsv@l=3\footinsdim
12472   \count\footinsv@l=333\relax
12473   \bidi@make@threecol@LTRfootgroup{v@l}%
12474   \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12475   \let\@mpfootnotetext\@mpThreeColfootnotetext
12476   \let\@mpLTRfootnotetext\@mpThreeColLTRfootnotetext
12477   \let\@mpRTLfootnotetext\@mpThreeColRTLfootnotetext
12478   \@bidi@after@Hy@hyperfootnotes
12479   \m@make@mpthreecol@footgroup{v@r}%
12480   \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12481   \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12482   \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12483   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12484 }
12485 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert
12486   \if@RTL@footnote
12487     \footinsv@r
12488   \else

```



```

12489 \footinsv@l
12490 \fi
12491 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12492 \def\baselinestretch{\m@m@footnote@spacing}%
12493 \reset@font\foottextfont
12494 \@preamfntext
12495 \protected@edef\@currentlabel{%
12496 \csname p@footnote\endcsname\@thefnmark}%
12497 \color@begingroup
12498 \@threecolfootfmt{#1}%
12499 \color@endgroup}\m@mmf@prepare}
12500 \newcommand{\@ThreeColfootnotetext}[1]{%
12501 \bidi@step@absolute@footnote@count
12502 \if@RTL@footnote
12503 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12504 \else
12505 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12506 \fi
12507 \global\setbox
12508 \if@RTL@footnote
12509 \footinsv@r
12510 \else
12511 \footinsv@l
12512 \fi
12513 \vbox{%
12514 \unvbox
12515 \if@RTL@footnote
12516 \footinsv@r
12517 \else
12518 \footinsv@l
12519 \fi
12520 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12521 \def\baselinestretch{\m@m@footnote@spacing}%
12522 \reset@font\foottextfont
12523 \@preamfntext
12524 \protected@edef\@currentlabel{%
12525 \csname p@footnote\endcsname\@thefnmark}%
12526 \color@begingroup
12527 \@threecolfootfmt{#1}%
12528 \color@endgroup}\m@mmf@prepare
12529 \if@RTL@footnote
12530 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12531 \else
12532 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12533 \fi
12534 }
12535 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12536 \def\baselinestretch{\m@m@footnote@spacing}%
12537 \reset@font\LTRfoottextfont
12538 \@preamfntext
12539 \protected@edef\@currentlabel{%
12540 \csname p@footnote\endcsname\@thefnmark}%
12541 \color@begingroup
12542 \@threecolLTRfootfmt{#1}%

```



```

12543 \color@endgroup}\m@mmf@prepare}
12544 \newcommand{\@ThreeColLTRfootnotetext}[1]{%
12545 \bidi@step@absolutefootnote@count
12546 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12547 \global\setbox\footinsv@l\vbox{%
12548 \unvbox\footinsv@l
12549 \RTLfalse
12550 \def\baselinestretch{\m@m@footnote@spacing}%
12551 \reset@font\LTRfoottextfont
12552 \@preamfntext
12553 \protected@edef\@currentlabel{%
12554 \csname p@footnote\endcsname\@thefnmark}%
12555 \color@begingroup
12556 \@threecolLTRfootfmt{#1}%
12557 \color@endgroup}\m@mmf@prepare
12558 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12559 }
12560 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12561 \def\baselinestretch{\m@m@footnote@spacing}%
12562 \reset@font\RTLfoottextfont
12563 \@preamfntext
12564 \protected@edef\@currentlabel{%
12565 \csname p@footnote\endcsname\@thefnmark}%
12566 \color@begingroup
12567 \@threecolRTLfootfmt{#1}%
12568 \color@endgroup}\m@mmf@prepare}
12569 \newcommand{\@ThreeColRTLfootnotetext}[1]{%
12570 \bidi@step@absolutefootnote@count
12571 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12572 \global\setbox\footinsv@r\vbox{%
12573 \unvbox\footinsv@r
12574 \RTLtrue
12575 \def\baselinestretch{\m@m@footnote@spacing}%
12576 \reset@font\RTLfoottextfont
12577 \@preamfntext
12578 \protected@edef\@currentlabel{%
12579 \csname p@footnote\endcsname\@thefnmark}%
12580 \color@begingroup
12581 \@threecolRTLfootfmt{#1}%
12582 \color@endgroup}\m@mmf@prepare
12583 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12584 }
12585 \bidi@ensure@newcommand{\@preamthreefmt}{%
12586 \hsize .3\hsize
12587 \parindent=\z@
12588 \tolerance=5000\relax
12589 \leavevmode}
12590 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
12591 \@preamthreefmt
12592 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12593 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
12594 \@preamthreefmt
12595 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12596 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%

```



```

12597 \@preamthreefmt
12598 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12599 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
12600 \global\setbox
12601 \if@RTL@footnote
12602 \@mpfootinsv@r
12603 \else
12604 \@mpfootinsv@l
12605 \fi
12606 \vbox{%
12607 \unvbox
12608 \if@RTL@footnote
12609 \@mpfootinsv@r
12610 \else
12611 \@mpfootinsv@l
12612 \fi
12613 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12614 \def\baselinestretch{\m@m@footnote@spacing}%
12615 \reset@font\foottextfont
12616 \hsize\columnwidth \@parboxrestore
12617 \protected@edef\@currentlabel{%
12618 \csname p@mpfootnote\endcsname\@thefnmark}%
12619 \color@begingroup
12620 \@threecolfootfmt{#1}%
12621 \color@endgroup}\m@mmf@prepare}
12622 \newcommand{\@mpThreeColfootnotetext}[1]{%
12623 \if@RTL@footnote
12624 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12625 \else
12626 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12627 \fi
12628 \global\setbox
12629 \if@RTL@footnote
12630 \@mpfootinsv@r
12631 \else
12632 \@mpfootinsv@l
12633 \fi
12634 \vbox{%
12635 \unvbox
12636 \if@RTL@footnote
12637 \@mpfootinsv@r
12638 \else
12639 \@mpfootinsv@l
12640 \fi
12641 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12642 \def\baselinestretch{\m@m@footnote@spacing}%
12643 \reset@font\foottextfont
12644 \hsize\columnwidth \@parboxrestore
12645 \protected@edef\@currentlabel{%
12646 \csname p@mpfootnote\endcsname\@thefnmark}%
12647 \color@begingroup
12648 \@threecolfootfmt{#1}%
12649 \color@endgroup}\m@mmf@prepare}
12650 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%

```



```

12651 \global\setbox\@mpfootinsv@l\vbox{%
12652 \unvbox\@mpfootinsv@l
12653 \RTLfalse
12654 \def\baselinestretch{\m@m@footnote@spacing}%
12655 \reset@font\LTRfoottextfont
12656 \hsize\columnwidth \@parboxrestore
12657 \protected@edef\@currentlabel{%
12658 \csname p@mpfootnote\endcsname\@thefnmark}%
12659 \color@begingroup
12660 \@threecolLTRfootfmt{#1}%
12661 \color@endgroup}\m@mmf@prepare}
12662 \newcommand{\@mpThreeColLTRfootnotetext}[1]{%
12663 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12664 \global\setbox\@mpfootinsv@l\vbox{%
12665 \unvbox\@mpfootinsv@l
12666 \RTLfalse
12667 \def\baselinestretch{\m@m@footnote@spacing}%
12668 \reset@font\LTRfoottextfont
12669 \hsize\columnwidth \@parboxrestore
12670 \protected@edef\@currentlabel{%
12671 \csname p@mpfootnote\endcsname\@thefnmark}%
12672 \color@begingroup
12673 \@threecolLTRfootfmt{#1}%
12674 \color@endgroup}\m@mmf@prepare}
12675 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
12676 \global\setbox\@mpfootinsv@r\vbox{%
12677 \unvbox\@mpfootinsv@r
12678 \RTLtrue
12679 \def\baselinestretch{\m@m@footnote@spacing}%
12680 \reset@font\RTLfoottextfont
12681 \hsize\columnwidth \@parboxrestore
12682 \protected@edef\@currentlabel{%
12683 \csname p@mpfootnote\endcsname\@thefnmark}%
12684 \color@begingroup
12685 \@threecolRTLfootfmt{#1}%
12686 \color@endgroup}\m@mmf@prepare}
12687 \newcommand{\@mpThreeColRTLfootnotetext}[1]{%
12688 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12689 \global\setbox\@mpfootinsv@r\vbox{%
12690 \unvbox\@mpfootinsv@r
12691 \RTLtrue
12692 \def\baselinestretch{\m@m@footnote@spacing}%
12693 \reset@font\RTLfoottextfont
12694 \hsize\columnwidth \@parboxrestore
12695 \protected@edef\@currentlabel{%
12696 \csname p@mpfootnote\endcsname\@thefnmark}%
12697 \color@begingroup
12698 \@threecolRTLfootfmt{#1}%
12699 \color@endgroup}\m@mmf@prepare}
12700 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
12701 \@namedef{\@threecol@footgroup#1}{%
12702 \def\baselinestretch{\m@m@footnote@spacing}%
12703 \hsize\bidi@columnwidth
12704 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox

```



```

12705 \m@mrigidbodybalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12706 \newcommand{\bidi@make@threecol@LTRfootgroup}[1]{%
12707 \@namedef{threecol@LTRfootgroup#1}{%
12708 \def\baselinestretch{\m@m@footnote@spacing}%
12709 \hsize\bidi@columnwidth
12710 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12711 \bidi@LTRigidbodybalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12712 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
12713 \@namedef{mpthreecol@footgroup#1}{%
12714 \def\baselinestretch{\m@m@footnote@spacing}%
12715 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12716 \m@mrigidbodybalance{\@nameuse{mpfootins#1}}{\thr@@}{\splittopskip}}}}
12717 \newcommand{\bidi@make@mpthreecol@LTRfootgroup}[1]{%
12718 \@namedef{mpthreecol@LTRfootgroup#1}{%
12719 \def\baselinestretch{\m@m@footnote@spacing}%
12720 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12721 \bidi@LTRigidbodybalance{\@nameuse{mpfootins#1}}{\thr@@}{\splittopskip}}}}
12722 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
12723 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12724 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12725 \@bidi@before@Hy@hyperfootnotes
12726 \let\@footnotetext\@fourcolfootnotetext
12727 \let\@LTRfootnotetext\@fourcolLTRfootnotetext
12728 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
12729 \dimen\footinsv@r=4\footinsdim
12730 \count\footinsv@r=250\relax
12731 \m@make@fourcol@footgroup{v@r}%
12732 \let\@footgroupv@r\@fourcol@footgroupv@r
12733 \dimen\footinsv@l=4\footinsdim
12734 \count\footinsv@l=250\relax
12735 \bidi@make@fourcol@LTRfootgroup{v@l}%
12736 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12737 \let\@mpfootnotetext\@mpfourcolfootnotetext
12738 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
12739 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
12740 \@bidi@after@Hy@hyperfootnotes
12741 \m@make@mpfourcol@footgroup{v@r}%
12742 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12743 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12744 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12745 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12746 }
12747 \newcommand{\FourColumnFootnotes}{%
12748 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12749 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12750 \@bidi@before@Hy@hyperfootnotes
12751 \let\@footnotetext\@FourColfootnotetext
12752 \let\@LTRfootnotetext\@FourColLTRfootnotetext
12753 \let\@RTLfootnotetext\@FourColRTLfootnotetext
12754 \dimen\footinsv@r=4\footinsdim
12755 \count\footinsv@r=250\relax
12756 \m@make@fourcol@footgroup{v@r}%
12757 \let\@footgroupv@r\@fourcol@footgroupv@r
12758 \dimen\footinsv@l=4\footinsdim

```



```

12759 \count\footinsv@l=250\relax
12760 \bidi@make@fourcol@LTRfootgroup{v@l}%
12761 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12762 \let\@mpfootnotetext\@mpFourColfootnotetext
12763 \let\@mpLTRfootnotetext\@mpFourColLTRfootnotetext
12764 \let\@mpRTLfootnotetext\@mpFourColRTLfootnotetext
12765 \@bidi@after@Hy@hyperfootnotes
12766 \m@make@mpfourcol@footgroup{v@r}%
12767 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12768 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12769 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12770 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12771 }
12772 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert
12773   \if@RTL@footnote
12774     \footinsv@r
12775   \else
12776     \footinsv@l
12777   \fi
12778 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12779   \def\baselinestretch{\m@m@footnote@spacing}%
12780   \reset@font\foottextfont
12781   \@preamfntext
12782   \protected@edef\@currentlabel{%
12783     \csname p@footnote\endcsname\@thefnmark}%
12784   \color@begingroup
12785     \@fourcolfootfmt{#1}%
12786   \color@endgroup}%
12787   \m@mmf@prepare}
12788 \newcommand{\@FourColfootnotetext}[1]{%
12789   \bidi@step@absolutefootnote@count
12790   \if@RTL@footnote
12791     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12792   \else
12793     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12794   \fi
12795   \global\setbox
12796   \if@RTL@footnote
12797     \footinsv@r
12798   \else
12799     \footinsv@l
12800   \fi
12801   \vbox{%
12802     \unvbox
12803     \if@RTL@footnote
12804       \footinsv@r
12805     \else
12806       \footinsv@l
12807     \fi
12808     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12809     \def\baselinestretch{\m@m@footnote@spacing}%
12810     \reset@font\foottextfont
12811     \@preamfntext
12812     \protected@edef\@currentlabel{%

```



```

12813 \csname p@footnote\endcsname\@thefnmark}%
12814 \color@begingroup
12815 \@fourcolfootfmt{#1}%
12816 \color@endgroup}%
12817 \m@mmf@prepare
12818 \ifRTL@footnote
12819 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12820 \else
12821 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12822 \fi
12823 }
12824 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12825 \def\baselinestretch{\m@m@footnote@spacing}%
12826 \reset@font\LTRfoottextfont
12827 \@preamfntext
12828 \protected@edef\@currentlabel{%
12829 \csname p@footnote\endcsname\@thefnmark}%
12830 \color@begingroup
12831 \@fourcolLTRfootfmt{#1}%
12832 \color@endgroup}%
12833 \m@mmf@prepare}
12834 \newcommand{\@FourColLTRfootnotetext}[1]{%
12835 \bidi@step@absolute@footnote@count
12836 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12837 \global\setbox\footinsv@l\vbox{%
12838 \unvbox\footinsv@l
12839 \@RTLfalse%
12840 \def\baselinestretch{\m@m@footnote@spacing}%
12841 \reset@font\LTRfoottextfont
12842 \@preamfntext
12843 \protected@edef\@currentlabel{%
12844 \csname p@footnote\endcsname\@thefnmark}%
12845 \color@begingroup
12846 \@fourcolLTRfootfmt{#1}%
12847 \color@endgroup}%
12848 \m@mmf@prepare
12849 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12850 }
12851 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12852 \def\baselinestretch{\m@m@footnote@spacing}%
12853 \reset@font\RTLfoottextfont
12854 \@preamfntext
12855 \protected@edef\@currentlabel{%
12856 \csname p@footnote\endcsname\@thefnmark}%
12857 \color@begingroup
12858 \@fourcolRTLfootfmt{#1}%
12859 \color@endgroup}%
12860 \m@mmf@prepare}
12861 \newcommand{\@FourColRTLfootnotetext}[1]{%
12862 \bidi@step@absolute@footnote@count
12863 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12864 \global\setbox\footinsv@r\vbox{%
12865 \unvbox\footinsv@r
12866 \@RTLtrue

```





```

12867 \def\baselinestretch{\m@m@footnote@spacing}%
12868 \reset@font\RTLfoottextfont
12869 \@preamfntext
12870 \protected@edef\@currentlabel{%
12871   \csname p@footnote\endcsname\@thefnmark}%
12872 \color@begingroup
12873   \@fourcolRTLfootfmt{#1}%
12874 \color@endgroup}%
12875 \m@mmf@prepare
12876 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12877 }
12878 \bidi@ensure@newcommand{\@preamfourfmt}{%
12879   \hsize .25\hsize
12880   \parindent=\z@
12881   \tolerance=5000\relax
12882   \leavevmode}
12883 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
12884   \@preamfourfmt
12885   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12886 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
12887   \@preamfourfmt
12888   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12889 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
12890   \@preamfourfmt
12891   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12892 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
12893   \global\setbox
12894     \if@RTL@footnote
12895     \@mpfootinsv@r
12896   \else
12897     \@mpfootinsv@l
12898   \fi
12899   \vbox{%
12900     \unvbox
12901     \if@RTL@footnote
12902     \@mpfootinsv@r
12903   \else
12904     \@mpfootinsv@l
12905   \fi
12906   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12907   \def\baselinestretch{\m@m@footnote@spacing}%
12908   \reset@font\foottextfont
12909   \hsize\columnwidth \@parboxrestore
12910   \protected@edef\@currentlabel{%
12911     \csname p@mpfootnote\endcsname\@thefnmark}%
12912   \color@begingroup
12913     \@fourcolfootfmt{#1}%
12914   \color@endgroup}%
12915   \m@mmf@prepare}
12916 \newcommand{\@mpFourColfootnotetext}[1]{%
12917   \if@RTL@footnote
12918     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12919   \else
12920     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r

```



```

12921 \fi
12922 \global\setbox
12923 \if@RTL@footnote
12924 \@mpfootinsv@r
12925 \else
12926 \@mpfootinsv@l
12927 \fi
12928 \vbox{%
12929 \unvbox
12930 \if@RTL@footnote
12931 \@mpfootinsv@r
12932 \else
12933 \@mpfootinsv@l
12934 \fi
12935 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12936 \def\baselinestretch{\m@m@footnote@spacing}%
12937 \reset@font\foottextfont
12938 \hsize\columnwidth \@parboxrestore
12939 \protected@edef\@currentlabel{%
12940 \csname p@mpfootnote\endcsname\@thefnmark}%
12941 \color@begingroup
12942 \@fourcolfootfmt{#1}%
12943 \color@endgroup}%
12944 \m@mmf@prepare}
12945 \bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
12946 \global\setbox\@mpfootinsv@l\vbox{%
12947 \unvbox\@mpfootinsv@l
12948 \@RTLfalse
12949 \def\baselinestretch{\m@m@footnote@spacing}%
12950 \reset@font\LTRfoottextfont
12951 \hsize\columnwidth \@parboxrestore
12952 \protected@edef\@currentlabel{%
12953 \csname p@mpfootnote\endcsname\@thefnmark}%
12954 \color@begingroup
12955 \@fourcolLTRfootfmt{#1}%
12956 \color@endgroup}%
12957 \m@mmf@prepare}
12958 \newcommand{\@mpFourColLTRfootnotetext}[1]{%
12959 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12960 \global\setbox\@mpfootinsv@l\vbox{%
12961 \unvbox\@mpfootinsv@l
12962 \@RTLfalse
12963 \def\baselinestretch{\m@m@footnote@spacing}%
12964 \reset@font\LTRfoottextfont
12965 \hsize\columnwidth \@parboxrestore
12966 \protected@edef\@currentlabel{%
12967 \csname p@mpfootnote\endcsname\@thefnmark}%
12968 \color@begingroup
12969 \@fourcolLTRfootfmt{#1}%
12970 \color@endgroup}%
12971 \m@mmf@prepare}
12972 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
12973 \global\setbox\@mpfootinsv@r\vbox{%
12974 \unvbox\@mpfootinsv@r

```



```

12975 \RTLtrue
12976 \def\baselinestretch{\m@m@footnote@spacing}%
12977 \reset@font\RTLfoottextfont
12978 \hsize\columnwidth \@parboxrestore
12979 \protected@edef\@currentlabel{%
12980 \csname p@mpfootnote\endcsname\@thefnmark}%
12981 \color@begingroup
12982 \@fourcolRTLfootfmt{#1}%
12983 \color@endgroup}%
12984 \m@mmf@prepare}
12985 \newcommand{\@mpFourColRTLfootnotetext}[1]{%
12986 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12987 \global\setbox\@mpfootinsv@r\vbox{%
12988 \unvbox\@mpfootinsv@r
12989 \RTLtrue
12990 \def\baselinestretch{\m@m@footnote@spacing}%
12991 \reset@font\RTLfoottextfont
12992 \hsize\columnwidth \@parboxrestore
12993 \protected@edef\@currentlabel{%
12994 \csname p@mpfootnote\endcsname\@thefnmark}%
12995 \color@begingroup
12996 \@fourcolRTLfootfmt{#1}%
12997 \color@endgroup}%
12998 \m@mmf@prepare}
12999 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
13000 \@namedef{@fourcol@footgroup#1}{%
13001 \def\baselinestretch{\m@m@footnote@spacing}%
13002 \hsize\bidi@columnwidth
13003 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13004 \m@mrighdbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}%
13005 \newcommand{\bidi@make@fourcol@LTRfootgroup}[1]{%
13006 \@namedef{@fourcol@LTRfootgroup#1}{%
13007 \def\baselinestretch{\m@m@footnote@spacing}%
13008 \hsize\bidi@columnwidth
13009 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13010 \bidi@LTRrighdbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}%
13011 \bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
13012 \@namedef{@mpfourcol@footgroup#1}{%
13013 \def\baselinestretch{\m@m@footnote@spacing}%
13014 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13015 \m@mrighdbalance{\@nameuse{@mpfootins#1}}{4}{\splittopskip}}}%
13016 \newcommand{\bidi@make@mpfourcol@LTRfootgroup}[1]{%
13017 \@namedef{@mpfourcol@LTRfootgroup#1}{%
13018 \def\baselinestretch{\m@m@footnote@spacing}%
13019 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13020 \bidi@LTRrighdbalance{\@nameuse{@mpfootins#1}}{4}{\splittopskip}}}%
13021 \bidi@ensure@newcommand{\@fivecolumnfootnotes}{%
13022 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13023 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13024 \@bidi@before@Hy@hyperfootnotes
13025 \let\@footnotetext\@fivecolfootnotetext
13026 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
13027 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
13028 \dimen\footinsv@r=5\footinsdim

```



```

13029 \count\footinsv@r=200\relax
13030 \m@make@fivecol@footgroup{v@r}%
13031 \let\@footgroupv@r\@fivecol@footgroupv@r
13032 \dimen\footinsv@l=5\footinsdim
13033 \count\footinsv@l=200\relax
13034 \bidi@make@fivecol@LTRfootgroup{v@l}%
13035 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
13036 \let\@mpfootnotetext\@mpfivecolfootnotetext
13037 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
13038 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
13039 \@bidi@after@Hy@hyperfootnotes
13040 \m@make@mpfivecol@footgroup{v@r}%
13041 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
13042 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
13043 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
13044 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13045 }
13046 \newcommand{\FiveColumnFootnotes}{%
13047 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13048 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13049 \@bidi@before@Hy@hyperfootnotes
13050 \let\@footnotetext\@FiveColfootnotetext
13051 \let\@LTRfootnotetext\@FiveColLTRfootnotetext
13052 \let\@RTLfootnotetext\@FiveColRTLfootnotetext
13053 \dimen\footinsv@r=5\footinsdim
13054 \count\footinsv@r=200\relax
13055 \m@make@fivecol@footgroup{v@r}%
13056 \let\@footgroupv@r\@fivecol@footgroupv@r
13057 \dimen\footinsv@l=5\footinsdim
13058 \count\footinsv@l=200\relax
13059 \bidi@make@fivecol@LTRfootgroup{v@l}%
13060 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
13061 \let\@mpfootnotetext\@mpFiveColfootnotetext
13062 \let\@mpLTRfootnotetext\@mpFiveColLTRfootnotetext
13063 \let\@mpRTLfootnotetext\@mpFiveColRTLfootnotetext
13064 \@bidi@after@Hy@hyperfootnotes
13065 \m@make@mpfivecol@footgroup{v@r}%
13066 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
13067 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
13068 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
13069 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13070 }
13071 \bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert
13072 \if@RTL@footnote
13073 \footinsv@r
13074 \else
13075 \footinsv@l
13076 \fi
13077 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13078 \def\baselinestretch{\m@m@footnote@spacing}%
13079 \reset@font\foottextfont
13080 \@preamfntext
13081 \protected@edef\@currentlabel{%
13082 \csname p@footnote\endcsname\@thefnmark}%

```



```

13083 \color@begingroup
13084 \@fivecolfootfmt{#1}%
13085 \color@endgroup}%
13086 \m@mmf@prepare}
13087 \newcommand{\@FiveColfootnotetext}[1]{%
13088 \bidi@step@absolutefootnote@count
13089 \if@RTL@footnote
13090 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13091 \else
13092 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13093 \fi
13094 \global\setbox
13095 \if@RTL@footnote
13096 \footinsv@r
13097 \else
13098 \footinsv@l
13099 \fi
13100 \vbox{%
13101 \unvbox
13102 \if@RTL@footnote
13103 \footinsv@r
13104 \else
13105 \footinsv@l
13106 \fi
13107 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13108 \def\baselinestretch{\m@mm@footnote@spacing}%
13109 \reset@font\foottextfont
13110 \@preamfntext
13111 \protected@edef\@currentlabel{%
13112 \csname p@footnote\endcsname\@thefnmark}%
13113 \color@begingroup
13114 \@fivecolfootfmt{#1}%
13115 \color@endgroup}%
13116 \m@mmf@prepare
13117 \if@RTL@footnote
13118 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13119 \else
13120 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13121 \fi
13122 }
13123 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13124 \def\baselinestretch{\m@mm@footnote@spacing}%
13125 \reset@font\LTRfoottextfont
13126 \@preamfntext
13127 \protected@edef\@currentlabel{%
13128 \csname p@footnote\endcsname\@thefnmark}%
13129 \color@begingroup
13130 \@fivecolLTRfootfmt{#1}%
13131 \color@endgroup}%
13132 \m@mmf@prepare}
13133 \newcommand{\@FiveColLTRfootnotetext}[1]{%
13134 \bidi@step@absolutefootnote@count
13135 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13136 \global\setbox\footinsv@l\vbox{%

```



```

13137 \unvbox\footinsv@l
13138 \@RTLfalse
13139 \def\baselinestretch{\m@m@footnote@spacing}%
13140 \reset@font\LTRfoottextfont
13141 \@preamfntext
13142 \protected@edef\@currentlabel{%
13143   \csname p@footnote\endcsname\@thefnmark}%
13144 \color@begingroup
13145   \@fivecolLTRfootfmt{#1}%
13146 \color@endgroup}%
13147 \m@mmf@prepare
13148 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13149 }
13150 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13151   \def\baselinestretch{\m@m@footnote@spacing}%
13152   \reset@font\RTLfoottextfont
13153   \@preamfntext
13154   \protected@edef\@currentlabel{%
13155     \csname p@footnote\endcsname\@thefnmark}%
13156   \color@begingroup
13157     \@fivecolRTLfootfmt{#1}%
13158   \color@endgroup}%
13159   \m@mmf@prepare}
13160 \newcommand{\@FiveColRTLfootnotetext}[1]{%
13161   \bidi@step@absolutefootnote@count
13162   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13163   \global\setbox\footinsv@r\vbox{%
13164     \unvbox\footinsv@r
13165     \@RTLtrue
13166     \def\baselinestretch{\m@m@footnote@spacing}%
13167     \reset@font\RTLfoottextfont
13168     \@preamfntext
13169     \protected@edef\@currentlabel{%
13170       \csname p@footnote\endcsname\@thefnmark}%
13171     \color@begingroup
13172       \@fivecolRTLfootfmt{#1}%
13173     \color@endgroup}%
13174     \m@mmf@prepare
13175     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13176 }
13177 \bidi@ensure@newcommand{\@preamfivefmt}{%
13178   \hsize .2\hsize
13179   \parindent=\z@
13180   \tolerance=5000\relax
13181   \leavevmode}
13182 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
13183   \@preamfivefmt
13184   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13185 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
13186   \@preamfivefmt
13187   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13188 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
13189   \@preamfivefmt
13190   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}

```



```

13191 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
13192   \global\setbox
13193   \if@RTL@footnote
13194   \@mpfootinsv@r
13195   \else
13196   \@mpfootinsv@l
13197   \fi
13198   \vbox{%
13199     \unvbox
13200     \if@RTL@footnote
13201     \@mpfootinsv@r
13202     \else
13203     \@mpfootinsv@l
13204     \fi
13205     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13206     \def\baselinestretch{\m@m@footnote@spacing}%
13207     \reset@font\foottextfont
13208     \hsize\columnwidth \@parboxrestore
13209     \protected@edef\@currentlabel{%
13210       \csname p@mpfootnote\endcsname\@thefnmark}%
13211     \color@begingroup
13212     \@fivecolfootfmt{#1}%
13213     \color@endgroup}%
13214     \m@mmf@prepare}
13215 \newcommand{\@mpFiveColfootnotetext}[1]{%
13216   \if@RTL@footnote
13217   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13218   \else
13219   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13220   \fi
13221   \global\setbox
13222   \if@RTL@footnote
13223   \@mpfootinsv@r
13224   \else
13225   \@mpfootinsv@l
13226   \fi
13227   \vbox{%
13228     \unvbox
13229     \if@RTL@footnote
13230     \@mpfootinsv@r
13231     \else
13232     \@mpfootinsv@l
13233     \fi
13234     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13235     \def\baselinestretch{\m@m@footnote@spacing}%
13236     \reset@font\foottextfont
13237     \hsize\columnwidth \@parboxrestore
13238     \protected@edef\@currentlabel{%
13239       \csname p@mpfootnote\endcsname\@thefnmark}%
13240     \color@begingroup
13241     \@fivecolfootfmt{#1}%
13242     \color@endgroup}%
13243     \m@mmf@prepare}
13244 \bidi@ensure@newcommand{\@mpfivecollTRfootnotetext}[1]{%

```



```

13245 \global\setbox\@mpfootinsv@l\vbox{%
13246 \unvbox\@mpfootinsv@l
13247 \@RTLfalse
13248 \def\baselinestretch{\m@m@footnote@spacing}%
13249 \reset@font\LTRfoottextfont
13250 \hsize\columnwidth \@parboxrestore
13251 \protected@edef\@currentlabel{%
13252 \csname p@mpfootnote\endcsname\@thefnmark}%
13253 \color@begingroup
13254 \@fivecolLTRfootfmt{#1}%
13255 \color@endgroup}%
13256 \m@mmf@prepare}
13257 \newcommand{\@mpFiveColLTRfootnotetext}[1]{%
13258 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13259 \global\setbox\@mpfootinsv@l\vbox{%
13260 \unvbox\@mpfootinsv@l
13261 \@RTLfalse
13262 \def\baselinestretch{\m@m@footnote@spacing}%
13263 \reset@font\LTRfoottextfont
13264 \hsize\columnwidth \@parboxrestore
13265 \protected@edef\@currentlabel{%
13266 \csname p@mpfootnote\endcsname\@thefnmark}%
13267 \color@begingroup
13268 \@fivecolLTRfootfmt{#1}%
13269 \color@endgroup}%
13270 \m@mmf@prepare}
13271 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
13272 \global\setbox\@mpfootinsv@r\vbox{%
13273 \unvbox\@mpfootinsv@r
13274 \@RTLtrue
13275 \def\baselinestretch{\m@m@footnote@spacing}%
13276 \reset@font\RTLfoottextfont
13277 \hsize\columnwidth \@parboxrestore
13278 \protected@edef\@currentlabel{%
13279 \csname p@mpfootnote\endcsname\@thefnmark}%
13280 \color@begingroup
13281 \@fivecolRTLfootfmt{#1}%
13282 \color@endgroup}%
13283 \m@mmf@prepare}
13284 \newcommand{\@mpFiveColRTLfootnotetext}[1]{%
13285 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13286 \global\setbox\@mpfootinsv@r\vbox{%
13287 \unvbox\@mpfootinsv@r
13288 \@RTLtrue
13289 \def\baselinestretch{\m@m@footnote@spacing}%
13290 \reset@font\RTLfoottextfont
13291 \hsize\columnwidth \@parboxrestore
13292 \protected@edef\@currentlabel{%
13293 \csname p@mpfootnote\endcsname\@thefnmark}%
13294 \color@begingroup
13295 \@fivecolRTLfootfmt{#1}%
13296 \color@endgroup}%
13297 \m@mmf@prepare}
13298 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%

```





```

13299 \@namedef{@fivecol@footgroup#1}{%
13300 \def\baselinestretch{\m@m@footnote@spacing}%
13301 \hsize\bi@columnwidth
13302 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13303 \m@mrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
13304 \newcommand{\bi@make@fivecol@LTRfootgroup}[1]{%
13305 \@namedef{@fivecol@LTRfootgroup#1}{%
13306 \def\baselinestretch{\m@m@footnote@spacing}%
13307 \hsize\bi@columnwidth
13308 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13309 \bi@LTRrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
13310 \bi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
13311 \@namedef{@mpfivecol@footgroup#1}{%
13312 \def\baselinestretch{\m@m@footnote@spacing}%
13313 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13314 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}}
13315 \newcommand{\bi@make@mpfivecol@LTRfootgroup}[1]{%
13316 \@namedef{@mpfivecol@LTRfootgroup#1}{%
13317 \def\baselinestretch{\m@m@footnote@spacing}%
13318 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13319 \bi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}}
13320 \bi@ensure@newcommand{\sixcolumnfootnotes}{%
13321 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13322 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13323 \@bidi@before@Hy@hyperfootnotes
13324 \let\@footnotetext\@sixcolfootnotetext
13325 \let\@LTRfootnotetext\@sixcolLTRfootnotetext
13326 \let\@RTLfootnotetext\@sixcolRTLfootnotetext
13327 \dimen\footinsv@r=6\footinsdim
13328 \count\footinsv@r=166\relax
13329 \m@make@sixcol@footgroup{v@r}%
13330 \let\@footgroupv@r\@sixcol@footgroupv@r
13331 \dimen\footinsv@l=6\footinsdim
13332 \count\footinsv@l=166\relax
13333 \bi@make@sixcol@LTRfootgroup{v@l}%
13334 \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
13335 \let\@mpfootnotetext\@mpsixcolfootnotetext
13336 \let\@mpLTRfootnotetext\@mpsixcolLTRfootnotetext
13337 \let\@mpRTLfootnotetext\@mpsixcolRTLfootnotetext
13338 \@bidi@after@Hy@hyperfootnotes
13339 \m@make@mpsixcol@footgroup{v@r}%
13340 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
13341 \bi@make@mpsixcol@LTRfootgroup{v@l}%
13342 \let\mp@LTRfootgroupv@l\@mpsixcol@LTRfootgroupv@l
13343 \@ifstar\bi@star@footmarkwidth\bi@normal@footmarkwidth
13344 }
13345 \newcommand{\SixColumnFootnotes}{%
13346 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13347 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13348 \@bidi@before@Hy@hyperfootnotes
13349 \let\@footnotetext\@SixColfootnotetext
13350 \let\@LTRfootnotetext\@SixColLTRfootnotetext
13351 \let\@RTLfootnotetext\@SixColRTLfootnotetext
13352 \dimen\footinsv@r=6\footinsdim

```



```

13353 \count\footinsv@r=166\relax
13354 \m@make@sixcol@footgroup{v@r}%
13355 \let\@footgroupv@r\@sixcol@footgroupv@r
13356 \dimen\footinsv@l=6\footinsdim
13357 \count\footinsv@l=166\relax
13358 \bidi@make@sixcol@LTRfootgroup{v@l}%
13359 \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
13360 \let\@mpfootnotetext\@mpSixColfootnotetext
13361 \let\@mpLTRfootnotetext\@mpSixColLTRfootnotetext
13362 \let\@mpRTLfootnotetext\@mpSixColRTLfootnotetext
13363 \@bidi@after@Hy@hyperfootnotes
13364 \m@make@mpsixcol@footgroup{v@r}%
13365 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
13366 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
13367 \let\mp@LTRfootgroupv@l\@mpsixcol@LTRfootgroupv@l
13368 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13369 }
13370 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert
13371 \if@RTL@footnote
13372 \footinsv@r
13373 \else
13374 \footinsv@l
13375 \fi
13376 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13377 \def\baselinestretch{\m@mm@footnote@spacing}%
13378 \reset@font\foottextfont
13379 \@preamfntext
13380 \protected@edef\@currentlabel{%
13381 \csname p@footnote\endcsname\@thefnmark}%
13382 \color@begingroup
13383 \@sixcolfootfmt{#1}%
13384 \color@endgroup}%
13385 \m@mmf@prepare}
13386 \newcommand{\@SixColfootnotetext}[1]{%
13387 \bidi@step@absolutefootnote@count
13388 \if@RTL@footnote
13389 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13390 \else
13391 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13392 \fi
13393 \global\setbox
13394 \if@RTL@footnote
13395 \footinsv@r
13396 \else
13397 \footinsv@l
13398 \fi
13399 \vbox{%
13400 \unvbox
13401 \if@RTL@footnote
13402 \footinsv@r
13403 \else
13404 \footinsv@l
13405 \fi
13406 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%

```



```

13407 \def\baselinestretch{\m@m@footnote@spacing}%
13408 \reset@font\foottextfont
13409 \@preamfntext
13410 \protected@edef\@currentlabel{%
13411   \csname p@footnote\endcsname\@thefnmark}%
13412 \color@begingroup
13413   \@sixcolfootfmt{#1}%
13414 \color@endgroup}%
13415 \m@mmf@prepare
13416 \ifRTL@footnote
13417   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13418 \else
13419   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13420 \fi
13421 }
13422 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13423 \def\baselinestretch{\m@m@footnote@spacing}%
13424 \reset@font\LTRfoottextfont
13425 \@preamfntext
13426 \protected@edef\@currentlabel{%
13427   \csname p@footnote\endcsname\@thefnmark}%
13428 \color@begingroup
13429   \@sixcolLTRfootfmt{#1}%
13430 \color@endgroup}%
13431 \m@mmf@prepare}
13432 \newcommand{\@SixColLTRfootnotetext}[1]{%
13433 \bidi@step@absolutefootnote@count
13434 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13435 \global\setbox\footinsv@l\vbox{%
13436 \unvbox\footinsv@l
13437 \@RTLfalse
13438 \def\baselinestretch{\m@m@footnote@spacing}%
13439 \reset@font\LTRfoottextfont
13440 \@preamfntext
13441 \protected@edef\@currentlabel{%
13442   \csname p@footnote\endcsname\@thefnmark}%
13443 \color@begingroup
13444   \@sixcolLTRfootfmt{#1}%
13445 \color@endgroup}%
13446 \m@mmf@prepare
13447 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13448 }
13449 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13450 \def\baselinestretch{\m@m@footnote@spacing}%
13451 \reset@font\RTLfoottextfont
13452 \@preamfntext
13453 \protected@edef\@currentlabel{%
13454   \csname p@footnote\endcsname\@thefnmark}%
13455 \color@begingroup
13456   \@sixcolRTLfootfmt{#1}%
13457 \color@endgroup}%
13458 \m@mmf@prepare}
13459 \newcommand{\@SixColRTLfootnotetext}[1]{%
13460 \bidi@step@absolutefootnote@count

```



```

13461 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13462 \global\setbox\footinsv@r\vbox{%
13463 \unvbox\footinsv@r
13464 \@RTLtrue
13465 \def\baselinestretch{\m@m@footnote@spacing}%
13466 \reset@font\RTLfoottextfont
13467 \@preamfntext
13468 \protected@edef\@currentlabel{%
13469 \csname p@footnote\endcsname\@thefnmark}%
13470 \color@begingroup
13471 \@sixcolRTLfootfmt{#1}%
13472 \color@endgroup}%
13473 \m@mmf@prepare
13474 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13475 }
13476 \bidi@ensure@newcommand{\@preamsixfmt}{%
13477 \hsize .16\hsize
13478 \parindent=\z@
13479 \tolerance=5000\relax
13480 \leavevmode}
13481 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
13482 \@preamsixfmt
13483 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13484 \bidi@ensure@newcommand{\@sixcolLTRfootfmt}[1]{%
13485 \@preamsixfmt
13486 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13487 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
13488 \@preamsixfmt
13489 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13490 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{%
13491 \global\setbox
13492 \if@RTL@footnote
13493 \@mpfootinsv@r
13494 \else
13495 \@mpfootinsv@l
13496 \fi
13497 \vbox{%
13498 \unvbox
13499 \if@RTL@footnote
13500 \@mpfootinsv@r
13501 \else
13502 \@mpfootinsv@l
13503 \fi
13504 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13505 \def\baselinestretch{\m@m@footnote@spacing}%
13506 \reset@font\foottextfont
13507 \hsize\columnwidth \@parboxrestore
13508 \protected@edef\@currentlabel{%
13509 \csname p@mpfootnote\endcsname\@thefnmark}%
13510 \color@begingroup
13511 \@sixcolfootfmt{#1}%
13512 \color@endgroup}%
13513 \m@mmf@prepare}
13514 \newcommand{\@mpSixColfootnotetext}[1]{%

```



```

13515 \if@RTL@footnote
13516 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13517 \else
13518 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13519 \fi
13520 \global\setbox
13521 \if@RTL@footnote
13522 \@mpfootinsv@r
13523 \else
13524 \@mpfootinsv@l
13525 \fi
13526 \vbox{%
13527 \unvbox
13528 \if@RTL@footnote
13529 \@mpfootinsv@r
13530 \else
13531 \@mpfootinsv@l
13532 \fi
13533 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13534 \def\baselinestretch{\m@m@footnote@spacing}%
13535 \reset@font\foottextfont
13536 \hsize\columnwidth \@parboxrestore
13537 \protected@edef\@currentlabel{%
13538 \csname p@mpfootnote\endcsname\@thefnmark}%
13539 \color@begingroup
13540 \@sixcolfootfmt{#1}%
13541 \color@endgroup}%
13542 \m@m@prepare}
13543 \bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{%
13544 \global\setbox\@mpfootinsv@l\vbox{%
13545 \unvbox\@mpfootinsv@l
13546 \@RTLfalse
13547 \def\baselinestretch{\m@m@footnote@spacing}%
13548 \reset@font\LTRfoottextfont
13549 \hsize\columnwidth \@parboxrestore
13550 \protected@edef\@currentlabel{%
13551 \csname p@mpfootnote\endcsname\@thefnmark}%
13552 \color@begingroup
13553 \@sixcolLTRfootfmt{#1}%
13554 \color@endgroup}%
13555 \m@m@prepare}
13556 \newcommand{\@mpSixColLTRfootnotetext}[1]{%
13557 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13558 \global\setbox\@mpfootinsv@l\vbox{%
13559 \unvbox\@mpfootinsv@l
13560 \@RTLfalse
13561 \def\baselinestretch{\m@m@footnote@spacing}%
13562 \reset@font\LTRfoottextfont
13563 \hsize\columnwidth \@parboxrestore
13564 \protected@edef\@currentlabel{%
13565 \csname p@mpfootnote\endcsname\@thefnmark}%
13566 \color@begingroup
13567 \@sixcolLTRfootfmt{#1}%
13568 \color@endgroup}%

```



```

13569 \m@mmf@prepare}
13570 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{%
13571 \global\setbox\@mpfootinsv@r\vbox{%
13572 \unvbox\@mpfootinsv@r
13573 \RTLtrue
13574 \def\baselinestretch{\m@m@footnote@spacing}%
13575 \reset@font\RTLfoottextfont
13576 \hsize\columnwidth \@parboxrestore
13577 \protected@edef\@currentlabel{%
13578 \csname p@mpfootnote\endcsname\@thefnmark}%
13579 \color@begingroup
13580 \@sixcolRTLfootfmt{#1}%
13581 \color@endgroup}%
13582 \m@mmf@prepare}
13583 \newcommand{\@mpSixColRTLfootnotetext}[1]{%
13584 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13585 \global\setbox\@mpfootinsv@r\vbox{%
13586 \unvbox\@mpfootinsv@r
13587 \RTLtrue
13588 \def\baselinestretch{\m@m@footnote@spacing}%
13589 \reset@font\RTLfoottextfont
13590 \hsize\columnwidth \@parboxrestore
13591 \protected@edef\@currentlabel{%
13592 \csname p@mpfootnote\endcsname\@thefnmark}%
13593 \color@begingroup
13594 \@sixcolRTLfootfmt{#1}%
13595 \color@endgroup}%
13596 \m@mmf@prepare}
13597 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
13598 \@namedef{@sixcol@footgroup#1}{%
13599 \def\baselinestretch{\m@m@footnote@spacing}%
13600 \hsize\bidi@columnwidth
13601 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13602 \m@mrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%
13603 \newcommand{\bidi@make@sixcol@LTRfootgroup}[1]{%
13604 \@namedef{@sixcol@LTRfootgroup#1}{%
13605 \def\baselinestretch{\m@m@footnote@spacing}%
13606 \hsize\bidi@columnwidth
13607 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13608 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%
13609 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
13610 \@namedef{@mpsixcol@footgroup#1}{%
13611 \def\baselinestretch{\m@m@footnote@spacing}%
13612 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13613 \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{6}{\splittopskip}}}%
13614 \newcommand{\bidi@make@mpsixcol@LTRfootgroup}[1]{%
13615 \@namedef{@mpsixcol@LTRfootgroup#1}{%
13616 \def\baselinestretch{\m@m@footnote@spacing}%
13617 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13618 \bidi@LTRrigidbalance{\@nameuse{\@mpfootins#1}}{6}{\splittopskip}}}%
13619 \bidi@ensure@newcommand{\sevendcolumnfootnotes}{%
13620 \@namedef{foottextfontv@r}{\foottextfont}% \ [RS]
13621 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13622 \@bidi@before@Hy@hyperfootnotes

```



```

13623 \let\@footnotetext\@sevendcolfootnotetext
13624 \let\@LTRfootnotetext\@sevendcolLTRfootnotetext
13625 \let\@RTLfootnotetext\@sevendcolRTLfootnotetext
13626 \dimen\footinsv@r=7\footinsdim
13627 \count\footinsv@r=142\relax
13628 \m@make@sevendcol@footgroup{v@r}%
13629 \let\@footgroupv@r\@sevendcol@footgroupv@r
13630 \dimen\footinsv@l=7\footinsdim
13631 \count\footinsv@l=142\relax
13632 \bidi@make@sevendcol@LTRfootgroup{v@l}%
13633 \let\@LTRfootgroupv@l\@sevendcol@LTRfootgroupv@l
13634 \let\@mpfootnotetext\@mpsevendcolfootnotetext
13635 \let\@mpLTRfootnotetext\@mpsevendcolLTRfootnotetext
13636 \let\@mpRTLfootnotetext\@mpsevendcolRTLfootnotetext
13637 \@bidi@after@Hy@hyperfootnotes
13638 \m@make@mpsevendcol@footgroup{v@r}%
13639 \let\mp@footgroupv@r\@mpsevendcol@footgroupv@r
13640 \bidi@make@mpsevendcol@LTRfootgroup{v@l}%
13641 \let\mp@LTRfootgroupv@l\@mpsevendcol@LTRfootgroupv@l
13642 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13643 }
13644 \newcommand{\SevenColumnFootnotes}{%
13645 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13646 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13647 \@bidi@before@Hy@hyperfootnotes
13648 \let\@footnotetext\@SevenColfootnotetext
13649 \let\@LTRfootnotetext\@SevenColLTRfootnotetext
13650 \let\@RTLfootnotetext\@SevenColRTLfootnotetext
13651 \dimen\footinsv@r=7\footinsdim
13652 \count\footinsv@r=142\relax
13653 \m@make@sevendcol@footgroup{v@r}%
13654 \let\@footgroupv@r\@sevendcol@footgroupv@r
13655 \dimen\footinsv@l=7\footinsdim
13656 \count\footinsv@l=142\relax
13657 \bidi@make@sevendcol@LTRfootgroup{v@l}%
13658 \let\@LTRfootgroupv@l\@sevendcol@LTRfootgroupv@l
13659 \let\@mpfootnotetext\@mpSevenColfootnotetext
13660 \let\@mpLTRfootnotetext\@mpSevenColLTRfootnotetext
13661 \let\@mpRTLfootnotetext\@mpSevenColRTLfootnotetext
13662 \@bidi@after@Hy@hyperfootnotes
13663 \m@make@mpsevendcol@footgroup{v@r}%
13664 \let\mp@footgroupv@r\@mpsevendcol@footgroupv@r
13665 \bidi@make@mpsevendcol@LTRfootgroup{v@l}%
13666 \let\mp@LTRfootgroupv@l\@mpsevendcol@LTRfootgroupv@l
13667 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13668 }
13669 \bidi@ensure@newcommand{\@sevendcolfootnotetext}[1]{\insert
13670 \if@RTL@footnote
13671 \footinsv@r
13672 \else
13673 \footinsv@l
13674 \fi
13675 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13676 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

13677 \reset@font\foottextfont
13678 \@preamfntext
13679 \protected@edef\@currentlabel{%
13680   \csname p@footnote\endcsname\@thefnmark}%
13681 \color@begingroup
13682   \@sevendcolfootfmt{#1}%
13683 \color@endgroup}%
13684 \m@mmf@prepare}
13685 \newcommand{\@SevenColfootnotetext}[1]{%
13686   \bidi@step@absolute@footnote@count
13687   \if@RTL@footnote
13688     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13689   \else
13690     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13691   \fi
13692   \global\setbox
13693   \if@RTL@footnote
13694     \footinsv@r
13695   \else
13696     \footinsv@l
13697   \fi
13698   \vbox{%
13699     \unvbox
13700     \if@RTL@footnote
13701       \footinsv@r
13702     \else
13703       \footinsv@l
13704     \fi
13705     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13706     \def\baselinestretch{\m@mm@footnote@spacing}%
13707     \reset@font\foottextfont
13708     \@preamfntext
13709     \protected@edef\@currentlabel{%
13710       \csname p@footnote\endcsname\@thefnmark}%
13711     \color@begingroup
13712       \@sevendcolfootfmt{#1}%
13713     \color@endgroup}%
13714     \m@mmf@prepare
13715     \if@RTL@footnote
13716       \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13717     \else
13718       \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13719     \fi
13720 }
13721 \bidi@ensure@newcommand{\@sevendcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13722   \def\baselinestretch{\m@mm@footnote@spacing}%
13723   \reset@font\LTRfoottextfont
13724   \@preamfntext
13725   \protected@edef\@currentlabel{%
13726     \csname p@footnote\endcsname\@thefnmark}%
13727   \color@begingroup
13728     \@sevendcolLTRfootfmt{#1}%
13729   \color@endgroup}%
13730   \m@mmf@prepare}

```





```

13731 \newcommand{\@SevenColLTRfootnotetext}[1]{%
13732   \bidi@step@absolutefootnote@count
13733   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13734   \global\setbox\footinsv@l\vbox{%
13735     \unvbox\footinsv@l
13736     \RTLfalse
13737     \def\baselinestretch{\m@m@footnote@spacing}%
13738     \reset@font\LTRfoottextfont
13739     \@preamfntext
13740     \protected@edef\@currentlabel{%
13741       \csname p@footnote\endcsname\@thefnmark}%
13742     \color@begingroup
13743       \@sevendcolLTRfootfmt{#1}%
13744     \color@endgroup}%
13745     \m@mmf@prepare
13746     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13747   }
13748 \bidi@ensure@newcommand{\@sevendcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13749   \def\baselinestretch{\m@m@footnote@spacing}%
13750   \reset@font\RTLfoottextfont
13751   \@preamfntext
13752   \protected@edef\@currentlabel{%
13753     \csname p@footnote\endcsname\@thefnmark}%
13754   \color@begingroup
13755     \@sevendcolRTLfootfmt{#1}%
13756   \color@endgroup}%
13757   \m@mmf@prepare}
13758 \newcommand{\@SevenColRTLfootnotetext}[1]{%
13759   \bidi@step@absolutefootnote@count
13760   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13761   \global\setbox\footinsv@r\vbox{%
13762     \unvbox\footinsv@r
13763     \RTLtrue
13764     \def\baselinestretch{\m@m@footnote@spacing}%
13765     \reset@font\RTLfoottextfont
13766     \@preamfntext
13767     \protected@edef\@currentlabel{%
13768       \csname p@footnote\endcsname\@thefnmark}%
13769     \color@begingroup
13770       \@sevendcolRTLfootfmt{#1}%
13771     \color@endgroup}%
13772     \m@mmf@prepare
13773     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13774   }
13775 \bidi@ensure@newcommand{\@preamsevenfmt}{%
13776   \hsize .142\hsize
13777   \parindent=\z@
13778   \tolerance=5000\relax
13779   \leavevmode}
13780 \bidi@ensure@newcommand{\@sevendcolfootfmt}[1]{%
13781   \@preamsevenfmt
13782   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13783 \bidi@ensure@newcommand{\@sevendcolLTRfootfmt}[1]{%
13784   \@preamsevenfmt

```



```

13785 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13786 \bidi@ensure@newcommand{\@sevendcolRTLfootfmt}[1]{%
13787   \@preamsevenfmt
13788   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13789 \bidi@ensure@newcommand{\@mpsevendcolfootnotetext}[1]{%
13790   \global\setbox
13791     \if@RTL@footnote
13792     \@mpfootinsv@r
13793   \else
13794     \@mpfootinsv@l
13795   \fi
13796   \vbox{%
13797     \unvbox
13798     \if@RTL@footnote
13799     \@mpfootinsv@r
13800   \else
13801     \@mpfootinsv@l
13802   \fi
13803   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13804   \def\baselinestretch{\m@m@footnote@spacing}%
13805   \reset@font\foottextfont
13806   \hsize\columnwidth \@parboxrestore
13807   \protected@edef\@currentlabel{%
13808     \csname p@mpfootnote\endcsname\@thefnmark}%
13809   \color@begingroup
13810     \@sevendcolfootfmt{#1}%
13811   \color@endgroup}%
13812   \m@m@f@prepare}
13813 \newcommand{\@mpSevenColfootnotetext}[1]{%
13814   \if@RTL@footnote
13815     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13816   \else
13817     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13818   \fi
13819   \global\setbox
13820     \if@RTL@footnote
13821     \@mpfootinsv@r
13822   \else
13823     \@mpfootinsv@l
13824   \fi
13825   \vbox{%
13826     \unvbox
13827     \if@RTL@footnote
13828     \@mpfootinsv@r
13829   \else
13830     \@mpfootinsv@l
13831   \fi
13832   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13833   \def\baselinestretch{\m@m@footnote@spacing}%
13834   \reset@font\foottextfont
13835   \hsize\columnwidth \@parboxrestore
13836   \protected@edef\@currentlabel{%
13837     \csname p@mpfootnote\endcsname\@thefnmark}%
13838   \color@begingroup

```



```

13839 \sevendcolfootfmt{#1}%
13840 \color@endgroup}%
13841 \m@mmf@prepare}
13842 \bidi@ensure@newcommand{\@mpsevendcolLTRfootnotetext}[1]{%
13843 \global\setbox\@mpfootinsv@l\vbox{%
13844 \unvbox\@mpfootinsv@l
13845 \@RTLfalse
13846 \def\baselinestretch{\m@m@footnote@spacing}%
13847 \reset@font\LTRfoottextfont
13848 \hsize\columnwidth \@parboxrestore
13849 \protected@edef\@currentlabel{%
13850 \csname p@mpfootnote\endcsname\@thefnmark}%
13851 \color@begingroup
13852 \sevendcolLTRfootfmt{#1}%
13853 \color@endgroup}%
13854 \m@mmf@prepare}
13855 \newcommand{\@mpSevenColLTRfootnotetext}[1]{%
13856 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13857 \global\setbox\@mpfootinsv@l\vbox{%
13858 \unvbox\@mpfootinsv@l
13859 \@RTLfalse
13860 \def\baselinestretch{\m@m@footnote@spacing}%
13861 \reset@font\LTRfoottextfont
13862 \hsize\columnwidth \@parboxrestore
13863 \protected@edef\@currentlabel{%
13864 \csname p@mpfootnote\endcsname\@thefnmark}%
13865 \color@begingroup
13866 \sevendcolLTRfootfmt{#1}%
13867 \color@endgroup}%
13868 \m@mmf@prepare}
13869 \bidi@ensure@newcommand{\@mpsevendcolRTLfootnotetext}[1]{%
13870 \global\setbox\@mpfootinsv@r\vbox{%
13871 \unvbox\@mpfootinsv@r
13872 \@RTLtrue
13873 \def\baselinestretch{\m@m@footnote@spacing}%
13874 \reset@font\RTLfoottextfont
13875 \hsize\columnwidth \@parboxrestore
13876 \protected@edef\@currentlabel{%
13877 \csname p@mpfootnote\endcsname\@thefnmark}%
13878 \color@begingroup
13879 \sevendcolRTLfootfmt{#1}%
13880 \color@endgroup}%
13881 \m@mmf@prepare}
13882 \newcommand{\@mpSevenColRTLfootnotetext}[1]{%
13883 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13884 \global\setbox\@mpfootinsv@r\vbox{%
13885 \unvbox\@mpfootinsv@r
13886 \@RTLtrue
13887 \def\baselinestretch{\m@m@footnote@spacing}%
13888 \reset@font\RTLfoottextfont
13889 \hsize\columnwidth \@parboxrestore
13890 \protected@edef\@currentlabel{%
13891 \csname p@mpfootnote\endcsname\@thefnmark}%
13892 \color@begingroup

```



```

13893 \sevenscolRTLfootfmt{#1}%
13894 \color@endgroup}%
13895 \m@m@mmf@prepare}
13896 \bidi@ensure@newcommand{\m@make@sevenscol@footgroup}[1]{%
13897 \namedef{@sevenscol@footgroup#1}{%
13898 \def\baselinestretch{\m@m@footnote@spacing}%
13899 \hsize\bidi@columnwidth
13900 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13901 \m@m@rigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}%
13902 \newcommand{\bidi@make@sevenscol@LTRfootgroup}[1]{%
13903 \namedef{@sevenscol@LTRfootgroup#1}{%
13904 \def\baselinestretch{\m@m@footnote@spacing}%
13905 \hsize\bidi@columnwidth
13906 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13907 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}%
13908 \bidi@ensure@newcommand{\m@make@mpsevenscol@footgroup}[1]{%
13909 \namedef{@mpsevenscol@footgroup#1}{%
13910 \def\baselinestretch{\m@m@footnote@spacing}%
13911 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13912 \m@m@rigidbalance{\@nameuse{mpfootins#1}}{7}{\splittopskip}}}%
13913 \newcommand{\bidi@make@mpsevenscol@LTRfootgroup}[1]{%
13914 \namedef{@mpsevenscol@LTRfootgroup#1}{%
13915 \def\baselinestretch{\m@m@footnote@spacing}%
13916 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13917 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{7}{\splittopskip}}}%
13918 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
13919 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
13920 \namedef{foottextfontv@l}{\LTRfoottextfont}%
13921 \@bidi@before@Hy@hyperfootnotes
13922 \let\@footnotetext\@eightcolfootnotetext
13923 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
13924 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
13925 \dimen\footinsv@r=8\footinsdim
13926 \count\footinsv@r=125\relax
13927 \m@make@eightcol@footgroup{v@r}%
13928 \let\@footgroupv@r\@eightcol@footgroupv@r
13929 \dimen\footinsv@l=8\footinsdim
13930 \count\footinsv@l=125\relax
13931 \bidi@make@eightcol@LTRfootgroup{v@l}%
13932 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
13933 \let\@mpfootnotetext\@mpeightcolfootnotetext
13934 \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
13935 \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
13936 \@bidi@after@Hy@hyperfootnotes
13937 \m@make@mpeightcol@footgroup{v@r}%
13938 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
13939 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
13940 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
13941 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13942 }
13943 \newcommand{\EightColumnFootnotes}{%
13944 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
13945 \namedef{foottextfontv@l}{\LTRfoottextfont}%
13946 \@bidi@before@Hy@hyperfootnotes

```



```

13947 \let\@footnotetext\@EightColfootnotetext
13948 \let\@LTRfootnotetext\@EightColLTRfootnotetext
13949 \let\@RTLfootnotetext\@EightColRTLfootnotetext
13950 \dimen\footinsv@r=8\footinsdim
13951 \count\footinsv@r=125\relax
13952 \m@make@eightcol@footgroup{v@r}%
13953 \let\@footgroupv@r\@eightcol@footgroupv@r
13954 \dimen\footinsv@l=8\footinsdim
13955 \count\footinsv@l=125\relax
13956 \bidi@make@eightcol@LTRfootgroup{v@l}%
13957 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
13958 \let\@mpfootnotetext\@mpEightColfootnotetext
13959 \let\@mpLTRfootnotetext\@mpEightColLTRfootnotetext
13960 \let\@mpRTLfootnotetext\@mpEightColRTLfootnotetext
13961 \@bidi@after@Hy@hyperfootnotes
13962 \m@make@mp@eightcol@footgroup{v@r}%
13963 \let\mp@footgroupv@r\@mp@eightcol@footgroupv@r
13964 \bidi@make@mp@eightcol@LTRfootgroup{v@l}%
13965 \let\mp@LTRfootgroupv@l\@mp@eightcol@LTRfootgroupv@l
13966 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13967 }
13968 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert
13969   \if@RTL@footnote
13970     \footinsv@r
13971   \else
13972     \footinsv@l
13973   \fi
13974 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13975   \def\baselinestretch{\m@m@footnote@spacing}%
13976   \reset@font\foottextfont
13977   \@preamfntext
13978   \protected@edef\@currentlabel{%
13979     \csname p@footnote\endcsname\@thefnmark}%
13980   \color@begingroup
13981     \@eightcolfootfmt{#1}%
13982   \color@endgroup}%
13983   \m@mmf@prepare}
13984 \newcommand{\@EightColfootnotetext}[1]{%
13985   \bidi@step@absolute@footnote@count
13986   \if@RTL@footnote
13987     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13988   \else
13989     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13990   \fi
13991   \global\setbox
13992   \if@RTL@footnote
13993     \footinsv@r
13994   \else
13995     \footinsv@l
13996   \fi
13997   \vbox{%
13998     \unvbox
13999     \if@RTL@footnote
14000       \footinsv@r

```



```

14001 \else
14002   \footinsv@l
14003 \fi
14004 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14005 \def\baselinestretch{\m@m@footnote@spacing}%
14006 \reset@font\foottextfont
14007 \@preamfntext
14008 \protected@edef\@currentlabel{%
14009   \csname p@footnote\endcsname\@thefnmark}%
14010 \color@begingroup
14011   \@eightcolfootfmt{#1}%
14012 \color@endgroup}%
14013 \m@mmf@prepare
14014 \if@RTL@footnote
14015   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14016 \else
14017   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14018 \fi
14019 }
14020 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14021   \def\baselinestretch{\m@m@footnote@spacing}%
14022   \reset@font\LTRfoottextfont
14023   \@preamfntext
14024   \protected@edef\@currentlabel{%
14025     \csname p@footnote\endcsname\@thefnmark}%
14026   \color@begingroup
14027     \@eightcolLTRfootfmt{#1}%
14028   \color@endgroup}%
14029   \m@mmf@prepare}
14030 \newcommand{\@EightColLTRfootnotetext}[1]{%
14031   \bidi@step@absolutefootnote@count
14032   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14033   \global\setbox\footinsv@l\vbox{%
14034     \unvbox\footinsv@l
14035     \@RTLfalse
14036     \def\baselinestretch{\m@m@footnote@spacing}%
14037     \reset@font\LTRfoottextfont
14038     \@preamfntext
14039     \protected@edef\@currentlabel{%
14040       \csname p@footnote\endcsname\@thefnmark}%
14041     \color@begingroup
14042       \@eightcolLTRfootfmt{#1}%
14043     \color@endgroup}%
14044     \m@mmf@prepare
14045   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14046 }
14047 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14048   \def\baselinestretch{\m@m@footnote@spacing}%
14049   \reset@font\RTLfoottextfont
14050   \@preamfntext
14051   \protected@edef\@currentlabel{%
14052     \csname p@footnote\endcsname\@thefnmark}%
14053   \color@begingroup
14054     \@eightcolRTLfootfmt{#1}%

```



```

14055 \color@endgroup}%
14056 \m@mmf@prepare}
14057 \newcommand{\@EightColRTLfootnotetext}[1]{%
14058 \bidi@step@absolutefootnote@count
14059 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14060 \global\setbox\footinsv@r\vbox{%
14061 \unvbox\footinsv@r
14062 \@RTLtrue%
14063 \def\baselinestretch{\m@mm@footnote@spacing}%
14064 \reset@font\RTLfoottextfont
14065 \@preamfntext
14066 \protected@edef\@currentlabel{%
14067 \csname p@footnote\endcsname\@thefnmark}%
14068 \color@begingroup
14069 \@eightcolRTLfootfmt{#1}%
14070 \color@endgroup}%
14071 \m@mmf@prepare
14072 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14073 }
14074 \bidi@ensure@newcommand{\@preameightfmt}{%
14075 \hsize .125\hsize
14076 \parindent=\z@
14077 \tolerance=5000\relax
14078 \leavevmode}
14079 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
14080 \@preameightfmt
14081 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14082 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
14083 \@preameightfmt
14084 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14085 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
14086 \@preameightfmt
14087 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14088 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
14089 \global\setbox
14090 \if@RTL@footnote
14091 \@mpfootinsv@r
14092 \else
14093 \@mpfootinsv@l
14094 \fi
14095 \vbox{%
14096 \unvbox
14097 \if@RTL@footnote
14098 \@mpfootinsv@r
14099 \else
14100 \@mpfootinsv@l
14101 \fi
14102 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14103 \def\baselinestretch{\m@mm@footnote@spacing}%
14104 \reset@font\foottextfont
14105 \hsize\columnwidth \@parboxrestore
14106 \protected@edef\@currentlabel{%
14107 \csname p@mpfootnote\endcsname\@thefnmark}%
14108 \color@begingroup

```



```

14109 \eightcolfootfmt{#1}%
14110 \color@endgroup}%
14111 \m@mmf@prepare}
14112 \newcommand{\@mpEightColfootnotetext}[1]{%
14113 \if@RTL@footnote
14114 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14115 \else
14116 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14117 \fi
14118 \global\setbox
14119 \if@RTL@footnote
14120 \@mpfootinsv@r
14121 \else
14122 \@mpfootinsv@l
14123 \fi
14124 \vbox{%
14125 \unvbox
14126 \if@RTL@footnote
14127 \@mpfootinsv@r
14128 \else
14129 \@mpfootinsv@l
14130 \fi
14131 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14132 \def\baselinestretch{\m@m@footnote@spacing}%
14133 \reset@font\foottextfont
14134 \hsize\columnwidth \@parboxrestore
14135 \protected@edef\@currentlabel{%
14136 \csname p@mpfootnote\endcsname\@thefnmark}%
14137 \color@begingroup
14138 \eightcolfootfmt{#1}%
14139 \color@endgroup}%
14140 \m@mmf@prepare}
14141 \bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
14142 \global\setbox\@mpfootinsv@l\vbox{%
14143 \unvbox\@mpfootinsv@l
14144 \@RTLfalse
14145 \def\baselinestretch{\m@m@footnote@spacing}%
14146 \reset@font\LTRfoottextfont
14147 \hsize\columnwidth \@parboxrestore
14148 \protected@edef\@currentlabel{%
14149 \csname p@mpfootnote\endcsname\@thefnmark}%
14150 \color@begingroup
14151 \eightcolLTRfootfmt{#1}%
14152 \color@endgroup}%
14153 \m@mmf@prepare}
14154 \newcommand{\@mpEightColLTRfootnotetext}[1]{%
14155 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14156 \global\setbox\@mpfootinsv@l\vbox{%
14157 \unvbox\@mpfootinsv@l
14158 \@RTLfalse
14159 \def\baselinestretch{\m@m@footnote@spacing}%
14160 \reset@font\LTRfoottextfont
14161 \hsize\columnwidth \@parboxrestore
14162 \protected@edef\@currentlabel{%

```





```

14163      \csname p@mpfootnote\endcsname\@thefnmark}%
14164      \color@begingroup
14165      \@eightcolLTRfootfmt{#1}%
14166      \color@endgroup}%
14167      \m@mmf@prepare}
14168 \bidi@ensure@newcommand{\@mpeightcolRTLfootnotetext}[1]{%
14169   \global\setbox\@mpfootinsv@r\vbox{%
14170     \unvbox\@mpfootinsv@r
14171     \RTLtrue
14172     \def\baselinestretch{\m@m@footnote@spacing}%
14173     \reset@font\RTLfoottextfont
14174     \hsize\columnwidth \@parboxrestore
14175     \protected@edef\@currentlabel{%
14176       \csname p@mpfootnote\endcsname\@thefnmark}%
14177     \color@begingroup
14178     \@eightcolRTLfootfmt{#1}%
14179     \color@endgroup}%
14180     \m@mmf@prepare}
14181 \newcommand{\@mpEightColRTLfootnotetext}[1]{%
14182   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14183   \global\setbox\@mpfootinsv@r\vbox{%
14184     \unvbox\@mpfootinsv@r
14185     \RTLtrue
14186     \def\baselinestretch{\m@m@footnote@spacing}%
14187     \reset@font\RTLfoottextfont
14188     \hsize\columnwidth \@parboxrestore
14189     \protected@edef\@currentlabel{%
14190       \csname p@mpfootnote\endcsname\@thefnmark}%
14191     \color@begingroup
14192     \@eightcolRTLfootfmt{#1}%
14193     \color@endgroup}%
14194     \m@mmf@prepare}
14195 \bidi@ensure@newcommand{\@make@eightcol@footgroup}[1]{%
14196   \@namedef{@eightcol@footgroup#1}{%
14197     \def\baselinestretch{\m@m@footnote@spacing}%
14198     \hsize\bidi@columnwidth
14199     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14200     \m@mrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}%
14201 \newcommand{\bidi@make@eightcol@LTRfootgroup}[1]{%
14202   \@namedef{@eightcol@LTRfootgroup#1}{%
14203     \def\baselinestretch{\m@m@footnote@spacing}%
14204     \hsize\bidi@columnwidth
14205     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14206     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}%
14207 \bidi@ensure@newcommand{\@make@mpeightcol@footgroup}[1]{%
14208   \@namedef{@mpeightcol@footgroup#1}{%
14209     \def\baselinestretch{\m@m@footnote@spacing}%
14210     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14211     \m@mrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}%
14212 \newcommand{\bidi@make@mpeightcol@LTRfootgroup}[1]{%
14213   \@namedef{@mpeightcol@LTRfootgroup#1}{%
14214     \def\baselinestretch{\m@m@footnote@spacing}%
14215     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14216     \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}%

```



```

14217 \bidi@ensure@newcommand{\nincolumnfootnotes}{%
14218   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14219   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14220   \@bidi@before@Hy@hyperfootnotes
14221   \let\@footnotetext\@nincolfootnotetext
14222   \let\@LTRfootnotetext\@nincolLTRfootnotetext
14223   \let\@RTLfootnotetext\@nincolRTLfootnotetext
14224   \dimen\footinsv@r=9\footinsdim
14225   \count\footinsv@r=111\relax
14226   \m@make@nincol@footgroup{v@r}%
14227   \let\@footgroupv@r\@nincol@footgroupv@r
14228   \dimen\footinsv@l=9\footinsdim
14229   \count\footinsv@l=111\relax
14230   \bidi@make@nincol@LTRfootgroup{v@l}%
14231   \let\@LTRfootgroupv@l\@nincol@LTRfootgroupv@l
14232   \let\@mpfootnotetext\@mpnincolfootnotetext
14233   \let\@mpLTRfootnotetext\@mpnincolLTRfootnotetext
14234   \let\@mpRTLfootnotetext\@mpnincolRTLfootnotetext
14235   \@bidi@after@Hy@hyperfootnotes
14236   \m@make@mpnincol@footgroup{v@r}%
14237   \let\mp@footgroupv@r\@mpnincol@footgroupv@r
14238   \bidi@make@mpnincol@LTRfootgroup{v@l}%
14239   \let\mp@LTRfootgroupv@l\@mpnincol@LTRfootgroupv@l
14240   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14241 }
14242 \newcommand{\NineColumnFootnotes}{%
14243   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14244   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14245   \@bidi@before@Hy@hyperfootnotes
14246   \let\@footnotetext\@NineColfootnotetext
14247   \let\@LTRfootnotetext\@NineColLTRfootnotetext
14248   \let\@RTLfootnotetext\@NineColRTLfootnotetext
14249   \dimen\footinsv@r=9\footinsdim
14250   \count\footinsv@r=111\relax
14251   \m@make@nincol@footgroup{v@r}%
14252   \let\@footgroupv@r\@nincol@footgroupv@r
14253   \dimen\footinsv@l=9\footinsdim
14254   \count\footinsv@l=111\relax
14255   \bidi@make@nincol@LTRfootgroup{v@l}%
14256   \let\@LTRfootgroupv@l\@nincol@LTRfootgroupv@l
14257   \let\@mpfootnotetext\@mpNineColfootnotetext
14258   \let\@mpLTRfootnotetext\@mpNineColLTRfootnotetext
14259   \let\@mpRTLfootnotetext\@mpNineColRTLfootnotetext
14260   \@bidi@after@Hy@hyperfootnotes
14261   \m@make@mpnincol@footgroup{v@r}%
14262   \let\mp@footgroupv@r\@mpnincol@footgroupv@r
14263   \bidi@make@mpnincol@LTRfootgroup{v@l}%
14264   \let\mp@LTRfootgroupv@l\@mpnincol@LTRfootgroupv@l
14265   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14266 }
14267 \bidi@ensure@newcommand{\@nincolfootnotetext}[1]{\insert
14268   \if@RTL@footnote
14269     \footinsv@r
14270   \else

```



```

14271 \footinsv@l
14272 \fi
14273 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14274 \def\baselinestretch{\m@m@footnote@spacing}%
14275 \reset@font\foottextfont
14276 \@preamfntext
14277 \protected@edef\@currentlabel{%
14278 \csname p@footnote\endcsname\@thefnmark}%
14279 \color@begingroup
14280 \@ninecolfootfmt{#1}%
14281 \color@endgroup}%
14282 \m@mmf@prepare}
14283 \newcommand{\@NineColfootnotetext}[1]{%
14284 \bidi@step@absolute@footnote@count
14285 \if@RTL@footnote
14286 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14287 \else
14288 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14289 \fi
14290 \global\setbox
14291 \if@RTL@footnote
14292 \footinsv@r
14293 \else
14294 \footinsv@l
14295 \fi
14296 \vbox{%
14297 \unvbox
14298 \if@RTL@footnote
14299 \footinsv@r
14300 \else
14301 \footinsv@l
14302 \fi
14303 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14304 \def\baselinestretch{\m@m@footnote@spacing}%
14305 \reset@font\foottextfont
14306 \@preamfntext
14307 \protected@edef\@currentlabel{%
14308 \csname p@footnote\endcsname\@thefnmark}%
14309 \color@begingroup
14310 \@ninecolfootfmt{#1}%
14311 \color@endgroup}%
14312 \m@mmf@prepare
14313 \if@RTL@footnote
14314 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14315 \else
14316 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14317 \fi
14318 }
14319 \bidi@ensure@newcommand{\@ninecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14320 \def\baselinestretch{\m@m@footnote@spacing}%
14321 \reset@font\LTRfoottextfont
14322 \@preamfntext
14323 \protected@edef\@currentlabel{%
14324 \csname p@footnote\endcsname\@thefnmark}%

```



```

14325 \color@begingroup
14326 \@ninecolLTRfootfmt{#1}%
14327 \color@endgroup}%
14328 \m@mmf@prepare}
14329 \newcommand{\@NineColLTRfootnotetext}[1]{%
14330 \bidi@step@absolutefootnote@count
14331 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14332 \global\setbox\footinsv@l\vbox{%
14333 \unvbox\footinsv@l
14334 \@RTLfalse
14335 \def\baselinestretch{\m@m@footnote@spacing}%
14336 \reset@font\LTRfoottextfont
14337 \@preamfntext
14338 \protected@edef\@currentlabel{%
14339 \csname p@footnote\endcsname\@thefnmark}%
14340 \color@begingroup
14341 \@ninecolLTRfootfmt{#1}%
14342 \color@endgroup}%
14343 \m@mmf@prepare
14344 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14345 }
14346 \bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14347 \def\baselinestretch{\m@m@footnote@spacing}%
14348 \reset@font\RTLfoottextfont
14349 \@preamfntext
14350 \protected@edef\@currentlabel{%
14351 \csname p@footnote\endcsname\@thefnmark}%
14352 \color@begingroup
14353 \@ninecolRTLfootfmt{#1}%
14354 \color@endgroup}%
14355 \m@mmf@prepare}
14356 \newcommand{\@NineColRTLfootnotetext}[1]{%
14357 \bidi@step@absolutefootnote@count
14358 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14359 \global\setbox\footinsv@r\vbox{%
14360 \unvbox\footinsv@r
14361 \@RTLtrue
14362 \def\baselinestretch{\m@m@footnote@spacing}%
14363 \reset@font\RTLfoottextfont
14364 \@preamfntext
14365 \protected@edef\@currentlabel{%
14366 \csname p@footnote\endcsname\@thefnmark}%
14367 \color@begingroup
14368 \@ninecolRTLfootfmt{#1}%
14369 \color@endgroup}%
14370 \m@mmf@prepare
14371 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14372 }
14373 \bidi@ensure@newcommand{\@preamninefmt}{%
14374 \hsize .1\hsize
14375 \parindent=\z@
14376 \tolerance=5000\relax
14377 \leavevmode}
14378 \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%

```



```

14379 \@preamninefmt
14380 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14381 \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
14382 \@preamninefmt
14383 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14384 \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
14385 \@preamninefmt
14386 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14387 \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
14388 \global\setbox
14389 \ifRTL@footnote
14390 \@mpfootinsv@r
14391 \else
14392 \@mpfootinsv@l
14393 \fi
14394 \vbox{%
14395 \unvbox
14396 \ifRTL@footnote
14397 \@mpfootinsv@r
14398 \else
14399 \@mpfootinsv@l
14400 \fi
14401 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
14402 \def\baselinestretch{\m@m@footnote@spacing}%
14403 \reset@font\foottextfont
14404 \hsize\columnwidth \@parboxrestore
14405 \protected@edef\@currentlabel{%
14406 \csname p@mpfootnote\endcsname\@thefnmark}%
14407 \color@begingroup
14408 \@ninecolfootfmt{#1}%
14409 \color@endgroup}%
14410 \m@m@f@prepare}
14411 \newcommand{\@mpNineColfootnotetext}[1]{%
14412 \ifRTL@footnote
14413 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14414 \else
14415 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14416 \fi
14417 \global\setbox
14418 \ifRTL@footnote
14419 \@mpfootinsv@r
14420 \else
14421 \@mpfootinsv@l
14422 \fi
14423 \vbox{%
14424 \unvbox
14425 \ifRTL@footnote
14426 \@mpfootinsv@r
14427 \else
14428 \@mpfootinsv@l
14429 \fi
14430 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
14431 \def\baselinestretch{\m@m@footnote@spacing}%
14432 \reset@font\foottextfont

```



```

14433 \hsize\columnwidth \@parboxrestore
14434 \protected@edef\@currentlabel{%
14435 \csname p@mpfootnote\endcsname\@thefnmark}%
14436 \color@begingroup
14437 \@ninecolfootfmt{#1}%
14438 \color@endgroup}%
14439 \m@mmf@prepare}
14440 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
14441 \global\setbox\@mpfootinsv@l\vbox{%
14442 \unvbox\@mpfootinsv@l
14443 \@RTLfalse
14444 \def\baselinestretch{\m@m@footnote@spacing}%
14445 \reset@font\LTRfoottextfont
14446 \hsize\columnwidth \@parboxrestore
14447 \protected@edef\@currentlabel{%
14448 \csname p@mpfootnote\endcsname\@thefnmark}%
14449 \color@begingroup
14450 \@ninecolLTRfootfmt{#1}%
14451 \color@endgroup}%
14452 \m@mmf@prepare}
14453 \newcommand{\@mpNineColLTRfootnotetext}[1]{%
14454 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14455 \global\setbox\@mpfootinsv@l\vbox{%
14456 \unvbox\@mpfootinsv@l
14457 \@RTLfalse
14458 \def\baselinestretch{\m@m@footnote@spacing}%
14459 \reset@font\LTRfoottextfont
14460 \hsize\columnwidth \@parboxrestore
14461 \protected@edef\@currentlabel{%
14462 \csname p@mpfootnote\endcsname\@thefnmark}%
14463 \color@begingroup
14464 \@ninecolLTRfootfmt{#1}%
14465 \color@endgroup}%
14466 \m@mmf@prepare}
14467 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
14468 \global\setbox\@mpfootinsv@r\vbox{%
14469 \unvbox\@mpfootinsv@r
14470 \@RTLtrue
14471 \def\baselinestretch{\m@m@footnote@spacing}%
14472 \reset@font\RTLfoottextfont
14473 \hsize\columnwidth \@parboxrestore
14474 \protected@edef\@currentlabel{%
14475 \csname p@mpfootnote\endcsname\@thefnmark}%
14476 \color@begingroup
14477 \@ninecolRTLfootfmt{#1}%
14478 \color@endgroup}%
14479 \m@mmf@prepare}
14480 \newcommand{\@mpNineColRTLfootnotetext}[1]{%
14481 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14482 \global\setbox\@mpfootinsv@r\vbox{%
14483 \unvbox\@mpfootinsv@r
14484 \@RTLtrue
14485 \def\baselinestretch{\m@m@footnote@spacing}%
14486 \reset@font\RTLfoottextfont

```



```

14487 \hsize\columnwidth \@parboxrestore
14488 \protected@edef\@currentlabel{%
14489 \csname p@mpfootnote\endcsname\@thefnmark}%
14490 \color@begingroup
14491 \@ninecolRTLfootfmt{#1}%
14492 \color@endgroup}%
14493 \m@mmf@prepare}
14494 \bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
14495 \@namedef{@ninecol@footgroup#1}{%
14496 \def\baselinestretch{\m@m@footnote@spacing}%
14497 \hsize\bidi@columnwidth
14498 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14499 \m@mrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}%
14500 \newcommand{\bidi@make@ninecol@LTRfootgroup}[1]{%
14501 \@namedef{@ninecol@LTRfootgroup#1}{%
14502 \def\baselinestretch{\m@m@footnote@spacing}%
14503 \hsize\bidi@columnwidth
14504 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14505 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}%
14506 \bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
14507 \@namedef{@mpninecol@footgroup#1}{%
14508 \def\baselinestretch{\m@m@footnote@spacing}%
14509 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14510 \m@mrigidbalance{\@nameuse{mpfootins#1}}{9}{\splittopskip}}}%
14511 \newcommand{\bidi@make@mpninecol@LTRfootgroup}[1]{%
14512 \@namedef{@mpninecol@LTRfootgroup#1}{%
14513 \def\baselinestretch{\m@m@footnote@spacing}%
14514 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14515 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{9}{\splittopskip}}}%
14516 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
14517 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14518 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14519 \@bidi@before@Hy@hyperfootnotes
14520 \let\@footnotetext\@tencolfootnotetext
14521 \let\@LTRfootnotetext\@tencolLTRfootnotetext
14522 \let\@RTLfootnotetext\@tencolRTLfootnotetext
14523 \dimen\footinsv@r=10\footinsdim
14524 \count\footinsv@r=100\relax
14525 \m@make@tencol@footgroup{v@r}%
14526 \let\@footgroupv@r\@tencol@footgroupv@r
14527 \dimen\footinsv@l=10\footinsdim
14528 \count\footinsv@l=100\relax
14529 \bidi@make@tencol@LTRfootgroup{v@l}%
14530 \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
14531 \let\@mpfootnotetext\@mptencolfootnotetext
14532 \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
14533 \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
14534 \@bidi@after@Hy@hyperfootnotes
14535 \m@make@mptencol@footgroup{v@r}%
14536 \let\mp@footgroupv@r\@mptencol@footgroupv@r
14537 \bidi@make@mptencol@LTRfootgroup{v@l}%
14538 \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
14539 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14540 }

```



```

14541 \newcommand{\TenColumnFootnotes}{%
14542   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14543   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14544   \@bidi@before@Hy@hyperfootnotes
14545   \let\@footnotetext\@TenColfootnotetext
14546   \let\@LTRfootnotetext\@TenColLTRfootnotetext
14547   \let\@RTLfootnotetext\@TenColRTLfootnotetext
14548   \dimen\footinsv@r=10\footinsdim
14549   \count\footinsv@r=100\relax
14550   \m@make@tencol@footgroup{v@r}%
14551   \let\@footgroupv@r\@tencol@footgroupv@r
14552   \dimen\footinsv@l=10\footinsdim
14553   \count\footinsv@l=100\relax
14554   \bidi@make@tencol@LTRfootgroup{v@l}%
14555   \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
14556   \let\@mpfootnotetext\@mpTenColfootnotetext
14557   \let\@mpLTRfootnotetext\@mpTenColLTRfootnotetext
14558   \let\@mpRTLfootnotetext\@mpTenColRTLfootnotetext
14559   \@bidi@after@Hy@hyperfootnotes
14560   \m@make@mp@tencol@footgroup{v@r}%
14561   \let\mp@footgroupv@r\@mp@tencol@footgroupv@r
14562   \bidi@make@mp@tencol@LTRfootgroup{v@l}%
14563   \let\mp@LTRfootgroupv@l\@mp@tencol@LTRfootgroupv@l
14564   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14565 }
14566 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert
14567   \if@RTL@footnote
14568     \footinsv@r
14569   \else
14570     \footinsv@l
14571   \fi
14572 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14573   \def\baselinestretch{\m@m@footnote@spacing}%
14574   \reset@font\foottextfont
14575   \@preamfntext
14576   \protected@edef\@currentlabel{%
14577     \csname p@footnote\endcsname\@thefnmark}%
14578   \color@begingroup
14579     \@tencolfootfmt{#1}%
14580   \color@endgroup}%
14581   \m@m@mmf@prepare}
14582 \newcommand{\@TenColfootnotetext}[1]{%
14583   \bidi@step@absolute@footnote@count
14584   \if@RTL@footnote
14585     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14586   \else
14587     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14588   \fi
14589   \global\setbox
14590   \if@RTL@footnote
14591     \footinsv@r
14592   \else
14593     \footinsv@l
14594   \fi

```





```

14595 \vbox{%
14596   \unvbox
14597   \if@RTL@footnote
14598     \footinsv@r
14599   \else
14600     \footinsv@l
14601   \fi
14602   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14603   \def\baselinestretch{\m@m@footnote@spacing}%
14604   \reset@font\foottextfont
14605   \@preamfntext
14606   \protected@edef\@currentlabel{%
14607     \csname p@footnote\endcsname\@thefnmark}%
14608   \color@begingroup
14609     \@tencolfootfmt{#1}%
14610   \color@endgroup}%
14611   \m@m@mmf@prepare
14612   \if@RTL@footnote
14613     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14614   \else
14615     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14616   \fi
14617 }
14618 \bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14619   \def\baselinestretch{\m@m@footnote@spacing}%
14620   \reset@font\LTRfoottextfont
14621   \@preamfntext
14622   \protected@edef\@currentlabel{%
14623     \csname p@footnote\endcsname\@thefnmark}%
14624   \color@begingroup
14625     \@tencolLTRfootfmt{#1}%
14626   \color@endgroup}%
14627   \m@m@mmf@prepare}
14628 \newcommand{\@TenColLTRfootnotetext}[1]{%
14629   \bidi@step@absolutefootnote@count
14630   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14631   \global\setbox\footinsv@l\vbox{%
14632     \unvbox\footinsv@l
14633     \@RTLfalse%
14634     \def\baselinestretch{\m@m@footnote@spacing}%
14635     \reset@font\LTRfoottextfont
14636     \@preamfntext
14637     \protected@edef\@currentlabel{%
14638       \csname p@footnote\endcsname\@thefnmark}%
14639     \color@begingroup
14640       \@tencolLTRfootfmt{#1}%
14641     \color@endgroup}%
14642     \m@m@mmf@prepare
14643     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14644 }
14645 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14646   \def\baselinestretch{\m@m@footnote@spacing}%
14647   \reset@font\RTLfoottextfont
14648   \@preamfntext

```



```

14649 \protected@edef\@currentlabel{%
14650 \csname p@footnote\endcsname\@thefnmark}%
14651 \color@begingroup
14652 \@tencolRTLfootfmt{#1}%
14653 \color@endgroup}%
14654 \m@mmf@prepare}
14655 \newcommand{\@TenColRTLfootnotetext}[1]{%
14656 \bidi@step@absolute@footnote@count
14657 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14658 \global\setbox\footinsv@r\vbox{%
14659 \unvbox\footinsv@r
14660 \RTLtrue
14661 \def\baselinestretch{\m@m@footnote@spacing}%
14662 \reset@font\RTLfoottextfont
14663 \@preamtenfntext
14664 \protected@edef\@currentlabel{%
14665 \csname p@footnote\endcsname\@thefnmark}%
14666 \color@begingroup
14667 \@tencolRTLfootfmt{#1}%
14668 \color@endgroup}%
14669 \m@mmf@prepare
14670 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14671 }
14672 \bidi@ensure@newcommand{\@preamtenfnt}{%
14673 \hsize .1\hsize
14674 \parindent=\z@
14675 \tolerance=5000\relax
14676 \leavevmode}
14677 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
14678 \@preamtenfnt
14679 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14680 \bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
14681 \@preamtenfnt
14682 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14683 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
14684 \@preamtenfnt
14685 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14686 \bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
14687 \global\setbox
14688 \if@RTL@footnote
14689 \@mpfootinsv@r
14690 \else
14691 \@mpfootinsv@l
14692 \fi
14693 \vbox{%
14694 \unvbox
14695 \if@RTL@footnote
14696 \@mpfootinsv@r
14697 \else
14698 \@mpfootinsv@l
14699 \fi
14700 \if@RTL@footnote\RTLtrue\else\RTLfalse\fi
14701 \def\baselinestretch{\m@m@footnote@spacing}%
14702 \reset@font\foottextfont

```



```

14703 \hsize\columnwidth \@parboxrestore
14704 \protected@edef\@currentlabel{%
14705 \csname p@mpfootnote\endcsname\@thefnmark}%
14706 \color@begingroup
14707 \@tencolfootfmt{#1}%
14708 \color@endgroup}%
14709 \m@mmf@prepare}
14710 \newcommand{\@mpTenColfootnotetext}[1]{%
14711 \if@RTL@footnote
14712 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14713 \else
14714 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14715 \fi
14716 \global\setbox
14717 \if@RTL@footnote
14718 \@mpfootinsv@r
14719 \else
14720 \@mpfootinsv@l
14721 \fi
14722 \vbox{%
14723 \unvbox
14724 \if@RTL@footnote
14725 \@mpfootinsv@r
14726 \else
14727 \@mpfootinsv@l
14728 \fi
14729 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14730 \def\baselinestretch{\m@m@footnote@spacing}%
14731 \reset@font\foottextfont
14732 \hsize\columnwidth \@parboxrestore
14733 \protected@edef\@currentlabel{%
14734 \csname p@mpfootnote\endcsname\@thefnmark}%
14735 \color@begingroup
14736 \@tencolfootfmt{#1}%
14737 \color@endgroup}%
14738 \m@mmf@prepare}
14739 \bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
14740 \global\setbox\@mpfootinsv@l\vbox{%
14741 \unvbox\@mpfootinsv@l
14742 \@RTLfalse
14743 \def\baselinestretch{\m@m@footnote@spacing}%
14744 \reset@font\LTRfoottextfont
14745 \hsize\columnwidth \@parboxrestore
14746 \protected@edef\@currentlabel{%
14747 \csname p@mpfootnote\endcsname\@thefnmark}%
14748 \color@begingroup
14749 \@tencolLTRfootfmt{#1}%
14750 \color@endgroup}%
14751 \m@mmf@prepare}
14752 \newcommand{\@mpTenColLTRfootnotetext}[1]{%
14753 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14754 \global\setbox\@mpfootinsv@l\vbox{%
14755 \unvbox\@mpfootinsv@l
14756 \@RTLfalse

```



```

14757 \def\baselinestretch{\m@m@footnote@spacing}%
14758 \reset@font\LTRfoottextfont
14759 \hsize\columnwidth \@parboxrestore
14760 \protected@edef\@currentlabel{%
14761 \csname p@mpfootnote\endcsname\@thefnmark}%
14762 \color@begingroup
14763 \@tencolLTRfootfmt{#1}%
14764 \color@endgroup}%
14765 \m@mmf@prepare}
14766 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
14767 \global\setbox\@mpfootinsv@r\vbox{%
14768 \unvbox\@mpfootinsv@r
14769 \@RTLtrue
14770 \def\baselinestretch{\m@m@footnote@spacing}%
14771 \reset@font\RTLfoottextfont
14772 \hsize\columnwidth \@parboxrestore
14773 \protected@edef\@currentlabel{%
14774 \csname p@mpfootnote\endcsname\@thefnmark}%
14775 \color@begingroup
14776 \@tencolRTLfootfmt{#1}%
14777 \color@endgroup}%
14778 \m@mmf@prepare}
14779 \newcommand{\@mpTenColRTLfootnotetext}[1]{%
14780 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14781 \global\setbox\@mpfootinsv@r\vbox{%
14782 \unvbox\@mpfootinsv@r
14783 \@RTLtrue
14784 \def\baselinestretch{\m@m@footnote@spacing}%
14785 \reset@font\RTLfoottextfont
14786 \hsize\columnwidth \@parboxrestore
14787 \protected@edef\@currentlabel{%
14788 \csname p@mpfootnote\endcsname\@thefnmark}%
14789 \color@begingroup
14790 \@tencolRTLfootfmt{#1}%
14791 \color@endgroup}%
14792 \m@mmf@prepare}
14793 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
14794 \@namedef{@tencol@footgroup#1}{%
14795 \def\baselinestretch{\m@m@footnote@spacing}%
14796 \hsize\bidi@columnwidth
14797 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14798 \m@mrighdbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}%
14799 \newcommand{\bidi@make@tencol@LTRfootgroup}[1]{%
14800 \@namedef{@tencol@LTRfootgroup#1}{%
14801 \def\baselinestretch{\m@m@footnote@spacing}%
14802 \hsize\bidi@columnwidth
14803 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14804 \bidi@LTRrighdbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}%
14805 \bidi@ensure@newcommand{\m@make@emptencol@footgroup}[1]{%
14806 \@namedef{@emptencol@footgroup#1}{%
14807 \def\baselinestretch{\m@m@footnote@spacing}%
14808 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14809 \m@mrighdbalance{\@nameuse{\@mpfootins#1}}{10}{\splittopskip}}}%
14810 \newcommand{\bidi@make@emptencol@LTRfootgroup}[1]{%

```



```

14811 \@namedef{@mptencol@LTRfootgroup#1}{%
14812   \def\baselinestretch{\m@m@footnote@spacing}%
14813   \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14814   \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{10}{\splittopskip}}
14815 \bidi@ensure@newcommand{\m@munvxh}[1]{%
14816   \setbox0=\vbox{\unvbox#1%
14817     \global\setbox1=\lastbox}%
14818   \unhbox1
14819   \unskip
14820   \unskip
14821   \unpenalty
14822   \hskip\m@mipn@skip}
14823 \bidi@ensure@newcommand{\m@mungebox}{%
14824   \setbox0=\hbox{\m@munvxh0}%
14825   \dp0=\z@
14826   \ht0=\footfudgefactor\wd0
14827   \box0
14828   \penalty0}
14829 \newskip\m@mipn@skip
14830 \bidi@ensure@newcommand*{\m@minterparanoteglue}[1]{%
14831   {\foottextfont\global\m@mipn@skip=#1\relax}}
14832 \m@minterparanoteglue{1em plus.3em minus.3em}
14833 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
14834   \setbox0=\hbox{}%
14835   \loop
14836     \unpenalty
14837     \setbox2=\lastbox
14838     \ifhbox2
14839       \setbox0=\hbox{\box2\unhbox0}
14840     \repeat}
14841 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
14842   \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
14843 \newcommand*{\AddExtraParaSkip}[1]{%
14844   \def\bidi@xparaskip{\advance\@tempdima#1\relax}%
14845 }
14846 \let\bidi@xparaskip\relax
14847 \@onlypreamble\AddExtraParaSkip
14848 \@onlypreamble\bidi@xparaskip
14849 \def\bidi@startparafootskip#1{%
14850   \global\advance\skip#1\bidi@paraskip
14851 }
14852 \@onlypreamble\bidi@startparafootskip
14853 \bidi@ensure@newcommand{\paragraphfootnotes}{%
14854   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14855   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14856   \@bidi@before@Hy@hyperfootnotes
14857   \let\@footnotetext\@parafootnotetext
14858   \let\@LTRfootnotetext\@paraLTRfootnotetext
14859   \let\@RTLfootnotetext\@paraRTLfootnotetext
14860   \dimen\footinsv@r=\footinsdim
14861   \count\footinsv@r=1000\relax
14862   \let\bidi@removexfootskip\bidi@removexparafootskip
14863   \m@make@para@footgroup{v@r}%
14864   \m@make@para@footstart{v@r}%

```



```

14865 \let\@footgroupv@r\@para@footgroupv@r
14866 \let\@footstartv@r\@para@footstartv@r
14867 \dimen\footinsv@l=\footinsdim
14868 \count\footinsv@l=1000\relax
14869 \bidi@make@para@LTRfootgroup{v@l}%
14870 \m@make@para@footstart{v@l}%
14871 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
14872 \let\@footstartv@l\@para@footstartv@l
14873 \let\@mpfootnotetext\@mpparafootnotetext
14874 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
14875 \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
14876 \@bidi@after@Hy@hyperfootnotes
14877 \m@make@mppara@footgroup{v@r}%
14878 \bidi@make@mppara@LTRfootgroup{v@l}%
14879 \let\mp@footgroupv@r\@mppara@footgroupv@r
14880 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
14881 \g@addto@macro\bidi@floathook{%
14882   \begingroup
14883     \foottextfont \@tempdima\normalbaselineskip
14884     \multiply \@tempdima \@cclvi
14885     \@tempdimb \columnwidth
14886     \divide \@tempdimb \@cclvi
14887     \divide \@tempdima \@tempdimb
14888     \xdef\footfudgefactor{\strip@pt\@tempdima}%
14889   \endgroup
14890 }
14891 \AtBeginDocument{%
14892   \begingroup
14893     \foottextfont
14894     \@tempdima\footnotesep
14895     \advance\@tempdima -\ht\strutbox
14896     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
14897     \advance\@tempdima.5\normalbaselineskip
14898     \bidi@xparaskip
14899     \xdef\bidi@paraskip{\the\@tempdima\relax}%
14900   \endgroup
14901   \bidi@startparafootskip\footinsv@r
14902   \bidi@startparafootskip\footinsv@l
14903 }
14904 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14905 }
14906 \newcommand{\ParagraphFootnotes}{%
14907   \@namedef{foottextfontv@r}{\foottextfont}%
14908   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14909   \@bidi@before@Hy@hyperfootnotes
14910   \let\@footnotetext\@Parafootnotetext
14911   \let\@LTRfootnotetext\@ParaLTRfootnotetext
14912   \let\@RTLfootnotetext\@ParaRTLfootnotetext
14913   \dimen\footinsv@r=\footinsdim
14914   \count\footinsv@r=1000\relax
14915   \let\bidi@removexfootskip\bidi@removexparafootskip
14916   \m@make@para@footgroup{v@r}%
14917   \m@make@para@footstart{v@r}%
14918   \let\@footgroupv@r\@para@footgroupv@r

```



```

14919 \let\@footstartv@r\@para@footstartv@r
14920 \dimen\footinsv@l=\footinsdim
14921 \count\footinsv@l=1000\relax
14922 \bidi@make@para@LTRfootgroup{v@l}%
14923 \m@make@para@footstart{v@l}%
14924 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
14925 \let\@footstartv@l\@para@footstartv@l
14926 \let\@mpfootnotetext\@mpParafootnotetext
14927 \let\@mpLTRfootnotetext\@mpParaLTRfootnotetext
14928 \let\@mpRTLfootnotetext\@mpParaRTLfootnotetext
14929 \@bidi@after@Hy@hyperfootnotes
14930 \m@make@mppara@footgroup{v@r}%
14931 \bidi@make@mppara@LTRfootgroup{v@l}%
14932 \let\mp@footgroupv@r\@mppara@footgroupv@r
14933 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
14934 \g@addto@macro\bidi@floathook{%
14935   \begingroup
14936     \foottextfont \@tempdima\normalbaselineskip
14937     \multiply \@tempdima \@cclvi
14938     \@tempdimb \columnwidth
14939     \divide \@tempdimb \@cclvi
14940     \divide \@tempdima \@tempdimb
14941     \xdef\footfudgefactor{\strip@pt\@tempdima}%
14942   \endgroup
14943 }
14944 \AtBeginDocument{%
14945   \begingroup
14946     \foottextfont
14947     \@tempdima\footnotesep
14948     \advance\@tempdima -\ht\strutbox
14949     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
14950     \advance\@tempdima.5\normalbaselineskip
14951     \bidi@xparaskip
14952     \xdef\bidi@paraskip{\the\@tempdima\relax}%
14953   \endgroup
14954   \bidi@startparafootskip\footinsv@r
14955   \bidi@startparafootskip\footinsv@l
14956 }
14957 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14958 }
14959 \newcommand{\normalRTLparaLTRfootnotes}{%
14960   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14961   \@bidi@before@Hy@hyperfootnotes
14962   \ifRTL@footnote
14963     \let\@footnotetext\m@mold@footnotetext
14964   \else
14965     \let\@footnotetext\@parafootnotetext
14966   \fi
14967   \let\@LTRfootnotetext\@paraLTRfootnotetext
14968   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
14969   \dimen\footinsv@l=\footinsdim
14970   \count\footinsv@l=1000\relax
14971   \let\bidi@removexfootskip\bidi@removexparafootskip
14972   \bidi@make@para@LTRfootgroup{v@l}%

```



```

14973 \m@make@para@footstart{v@1}%
14974 \let\@LTRfootgroupv@1\@para@LTRfootgroupv@1
14975 \let\@footstartv@1\@para@footstartv@1
14976 \if@RTL@footnote
14977   \let\@mpfootnotetext\m@mold@mpfootnotetext
14978 \else
14979   \let\@mpfootnotetext\@mpparafootnotetext
14980 \fi
14981 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
14982 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
14983 \@bidi@after@Hy@hyperfootnotes
14984 \bidi@make@mppara@LTRfootgroup{v@1}%
14985 \let\mp@LTRfootgroupv@1\@mppara@LTRfootgroupv@1
14986 \g@addto@macro\bidi@floathook{%
14987   \begingroup
14988     \LTRfoottextfont \@tempdima\normalbaselineskip
14989     \multiply \@tempdima \@cclvi
14990     \@tempdimb \columnwidth
14991     \divide \@tempdimb \@cclvi
14992     \divide \@tempdima \@tempdimb
14993     \xdef\footfudgefactor{\strip@pt\@tempdima}%
14994   \endgroup
14995 }
14996 \AtBeginDocument{%
14997   \begingroup
14998     \LTRfoottextfont
14999     \@tempdima\footnotesep
15000     \advance\@tempdima -\ht\strutbox
15001     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
15002     \advance\@tempdima.5\normalbaselineskip
15003     \bidi@xparaskip
15004     \xdef\bidi@paraskip{\the\@tempdima\relax}%
15005   \endgroup
15006   \bidi@startparafootskip\footinsv@1
15007 }
15008 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
15009 }
15010 \newcommand{\NormalRTLParaLTRFootnotes}{%
15011   \@namedef{foottextfontv@1}{\LTRfoottextfont}%
15012   \@bidi@before@Hy@hyperfootnotes
15013   \if@RTL@footnote
15014     \let\@footnotetext\bidi@bidiold@footnotetext
15015   \else
15016     \let\@footnotetext\@Parafootnotetext
15017   \fi
15018   \let\@LTRfootnotetext\@ParaLTRfootnotetext
15019   \let\@RTLfootnotetext\bidi@bidiold@RTLfootnotetext
15020   \dimen\footinsv@1=\footinsdim
15021   \count\footinsv@1=1000\relax
15022   \let\bidi@removexfootskip\bidi@removexparafootskip
15023   \bidi@make@para@LTRfootgroup{v@1}%
15024   \m@make@para@footstart{v@1}%
15025   \let\@LTRfootgroupv@1\@para@LTRfootgroupv@1
15026   \let\@footstartv@1\@para@footstartv@1

```





```

15027 \if@RTL@footnote
15028   \let\@mpfootnotetext\@bidi@bidiold@mpfootnotetext
15029 \else
15030   \let\@mpfootnotetext\@mpParafootnotetext
15031 \fi
15032 \let\@mpLTRfootnotetext\@mpParaLTRfootnotetext
15033 \let\@mpRTLfootnotetext\@bidi@bidiold@mpRTLfootnotetext
15034 \@bidi@after@Hy@hyperfootnotes
15035 \bidi@make@mppara@LTRfootgroup{v@1}%
15036 \let\mp@LTRfootgroupv@1\@mppara@LTRfootgroupv@1
15037 \g@addto@macro\@bidi@floathook{%
15038   \begingroup
15039     \LTRfoottextfont \@tempdima\normalbaselineskip
15040     \multiply \@tempdima \@cclvi
15041     \@tempdimb \columnwidth
15042     \divide \@tempdimb \@cclvi
15043     \divide \@tempdima \@tempdimb
15044     \xdef\footfudgefactor{\strip@pt\@tempdima}%
15045   \endgroup
15046 }
15047 \AtBeginDocument{%
15048   \begingroup
15049     \LTRfoottextfont
15050     \@tempdima\footnotesep
15051     \advance\@tempdima -\ht\strutbox
15052     \ifdim\@tempdima<z@ \@tempdima\z@ \fi
15053     \advance\@tempdima.5\normalbaselineskip
15054     \bidi@xparaskip
15055     \xdef\@bidi@paraskip{\the\@tempdima\relax}%
15056   \endgroup
15057   \bidi@startparafootskip\footinsv@1
15058 }
15059 \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
15060 }
15061 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert
15062   \if@RTL@footnote
15063     \footinsv@r
15064   \else
15065     \footinsv@l
15066   \fi
15067   {%
15068     \let\@bidi@RTL@everypar\@empty%
15069     \def\baselinestretch{\m@mm@footnote@spacing}%
15070     \reset@font\foottextfont
15071     \@preamfntext
15072     \protected@edef\@currentlabel{%
15073       \csname p@footnote\endcsname\@thefnmark}%
15074     \setbox0=\vbox{\hsize=\maxdimen
15075       \color@begingroup
15076         \noindent \@parafootfmt{#1}%
15077       \color@endgroup}%
15078     \m@mungebox\m@mmf@prepare}
15079 \newcommand{\@Parafootnotetext}[1]{%
15080   \bidi@step@absolutefootnote@count

```



```

15081 \if@RTL@footnote
15082   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15083 \else
15084   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
15085 \fi
15086 \global\setbox
15087 \if@RTL@footnote
15088   \footinsv@r
15089 \else
15090   \footinsv@l
15091 \fi
15092 \vbox{%
15093 \unvbox
15094 \if@RTL@footnote
15095   \footinsv@r
15096 \else
15097   \footinsv@l
15098 \fi
15099 \let\bidi@RTL@everypar\@empty%
15100 \def\baselinestretch{\m@m@footnote@spacing}%
15101 \reset@font\foottextfont
15102 \@preamfntext
15103 \protected@edef\@currentlabel{%
15104   \csname p@footnote\endcsname\@thefnmark}%
15105 \setbox0=\vbox{\hsize=\maxdimen
15106   \color@begingroup
15107     \noindent \@parafootfmt{#1}%
15108   \color@endgroup}%
15109 \m@mungebox}\m@mmf@prepare
15110 \if@RTL@footnote
15111   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
15112 \else
15113   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15114 \fi
15115 }
15116 \bidi@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
15117 \let\bidi@RTL@everypar\@empty%
15118 \def\baselinestretch{\m@m@footnote@spacing}%
15119 \reset@font\LTRfoottextfont
15120 \@preamfntext
15121 \protected@edef\@currentlabel{%
15122   \csname p@footnote\endcsname\@thefnmark}%
15123 \setbox0=\vbox{\hsize=\maxdimen
15124   \color@begingroup
15125     \noindent \@paraLTRfootfmt{#1}%
15126   \color@endgroup}%
15127 \m@mungebox}\m@mmf@prepare}
15128 \newcommand{\@ParaLTRfootnotetext}[1]{%
15129 \bidi@step@absolutefootnote@count
15130 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
15131 \global\setbox\footinsv@l\vbox{%
15132 \unvbox\footinsv@l
15133 \let\bidi@RTL@everypar\@empty%
15134 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

15135 \reset@font\LTRfoottextfont
15136 \@preamfntext
15137 \protected@edef\@currentlabel{%
15138   \csname p@footnote\endcsname\@thefnmark}%
15139 \setbox0=\vbox{\hsize=\maxdimen
15140   \color@begingroup
15141     \noindent \@paraLTRfootfmt{#1}%
15142   \color@endgroup}%
15143 \m@mungebox}\m@mmf@prepare
15144 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15145 }
15146 \bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
15147   \let\bidi@RTL@everypar\@empty%
15148   \def\baselinestretch{\m@m@footnote@spacing}%
15149   \reset@font\RTLfoottextfont
15150   \@preamfntext
15151   \protected@edef\@currentlabel{%
15152     \csname p@footnote\endcsname\@thefnmark}%
15153   \setbox0=\vbox{\hsize=\maxdimen
15154     \color@begingroup
15155       \noindent \@paraRTLfootfmt{#1}%
15156     \color@endgroup}%
15157   \m@mungebox}\m@mmf@prepare}
15158 \newcommand{\@ParaRTLfootnotetext}[1]{%
15159   \bidi@step@absolutefootnote@count
15160   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15161   \global\setbox\footinsv@r\vbox{%
15162     \unvbox\footinsv@r
15163     \let\bidi@RTL@everypar\@empty%
15164     \def\baselinestretch{\m@m@footnote@spacing}%
15165     \reset@font\RTLfoottextfont
15166     \@preamfntext
15167     \protected@edef\@currentlabel{%
15168       \csname p@footnote\endcsname\@thefnmark}%
15169     \setbox0=\vbox{\hsize=\maxdimen
15170       \color@begingroup
15171         \noindent \@paraRTLfootfmt{#1}%
15172       \color@endgroup}%
15173     \m@mungebox}\m@mmf@prepare
15174     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
15175 }
15176 \bidi@ensure@newcommand{\@parafootfmt}[1]{%
15177   \parindent=\z@
15178   \parfillskip=0pt \@plus 1fil
15179   {\footfootmark\strut {\foottextfont #1}\penalty-10}}
15180 \bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
15181   \parindent=\z@
15182   \parfillskip=0pt \@plus 1fil
15183   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
15184 \bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
15185   \parindent=\z@
15186   \parfillskip=0pt \@plus 1fil
15187   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
15188 \bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%

```



```

15189 \global\setbox
15190 \if@RTL@footnote
15191   \@mpfootinsv@r
15192 \else
15193   \@mpfootinsv@l
15194 \fi
15195 \vbox{%
15196   \unvbox
15197   \if@RTL@footnote
15198     \@mpfootinsv@r
15199   \else
15200     \@mpfootinsv@l
15201   \fi
15202   \let\bid@RTL@everypar\@empty
15203   \def\baselinestretch{\m@M@footnote@spacing}%
15204   \reset@font\foottextfont
15205   \hsize\columnwidth \@parboxrestore
15206   \protected@edef\@currentlabel{%
15207     \csname p@mpfootnote\endcsname\@thefnmark}%
15208   \setbox0=\vbox{\hsize=\maxdimen
15209     \color@begingroup
15210     \noindent \@parafootfmt{#1}%
15211     \color@endgroup}%
15212   \m@mungebox}\m@mmf@prepare}
15213 \newcommand{\@mpParafootnotetext}[1]{%
15214   \if@RTL@footnote
15215     \bid@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
15216   \else
15217     \bid@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
15218   \fi
15219   \global\setbox
15220   \if@RTL@footnote
15221     \@mpfootinsv@r
15222   \else
15223     \@mpfootinsv@l
15224   \fi
15225   \vbox{%
15226     \unvbox
15227     \if@RTL@footnote
15228       \@mpfootinsv@r
15229     \else
15230       \@mpfootinsv@l
15231     \fi
15232     \let\bid@RTL@everypar\@empty
15233     \def\baselinestretch{\m@M@footnote@spacing}%
15234     \reset@font\foottextfont
15235     \hsize\columnwidth \@parboxrestore
15236     \protected@edef\@currentlabel{%
15237       \csname p@mpfootnote\endcsname\@thefnmark}%
15238     \setbox0=\vbox{\hsize=\maxdimen
15239       \color@begingroup
15240       \noindent \@parafootfmt{#1}%
15241       \color@endgroup}%
15242     \m@mungebox}\m@mmf@prepare}

```



```

15243 \bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
15244   \global\setbox\@mpfootinsv@l\vbox{%
15245     \unvbox\@mpfootinsv@l
15246     \let\bidi@RTL@everypar\@empty
15247     \def\baselinestretch{\m@m@footnote@spacing}%
15248     \reset@font\LTRfoottextfont
15249     \hsize\columnwidth \@parboxrestore
15250     \protected@edef\@currentlabel{%
15251       \csname p@mpfootnote\endcsname\@thefnmark}%
15252     \setbox0=\vbox{\hsize=\maxdimen
15253       \color@begingroup
15254       \noindent \@paraLTRfootfmt{#1}%
15255       \color@endgroup}%
15256     \m@mungebox}\m@mmf@prepare}
15257 \newcommand{\@mpParaLTRfootnotetext}[1]{%
15258   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
15259   \global\setbox\@mpfootinsv@l\vbox{%
15260     \unvbox\@mpfootinsv@l
15261     \let\bidi@RTL@everypar\@empty
15262     \def\baselinestretch{\m@m@footnote@spacing}%
15263     \reset@font\LTRfoottextfont
15264     \hsize\columnwidth \@parboxrestore
15265     \protected@edef\@currentlabel{%
15266       \csname p@mpfootnote\endcsname\@thefnmark}%
15267     \setbox0=\vbox{\hsize=\maxdimen
15268       \color@begingroup
15269       \noindent \@paraLTRfootfmt{#1}%
15270       \color@endgroup}%
15271     \m@mungebox}\m@mmf@prepare}
15272 \bidi@ensure@newcommand{\@mpparaRTLfootnotetext}[1]{%
15273   \global\setbox\@mpfootinsv@r\vbox{%
15274     \unvbox\@mpfootinsv@r
15275     \let\bidi@RTL@everypar\@empty
15276     \def\baselinestretch{\m@m@footnote@spacing}%
15277     \reset@font\RTLfoottextfont
15278     \hsize\columnwidth \@parboxrestore
15279     \protected@edef\@currentlabel{%
15280       \csname p@mpfootnote\endcsname\@thefnmark}%
15281     \setbox0=\vbox{\hsize=\maxdimen
15282       \color@begingroup
15283       \noindent \@paraRTLfootfmt{#1}%
15284       \color@endgroup}%
15285     \m@mungebox}\m@mmf@prepare}
15286 \newcommand{\@mpParaRTLfootnotetext}[1]{%
15287   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
15288   \global\setbox\@mpfootinsv@r\vbox{%
15289     \unvbox\@mpfootinsv@r
15290     \let\bidi@RTL@everypar\@empty
15291     \def\baselinestretch{\m@m@footnote@spacing}%
15292     \reset@font\RTLfoottextfont
15293     \hsize\columnwidth \@parboxrestore
15294     \protected@edef\@currentlabel{%
15295       \csname p@mpfootnote\endcsname\@thefnmark}%
15296     \setbox0=\vbox{\hsize=\maxdimen

```



```

15297      \color@begingroup
15298      \noindent \@paraRTLfootfmt{#1}%
15299      \color@endgroup}%
15300      \m@mmungebox}\m@mmf@prepare}
15301 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
15302 \@namedef{@para@footgroup#1}{%
15303   \unvbox\@nameuse{footins#1}
15304   \@RTLtrue
15305   \m@mmakehboxofhboxes
15306   \setbox0=\hbox{\unhbox0 \m@removehboxes}%
15307   \hsize\bidi@columnwidth
15308   \@parboxrestore
15309   \def\baselinestretch{\m@m@footnote@spacing}%
15310   \@nameuse{foottextfont#1}%
15311   \noindent\unhbox0\par}}
15312 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
15313 \@namedef{@para@LTRfootgroup#1}{%
15314   \unvbox\@nameuse{footins#1}
15315   \@RTLfalse
15316   \m@mmakehboxofhboxes
15317   \setbox0=\hbox{\unhbox0 \m@removehboxes}%
15318   \hsize\bidi@columnwidth
15319   \@parboxrestore
15320   \def\baselinestretch{\m@m@footnote@spacing}%
15321   \@nameuse{foottextfont#1}%
15322   \noindent\unhbox0\par}}
15323 \newcommand{\bidi@removexparafootskip}{%
15324   \advance\@tempskipa -\bidi@paraskip
15325   \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
15326 }
15327 \let\bidi@removexfootskip\relax
15328 \bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
15329 \@namedef{@mppara@footgroup#1}{%
15330   \unvbox\@nameuse{@mpfootins#1}
15331   \@RTLtrue
15332   \m@mmakehboxofhboxes
15333   \setbox0=\hbox{\unhbox0 \m@removehboxes}%
15334   \def\baselinestretch{\m@m@footnote@spacing}%
15335   \@nameuse{foottextfont#1}%
15336   \noindent\unhbox0\par}}
15337 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%
15338 \@namedef{@mppara@LTRfootgroup#1}{%
15339   \unvbox\@nameuse{@mpfootins#1}
15340   \@RTLfalse
15341   \m@mmakehboxofhboxes
15342   \setbox0=\hbox{\unhbox0 \m@removehboxes}%
15343   \def\baselinestretch{\m@m@footnote@spacing}%
15344   \@nameuse{foottextfont#1}%
15345   \noindent\unhbox0\par}}
15346 \bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
15347 \@namedef{@para@footstart#1}{%
15348   \leftskip=\z@
15349   \rightskip=\z@
15350   \parindent=\z@

```



```

15351 }%
15352 }
15353 \bidi@ensure@newcommand*{\m@m@makecolfloats}{%
15354 \xdef\@freelist{\@freelist\@midlist}%
15355 \global\let\@midlist\@empty
15356 \@combinefloats}
15357 \bidi@ensure@newcommand*{\m@m@makecoltext}{%
15358 \ifvbox\@kludgeins
15359 \@makespecialcolbox
15360 \else
15361 \setbox\@outputbox \vbox to\@colht{%
15362 \texttop
15363 \dimen@ \dp\@outputbox
15364 \unvbox \@outputbox
15365 \vskip -\dimen@
15366 \textbottom}%
15367 \fi}
15368 \bidi@ensure@newcommand*{\m@m@makecolintro}{%
15369 \bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
15370 \boxmaxdepth\@maxdepth
15371 \@tempdima\dp\@cclv
15372 \unvbox\@cclv
15373 \vskip-\@tempdima
15374 \bidi@mopfn@bottom
15375 \vskip \skip\footins
15376 \color@begingroup
15377 \normalcolor
15378 \footnoterule
15379 \unvbox \footins
15380 \color@endgroup
15381 }%
15382 }
15383 \newcommand*\bidi@mopfootnotebf{%
15384 \setbox\@outputbox \vbox{%
15385 \boxmaxdepth\@maxdepth
15386 \unvbox\@outputbox
15387 \bidi@mopfn@bottom
15388 \vskip\skip\footins
15389 \color@begingroup
15390 \normalcolor
15391 \footnoterule
15392 \unvbox \footins
15393 \color@endgroup
15394 }%
15395 }
15396 \gdef\mem@makecol{%
15397 \m@m@makecolintro
15398 \m@m@doextrafeet
15399 \ifvoid\footins
15400 \setbox\@outputbox \box\@cclv
15401 \else
15402 \m@mopfootnote
15403 \fi
15404 \m@m@makecolfloats

```



```

15405 \m@m@makecoltext
15406 \global \maxdepth \@maxdepth}
15407 \gdef\@bidi@makecolbf{%
15408 \m@m@makecolintro
15409 \m@m@doextrafeet
15410 \setbox\@outputbox \box\@cclv
15411 \m@m@makecolfloats
15412 \ifvoid\footins
15413 \else
15414 \bidi@mopfootnotebf
15415 \fi
15416 \m@m@makecoltext
15417 \global \maxdepth \@maxdepth}
15418 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
15419 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
15420 \newcommand{\FeetAtBottom}{\def\bidi@mopfn@bottom{\vfill\relax}}
15421 \newcommand{\FeetBelowRagged}{\let\bidi@mopfn@bottom\relax}
15422 \FeetAboveFloat
15423 \FeetBelowRagged
15424 \def\bidi@reinserts#1{\ifvoid#1\else
15425 \ifnum\count\@currbox>\z@
15426 \advance\@pageht \ht#1%
15427 \advance\@pageht \skip#1%
15428 \advance\@pageht \dp#1%
15429 \fi
15430 \insert#1{\unvbox#1}%
15431 \fi
15432 }
15433 \def\bidi@init@multi@footins#1{%
15434 \multiply\count#1\col@number
15435 \multiply\skip#1\col@number
15436 }
15437 \def\bidi@reinsert@footnotes#1{\ifvoid#1\else
15438 \insert#1{\fi}
15439 \AtBeginDocument{%
15440 \bidi@preto\@doclearpage\m@m@doextrafeet
15441 \g@addto@macro\@reinserts{%
15442 \bidi@reinserts\footinsv@r
15443 \bidi@reinserts\footinsv@l
15444 }
15445 \bidi@floathook
15446 \g@addto@macro\@floatplacement{%
15447 \bidi@ifmulticol}{\bidi@floathook}%
15448 }%
15449 \if@bidi@csundef{multi@column@out}{%
15450 \@onlypreamble\bidi@init@multi@footins
15451 \let\bidi@ifmulticol\@secondoftwo
15452 }{%
15453 \bidi@preto\multi@column@out\m@m@doextrafeet
15454 \g@addto@macro\init@mult@footins{%
15455 \bidi@init@multi@footins\footinsv@r
15456 \bidi@init@multi@footins\footinsv@l
15457 }%
15458 \g@addto@macro\reinsert@footnotes{%

```





```

15459     \bidi@reinsert@footnotes\footinsv@r
15460     \bidi@reinsert@footnotes\footinsv@l
15461   }%
15462 }%
15463 }

```

## 87 File extreport-xetex-bidi.def

```

15464 \ProvidesFile{extreport-xetex-bidi.def}[2017/06/09 v0.3 bidi adaptations for extreport clas
15465 \renewcommand*\l@part[2]{%
15466   \ifnum \c@tocdepth >-2\relax
15467     \addpenalty{-\@highpenalty}%
15468     \addvspace{2.25em \@plus\p@}%
15469     \begingroup
15470       \setlength\@tempdima{3em}%
15471       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15472       \parfillskip -\@pnumwidth
15473       {\leavevmode
15474         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
15475       \nobreak
15476       \global\@nobreaktrue
15477       \everypar{\global\@nobreakfalse\everypar{}}%
15478     \endgroup
15479   \fi}
15480 \renewcommand*\l@chapter[2]{%
15481   \ifnum \c@tocdepth >\m@ne
15482     \addpenalty{-\@highpenalty}%
15483     \vskip 1.0em \@plus\p@
15484     \setlength\@tempdima{1.5em}%
15485     \begingroup
15486       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15487       \parfillskip -\@pnumwidth
15488       \leavevmode \bfseries
15489       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
15490       \hskip -\if@RTL\rightskip\else\leftskip\fi
15491       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
15492       \penalty\@highpenalty
15493     \endgroup
15494   \fi}
15495 \def\@makechapterhead#1{%
15496   \vspace*{50\p@}%
15497   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
15498     \ifnum \c@secnumdepth >\m@ne
15499       \huge\bfseries \@chapapp\space \thechapter
15500       \par\nobreak
15501       \vskip 20\p@
15502     \fi
15503     \interlinepenalty\@M
15504     \Huge \bfseries #1\par\nobreak
15505     \vskip 40\p@
15506   }}
15507 \def\@makeschapterhead#1{%
15508   \vspace*{50\p@}%
15509   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi

```



```

15510 \normalfont
15511 \interlinepenalty\@M
15512 \Huge \bfseries #1\par\nobreak
15513 \vskip 40\p@
15514 }
15515 \renewcommand\left@footnoterule{%
15516 \kern-3\p@
15517 \hrule\@width.4\columnwidth
15518 \kern2.6\p@}
15519 \renewcommand\right@footnoterule{%
15520 \kern-3\p@
15521 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
15522 \kern2.6\p@}
15523 \renewenvironment{thebibliography}[1]
15524 {\chapter*{\bibname
15525 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
15526 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
15527 \bidi@thebibliography@font@hook%
15528 \list{\@biblabel{\@arabic\c@enumiv}}%
15529 {\settowidth\labelwidth{\@biblabel{#1}}%
15530 \leftmargin\labelwidth
15531 \advance\leftmargin\labelsep
15532 \@openbib@code
15533 \usecounter{enumiv}%
15534 \let\p@enumiv\@empty
15535 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
15536 \sloppy\clubpenalty4000\widowpenalty4000%
15537 \sfcode`\.\@m}
15538 {\def\@noitemerr
15539 {\@latex@warning{Empty `thebibliography' environment}}%
15540 \endlist}
15541 \if@titlepage
15542 \renewcommand\maketitle{\begin{titlepage}%
15543 \let\footnotesize\small
15544 \let\right@footnoterule\relax
15545 \let\left@footnoterule\relax
15546 \let\textwidth\footnoterule\relax
15547 \let\footnote\thanks
15548 \null\vfil
15549 \vskip 60\p@
15550 \begin{center}%
15551 {\LARGE \@title \par}%
15552 \vskip 3em%
15553 {\large
15554 \lineskip .75em%
15555 \begin{tabular}[t]{c}%
15556 \@author
15557 \end{tabular}\par}%
15558 \vskip 1.5em%
15559 {\large \@date \par}% % Set date in \large size.
15560 \end{center}\par
15561 \@thanks
15562 \vfil\null
15563 \end{titlepage}%

```



```

15564 \setcounter{footnote}{0}%
15565 \global\let\thanks\relax
15566 \global\let\maketitle\relax
15567 \global\let\@thanks\@empty
15568 \global\let\@author\@empty
15569 \global\let\@date\@empty
15570 \global\let\@title\@empty
15571 \global\let\title\relax
15572 \global\let\author\relax
15573 \global\let\date\relax
15574 \global\let\and\relax
15575 }
15576 \else
15577 \renewcommand\maketitle{\par
15578 \begingroup
15579 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
15580 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
15581 \long\def\@makefntext##1{\parindent 1em\noindent
15582 \hb@xt@1.8em{%
15583 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
15584 \if@twocolumn
15585 \ifnum \col@number=\@ne
15586 \@maketitle
15587 \else
15588 \twocolumn[\@maketitle]%
15589 \fi
15590 \else
15591 \newpage
15592 \global\@topnum\z@ % Prevents figures from going at top of page.
15593 \@maketitle
15594 \fi
15595 \thispagestyle{plain}\@thanks
15596 \endgroup
15597 \setcounter{footnote}{0}%
15598 \global\let\thanks\relax
15599 \global\let\maketitle\relax
15600 \global\let\@maketitle\relax
15601 \global\let\@thanks\@empty
15602 \global\let\@author\@empty
15603 \global\let\@date\@empty
15604 \global\let\@title\@empty
15605 \global\let\title\relax
15606 \global\let\author\relax
15607 \global\let\date\relax
15608 \global\let\and\relax
15609 }
15610 \def\@maketitle{%
15611 \newpage
15612 \null
15613 \vskip 2em%
15614 \begin{center}%
15615 \let \footnote \thanks
15616 {\LARGE \@title \par}%
15617 \vskip 1.5em%

```



```

15618 {\large
15619 \lineskip .5em%
15620 \begin{tabular}[t]{c}%
15621 \author
15622 \end{tabular}\par}%
15623 \vskip 1em%
15624 {\large \@date}%
15625 \end{center}%
15626 \par
15627 \vskip 1.5em}
15628 \fi
15629 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
15630 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15631 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15632 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15633 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
15634 \renewcommand\theequation{%
15635 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
15636 \renewcommand\thefigure{%
15637 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15638 \renewcommand\thetable{%
15639 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}

```

## 88 File fancybox-xetex-bidi.def

```

15640 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox packag
15641 \def\fancy@oval#1#2#3{%
15642 \boxmaxdepth \maxdimen
15643 \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue
15644 \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
15645 \@ovxx#1\relax
15646 \advance\@ovxx-\@wholewidth
15647 \@ovyy#2\relax
15648 \advance\@ovyy-\@wholewidth
15649 \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx \@ovxx\else \@ovyy \fi
15650 \advance\@tempdimb-2\p@
15651 \ifdim\@tempdimb>\the@cornersize\relax
15652 \@tempdimb=\the@cornersize
15653 \fi
15654 \@getcirc\@tempdimb
15655 \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
15656 \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
15657 \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@
15658 \circlefnt
15659 \setbox\@tempboxa\hbox{\beginL%
15660 \if@ovr \@ovvert32\kern -\@tempdima \fi
15661 \if@ovl \kern \@ovxx \@ovvert01\kern -\@tempdima \kern -\@ovxx \fi
15662 \if@ovt \@ovhorz \kern -\@ovxx \fi
15663 \if@ovb \raise \@ovyy \@ovhorz \fi\endL}%
15664 \advance\@ovdx\@ovro
15665 \advance\@ovdy\@ovro
15666 \advance\@ovxx\@wholewidth
15667 \wd\@tempboxa=\@ovxx
15668 \dp\@tempboxa=\z@}

```



## 89 File fancyhdr-xetex-bidi.def

```
15669 \ProvidesFile{fancyhdr-xetex-bidi.def}[2024/12/07 v0.8 bidi adaptations for fancyhdr package]
15670
15671 \let\f@nch@everypar\everypar
15672
15673 \bidi@patchcmd\f@nch@head\raggedright\bidi@raggedright
15674 {}{\bidi@warningnoline{Oops! patching ``string\f@nch@head' failed}}
15675 \bidi@patchcmd\f@nch@head\raggedleft\bidi@raggedleft
15676 {}{\bidi@warningnoline{Oops! patching ``string\f@nch@head' failed}}
15677
15678 \bidi@patchcmd\f@nch@foot\raggedright\bidi@raggedright
15679 {}{\bidi@warningnoline{Oops! patching ``string\f@nch@foot' failed}}
15680 \bidi@patchcmd\f@nch@foot\raggedleft\bidi@raggedleft
15681 {}{\bidi@warningnoline{Oops! patching ``string\f@nch@foot' failed}}
15682
```

## 90 File fix2col-xetex-bidi.def

```
15683 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package]
15684 \def\RTL@outputdblcol{%
15685   \if@firstcolumn
15686     \global\@firstcolumnfalse
15687     \global\setbox\@leftcolumn\copy\@outputbox
15688     \splitmaxdepth\maxdimen
15689     \vbadness\maxdimen
15690     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
15691     \toks@\expandafter{\topmark}%
15692     \xdef\@firstcoltopmark{\the\toks@}%
15693     \toks@\expandafter{\splitfirstmark}%
15694     \xdef\@firstcolfirstmark{\the\toks@}%
15695     \ifx\@firstcolfirstmark\@empty
15696       \global\let\@setmarks\relax
15697     \else
15698       \gdef\@setmarks{%
15699         \let\firstmark\@firstcolfirstmark
15700         \let\topmark\@firstcoltopmark}%
15701     \fi
15702 \else \global\@firstcolumntrue
15703 \setbox\@outputbox \vbox {\hbox to\textwidth {%
15704 \hskip \columnwidth
15705 \hfil \vrule width\columnseprule \hfil
15706 \hbox to\columnwidth {%
15707 \bidi@firstcolumn@status@write%
15708 \box\@leftcolumn \hss}%
15709 \hskip -\textwidth
15710 \hbox to\columnwidth{%
15711 \bidi@lastcolumn@status@write%
15712 \box\@outputbox \hss}%
15713 \hskip \columnsep
15714 \hskip \columnwidth }}%
15715 \@combinedblfloats \@setmarks \@outputpage
15716 \begingroup \@dblfloatplacement \@startdblcolumn
15717 \@whilesw\if@fcolmade \fi
```



```

15718 {\@outputpage \@startdblcolumn }\endgroup
15719 \fi}
15720 \def\LTR@outputdblcol{%
15721   \if@firstcolumn
15722     \global\@firstcolumnfalse
15723     \global\setbox\@leftcolumn\copy\@outputbox
15724     \splitmaxdepth\maxdimen
15725     \vbadness\maxdimen
15726     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
15727     \toks@\expandafter{\topmark}%
15728     \xdef\@firstcoltopmark{\the\toks@}%
15729     \toks@\expandafter{\splitfirstmark}%
15730     \xdef\@firstcolfirstmark{\the\toks@}%
15731     \ifx\@firstcolfirstmark\@empty
15732       \global\let\@setmarks\relax
15733     \else
15734       \gdef\@setmarks{%
15735         \let\firstmark\@firstcolfirstmark
15736         \let\topmark\@firstcoltopmark}%
15737     \fi
15738   \else
15739     \global\@firstcolumntrue
15740     \setbox\@outputbox\vbox{%
15741       \hb@xt@\textwidth{%
15742         \hb@xt@\columnwidth{%
15743           \bidi@firstcolumn@status@write%
15744           \box\@leftcolumn \hss}%
15745         \hfil
15746         \vrule \@width\columnseprule
15747         \hfil
15748         \hb@xt@\columnwidth{%
15749           \bidi@lastcolumn@status@write%
15750           \box\@outputbox \hss}}}%
15751   \@combinedblfloats
15752   \@setmarks
15753   \@outputpage
15754   \begingroup
15755     \@dblfloatplacement
15756     \@startdblcolumn
15757     \@whilesw\if@fcolmade \fi{\@outputpage\@startdblcolumn}%
15758   \endgroup
15759 \fi}

```

## 91 File fleqn-xetex-bidi.def

```

15760 \ProvidesFile{fleqn-xetex-bidi.def}[2024/12/07 v0.2 bidi adaptations for fleqn tag for XeTeX]
15761 \DeclareRobustCommand\[\relax
15762   \ifmmode\@badmath
15763   \else
15764     \begin{trivlist}%
15765       \beginparpenalty\predisplaypenalty
15766       \endparpenalty\postdisplaypenalty
15767       \item[]\leavevmode
15768       \hb@xt@\linewidth\bgroup \beginL$\m@th\displaystyle %$

```



```

15769             \hskip\mathindent\bgroup
15770         \fi}
15771 \DeclareRobustCommand\]{\relax
15772     \ifmode
15773         \egroup $\hfil% $
15774     \endL\egroup
15775     \end{trivlist}%
15776     \else \@badmath
15777     \fi}
15778 \renewenvironment{equation}%
15779     {\@beginparpenalty\predisplaypenalty
15780     \@endparpenalty\postdisplaypenalty
15781     \refstepcounter{equation}%
15782     \trivlist \item[]\leavevmode
15783     \hb@xt@\linewidth\bgroup\beginL $\m@th% $
15784     \displaystyle
15785     \hskip\mathindent}%
15786     {$\hfil % $
15787     \displaywidth\linewidth\hbox{\@eqnnum}%
15788     \endL\egroup
15789     \endtrivlist}

```

## 92 File float-xetex-bidi.def

```

15790 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for
15791 \renewcommand\floatc@plain[2]{\setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%
15792 \ifdim\wd\@tempboxa>\hsize {\@fs@cfont #1:} #2\par
15793 \else\hbox to\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}\fi}
15794 \def\float@newx#1[#2]{\@ifundefined{c@#1}{\newcounter{#1}[#2]%
15795     \expandafter\edef\csname the#1\endcsname{%
15796     \expandafter\noexpand\csname
15797     the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
15798     {\PackageWarning{float}{Can't redefine counter variable for #1.}}}

```

## 93 File floatrow-xetex-bidi.def

```

15799 \ProvidesFile{floatrow-xetex-bidi.def}[2013/04/08 v0.1 bidi adaptations for floatrow packag
15800 \renewcommand\flnew@within[1]{\@addtoreset{\FB@captype}{#1}%
15801     \expandafter\edef\csname the\FB@captype\endcsname{%
15802     \expandafter\noexpand\csname
15803     the#1\endcsname\@SepMark\noexpand\arabic{\FB@captype}}}

```

## 94 File flowfram-xetex-bidi.def

```

15804 \ProvidesFile{flowfram-xetex-bidi.def}[2018/09/29 v0.5 bidi adaptations for flowfram packag
15805 \def\@outputdblcol{%
15806 \c@nxtcol=\c@thisframe
15807 \c@curpg=\c@page
15808 \g@tnextcol{\c@nxtcol}%
15809 \if@ff@nwp % next flow frame starts on new page
15810     \global\@firstcolumntrue
15811     \setcolbox\c@thisframe
15812     \if@specialpage
15813         \global\@specialpagefalse

```



```

15814 \nameuse{ps@\@specialstyle}\relax
15815 \fi
15816 \if@twoside
15817 \ifodd\count\z@
15818 \let\@thehead\@oddhead
15819 \let\@thefoot\@oddfoot
15820 \else
15821 \let\@thehead\@evenhead
15822 \let\@thefoot\@evenfoot
15823 \fi
15824 \else
15825 \let\@thehead\@oddhead
15826 \let\@thefoot\@oddfoot
15827 \fi
15828 \@begindvi
15829 \@dynamicthead\@dynamictfoot
15830 \vbadness=\@M
15831 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ffdo@allframes}}%
15832 \@combinedblfloats
15833 \@outputpage
15834 \advance\c@curpg by -\c@page\relax
15835 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
15836 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ffdo@allframes}}%
15837 \@outputpage}
15838 \begingroup
15839 \dblfloatplacement
15840 \startdblcolumn
15841 \@whilesw \if@colmade \fi
15842 {\@outputpage \startdblcolumn }\endgroup
15843 \@resetst@tics
15844 \@resetdyn@mics
15845 \else % still on same page, save contents of box255
15846 \global\@firstcolumnfalse
15847 \setcolbox\c@thisframe
15848 \fi
15849 \global\c@thisframe=\@nxtcol
15850 \@setcol{\c@thisframe}\relax
15851 \global\@colht\vsiz
15852 }
15853 \def\@outputpage{%
15854 \begingroup
15855 \let\protect\noexpand
15856 \@resetactivechars
15857 \global\let\@if@newlist@if@newlist
15858 \global\@newlistfalse\@parboxrestore
15859 \global\let\@bidi@BeforeOutputPageShipOut\@firstofone
15860 \bidi@beforeoutputpageshipouthook
15861 \shipout\vbox{\set@typeset@protect
15862 \aftergroup
15863 \endgroup
15864 \aftergroup
15865 \set@typeset@protect
15866 \reset@font\normalsize
15867 \bidi@font@@outputpage

```





```

15868 \normalsfcodes
15869 \let\label\@gobble
15870 \let\index\@gobble
15871 \let\glossary\@gobble
15872 \baselineskip\z@skip
15873 \lineskip\z@skip
15874 \lineskiplimit\z@
15875 \vskip\topmargin\moveright\@themargin
15876 \vbox{%
15877   \global\let\bidibeforeheader\@firstofone
15878   \bidibeforeheaderhook
15879   \vskip\headheight
15880   \vskip\headsep
15881   \global\let\bidibeforeoutputboxoutputpage\@firstofone
15882   \bidibeforeoutputboxoutputpagehook
15883   \box\@outputbox
15884   \global\let\bidiafteroutputboxoutputpage\@firstofone
15885   \bidiafteroutputboxoutputpagehook
15886 }%
15887 \global\let\bidiafteroutputpageshipout\@firstofone
15888 \bidiafteroutputpageshipouthook
15889 \global\let\ifnewlist\@ifnewlist
15890 \stepcounter{page}%
15891 \setcounter{displayedframe}{0}%
15892 \let\firstmark\botmark
15893 \global\let\bidiatendoutputpage\@firstofone
15894 \bidiatendoutputpagehook
15895 }
15896
15897
15898 \newcommand*\bidis@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{\}%
15899 \expandafter\bidicolor\ff@txtcol}}
15900
15901 \newcommand{\bidiff@box}[3]{\@ffbackground{\vbox to#2
15902 {\hb@xt@ #1{\hss{\bidis@tfftextcol #3}\hss}\vss\kern\z@}}}%
15903
15904
15905 \renewcommand*\@docolbox}[1]{%
15906 \edef\ff@frametype{%
15907 \csname @ff@frametype@romannumeral#1\endcsname}%
15908 \edef\ff@col{\csname @ff@col@romannumeral#1\endcsname}%
15909 \edef\ff@txtcol{\csname @ff@txtcol@romannumeral#1\endcsname}%
15910 \edef\ff@backcol{\csname @ff@backcol@romannumeral#1\endcsname}%
15911 \@ff@setoffset{#1}%
15912 \rotateframe{\csname @ff@angle@romannumeral#1\endcsname}{%
15913 \ifthenelse{\boolean{columnframe\romannumeral#1}}{%
15914 \@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
15915 {\csname colheight\romannumeral#1\endcsname}{%
15916 \expandafter\box\csname column\romannumeral#1\endcsname}{%
15917 \csname\ff@frametype\endcsname}%
15918 }{%
15919 \bidiff@box{\csname colwidth\romannumeral#1\endcsname}%
15920 {\csname colheight\romannumeral#1\endcsname}{%
15921 \expandafter\box\csname column\romannumeral#1\endcsname}%

```



```

15922 }}}
15923 \@ifclassloaded{book}{%
15924 \renewcommand\theequation
15925   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15926 \renewcommand \thefigure
15927   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15928 \renewcommand \thetable
15929   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
15930 \renewcommand \thechapter {\@arabic\c@chapter}
15931 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15932 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15933 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15934 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15935 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}{}
15936 \@ifclassloaded{report}{%
15937 \renewcommand\theequation
15938   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15939 \renewcommand \thefigure
15940   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15941 \renewcommand \thetable
15942   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
15943 \renewcommand \thechapter {\@arabic\c@chapter}
15944 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15945 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15946 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15947 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15948 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}{}
15949 \renewcommand{\rotateframe}[2]{\if@ttb@rotate
15950 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}}%
15951 \else
15952 #2\relax
15953 \fi}

```

## 95 File footnote-xetex-bidi.def

```

15954 \ProvidesFile{footnote-xetex-bidi.def}[2023/01/18 v1.2 bidi footnote macros for XeTeX engine]
15955 \if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
15956 \newif\ifbidi@autofootnoterule
15957 \def\bidi@mpfootnoterule{\footnoterule}
15958 \newcounter{footdir@label}
15959 \renewcommand*{\thefootdir@label}{footdir@the\value{footdir@label}}
15960 \newcommand*{\footdir@write}{%
15961   \stepcounter{footdir@label}%
15962   \zref@labelbyprops{\thefootdir@label}{abspage}%
15963 }
15964 \newif\iffootdir@debug
15965 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
15966 \newtoks\footdir@toks
15967 \newcommand*{\footdir@debug}[1]{%
15968   \iffootdir@debug
15969     \typeout{[footdir] #1}%
15970   \fi
15971 }
15972 %\@ifpackagelater{zref-abspage}{2012/10/27}{%

```



```

15973 % \newcommand*{\footdir@LeftRightElse}{%
15974 % \ltx@ifundefined{footdir@the\value{zabspage}}{%
15975 % \footdir@debug{abspage \the\value{zabspage}: else}%
15976 % \ltx@thirdofthree
15977 % }{%
15978 % \if\csname footdir@the\value{zabspage}\endcsname L%
15979 % \footdir@debug{abspage \the\value{zabspage}: left}%
15980 % \expandafter\ltx@firstofthree
15981 % \else
15982 % \footdir@debug{abspage \the\value{zabspage}: right}%
15983 % \expandafter\ltx@secondofthree
15984 % \fi
15985 % }%
15986 % }%
15987 %}%
15988 \providecommand*{\c@zabspage}{\c@abspage}%
15989 \newcommand*{\footdir@LeftRightElse}{%
15990 \footdir@write
15991 \zifrefundefined{\thefootdir@label}{%
15992 \footdir@debug{abspage ??: else}%
15993 \ltx@thirdofthree
15994 }{%
15995 \edef\footdir@abspage{%
15996 \zref@extractdefault{\thefootdir@label}{abspage}{0}%
15997 }%
15998 \ltx@ifundefined{footdir@\footdir@abspage}{%
15999 \footdir@debug{\footdir@abspage: else}%
16000 \ltx@thirdofthree
16001 }{%
16002 \if\csname footdir@\footdir@abspage\endcsname L%
16003 \footdir@debug{\footdir@abspage: left}%
16004 \expandafter\ltx@firstofthree
16005 \else
16006 \footdir@debug{\footdir@abspage: right}%
16007 \expandafter\ltx@secondofthree
16008 \fi
16009 }%
16010 }%
16011 }%
16012 %}
16013 \newcommand*{\footdir@fntext}[1]{%
16014 \zifrefundefined{\thefootdir@label}{%
16015 }{%
16016 \edef\footdir@name{%
16017 \footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
16018 }%
16019 \@ifundefined{\footdir@name}{%
16020 \expandafter\gdef\csname\footdir@name\endcsname{#1}%
16021 }{%
16022 }%
16023 }
16024
16025 \newcommand*{\footdir@temp}[3]{%
16026 \@ifdefinable{#1}{%

```



```

16027 \let#1#2%
16028 \renewcommand{#2}[1]{%
16029 \footdir@write
16030 \footdir@fntext{#3}%
16031 \stepcounter{footdir@label}%
16032 \footdir@fntext{#3}%
16033 \footdir@toks{##1}%
16034 \footdir@toks\expandafter{%
16035 \the\expandafter\footdir@toks
16036 \expandafter
16037 \zref@labelbyprops\expandafter{\the\footdir@label}{abspage}%
16038 }%
16039 \expandafter#1\expandafter{\the\footdir@toks}%
16040 }%
16041 }%
16042 }
16043
16044 \def\right@footnoterule{%
16045 \kern-3\p@
16046 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16047 \kern2.6\p@}
16048 \def\left@footnoterule{\kern-3\p@
16049 \hrule \@width .4\columnwidth \kern 2.6\p@}
16050 \def\textwidth@footnoterule{\kern-3\p@
16051 \hrule \@width \columnwidth \kern 2.6\p@}
16052 \def\leftfootnoterule{%
16053 \bidi@autofootnoterulefalse%
16054 \def\footnoterule{\left@footnoterule}}
16055 \let\LRfootnoterule=\leftfootnoterule
16056 \def\rightfootnoterule{%
16057 \bidi@autofootnoterulefalse%
16058 \def\footnoterule{\right@footnoterule}}
16059 \def\textwidthfootnoterule{%
16060 \bidi@autofootnoterulefalse%
16061 \def\footnoterule{\textwidth@footnoterule}}
16062
16063
16064
16065 \def\auto@footnoterule{%
16066 \footdir@LeftRightElse%
16067 \left@footnoterule%
16068 \right@footnoterule%
16069 \left@footnoterule%
16070 }
16071
16072
16073
16074 \def\autofootnoterule{%
16075 \bidi@autofootnoteruletrue%
16076 \def\footnoterule{\auto@footnoterule}%
16077 }
16078
16079 \newcommand*{\SplitFootnoteRule}{%
16080 \gdef\split@prev{0}

```



```

16081 \let\pagefootnoterule\footnoterule
16082 \let\mpfootnoterule\footnoterule
16083 \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
16084 \def\footnoterule{\relax
16085   \ifx \@listdepth\@mplistdepth
16086     \mpfootnoterule
16087   \else
16088     \ifnum\split@prev=\z@
16089       \pagefootnoterule
16090     \else
16091       \splitfootnoterule
16092     \fi
16093     \xdef\split@prev{\the\insertpenalties}%
16094   \fi
16095 }%
16096 }
16097
16098
16099
16100
16101 \def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\@mpfn
16102   \protected@xdef\@thefnmark{\thempfn}%
16103   \@footnotemark\@RTLfootnotetext}}
16104 \def\@xRTLfootnote[#1]{%
16105   \begingroup
16106     \csname c@\@mpfn\endcsname #1\relax
16107     \unrestored@protected@xdef\@thefnmark{\thempfn}%
16108   \endgroup
16109   \@footnotemark\@RTLfootnotetext}
16110 \def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\@mpfn
16111   \protected@xdef\@thefnmark{\thempfn}%
16112   \@footnotemark\@LTRfootnotetext}}
16113 \def\@xLTRfootnote[#1]{%
16114   \begingroup
16115     \csname c@\@mpfn\endcsname #1\relax
16116     \unrestored@protected@xdef\@thefnmark{\thempfn}%
16117   \endgroup
16118   \@footnotemark\@LTRfootnotetext}
16119
16120
16121 \def\setfootnoteRL{\@RTL@footnotetrue}
16122 \def\unsetfootnoteRL{\@RTL@footnotefalse}
16123 \def\setfootnoteLR{\unsetfootnoteRL}
16124
16125 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
16126 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}
16127 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
16128
16129 \long\def\@footnotetext#1{\insert\footins{%
16130   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
16131   \reset@font%
16132   \bidi@footnotetext@font% \reset@font\footnotesize
16133   \interlinepenalty\interfootnotelinepenalty
16134   \splittopskip\footnotesep

```



```

16135 \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16136 \hsize\columnwidth \@parboxrestore
16137 \protected@edef\@currentlabel{%
16138 \csname p@footnote\endcsname\@thefnmark
16139 }%
16140 \color@begingroup
16141 \makefnmark{%
16142 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16143 \color@endgroup}}%
16144
16145
16146 \long\def\@RTLfootnotetext#1{\insert\footins{%
16147 \RTLtrue%
16148 \reset@font%
16149 \bidi@RTLfootnotetext@font% \reset@font\footnotesize
16150 \interlinepenalty\interfootnotelinepenalty
16151 \splittopskip\footnotesep
16152 \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16153 \hsize\columnwidth \@parboxrestore
16154 \protected@edef\@currentlabel{%
16155 \csname p@footnote\endcsname\@thefnmark
16156 }%
16157 \color@begingroup
16158 \makefnmark{%
16159 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16160 \color@endgroup}}%
16161
16162 \long\def\@LTRfootnotetext#1{\insert\footins{%
16163 \RTLfalse%
16164 \reset@font%
16165 \bidi@LTRfootnotetext@font% \reset@font\footnotesize
16166 \interlinepenalty\interfootnotelinepenalty
16167 \splittopskip\footnotesep
16168 \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16169 \hsize\columnwidth \@parboxrestore
16170 \protected@edef\@currentlabel{%
16171 \csname p@footnote\endcsname\@thefnmark
16172 }%
16173 \color@begingroup
16174 \makefnmark{%
16175 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16176 \color@endgroup}}%
16177
16178 \AtBeginDocument{%
16179 \if@RTL@footnote
16180 \newcommand*{\bidi@footdir@footnote}{R}
16181 \else
16182 \newcommand*{\bidi@footdir@footnote}{L}
16183 \fi%
16184 }
16185
16186 \footdir@temp\footdir@ORG@bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
16187 \footdir@temp\footdir@ORG@bidi@RTLfootnotetext\@RTLfootnotetext{R}%
16188 \footdir@temp\footdir@ORG@bidi@LTRfootnotetext\@LTRfootnotetext{L}%

```



```

16189
16190 \long\def\@mpRTLfootnotetext#1{%
16191   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@fo
16192   \global\setbox\@mpfootins\vbox{%
16193     \unvbox\@mpfootins
16194     \@RTLtrue
16195     \reset@font%
16196     \bidi@RTLfootnotetext@font% \reset@font\footnotesize
16197     \hsize\columnwidth
16198     \@parboxrestore
16199     \protected@edef\@currentlabel
16200       {\csname p@mpfootnote\endcsname\@thefnmark}%
16201     \color@begingroup
16202       \makefntext{%
16203         \rule\z@{\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16204       \color@endgroup}}
16205 \long\def\@mpLTRfootnotetext#1{%
16206   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footn
16207   \global\setbox\@mpfootins\vbox{%
16208     \unvbox\@mpfootins
16209     \@RTLfalse
16210     \reset@font%
16211     \bidi@LTRfootnotetext@font% \reset@font\footnotesize
16212     \hsize\columnwidth
16213     \@parboxrestore
16214     \protected@edef\@currentlabel
16215       {\csname p@mpfootnote\endcsname\@thefnmark}%
16216     \color@begingroup
16217       \makefntext{%
16218         \rule\z@{\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16219       \color@endgroup}}
16220 \long\def\@mpfootnotetext#1{%
16221   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnot
16222   \global\setbox\@mpfootins\vbox{%
16223     \unvbox\@mpfootins
16224     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
16225     \reset@font%
16226     \bidi@footnotetext@font% \reset@font\footnotesize
16227     \hsize\columnwidth
16228     \@parboxrestore
16229     \protected@edef\@currentlabel
16230       {\csname p@mpfootnote\endcsname\@thefnmark}%
16231     \color@begingroup
16232       \makefntext{%
16233         \rule\z@{\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16234       \color@endgroup}}
16235 \def\@iiiminipage#1#2[#3]#4{%
16236   \leavevmode
16237   \@pboxswfalse
16238   \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
16239   \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi
16240   \setlength\@tempdima{#4}%
16241   \def\@mpargs{{#1}{#2}[#3]{#4}}%
16242   \setbox\@tempboxa\vbox\bgroup

```



```

16243 \color@begingroup
16244 \hsize\@tempdima
16245 \textwidth\hsize \columnwidth\hsize
16246 \@parboxrestore
16247 \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
16248 \let\@footnotetext\@mpfootnotetext
16249 \let\@LTRfootnotetext\@mpLTRfootnotetext
16250 \let\@RTLfootnotetext\@mpRTLfootnotetext
16251 \let\@listdepth\@mplistdepth \@mplistdepth\z@
16252 \@minipagerestore
16253 \@setminipage}
16254 \def\endminipage{%
16255 \par
16256 \unskip
16257 \ifvoid\@mpfootins\else
16258 \vskip\skip\@mpfootins
16259 \normalcolor
16260 \bidi@mpfootnoterule
16261 \unvbox\@mpfootins
16262 \fi
16263 \@minipagefalse %% added 24 May 89
16264 \color@endgroup
16265 \egroup
16266 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
16267 \def\LTRthanks#1{\footnotemark
16268 \protected@xdef\@thanks{\@thanks
16269 \protect\LTRfootnotetext[\the\c@footnote]{#1}}%
16270 }
16271 \def\LTRfootnotetext{%
16272 \@ifnextchar [\@xLTRfootnotenext
16273 {\protected@xdef\@thefnmark{\thempfn}%
16274 \@LTRfootnotetext}}
16275 \def\@xLTRfootnotenext[#1]{%
16276 \begingroup
16277 \csname c@\@mpfn\endcsname #1\relax
16278 \unrestored@protected@xdef\@thefnmark{\thempfn}%
16279 \endgroup
16280 \@LTRfootnotetext}
16281 \def\RTLthanks#1{\footnotemark
16282 \protected@xdef\@thanks{\@thanks
16283 \protect\RTLfootnotetext[\the\c@footnote]{#1}}%
16284 }
16285 \let\@thanks\@empty
16286 \def\RTLfootnotetext{%
16287 \@ifnextchar [\@xRTLfootnotenext
16288 {\protected@xdef\@thefnmark{\thempfn}%
16289 \@RTLfootnotetext}}
16290 \def\@xRTLfootnotenext[#1]{%
16291 \begingroup
16292 \csname c@\@mpfn\endcsname #1\relax
16293 \unrestored@protected@xdef\@thefnmark{\thempfn}%
16294 \endgroup
16295 \@RTLfootnotetext}
16296 \leftfootnoterule

```





## 96 File footnotebackref-xetex-bidi.def

```

16297 \ProvidesFile{footnotebackref-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for footnote]
16298 \LetLtxMacro{\BHFN@OldLTRFootnote}{\LTRfootnote}
16299 \LetLtxMacro{\BHFN@OldRTLFootnote}{\RTLfootnote}
16300
16301 \renewcommand*\LTRfootnote{%
16302   \refstepcounter{BackrefHyperFootnoteCounter}%
16303   \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
16304   \label{\BackrefFootnoteTag}%
16305   \@ifnextchar[\Backref@OptLTRHyperFootnote\Backref@HyperLTRFootnote}
16306
16307 \renewcommand*\RTLfootnote{%
16308   \refstepcounter{BackrefHyperFootnoteCounter}%
16309   \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
16310   \label{\BackrefFootnoteTag}%
16311   \@ifnextchar[\Backref@OptRTLHyperFootnote\Backref@HyperRTLFootnote}
16312 \newcommand\Backref@HyperLTRFootnote[1]{%
16313   \BHFN@OldLTRFootnote{\Backref@HyperSymbol#1}}
16314
16315 \newcommand\Backref@HyperRTLFootnote[1]{%
16316   \BHFN@OldRTLFootnote{\Backref@HyperSymbol#1}}
16317
16318 \newcommand\Backref@OptHyperLTRFootnote[2][\empty]{%
16319   \BHFN@OldLTRFootnote[#1]{\Backref@HyperSymbol#2}}
16320
16321 \newcommand\Backref@OptHyperRTLFootnote[2][\empty]{%
16322   \BHFN@OldRTLFootnote[#1]{\Backref@HyperSymbol#2}}
16323
16324 \bidi@AfterFile{extrafootnotefeatures-xetex-bidi.def}{%
16325 \ifFootnoteBackref@numberlinked
16326 \renewcommand{\footfootmark}{%
16327   \ifdim\footmarkwidth < \z@
16328     \llap{\hb@xt@ -\footmarkwidth{%
16329       \hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16330       \hspace*{-\footmarkwidth}}}%
16331   \else
16332     \ifdim\footmarkwidth = \z@
16333       {\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16334     \else
16335       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
16336     \fi
16337   \fi}
16338 \renewcommand{\LTRfootfootmark}{%
16339   \ifdim\footmarkwidth < \z@
16340     \llap{\hb@xt@ -\footmarkwidth{%
16341       \hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16342       \hspace*{-\footmarkwidth}}}%
16343   \else
16344     \ifdim\footmarkwidth = \z@
16345       {\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16346     \else
16347       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
16348     \fi

```



```

16349 \fi}
16350 \renewcommand{\RTLfootfootmark}{%
16351 \ifdim\footmarkwidth < \z@
16352 \llap{\hb@xt@ -\footmarkwidth{%
16353 \hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16354 \hspace*{-\footmarkwidth}}}%
16355 \else
16356 \ifdim\footmarkwidth = \z@
16357 {\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16358 \else
16359 \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16360 \fi
16361 \fi}
16362 \fi
16363 }

```

## 97 File framed-xetex-bidi.def

```

16364 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for xetex]
16365 \renewcommand\TitleBarFrame[3] [] {\begingroup
16366 \ifx\delimiter#1\delimiter
16367 \let\TF@conlab\@empty
16368 \else
16369 \def\TF@conlab{% continuation label
16370 \nointerlineskip
16371 \smash{\rlap{\kern\wd\@tempboxa\kern\fb@rule\kern\fb@sep #1}}}%
16372 \fi
16373 %\let\TF@savecolor\current@color
16374 \textcolor{TF@FrameColor}{%
16375 \CustomFBox
16376 {\TF@Title{#2}}{\TF@conlab}%
16377 \fb@rule\fb@rule\fb@rule\fb@rule
16378 %{\let\current@color\TF@savecolor\set@color #3}%
16379 {\normalcolor #3}%
16380 }\endgroup
16381 }
16382 \renewenvironment{titled-frame}[1]{%
16383 \def\FrameCommand{\fb@sep8pt\fb@rule2pt
16384 \TitleBarFrame{\textbf{#1}}}%
16385 \def\FirstFrameCommand{\fb@sep8pt\fb@rule2pt
16386 \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1}}}%
16387 \def\MidFrameCommand{\fb@sep8pt\fb@rule2pt
16388 \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1} (cont)}}%
16389 \def\LastFrameCommand{\fb@sep8pt\fb@rule2pt
16390 \TitleBarFrame{\textbf{#1} (cont)}}}%
16391 \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
16392 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
16393 % could interfere with the width measurement.
16394 {\endMakeFramed}
16395 \chardef\FrameRestore=\catcode`\| % for debug
16396 \catcode`\|=\catcode`\% % (debug: insert space after backslash)
16397 \def\fb@put@frame#1#2{\relax
16398 \ifdim\pagegoal=\maxdimen \pagegoal\vsize \fi
16399 | \message{===== Entering putframe =====}~J

```



```

16400 | \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal. }%
16401 | \ifinner
16402 | \fb@putboxa#1%
16403 | \fb@afterframe
16404 | \else
16405 | \dimen@\pagegoal \advance\dimen@-\pagetotal % natural space left on page
16406 | \ifdim\dimen@<2\baselineskip % Too little room on page
16407 | \message{Page has only \the\dimen@\space room left; eject. }%
16408 | \eject \fb@adjheight \fb@put@frame#1#2%
16409 | \else % there's appreciable room left on the page
16410 | \fb@sizeofframe#1%
16411 | \message{\string\pagetotal=\the\pagetotal,
16412 | \string\pagegoal=\the\pagegoal,
16413 | \string\pagestretch=\the\pagestretch,
16414 | \string\pageshrink=\the\pageshrink,
16415 | \string\fb@frh=\the\fb@frh. \space}
16416 | \message{^^JBox of size \the\ht@tempboxa\space}%
16417 | \begingroup % temporarily set \dimen@ to be...
16418 | \advance\dimen@.8\pageshrink % maximum space available on page
16419 | \advance\dimen@-\fb@frh\relax % max space available for frame's contents
16420 |%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
16421 | \expandafter\endgroup
16422 | % expand \ifdim, then restore \dimen@ to real room left on page
16423 | \ifdim\dimen@>\ht@tempboxa % whole box does fit
16424 | \message{fits in \the\dimen@. }%
16425 | % ToDo: Change this to use vsplit anyway to capture the marks
16426 | % MERGE THIS WITH THE else CLAUSE!!!
16427 | \fb@putboxa#1%
16428 | \fb@afterframe
16429 | \else % box must be split
16430 | \message{must be split to fit in \the\dimen@. }%
16431 | % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
16432 | \fb@sizeofframe#2%
16433 | \setbox\@tempboxa\vbox{% simulate frame and flexibility of the page:
16434 | \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
16435 | \kern137sp\kern-137sp\penalty-30
16436 | \unvbox\@tempboxa}%
16437 | \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
16438 | \splittopskip\the\splittopskip}%
16439 | \boxmaxdepth\z@ \splittopskip\z@
16440 | \message{^^JPadded box of size \the\ht@tempboxa\space split to \the\dimen@}%
16441 | % Split box here
16442 | \setbox\tw@\vsplit\@tempboxa to\dimen@
16443 | \toks99\expandafter{\splitfirstmark}%
16444 | \toks98\expandafter{\splitbotmark}%
16445 | \message{Marks are: \the\toks99, \the\toks98. }%
16446 | \setbox\tw@\vbox{\unvbox\tw@}% natural-sized
16447 | \message{Natural height of split box is \the\ht\tw@, leaving
16448 | \the\ht@tempboxa\space remainder. }%
16449 | % If the split-to size > (\vsize-\topskip), then set box to full size.
16450 | \begingroup
16451 | \advance\dimen@\topskip
16452 | \expandafter\endgroup
16453 | \ifdim\dimen@>\pagegoal

```



```

16454 |         \message{Frame is big -- Use up the full column. }%
16455 |         \dimen@ii\pagegoal
16456 |         \advance\dimen@ii -\topskip
16457 |         \advance\dimen@ii \FrameHeightAdjust\relax
16458 |     \else % suspect this is implemented incorrectly:
16459 |         % If the split-to size > feasible room_on_page, rebox it smaller.
16460 |         \advance\dimen@.8\pageshrink
16461 |         \ifdim\ht\tw@>\dimen@
16462 |             \message{Box too tall; rebox it to \the\dimen@. }%
16463 |             \dimen@ii\dimen@
16464 |         \else % use natural size
16465 |             \dimen@ii\ht\tw@
16466 |         \fi
16467 |     \fi
16468 |     % Re-box contents to desired size \dimen@ii
16469 |     \advance\dimen@ii -\fb@frh
16470 |     \setbox\tw@\vbox to\dimen@ii \bgroup
16471 |     % remove simulated frame and page flexibility:
16472 |     \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
16473 |     \unvbox\tw@ \unpenalty\unpenalty
16474 |     \ifdim\lastkern=-137sp % whole box went to next page
16475 |         \message{box split at beginning! }%
16476 |         % need work here???
16477 |         \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
16478 |         \fb@adjheight
16479 |         \fb@put@frame#1#2% INSERTED ???
16480 |     \else % Got material split off at the head
16481 |         \egroup \fb@resto@set
16482 |         \ifvoid\@tempboxa % it all fit after all
16483 |             \message{box split at end! }%
16484 |             \setbox\@tempboxa\box\tw@
16485 |             \fb@putboxa#1%
16486 |             \fb@afterframe
16487 |         \else % it really did split
16488 |             \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
16489 |             \ifdim\wd\tw@>\z@
16490 |                 \wd\tw@\wd\@tempboxa
16491 |                 \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
16492 |             \else
16493 |                 \message{Zero width means likely blank. Don't frame it (guess)}%
16494 |                 \box\tw@
16495 |             \fi
16496 |             \hrule \@height\z@ \@width\hsize
16497 |             \eject
16498 |             \fb@adjheight
16499 |             \fb@put@frame\LastFrameCommand\MidFrameCommand
16500 |         \fi\fi\fi\fi\fi
16501 |     }
16502 | \def\fb@putboxa#1{%
16503 |     \ifvoid\@tempboxa
16504 |         \PackageWarning{framed}{Boxa is void -- discard it. }%
16505 |     \else
16506 |         \message{Frame and place boxa. }%
16507 |         %{\showoutput\showbox\@tempboxa}%

```



```

16508 \centerline{#1{\hboxL{\box\@tempboxa}}}%
16509 \fi
16510 }
16511 \catcode`\|=\FrameRestore
16512 \def\FrameRestore{%
16513 \let\if@nobreak\iffalse
16514 \let\if@noskipsec\iffalse
16515 \let\-\@dischyph
16516 \let'\@acci\let\`\@accii\let\=\@acciii
16517 % \message{FrameRestore:
16518 % \totalleftmargin=\the \totalleftmargin,
16519 % \rightmargin=\the\rightmargin,
16520 % \listdepth=\the\listdepth. }%
16521 % Test if we are in a list (or list-like paragraph)
16522 \ifnum \ifdim\totalleftmargin>\z@ 1\fi
16523 \ifdim\rightmargin>\z@ 1\fi
16524 \ifnum\listdepth>\z@ 1\fi 0>\z@
16525 % \message{In a list: \linewidth=\the\linewidth, \totalleftmargin=\the\totalleftmargin,
16526 % \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
16527 % \labelwidth=\the\labelwidth. }%
16528 \@setminipage % snug fit around the item
16529 % Now try to propagate changes of width from \hsize to list parameters.
16530 % This is deficient, but a more advanced way to indicate modification to text
16531 % dimensions is not (yet) provided; in particular, no separate left/right
16532 % adjustment.
16533 \advance\linewidth-\columnwidth \advance\linewidth\hsize
16534 \parshape\@ne \totalleftmargin \linewidth
16535 \else % Not in list
16536 \linewidth=\hsize
16537 %\message{No list, set \string\linewidth=\the\hsize. }%
16538 \fi
16539 \sloppy
16540 }

```

## 98 File `ftnright-xetex-bidi.def`

```

16541 \ProvidesFile{ftnright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftnright package]
16542
16543 \def\prepare@bidi@copyins{%
16544 \global\bidi@rcol@copyinsskip\skip\@bidi@copyins@
16545 \global\skip\@bidi@copyins@\z@
16546 \global\count\@bidi@copyins@\z@
16547 \global\dimen\@bidi@copyins@\textheight}
16548
16549 \newskip\bidi@rcol@copyinsskip
16550
16551 \def\LTR@outputdblcol{%
16552 \if@firstcolumn
16553 \global\@firstcolumnfalse
16554 \global\setbox\@leftcolumn\copy\@outputbox
16555 \global\count\footins\@m
16556 \global\skip\footins\rcol@footinsskip
16557 \global\count\@bidi@copyins@\@m
16558 \global\skip\@bidi@copyins@\bidi@rcol@copyinsskip

```



```

16559 \splitmaxdepth\maxdimen
16560 \vbadness\maxdimen
16561 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
16562 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
16563 \toks@\expandafter{\topmark}%
16564 \xdef\@firstcoltopmark{\the\toks@}%
16565 \toks@\expandafter{\splitfirstmark}%
16566 \xdef\@firstcolfirstmark{\the\toks@}%
16567 \ifx\@firstcolfirstmark\@empty
16568 \global\let\@setmarks\relax
16569 \else
16570 \gdef\@setmarks{%
16571 \let\firstmark\@firstcolfirstmark
16572 \let\topmark\@firstcoltopmark}%
16573 \fi
16574 \else
16575 \preparefootins
16576 \prepare@bidi@copyins
16577 \global\@firstcolumntrue
16578 \setbox\@outputbox\vbox{%
16579 \hb@xt@\textwidth{%
16580 \hb@xt@\columnwidth{%
16581 \bidi@firstcolumn@status@write%
16582 \box\@leftcolumn \hss}%
16583 \hfil
16584 {\normalcolor\vrule \@width\columnseprule}%
16585 \hfil
16586 \hb@xt@\columnwidth{%
16587 \bidi@lastcolumn@status@write%
16588 \box\@outputbox \hss}}}%
16589 \@combinedblfloats
16590 \@setmarks
16591 \@outputpage
16592 \begingroup
16593 \@dblfloatplacement
16594 \@startdblcolumn
16595 \@whilesw\if@fcolmade \fi{\@outputpage
16596 \@startdblcolumn}%
16597 \endgroup
16598 \fi}%
16599
16600 \def\RTL@outputdblcol{%
16601 \if@firstcolumn
16602 \global\@firstcolumnfalse
16603 \global\setbox\@leftcolumn\copy\@outputbox
16604 \global\count\footins\@m
16605 \global\skip\footins\rcol@footinsskip
16606 \global\count\@bidi@copyins\@m
16607 \global\skip\@bidi@copyins\@bidi@rcol@copyinsskip
16608 \splitmaxdepth\maxdimen
16609 \vbadness\maxdimen
16610 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
16611 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
16612 \toks@\expandafter{\topmark}%

```



```

16613 \xdef\@firstcoltopmark{\the\toks@}%
16614 \toks@\expandafter{\splitfirstmark}%
16615 \xdef\@firstcolfirstmark{\the\toks@}%
16616 \ifx\@firstcolfirstmark\@empty
16617 \global\let\@setmarks\relax
16618 \else
16619 \gdef\@setmarks{%
16620 \let\firstmark\@firstcolfirstmark
16621 \let\topmark\@firstcoltopmark}%
16622 \fi
16623 \else
16624 \preparefootins
16625 \prepare@bidi@copyins
16626 \global\@firstcolumntrue
16627 \setbox\@outputbox\vbox{%
16628 \hb@xt@\textwidth{%
16629 \hskip \columnwidth
16630 \hfil
16631 {\normalcolor\vrule \@width\columnseprule}%
16632 \hfil
16633 \hb@xt@\columnwidth{%
16634 \bidi@firstcolumn@status@write%
16635 \box\@leftcolumn \hss}%
16636 \hskip -\textwidth
16637 \hb@xt@\columnwidth{%
16638 \bidi@lastcolumn@status@write%
16639 \box\@outputbox \hss}%
16640 \hskip \columnsep
16641 \hskip \columnwidth }}%
16642 \@combinedblfloats
16643 \@setmarks
16644 \@outputpage
16645 \begin@group
16646 \@dblfloatplacement
16647 \@startdblcolumn
16648 \@whiles\if@fcolmade \fi{\@outputpage
16649 \@startdblcolumn}%
16650 \end@group
16651 \fi}%
16652
16653 \def\@startcolumn{%
16654 \ifx\@deferlist\@empty
16655 \global\@fcolmadefalse
16656 \global\@colroom\@colht
16657 \else
16658 \ifvoid\footins\else
16659 \ftn@amount\ht\footins
16660 \advance\ftn@amount\dp\footins
16661 \advance\ftn@amount\skip\footins
16662 \fi
16663 \ifvoid\@bidi@copyins\else
16664 \bidi@copyins@amount\ht\@bidi@copyins@
16665 \advance\bidi@copyins@amount\dp\@bidi@copyins@
16666 \advance\bidi@copyins@amount\skip\@bidi@copyins@

```



```

16667 \fi
16668 \global\advance\@colht-\ftn@amount
16669 \global\advance\@colht-\bidi@copyins@amount
16670 \global\@colroom\@colht
16671 \xstartcol
16672 \global\advance\@colht\ftn@amount
16673 \global\advance\@colroom\ftn@amount
16674 \global\advance\@colht\bidi@copyins@amount
16675 \global\advance\@colroom\bidi@copyins@amount
16676 \fi
16677 \if@fcolmade
16678 \setbox\@cclv\box\@outputbox
16679 \@makecol
16680 \else
16681 \ifvoid\footins\else
16682 \insert\footins{\unvbox\footins}\fi
16683 \ifvoid\@bidi@copyins@\else
16684 \insert\@bidi@copyins@{\unvbox\@bidi@copyins@}\fi
16685 \fi}
16686
16687 \newdimen\bidi@copyins@amount
16688
16689 \def\@makecol{\if@firstcolumn
16690 \setbox\@outputbox\box\@cclv
16691 \if@twocolumn \else
16692 \ifvoid\footins \else
16693 \latexerr{ftnright package
16694 used in one-column mode}%
16695 {The ftnright package was designed to
16696 work with LaTeX's standard^^Jtwocolumn
16697 option. It does *not* work with the
16698 multicol package.^^JSo please specify
16699 `twocolumn' in the
16700 \noexpand\documentclass command.}%
16701 \shipout\box\footins \fi
16702 \ifvoid\@bidi@copyins@ \else
16703 \latexerr{ftnright package
16704 used in one-column mode}%
16705 {The ftnright package was designed to
16706 work with LaTeX's standard^^Jtwocolumn
16707 option. It does *not* work with the
16708 multicol package.^^JSo please specify
16709 `twocolumn' in the
16710 \noexpand\documentclass command.}%
16711 \shipout\box\@bidi@copyins@ \fi\fi
16712 \ifnum\insertpenalties>\z@
16713 \latexerr{ftnright package
16714 scrambled footnotes}%
16715 {There is too much footnote material in
16716 the first column and ftnright^^Jis
16717 unable to cope with this.^^JYou need
16718 to reduce the amount to get a properly
16719 formatted page.}%
16720 \fi

```





```

16721 \else
16722 \ifvoid\footins
16723 \ifvoid\@bidi@copyins@
16724 \setbox\@outputbox\box\@cclv
16725 \else
16726 \setbox\@outputbox\vbox
16727 {\ifvoid\@cclv \else
16728 \unvbox\@cclv
16729 \vskip \skip\@bidi@copyins@
16730 \fi
16731 \color@begingroup
16732 \normalcolor
16733 \unvbox \@bidi@copyins@
16734 \color@endgroup}%
16735 \fi
16736 \else
16737 \setbox\@outputbox\vbox
16738 {\ifvoid\@cclv \else
16739 \unvbox\@cclv
16740 \vskip\skip\footins\fi
16741 \color@begingroup
16742 \normalcolor
16743 \footnoterule\unvbox\footins
16744 \color@endgroup
16745 \ifvoid\@bidi@copyins@
16746 \else
16747 \vskip \skip\@bidi@copyins@
16748 \color@begingroup
16749 \normalcolor
16750 \unvbox \@bidi@copyins@
16751 \color@endgroup
16752 \fi
16753 }%
16754 \fi
16755 \fi
16756 \xdef\@freelist{\@freelist\@midlist}%
16757 \global \let \@midlist \@empty
16758 \@combinefloats
16759 \ifvbox\@kludgeins
16760 \@makespecialcolbox
16761 \else
16762 \setbox\@outputbox\vbox to\@colht
16763 {\boxmaxdepth\maxdepth
16764 \@texttop
16765 \@tempdima\dp\@outputbox
16766 \unvbox\@outputbox
16767 \vskip-\@tempdima
16768 \@textbottom}%
16769 \fi
16770 \global\maxdepth\@maxdepth}
16771
16772 \let\leftfootnoterule\@empty
16773 \let\rightfootnoterule\@empty
16774 \let\textwidthfootnoterule\@empty

```



```

16775 \let\autofootnoterule\@empty
16776 \let\footnoterule\@empty
16777 \long\def\@makefnmark#1{\parindent 1em
16778   \noindent\hbox to 2em{}}%
16779   \llap{\@thefnmark\hbox{.}\,\,\,}#1}
16780
16781 \setlength{\skip\@bidi@copyins@}
16782   {10pt plus 5pt minus 3pt}
16783 \AtBeginDocument{\prepare@bidi@copyins}

```

## 99 File graphicx-xetex-bidi.def

```

16784 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx packag
16785 \def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%
16786   \Grot@setangle{#1}%
16787   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL
16788   \Grot@x\z@
16789   \Grot@y\z@
16790   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
16791 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16792   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3
16793   \Grot@x\width \divide\Grot@x\tw@
16794   \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
16795   \setkeys{Grot}{#1}%
16796   \setbox\z@\box@tempboxa
16797   \Grot@setangle{#2}%
16798   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi
16799   \@end@tempboxa}
16800 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16801   \leavevmode
16802   \def\Gscale@x{#1}\def\Gscale@y{#2}%
16803   \setbox\z@\hbox{#3}%
16804   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
16805   \ifdim#2\p@<\z@
16806     \ht\tw@-#2\dp\z@
16807     \dp\tw@-#2\ht\z@
16808   \else
16809     \ht\tw@#2\ht\z@
16810     \dp\tw@#2\dp\z@
16811   \fi
16812   \ifdim#1\p@<\z@
16813     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
16814   \else
16815     \wd\tw@#1\wd\z@
16816     \box\tw@
16817   \fi\ifmmode\else\if@RTL\endL\fi\fi}
16818 \def\Gin@iii[#1,#2][#3,#4]#5{%
16819   \begingroup
16820   \ifmmode\else\if@RTL\beginL\fi\fi
16821   \Gin@bboxtrue
16822   \Gin@defaultbp\Gin@llx{#1}%
16823   \Gin@defaultbp\Gin@lly{#2}%
16824   \Gin@defaultbp\Gin@urx{#3}%
16825   \Gin@defaultbp\Gin@ury{#4}%

```



```

16826 \Gininclude@graphics{#5}%
16827 \ifmmode\else\if@RTL\endL\fi\fi
16828 \endgroup}
16829 \def\Gin@ii[#1]#2{%
16830   \def\@tempa{[]}\def\@tempb{#2}%
16831   \ifx\@tempa\@tempb
16832     \def\@tempa{\Gin@iii[#1] []}%
16833     \expandafter\@tempa
16834   \else
16835     \beginingroup
16836       \ifmmode\else\if@RTL\beginL\fi\fi
16837       \@tempswafalse
16838       \toks@{\Gininclude@graphics{#2}}%
16839       \setkeys{Gin}{#1}%
16840       \Gin@esetsize
16841       \the\toks@
16842       \ifmmode\else\if@RTL\endL\fi\fi
16843     \endgroup
16844   \fi}
16845 \def\reflectbox{\bidiGscale@box-1[1]}
16846 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16847   \leavevmode
16848   \def\Gscale@x{#1}\def\Gscale@y{#2}%
16849   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
16850   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
16851   \ifdim#2\p@<\z@
16852     \ht\tw@-#2\dp\z@
16853     \dp\tw@-#2\ht\z@
16854   \else
16855     \ht\tw@#2\ht\z@
16856     \dp\tw@#2\dp\z@
16857   \fi
16858   \ifdim#1\p@<\z@
16859     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@hss}%
16860   \else
16861     \wd\tw@#1\wd\z@
16862     \box\tw@
16863   \fi\ifmmode\else\if@RTL\endL\fi\fi}
16864 \def\scalebox#1{%
16865   \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}%
16866 \def\resizebox{%
16867   \leavevmode
16868   \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
16869 \def\bidiGscale@@box#1#2#3{%
16870   \let\@tempa\Gin@exclamation
16871   \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
16872   \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
16873   \ifx\@tempb\@tempa
16874     \ifx\@tempc\@tempa
16875       \toks@{\mbox}%
16876     \else
16877       \toks@{\bidiGscale@box@dd{#3}#1}%
16878     \fi
16879   \else

```



```

16880 \ifx\@tempc\@tempa
16881 \toks@{\bidiGscale@box@dd{#2}\width}%
16882 \else
16883 \toks@{\bidiGscale@box@ddd{#2}\width{#3}#1}%
16884 \fi
16885 \fi
16886 \the\toks@}
16887 \long\def\bidiGscale@box@dd#1#2#3{%
16888 \begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\fi}%
16889 \setlength\@tempdima{#1}%
16890 \setlength\@tempdimb{#2}%
16891 \Gscale@div\@tempa\@tempdima\@tempdimb
16892 \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
16893 \end@tempboxa}
16894 \long\def\bidiGscale@box@ddd#1#2#3#4#5{%
16895 \begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\fi}%
16896 \setlength\@tempdima{#1}%
16897 \setlength\@tempdimb{#2}%
16898 \Gscale@div\@tempa\@tempdima\@tempdimb
16899 \setlength\@tempdima{#3}%
16900 \setlength\@tempdimb{#4}%
16901 \Gscale@div\@tempb\@tempdima\@tempdimb
16902 \ifGin@iso
16903 \ifdim\@tempa\p@>\@tempb\p@
16904 \let\@tempa\@tempb
16905 \else
16906 \let\@tempb\@tempa
16907 \fi
16908 \fi
16909 \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
16910 \end@tempboxa}

```

## 100 File geometry-xetex-bidi.def

```

16911 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
16912 \renewcommand*{\Gm@vrules@mpi}{%
16913 \if@RTLmain%
16914 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
16915 \llap{\Gm@vrule}\ignorespaces
16916 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
16917 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
16918 \else%
16919 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
16920 \hskip \textwidth\Gm@vrule\hskip \marginparsep
16921 \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
16922 \renewcommand*{\Gm@vrules@mpii}{%
16923 \if@RTLmain%
16924 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
16925 \hskip \textwidth\Gm@vrule\hskip \marginparsep
16926 \llap{\Gm@vrule}\hfil\Gm@vrule}%
16927 \else%
16928 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
16929 \llap{\Gm@vrule}\ignorespaces
16930 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep

```



```

16931 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
16932 \bidi@patchcmd{\Gm@pageframes}{%
16933     \ifodd\count\z@
16934         \let\@themargin\oddsidemargin
16935     \else
16936         \let\@themargin\evensidemargin
16937     \fi
16938 }{%
16939     \ifodd\count\z@
16940         \if@RTLmain
16941             \let\@themargin\evensidemargin
16942         \else
16943             \let\@themargin\oddsidemargin
16944         \fi
16945     \else
16946         \if@RTLmain
16947             \let\@themargin\oddsidemargin
16948         \else
16949             \let\@themargin\evensidemargin
16950         \fi
16951     \fi
16952 }{}{}

```

## 101 File hvfloat-xetex-bidi.def

```

16953 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package]
16954 \def\do@hvFloat[#1]#2#3{%
16955     \def\hv@shortCap{#1}
16956     \def\hv@longCap{#2}
16957     \def\hv@label{#3}
16958     %\newcommand*{\hvFloat}[5][]{%
16959     % [#1]: keyvalues
16960     % #2: type figure | table | ...
16961     % #3: float contents
16962     % [#4]: short caption
16963     % #5: caption
16964     % #6: label
16965     % \setDefaults%
16966     % \def\@tempa{#1}%
16967     % \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
16968     % \def\@tempa{90}%
16969     \ifx\hvSet@rotAngle\@tempa \setlength{\hvMaxCapWidth}{\textheight}
16970     \else \setlength{\hvMaxCapWidth}{\linewidth}
16971     \fi
16972     %
16973     % First we save the object in \hvObjectBox
16974     %
16975     \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
16976         \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
16977     \else
16978         \savebox{\hvObjectBox}{%
16979             \rotatebox{\hvSet@objectAngle}{%
16980                 \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
16981     \fi

```



```

16982 \setlength{\hvObjectWidth}{\wd\hvObjectBox}
16983 %
16984 % Now we save the caption with its defined \hvCapWidth
16985 %
16986 \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
16987 \else
16988 \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
16989 \else
16990 \setlength{\hvCapWidth}{\hvObjectWidth}
16991 \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
16992 \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
16993 \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
16994 \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
16995 \else
16996 \setlength{\hvCapWidth}{\hvMaxCapWidth}
16997 \fi
16998 \fi
16999 \fi
17000 %
17001 % now we have the object and the caption with the right
17002 % rotated angles saved in boxes
17003 %
17004 \def\fps@figure{\hvSet@floatPos}
17005 \ifhv@nonFloat\begin{group}% Start the nonfloat part
17006 \else \begin{\hv@floatType}% Start the floating environment
17007 \fi%
17008 \saveCaptionSkip% we put this space ourselves
17009 \ifx\hvSet@capAngle\hv@Width % need rotation?
17010 \sbox{\hvCaptionBox}{%
17011 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
17012 \ifhv@nonFloat%
17013 \ifhv@onlyText#2%
17014 \else%
17015 \ifx\hv@floatType\hv@figure
17016 \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
17017 \else
17018 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
17019 \fi
17020 \fi
17021 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
17022 \fi%
17023 \label{#3}%
17024 \end{minipage}%
17025 }%
17026 \else%
17027 \sbox{\hvCaptionBox}{%
17028 \rotatebox{\hvSet@capAngle}{%
17029 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
17030 \ifhv@nonFloat%
17031 \ifhv@onlyText#2%
17032 \else%
17033 \ifx\hv@floatType\hv@figure
17034 \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
17035 \else

```



```

17036      \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
17037      \fi
17038      \fi
17039      \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
17040      \fi%
17041      \label{#3}%
17042      \end{minipage}%
17043      }%
17044      }%
17045      \fi%
17046      %%
17047      \restoreCaptionSkip% save old values
17048      \ifx\hvSet@objectPos\hv@Right\bidiraggedleft%
17049      \else%
17050      \ifx\hvSet@objectPos\hv@Center
17051      \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
17052      \fi%
17053      \fi%
17054      %
17055      % to rotate object and caption together, we save all in another box
17056      % the caption comes first, if its on the left or the top
17057      %
17058      \savebox{\@tempboxa}{%
17059      \ifx\hvSet@capPos\hv@Left % caption on left side
17060      \if@RTL%
17061      \ifx\hvSet@capVPos\hv@Center%
17062      \ifhv@fbox
17063      \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
17064      \else
17065      \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17066      \fi%
17067      \hspace{\hvSet@floatCapSep pt}%
17068      \ifhv@fbox
17069      \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17070      \else
17071      \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
17072      \fi%
17073      \else%
17074      \ifx\hvSet@capVPos\hv@Top
17075      \ifhv@fbox
17076      \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17077      \else
17078      \raisebox{-\height}{\usebox{\hvObjectBox}}%
17079      \fi%
17080      \hspace{\hvSet@floatCapSep pt}%
17081      \ifhv@fbox
17082      \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17083      \else
17084      \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17085      \fi
17086      \else
17087      \ifhv@fbox
17088      \fbox{\usebox{\hvObjectBox}}%
17089      \else

```



```

17090         \usebox{\hvObjectBox}%
17091     \fi
17092     \hspace{\hvSet@floatCapSep pt}%
17093     \ifhv@fbox
17094         \fbox{\usebox{\hvCaptionBox}}%
17095     \else
17096         \usebox{\hvCaptionBox}%
17097     \fi%
17098 \fi%
17099 \fi%
17100 \else% not RTL
17101     \ifx\hvSet@capVPos\hv@Center%
17102         \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17103     \else         \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17104     \fi%
17105     \hspace{\hvSet@floatCapSep pt}% capfloatsep
17106     \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
17107 \else         \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17108 \fi%
17109 \else%
17110     \ifx\hvSet@capVPos\hv@Top % caption at top
17111         \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17112     \else         \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17113     \fi
17114     \hspace{\hvSet@floatCapSep pt}% capfloatsep
17115     \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17116 \else         \raisebox{-\height}{\usebox{\hvObjectBox}}%
17117 \fi%
17118 \else% caption on bottom
17119     \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
17120         \else\usebox{\hvCaptionBox}
17121     \fi%
17122     \hspace{\hvSet@floatCapSep pt}%
17123     \ifhv@fbox\fbox{\usebox{\hvObjectBox}}
17124 \else         \usebox{\hvObjectBox}
17125 \fi%
17126 \fi%
17127 \fi% end of RTL
17128 \fi%
17129 \else
17130     \ifx\hvSet@capPos\hv@Top
17131         \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
17132             \begin{minipage}{\wd\hvCaptionBox}
17133         \else
17134             \begin{minipage}{\wd\hvObjectBox}
17135         \fi
17136         \centering
17137         \ifhv@fbox
17138             \fbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
17139             \fbox{\usebox{\hvObjectBox}}
17140         \else
17141             \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
17142             \usebox{\hvObjectBox}
17143         \fi%

```





```

17144 \end{minipage}
17145 \else
17146 \ifx\hvSet@capPos\hv@Bottom
17147 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
17148 \begin{minipage}{\wd\hvCaptionBox}
17149 \else
17150 \begin{minipage}{\wd\hvObjectBox}
17151 \fi
17152 \centering
17153 \ifhv@fbox
17154 \fbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
17155 \fbox{\usebox{\hvCaptionBox}}
17156 \else
17157 \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
17158 \usebox{\hvCaptionBox}
17159 \fi%
17160 \end{minipage}
17161 \else% the last option: put the caption on the right
17162 \if@RTL%
17163 \ifx\hvSet@capVPos\hv@Center%
17164 \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17165 \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17166 \fi%
17167 \hspace{\hvSet@floatCapSep pt}% capfloatsep
17168 \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
17169 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17170 \fi%
17171 \else%
17172 \ifx\hvSet@capVPos\hv@Top % caption at top
17173 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17174 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17175 \fi
17176 \hspace{\hvSet@floatCapSep pt}% capfloatsep
17177 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17178 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
17179 \fi%
17180 \else% caption on bottom
17181 \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
17182 \else\usebox{\hvCaptionBox}
17183 \fi%
17184 \hspace{\hvSet@floatCapSep pt}%
17185 \ifhv@fbox\fbox{\usebox{\hvObjectBox}}
17186 \else \usebox{\hvObjectBox}
17187 \fi%
17188 \fi%
17189 \fi%
17190 \else% not RTL
17191 \ifx\hvSet@capVPos\hv@Center%
17192 \ifhv@fbox
17193 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
17194 \else
17195 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17196 \fi%
17197 \hspace{\hvSet@floatCapSep pt}%

```



```

17198 \ifhv@fbox
17199 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17200 \else
17201 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
17202 \fi%
17203 \else%
17204 \ifx\hvSet@capVPos\hv@Top
17205 \ifhv@fbox
17206 \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17207 \else
17208 \raisebox{-\height}{\usebox{\hvObjectBox}}%
17209 \fi%
17210 \hspace{\hvSet@floatCapSep pt}%
17211 \ifhv@fbox
17212 \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17213 \else
17214 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17215 \fi
17216 \else
17217 \ifhv@fbox
17218 \fbox{\usebox{\hvObjectBox}}%
17219 \else
17220 \usebox{\hvObjectBox}%
17221 \fi
17222 \hspace{\hvSet@floatCapSep pt}%
17223 \ifhv@fbox
17224 \fbox{\usebox{\hvCaptionBox}}%
17225 \else
17226 \usebox{\hvCaptionBox}%
17227 \fi%
17228 \fi%
17229 \fi
17230 \fi% end of RTL
17231 \fi
17232 \fi
17233 \fi
17234 }% End savebox Object and caption
17235 %
17236 % now we rotate the object and caption, if needed
17237 %
17238 \ifx\hvSet@rotAngle\hv@Zero
17239 \usebox{\@tempboxa}
17240 \else
17241 \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
17242 \fi
17243 \ifhv@nonFloat
17244 \ifx\hvSet@objectPos\hv@Center
17245 \ifhv@nonFloat
17246 \hspace{\fill}
17247 \fi
17248 \fi
17249 \endgroup% End the nonfloat part
17250 \else
17251 \end{\hv@floatType}% End the floating environment

```



```

17252 \fi
17253 }

```

## 102 File hyperref-xetex-bidi.def

```

17254 \ProvidesFile{hyperref-xetex-bidi.def}[2018/11/11 v1.1 bidi adaptations for hyperref packag
17255 \AtBeginDocument{%
17256 \def\contentsline#1#2#3#4{%
17257   \ifx\#4\%
17258     \csname l@#1\endcsname{#2}{#3}%
17259   \else
17260     \ifcase\Hy@linktoc % none
17261       \csname l@#1\endcsname{#2}{#3}%
17262     \or % section
17263       \csname l@#1\endcsname{%
17264         \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
17265         }{#3}%
17266     \or % page
17267       \csname l@#1\endcsname{{#2}}{%
17268         \hyper@linkstart{link}{#4}{#3}\hyper@linkend
17269       }%
17270     \else % all
17271       \csname l@#1\endcsname{%
17272         \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
17273       }{%
17274         \hyper@linkstart{link}{#4}{#3}\hyper@linkend
17275       }%
17276     \fi
17277   \fi
17278 }
17279 \ifHy@hyperfootnotes
17280   \let\H@@footnotetext\@footnotetext
17281   \let\HRTL@RTLfootnotetext\@RTLfootnotetext
17282   \let\HLTR@LTRfootnotetext\@LTRfootnotetext
17283   \def\@xfootnotenext[#1]{%
17284     \begingroup
17285       \csname c@#1\endcsname #1\relax
17286       \unrestored@protected@xdef\@thefnmark{\thempfn}%
17287     \endgroup
17288     \ifx\@footnotetext\@mpfootnotetext
17289       \expandafter\H@@mpfootnotetext
17290     \else
17291       \expandafter\H@@footnotetext
17292     \fi
17293   }%
17294   \def\@xRTLfootnotenext[#1]{%
17295     \begingroup
17296       \csname c@#1\endcsname #1\relax
17297       \unrestored@protected@xdef\@thefnmark{\thempfn}%
17298     \endgroup
17299     \ifx\@RTLfootnotetext\@mpRTLfootnotetext
17300       \expandafter\HRTL@mpRTLfootnotetext
17301     \else
17302       \expandafter\HRTL@RTLfootnotetext

```



```

17303 \fi
17304 }%
17305 \def\xLTRfootnotenext[#1]{%
17306 \begingroup
17307 \csname c@\mpfn\endcsname #1\relax
17308 \unrestored@protected@xdef\thefnmark{\thempfn}%
17309 \endgroup
17310 \ifx\xLTRfootnotetext\mpLTRfootnotetext
17311 \expandafter\HLTR@\mpLTRfootnotetext
17312 \else
17313 \expandafter\HLTR@\xLTRfootnotetext
17314 \fi
17315 }%
17316 \def\xfootnotemark[#1]{%
17317 \begingroup
17318 \c@footnote #1\relax
17319 \unrestored@protected@xdef\thefnmark{\thefootnote}%
17320 \endgroup
17321 \H@@footnotemark
17322 }%
17323 \let\H@@mpfootnotetext\mpfootnotetext
17324 \let\HRTL@\mpRTLfootnotetext\mpRTLfootnotetext
17325 \let\HLTR@\mpLTRfootnotetext\mpLTRfootnotetext
17326 \long\def\@mpfootnotetext#1{%
17327 \H@@mpfootnotetext{%
17328 \ifHy@nesting
17329 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17330 \else
17331 \Hy@raisedlink{%
17332 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17333 }#1%
17334 \fi
17335 }%
17336 }%
17337 \long\def\@mpRTLfootnotetext#1{%
17338 \HRTL@\mpRTLfootnotetext{%
17339 \ifHy@nesting
17340 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17341 \else
17342 \Hy@raisedlink{%
17343 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17344 }#1%
17345 \fi
17346 }%
17347 }%
17348 \long\def\@mpLTRfootnotetext#1{%
17349 \HLTR@\mpLTRfootnotetext{%
17350 \ifHy@nesting
17351 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17352 \else
17353 \Hy@raisedlink{%
17354 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17355 }#1%
17356 \fi

```



```

17357 }%
17358 }%
17359 \long\def\@footnotetext#1{%
17360 \H@@footnotetext{%
17361 \ifHy@nesting
17362 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17363 \else
17364 \Hy@raisedlink{%
17365 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17366 }%
17367 \let\@currentHlabel\Hy@footnote@currentHlabel
17368 \let\@currentHref\Hy@footnote@currentHref
17369 \let\@currentlabelname\@empty
17370 #1%
17371 \fi
17372 }%
17373 }%
17374 \long\def\@RTLfootnotetext#1{%
17375 \HRTL@RTLfootnotetext{%
17376 \ifHy@nesting
17377 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17378 \else
17379 \Hy@raisedlink{%
17380 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17381 }%
17382 \let\@currentHlabel\Hy@footnote@currentHlabel
17383 \let\@currentHref\Hy@footnote@currentHref
17384 \let\@currentlabelname\@empty
17385 #1%
17386 \fi
17387 }%
17388 }%
17389 \long\def\@LTRfootnotetext#1{%
17390 \HLTR@LTRfootnotetext{%
17391 \ifHy@nesting
17392 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17393 \else
17394 \Hy@raisedlink{%
17395 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17396 }%
17397 \let\@currentHlabel\Hy@footnote@currentHlabel
17398 \let\@currentHref\Hy@footnote@currentHref
17399 \let\@currentlabelname\@empty
17400 #1%
17401 \fi
17402 }%
17403 }%
17404 \@ifpackageloaded{tabularx}{%
17405 \let\HyOrg@TX@endtabularx\TX@endtabularx
17406 \def\Hy@tabularx@hook{%
17407 \let\@footnotetext\H@@footnotetext
17408 \let\@LTRfootnotetext\HLTR@LTRfootnotetext
17409 \let\@RTLfootnotetext\HRTL@RTLfootnotetext
17410 \let\@footnotemark\H@@footnotemark

```



```

17411 \let\@mpfootnotetext\H@mpfootnotetext
17412 \let\@mpLTRfootnotetext\HLTR@mpLTRfootnotetext
17413 \let\@mpRTLfootnotetext\HRTL@mpRTLfootnotetext
17414 }%
17415 \begingroup
17416 \toks@{\expandafter{\TX@endtabularx}}%
17417 \xdef\Hy@gtemp{%
17418 \noexpand\Hy@tabularx@hook
17419 \the\toks@
17420 }%
17421 \endgroup
17422 \let\TX@endtabularx\Hy@gtemp
17423 }{}%
17424 \@ifpackageloaded{longtable}{%
17425 \CheckCommand*{\LT@p@LTRftntext}[1]{%
17426 \edef\@tempa{%
17427 \the\LT@p@ftn
17428 \noexpand\LTRfootnotetext[\the\c@footnote]}%
17429 }%
17430 \global\LT@p@ftn\expandafter{\@tempa{#1}}%
17431 }%
17432 \long\def\LT@p@LTRftntext#1{%
17433 \edef\@tempa{%
17434 \the\LT@p@ftn
17435 \begingroup
17436 \noexpand\c@footnote=\the\c@footnote\relax
17437 \noexpand\protected@xdef\noexpand\@thefnmark{%
17438 \noexpand\thempfn
17439 }%
17440 \noexpand\Hy@LT@LTRfootnotetext{%
17441 \Hy@footnote@currentHref
17442 }%
17443 }%
17444 \global\LT@p@ftn\expandafter{%
17445 \@tempa{#1}%
17446 \endgroup
17447 }%
17448 }%
17449 \long\def\Hy@LT@LTRfootnotetext#1#2{%
17450 \HLTR@@LTRfootnotetext{%
17451 \ifHy@nesting
17452 \hyper@@anchor{#1}{#2}%
17453 \else
17454 \Hy@raisedlink{%
17455 \hyper@@anchor{#1}{\relax}%
17456 }%
17457 \def\@currentHref{#1}%
17458 \let\@currentlabelname\@empty
17459 #2%
17460 \fi
17461 }%
17462 }%
17463 \CheckCommand*{\LT@p@RTLftntext}[1]{%
17464 \edef\@tempa{%

```



```

17465         \the\LT@p@ftn
17466         \noexpand\RTLfootnotetext[\the\c@footnote]%
17467     }%
17468     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
17469 }%
17470 \long\def\LT@p@RTLftntext#1{%
17471     \edef\@tempa{%
17472         \the\LT@p@ftn
17473         \begingroup
17474         \noexpand\c@footnote=\the\c@footnote\relax
17475         \noexpand\protected@xdef\noexpand\@thefnmark{%
17476             \noexpand\thempfn
17477         }%
17478         \noexpand\Hy@LT@RTLfootnotetext{%
17479             \Hy@footnote@currentHref
17480         }%
17481     }%
17482     \global\LT@p@ftn\expandafter{%
17483         \@tempa{#1}%
17484     \endgroup
17485 }%
17486 }%
17487 \long\def\Hy@LT@RTLfootnotetext#1#2{%
17488     \HRTL@RTLfootnotetext{%
17489         \ifHy@nesting
17490             \hyper@@anchor{#1}{#2}%
17491         \else
17492             \Hy@raisedlink{%
17493                 \hyper@@anchor{#1}{\relax}%
17494             }%
17495             \def\@currentHref{#1}%
17496             \let\@currentlabelname\@empty
17497             #2%
17498         \fi
17499     }%
17500 }%
17501 }{%
17502     \@ifpackageloaded{bidipoem}{%
17503         \long\def\bidipoem@p@ftntext#1{%
17504             \edef\@tempx{%
17505                 \the\bidipoem@p@ftn
17506                 \begingroup
17507                 \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17508                 \noexpand\protected@xdef\noexpand\@thefnmark{%
17509                     \noexpand\thempfn
17510                 }%
17511                 \noexpand\Hy@bidipoem@footnotetext{%
17512                     \Hy@footnote@currentHref
17513                 }%
17514             }%
17515             \global\bidipoem@p@ftn\expandafter{%
17516                 \@tempx{#1}%
17517             \endgroup
17518         }%

```



```

17519 }%
17520 \long\def\Hy@bidipoem@footnotetext#1#2{%
17521   \H@@footnotetext{%
17522     \ifHy@nesting
17523       \hyper@@anchor{#1}{#2}%
17524     \else
17525       \Hy@raisedlink{%
17526         \hyper@@anchor{#1}{\relax}%
17527       }%
17528       \def\@currentHref{#1}%
17529       \let\@currentlabelname\@empty
17530       #2%
17531     \fi
17532   }%
17533 }%
17534 \long\def\bidipoem@p@LTRftntext#1{%
17535   \edef\@tempxi{%
17536     \the\bidipoem@p@ftn
17537     \begingroup
17538       \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17539       \noexpand\protected@xdef\noexpand\@thefnmark{%
17540         \noexpand\thempfn
17541       }%
17542       \noexpand\Hy@bidipoem@LTRfootnotetext{%
17543         \Hy@footnote@currentHref
17544       }%
17545     }%
17546     \global\bidipoem@p@ftn\expandafter{%
17547       \@tempxi{#1}%
17548     \endgroup
17549   }%
17550 }%
17551 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
17552   \HLTR@@LTRfootnotetext{%
17553     \ifHy@nesting
17554       \hyper@@anchor{#1}{#2}%
17555     \else
17556       \Hy@raisedlink{%
17557         \hyper@@anchor{#1}{\relax}%
17558       }%
17559       \def\@currentHref{#1}%
17560       \let\@currentlabelname\@empty
17561       #2%
17562     \fi
17563   }%
17564 }%
17565 \long\def\bidipoem@p@RTLftntext#1{%
17566   \edef\@tempxi{%
17567     \the\bidipoem@p@ftn
17568     \begingroup
17569       \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17570       \noexpand\protected@xdef\noexpand\@thefnmark{%
17571         \noexpand\thempfn
17572       }%

```





```

17573         \noexpand\Hy@bidipoem@RTLfootnotetext{%
17574             \Hy@footnote@currentHref
17575         }%
17576     }%
17577     \global\bidipoem@p@ftn\expandafter{%
17578         \@tempxi{#1}%
17579     \endgroup
17580     }%
17581 }%
17582 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
17583     \HRTL@RTLfootnotetext{%
17584         \ifHy@nesting
17585             \hyper@@anchor{#1}{#2}%
17586         \else
17587             \Hy@raisedlink{%
17588                 \hyper@@anchor{#1}{\relax}%
17589             }%
17590             \def\@currentHref{#1}%
17591             \let\@currentlabelname\@empty
17592             #2%
17593         \fi
17594     }%
17595 }%
17596 }{}%
17597 \let\HyOrg@maketitle\maketitle
17598 \def\maketitle{%
17599     \let\Hy@saved@footnotemark\@footnotemark
17600     \let\Hy@saved@footnotetext\@footnotetext
17601     \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
17602     \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
17603     \let\@footnotemark\H@@footnotemark
17604     \let\@footnotetext\H@@footnotetext
17605     \let\@RTLfootnotetext\HRTL@RTLfootnotetext
17606     \let\@LTRfootnotetext\HLTR@LTRfootnotetext
17607     \@ifnextchar[\Hy@maketitle@optarg{%
17608         \HyOrg@maketitle
17609         \Hy@maketitle@end
17610     }%
17611 }%
17612 \def\Hy@maketitle@optarg[#1]{%
17613     \HyOrg@maketitle[{#1}]%
17614     \Hy@maketitle@end
17615 }%
17616 \def\Hy@maketitle@end{%
17617     \ifx\@footnotemark\H@@footnotemark
17618         \let\@footnotemark\Hy@saved@footnotemark
17619     \fi
17620     \ifx\@footnotetext\H@@footnotetext
17621         \let\@footnotetext\Hy@saved@footnotetext
17622     \fi
17623     \ifx\@RTLfootnotetext\HRTL@RTLfootnotetext
17624         \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
17625     \fi
17626     \ifx\@LTRfootnotetext\HLTR@LTRfootnotetext

```



```

17627     \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
17628     \fi
17629   }%
17630   \def\realfootnote{%
17631     \@ifnextchar[\@xfootnote{%
17632       \stepcounter{\@mpfn}%
17633       \protected@xdef\@thefnmark{\thempfn}%
17634       \H@@footnotemark\H@@footnotetext
17635     }%
17636   }%
17637   \fi
17638   \def\Hy@BeginAnnot#1{%
17639     \ifmmode\else\beginL\fi%
17640     \global\advance\c@Hy@AnnotLevel\@ne
17641     \ifnum\c@Hy@AnnotLevel=\@ne
17642       #1%
17643     \fi
17644   }
17645   \def\Hy@endAnnot{%
17646     \ifnum\c@Hy@AnnotLevel=\@ne
17647       \Hy@endcolorlink
17648       \@pdfm@mark{eann}%
17649     \fi
17650     \global\advance\c@Hy@AnnotLevel\m@ne
17651     \ifmmode\else\endL\fi%
17652   }
17653   \def\hyper@link#1#2#3{%
17654     \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi
17655   }
17656   \def\hyper@linkfile#1#2#3{%
17657     \leavevmode
17658     \Hy@BeginAnnot{%
17659       \def\Hy@pstringF{#2}%
17660       \Hy@CleanupFile\Hy@pstringF
17661       \Hy@pstringdef\Hy@pstringF\Hy@pstringF
17662       \Hy@pstringdef\Hy@pstringD{#3}%
17663       \Hy@MakeRemoteAction
17664       \@pdfm@mark{%
17665         bann<<%
17666         /Type/Annot%
17667         /Subtype/Link%
17668         \ifHy@pdfa /F 4\fi
17669         \Hy@setpdfborder
17670         \ifx\@filebordercolor\relax
17671         \else
17672           /C[\@filebordercolor]%
17673         \fi
17674         /A<<%
17675         /S/GoToR%
17676         /F(\Hy@pstringF)%
17677         /D%
17678         \ifx\@#3\%
17679           [\Hy@href@page\@pdfremotestartview]%
17680         \else

```



```

17681         (\Hy@pstringD)%
17682     \fi
17683     \Hy@SetNewWindow
17684     \Hy@href@nextactionraw
17685     >>%
17686     >>%
17687 }%
17688 \Hy@colorlink\@filecolor
17689 }%
17690 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17691 \Hy@endAnnot
17692 }
17693 \def\@hyper@launch run:#1\#2#3{% filename, anchor text linkname
17694 \leavevmode
17695 \Hy@BeginAnnot{%
17696 \Hy@pstringdef\Hy@pstringF{#1}%
17697 \Hy@pstringdef\Hy@pstringP{#3}%
17698 \@pdfm@mark{%
17699     bann<<%
17700     /Type/Annot%
17701     /Subtype/Link%
17702     \ifHy@pdfa /F 4\fi
17703     \Hy@setpdfborder
17704     \ifx\@runbordercolor\relax
17705     \else
17706     /C[\@runbordercolor]%
17707     \fi
17708     /A<<%
17709     /F(\Hy@pstringF)%
17710     /S/Launch%
17711     \Hy@SetNewWindow
17712     \ifx\#3\%
17713     \else
17714     /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
17715     \fi
17716     \Hy@href@nextactionraw
17717     >>%
17718     >>%
17719 }%
17720 \Hy@colorlink\@runcolor
17721 }%
17722 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17723 \Hy@endAnnot
17724 }
17725 \def\hyper@linkurl#1#2{%
17726 \leavevmode
17727 \Hy@BeginAnnot{%
17728 \Hy@pstringdef\Hy@pstringURI{#2}%
17729 \@pdfm@mark{%
17730     bann<<%
17731     /Type/Annot%
17732     /Subtype/Link%
17733     \ifHy@pdfa /F 4\fi
17734     \Hy@setpdfborder

```



```

17735     \ifx\@urlbordercolor\relax
17736     \else
17737         /C[\@urlbordercolor]%
17738     \fi
17739     /A<<%
17740     /S/URI%
17741     /URI(\Hy@pstringURI)%
17742     \ifHy@href@ismap
17743         /IsMap true%
17744     \fi
17745     \Hy@href@nextactionraw
17746     >>%
17747     >>%
17748     }%
17749     \Hy@colorlink\@urlcolor
17750 }%
17751 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17752 \Hy@EndAnnot
17753 }
17754 \def\Acrobatmenu#1#2{%
17755     \Hy@Acrobatmenu{#1}{#2}{%
17756         \Hy@BeginAnnot{%
17757             \EdefEscapeName\Hy@temp@menu{#1}%
17758             \@pdfm@mark{%
17759                 bann<<%
17760                 /Type/Annot%
17761                 /Subtype/Link%
17762                 \ifHy@pdfa /F 4\fi
17763                 \Hy@setpdfborder
17764                 \ifx\@menubordercolor\relax
17765                     \else
17766                         /C[\@menubordercolor]%
17767                     \fi
17768                 /A<<%
17769                 /S/Named%
17770                 /N/\Hy@temp@menu
17771                 \Hy@href@nextactionraw
17772                 >>%
17773                 >>%
17774                 }%
17775                 \Hy@colorlink\@menucolor
17776             }%
17777             \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17778             \Hy@EndAnnot
17779         }%
17780     }
17781 \def\hyper@natlinkstart#1{%
17782     \Hy@backout{#1}%
17783     \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
17784     \def\hyper@nat@current{#1}%
17785 }
17786 \def\hyper@natlinkend{%
17787     \if@RTL\endR\fi\hyper@linkend
17788 }

```



```

17789 \def\hyper@natlinkbreak#1#2{%
17790   \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
17791 }%
17792 }
17793 \pdfstringdefDisableCommands{%
17794   \let\LRE\@firstofone
17795   \let\LR\@firstofone
17796   \let\RLE\@firstofone
17797   \let\RL\@firstofone
17798   \def\XeTeX{Xe\TeX}%
17799   \def\XeLaTeX{Xe\LaTeX}%
17800 }
17801 \@ifpackageloaded{longtable}{%
17802   \begingroup
17803     \def\y{\LT@array}%
17804     \@ifundefined{scr@LT@array}{%
17805       \@ifundefined{adl@LT@array}{%}{\def\y{\adl@LT@array}}}%
17806     }{\def\y{\scr@LT@array}}%
17807     \long\def\x\refstepcounter#1#2\@sharp#3#4\@nil{%
17808       \expandafter\endgroup
17809       \expandafter\def\y[##1]##2{%
17810         \H@refstepcounter{#1}%
17811         \hyper@makecurrent{table}%
17812         \let\Hy@LT@currentHref\@currentHref
17813         #2\@sharp####4%
17814       }%
17815     }%
17816     \expandafter\expandafter\expandafter\x\y[##1][##2]\@nil
17817   \begingroup
17818     \def\x#1\ifvoid\LT@foot#2\fi#3\@nil{%
17819       \endgroup
17820       \def\LT@start{%
17821         #1%
17822         \ifvoid\LT@foot#2\fi
17823         \let\@currentHref\Hy@LT@currentHref
17824         \Hy@raisedlink{%
17825           \hyper@anchorstart{\@currentHref}\hyper@anchorend
17826         }%
17827         #3%
17828       }%
17829     }%
17830   \expandafter\x\LT@start\@nil
17831 }{}
17832 \bidi@patchcmd\@TextField{%
17833   \@pdfmark
17834 }{}%
17835   \if@RTL
17836     \hskip\Fld@width
17837   \fi
17838   \@pdfmark
17839 }{}{}
17840 \bidi@patchcmd\@TextField{%
17841   \unhbox
17842 }{}%

```



```

17843 \if@RTL
17844 \hskip-\Fld@width
17845 \fi
17846 \unhbox
17847 }{}{}
17848 \bidi@patchcmd\@@Radio{%
17849 \@pdfm@mark
17850 }{%
17851 \if@RTL
17852 \hskip\Fld@width
17853 \fi
17854 \@pdfm@mark
17855 }{}{}
17856 \bidi@patchcmd\@@Radio{%
17857 \unhcopy
17858 }{%
17859 \if@RTL
17860 \hskip-\Fld@width
17861 \fi
17862 \unhcopy
17863 }{}{}
17864 \bidi@patchcmd\@Submit{%
17865 \@pdfm@mark
17866 }{%
17867 \if@RTL
17868 \null
17869 \hskip\wd\pdfm@box
17870 \fi
17871 \@pdfm@mark
17872 }{}{}
17873 \bidi@patchcmd\@Submit{%
17874 \unhbox
17875 }{%
17876 \if@RTL
17877 \hskip-\wd\pdfm@box
17878 \fi
17879 \unhbox
17880 }{}{}
17881 \bidi@patchcmd\@Reset{%
17882 \@pdfm@mark
17883 }{%
17884 \if@RTL
17885 \null
17886 \hskip\wd\pdfm@box
17887 \fi
17888 \@pdfm@mark
17889 }{}{}
17890 \bidi@patchcmd\@Reset{%
17891 \unhbox
17892 }{%
17893 \if@RTL
17894 \hskip-\wd\pdfm@box
17895 \fi
17896 \unhbox

```



17897 }{}{}

## 103 File imspdoc-xetex-bidi.def

```
17898 \ProvidesFile{imspdoc-xetex-bidi.def}[2017/06/09 v0.1 bidi adaptations for imspdoc class fo
17899 \newenvironment{thebibliography}[1]{%
17900   \@bibtitlestyle
17901   \normalfont\bibliofont\labelsep .5em\relax
17902   \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\empty
17903   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17904   \bidi@thebibliography@font@hook
17905   \list{\@biblabel{\theenumiv}}{\settoheight\labelwidth{\@biblabel{#1}}%
17906     \leftmargin\labelwidth \advance\leftmargin\labelsep
17907     \usecounter{enumiv}}%
17908   \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
17909   \sfcode\.\=\@m
17910 }{%
17911   \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
17912   \endlist
17913 }
17914
17915 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
17916   \columnseprule\z@ \columnsep 35\p@
17917   \@indextitlestyle
17918   \thispagestyle{plain}%
17919   \let\item\@idxitem
17920   \parindent\z@ \parskip\z@\@plus.3\p@\relax
17921   \if@RTL\raggedleft\else\raggedright\fi
17922   \hyphenpenalty\@M
17923   \footnotesize}
17924 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
17925 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
17926 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
17927
17928 \def\right@footnoterule{%
17929   \kern-.4\p@
17930   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
17931   \kern11\p@\kern-\footnotesep}
17932 \def\left@footnoterule{\kern-.4\p@
17933   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
17934 \def\@makefnmark{%
17935   \leavevmode
17936   \raise.9ex\hbox{\fontsize\sfsize\z@\normalfont\@thefnmark}}
17937 }
17938
17939 \def\part{\@startsection{part}{0}%
17940   \z@\{\linespacing\@plus\linespacing\}.5\linespacing}%
17941   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
17942 \def\@tocline#1#2#3#4#5#6#7{\relax
17943   \ifnum #1>\c@tocdepth % then omit
17944   \else
17945     \par \addpenalty\@secpenalty\addvspace{#2}%
17946     \begingroup \hyphenpenalty\@M
17947     \@ifempty{#4}{%
```



```

17948      \@tempdima\csname r@tocindent\number#1\endcsname\relax
17949    }{%
17950      \@tempdima#4\relax
17951    }%
17952    \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else
17953    \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
17954    #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
17955    \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
17956    \nobreak
17957    \endgroup
17958  \fi}
17959 \renewcommand\thesubsection    {\thesection\@SepMark\arabic{subsection}}
17960 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
17961 \renewcommand\theparagraph    {\thesubsubsection\@SepMark\arabic{paragraph}}
17962 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
17963 \def\maketitle{\par
17964   \@topnum\z@ % this prevents figures from falling at the top of page 1
17965   \@setcopyright
17966   \thispagestyle{firstpage}% this sets first page specifications
17967   \uppercase\nonmath\shorttitle
17968   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
17969   \else \andify\shortauthors
17970   \fi
17971   \@maketitle@hook
17972   \begingroup
17973   \@maketitle
17974   \toks@{\xp{\shortauthors}\@temptokena\xp{\shorttitle}}%
17975   \toks4{\def\{\ \ignorespaces}\}% defend against questionable usage
17976   \edef\@tempa{%
17977     \@nx\markboth{\the\toks4
17978       \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
17979   \@tempa
17980   \endgroup
17981   \c@footnote\z@
17982   \@cleartopmattertags
17983 }

```

## 104 File leqno-xetex-bidi.def

```

17984 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX]
17985 \renewcommand\@eqnnum{\hbxt@.01\p{}}%
17986      \rlap{\hskip -\displaywidth
17987      {\normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR}}

```

## 105 File letter-xetex-bidi.def

```

17988 \ProvidesFile{letter-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for standard letter class]
17989 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
17990   \thispagestyle{firstpage}%
17991   {\if@RTL\raggedright\else\raggedleft\fi\@date\par}}%
17992 \else % home address
17993   \thispagestyle{empty}%
17994   {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}{l@{}}
17995     \fromaddress \*[2\parskip}%

```





```

17996      \@date \end{tabular}\par}%
17997      \fi
17998      \vspace{2\parskip}%
17999      {\if@RTL\raggedleft\else\raggedright\fi \toname \ \ toaddress \par}%
18000      \vspace{2\parskip}%
18001      #1\par\nobreak}
18002 \renewcommand\left@footnoterule{%
18003   \kern-\p@
18004   \hrule \@width .4\columnwidth
18005   \kern .6\p@}
18006 \renewcommand\right@footnoterule{%
18007   \kern-\p@
18008   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
18009   \kern .6\p@}

```

## 106 File lettrine-xetex-bidi.def

```

18010 \ProvidesFile{lettrine-xetex-bidi.def}[2024/12/08 v0.9 bidi adaptations for lettrine packag
18011 \RemoveFromHook{begindocument}[lettrine]
18012 \AtBeginDocument[lettrine]{%
18013   \if\DefaultOptionsFile\relax
18014   \else
18015     \InputIfFileExists{\DefaultOptionsFile}%
18016     {}%
18017     {\PackageWarning{lettrine.sty}%
18018       {File \DefaultOptionsFile\space not found}%
18019     }%
18020   \fi
18021   \let\ifL@RTL\if@RTL
18022 }

```

## 107 File lineno-xetex-bidi.def

```

18023 \ProvidesFile{lineno-xetex-bidi.def}[2024/12/07 v0.3 bidi adaptations for lineno package fo
18024 \bidi@patchcmd{\MakeLineNo}{%
18025   \hb@xt@\z@{\makeLineNumber}%
18026 }{%
18027   \hboxL to \z@{\makeLineNumber}%
18028 }{}{}
18029
18030 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{%
18031   \if@RTL
18032     \hb@xt@\linewidthwidth{\LineNumber\hss}%
18033   \else
18034     \LineNumber
18035   \fi
18036 }{}{}
18037
18038 \bidi@patchcmd{\makeLineNumberRight}{%
18039   \hb@xt@\linewidthwidth{\hss\LineNumber}%
18040 }{%
18041   \if@RTL
18042     \LineNumber
18043   \else

```



```

18044 \hb@xt@\linenumberwidth{\hss\LineNumber}%
18045 \fi
18046 }{}{}
18047
18048 \bidi@AfterPreamble{%
18049 \if@RTLmain
18050 \rightlinenumbers*
18051 \else
18052 \leftlinenumbers*
18053 \fi
18054 \@ifpackagewith{lineno}{left}{%
18055 \leftlinenumbers*
18056 }{}
18057 \@ifpackagewith{lineno}{right}{%
18058 \rightlinenumbers*
18059 }{}
18060 \@ifpackagewith{lineno}{switch}{%
18061 \if@RTLmain
18062 \switchlinenumbers*%
18063 \else
18064 \switchlinenumbers
18065 \fi
18066 }{}
18067 \@ifpackagewith{lineno}{switch*}{%
18068 \if@RTLmain
18069 \switchlinenumbers
18070 \else
18071 \switchlinenumbers*%
18072 \fi
18073 }{}
18074 }
18075

```

## 108 File listings-xetex-bidi.def

```

18076 \ProvidesFile{listings-xetex-bidi.def}[2018/09/15 v1.5 bidi adaptations for listings package]
18077 \lst@Key{captiondirection}{textdirection}{%
18078 \lstKV@SwitchCases{#1}%
18079 {textdirection:\\%
18080 RTL:\chardef\bidi@lst@caption@direction\@ne\\%
18081 LTR:\chardef\bidi@lst@caption@direction\z@%
18082 }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
18083
18084 \lst@Key{captionscript}{textscript}{%
18085 \lstKV@SwitchCases{#1}%
18086 {textscript:\\%
18087 latin:\chardef\bidi@lst@caption@script\@ne\\%
18088 nonlatin:\chardef\bidi@lst@caption@script\z@%
18089 }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
18090
18091 \newcommand*\bidi@lst@ensure@caption@direction[2]{%
18092 \ifundefined\bidi@lst@caption@direction}{%
18093 \ifnum\bidi@lst@caption@direction=\z@%
18094 #1%

```



```

18095 \else%
18096 \ifnum\bidilst@caption@direction=\@ne%
18097 #2%
18098 \fi%
18099 \fi%
18100 }}
18101
18102 \newcommand*{\bidilst@ensure@caption@script}[2]{%
18103 \@ifundefined{bidilst@caption@script}{}%
18104 \ifnum\bidilst@caption@script=\z@%
18105 #1%
18106 \else%
18107 \ifnum\bidilst@caption@script=\@ne%
18108 #2%
18109 \fi%
18110 \fi%
18111 }}
18112
18113 \long\def\@bidilst@makecaption#1#2{%
18114 \bidilst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
18115 \vskip\abovecaptionskip
18116 \bidilst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18117 \sbox\@tempboxa{%
18118 \bidilst@ensure@caption@direction{\beginL}{\beginR}%
18119 #1: #2%
18120 \bidilst@ensure@caption@direction{\endL}{\endR}%
18121 }%
18122 \ifdim \wd\@tempboxa >\hsize
18123 #1: #2\par
18124 \else
18125 \global \@minipagefalse
18126 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
18127 \fi
18128 \vskip\belowcaptionskip}%
18129 \def\lst@makecaption{\@bidilst@makecaption}
18130 \def\lst@maketitle{\@bidilst@makecaption\lst@title@dropdelim}
18131 \bidilst@AtEndPreamble{%
18132 \bidilst@patchcmd{\lst@MakeCaption}{%
18133 \ifx #1%
18134 \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
18135 \expandafter\refstepcounter
18136 \fi \{lstlisting\}%
18137 }{%
18138 \ifx #1%
18139 \bidilst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18140 \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
18141 \expandafter\refstepcounter
18142 \fi \{lstlisting\}%
18143 \bidilst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
18144 }{}{}%
18145 \bidilst@patchcmd{\lst@MakeCaption}{%
18146 \addcontentsline{lol}{lstlisting}%
18147 {\protect\numberline{\thelstlisting}\lst@@caption}%
18148 }{}%

```



```

18149 \begingroup%
18150             \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18151             \addcontentsline{lol}{lstlisting}%
18152             {\protect\numberline{\thelstlisting}\lst@caption}%
18153 \endgroup%
18154 }{}{}%
18155 }
18156 \@ifpackageloaded{caption}{%
18157   \AtBeginCaption{%
18158     \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
18159     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18160   }
18161   \let\@bidi@lst@makecaption\caption@makecaption%
18162   \def\lst@makecaption{\caption@starfalse\@bidi@lst@makecaption}%
18163   \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}%
18164 }{}%
18165 \AtBeginDocument{%
18166   \@ifundefined{captionlabelfalse}{}{}%
18167   \def\lst@maketitle{\captionlabelfalse\@bidi@lst@makecaption\@empty}}%
18168   \@ifundefined{caption@startrue}{}{}%
18169   \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}}%
18170 }%
18171 }
18172 \AtBeginDocument{
18173   \@ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{}
18174   \lst@ifnumberbychapter
18175     \gdef\thelstlisting%
18176     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
18177   \else
18178     \gdef\thelstlisting{\@arabic\c@lstlisting}
18179   \fi}

```

## 109 File loadingorder-xetex-bidi.def

```

18180 \ProvidesFile{loadingorder-xetex-bidi.def}[2024/12/08 v0.99 making sure that bidi is the la
18181 \bidi@isloaded{amsmath}
18182 \bidi@isloaded{amstext}
18183 \bidi@isloaded{amsthm}
18184 \bidi@isloaded{animate}
18185 \bidi@isloaded{breqn}
18186 \bidi@isloaded{cals}
18187 \bidi@isloaded{caption}
18188 \bidi@isloaded{crop}
18189 \bidi@isloaded{cuted}
18190 \bidi@isloaded{cutwin}
18191 \bidi@isloaded{color}
18192 \bidi@isloaded{dblfnote}
18193 \bidi@isloaded{diagbox}
18194 \bidi@isloaded{xcolor}
18195 \bidi@isloaded{colortbl}
18196 \bidi@isloaded{float}
18197 \bidi@isloaded{floatrow}
18198 \bidi@isloaded{flowfram}
18199 \bidi@isloaded{framed}

```



```

18200 \bidi@isloaded{ftnright}
18201 \bidi@isloaded{xltxttra}
18202 \bidi@isloaded{xunicode}
18203 \bidi@isloaded{wrapfig}
18204 \bidi@isloaded{graphicx}
18205 \bidi@isloaded{geometry}
18206 \bidi@isloaded{hvfloat}
18207 \bidi@isloaded{mdframed}
18208 \bidi@isloaded{midfloat}
18209 \bidi@isloaded{ntheorem}
18210 \bidi@isloaded{ntheorem-hyper}
18211 \bidi@isloaded{hyperref}
18212 \bidi@isloaded{fancybox}
18213 \bidi@isloaded{fancyhdr}
18214 \bidi@isloaded{fix2col}
18215 \bidi@isloaded{draftwatermark}
18216 \bidi@isloaded{empheq}
18217 \bidi@isloaded{overpic}
18218 \bidi@isloaded{pdfpages}
18219 \bidi@isloaded{listings}
18220 \bidi@isloaded{lettrine}
18221 \bidi@isloaded{lineno}
18222 \bidi@isloaded{media9}
18223 \bidi@isloaded{pstricks}
18224 \bidi@isloaded{pgf}
18225 \bidi@isloaded{picinpar}
18226 \bidi@isloaded{quotchap}
18227 \bidi@isloaded{tikz}
18228 \bidi@isloaded{titlesec}
18229 \bidi@isloaded{titletoc}
18230 \bidi@isloaded{array}
18231 \bidi@isloaded{soul}
18232 \bidi@isloaded{stabular}
18233 \bidi@isloaded{subfig}
18234 \bidi@isloaded{subfigure}
18235 \bidi@isloaded{supertabular}
18236 \bidi@isloaded{xtab}
18237 \bidi@isloaded{longtable}
18238 \bidi@isloaded{arydshln}
18239 \bidi@isloaded{multicol}
18240 \bidi@isloaded{multienum}
18241 \bidi@isloaded{minitoc}
18242 \bidi@isloaded{natbib}
18243 \bidi@isloaded{newfloat}
18244 \bidi@isloaded{ragged2e}
18245 \bidi@isloaded{rotating}
18246 \bidi@isloaded{tbls}
18247 \bidi@isloaded{tabulary}
18248 \bidi@isloaded{tocbasic}
18249 \bidi@isloaded{tocstyle}
18250 \bidi@isloaded{tocbibind}
18251 \bidi@isloaded{fontspec}
18252 \bidi@isloaded{arabxetex}
18253 \bidi@isloaded{polyglossia}

```



```

18254 \bidi@isloaded{fancyvrb}
18255 \AtBeginDocument{
18256   \if@bidi@amsmathloaded@else
18257     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amsmath after bidi pack
18258   \fi%
18259   \if@bidi@amstextloaded@else
18260     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amstext after bidi pack
18261   \fi%
18262   \if@bidi@amsthmloaded@else
18263     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amsthm after bidi pack
18264   \fi%
18265   \if@bidi@animateloaded@else
18266     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package animate after bidi pack
18267   \fi%
18268   \if@bidi@breqnloaded@else
18269     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package breqn after bidi packa
18270   \fi%
18271   \if@bidi@calsloaded@else
18272     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cals after bidi packag
18273   \fi%
18274   \if@bidi@captionloaded@else
18275     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package caption after bidi pac
18276   \fi%
18277   \if@bidi@croplloaded@else
18278     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package crop after bidi packag
18279   \fi%
18280   \if@bidi@colorloaded@else
18281     \@ifpackageloaded{hyperref}{-}{%
18282       \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package color after bidi packa
18283     \fi%
18284     \if@bidi@cutwinloaded@else
18285       \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cutwin after bidi pack
18286     \fi%
18287     \if@bidi@cutedloaded@else
18288       \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cuted after bidi packa
18289     \fi%
18290     \if@bidi@dblfnoteloaded@else
18291       \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package dblfnote after bidi pa
18292     \fi%
18293     \if@bidi@diagboxloaded@else
18294       \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package diagbox after bidi pac
18295     \fi%
18296     \if@bidi@xcolorloaded@else
18297       \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xcolor after bidi pack
18298     \fi%
18299     \if@bidi@colortblloaded@else
18300       \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package colortbl after bidi pa
18301     \fi%
18302     \if@bidi@floatloaded@else
18303       \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package float after bidi packa
18304     \fi%
18305     \if@bidi@floatrowloaded@else
18306       \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package floatrow after bidi pa
18307     \fi%

```



```

18308 \if@bidi@flowframloaded@else
18309 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package flowfram after bidi pa
18310 \fi%
18311 \if@bidi@framedloaded@else
18312 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package framed after bidi pack
18313 \fi%
18314 \if@bidi@ftnrightloaded@else
18315 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ftnright after bidi pa
18316 \fi%
18317 \if@bidi@xltxtalloaded@else
18318 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xltxtal after bidi pac
18319 \fi%
18320 \if@bidi@xunicodeloaded@else
18321 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xunicode after bidi pa
18322 \fi%
18323 \if@bidi@wrapfigloaded@else
18324 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package wrapfig after bidi pac
18325 \fi%
18326 \if@bidi@graphicxloaded@else
18327 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package graphicx after bidi pa
18328 \fi%
18329 \if@bidi@geometryloaded@else
18330 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package geometry after bidi pa
18331 \fi%
18332 \if@bidi@hvfloatloaded@else
18333 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package hvfloat after bidi pac
18334 \fi%
18335 \if@bidi@mdframedloaded@else
18336 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package mdframed after bidi pa
18337 \fi%
18338 \if@bidi@midfloatloaded@else
18339 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package midfloat after bidi pa
18340 \fi%
18341 \if@bidi@ntheoremloaded@else
18342 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ntheorem after bidi pa
18343 \fi%
18344 \if@bidi@hyperrefloaded@else
18345 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package hyperref after bidi pa
18346 \fi%
18347 \if@bidi@fancyboxloaded@else
18348 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancybox after bidi pa
18349 \fi%
18350 \if@bidi@fancyhdrloaded@else
18351 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancyhdr after bidi pa
18352 \fi%
18353 \if@bidi@draftwatermarkloaded@else
18354 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package draftwatermark after b
18355 \fi%
18356 \if@bidi@empheqloaded@else
18357 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package empheq after bidi pack
18358 \fi%
18359 \if@bidi@overpicloaded@else
18360 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package overpic after bidi pac
18361 \fi%

```



```

18362 \if@bidi@pdfpagesloaded@else
18363 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pdfpages after bidi pa
18364 \fi%
18365 \if@bidi@lettrineloaded@else
18366 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package lettrine after bidi pa
18367 \fi
18368 \if@bidi@linenoloaded@else
18369 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package lineno after bidi pack
18370 \fi%
18371 \if@bidi@listingsloaded@else
18372 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package listings after bidi pa
18373 \fi%
18374 \csname if@bidi@media9loaded@endcsname\else
18375 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package media9 after bidi pack
18376 \fi%
18377 \if@bidi@pstricksloaded@else
18378 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pstricks after bidi pa
18379 \fi%
18380 \if@bidi@pgfloaded@else
18381 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pgf after bidi package
18382 \fi%
18383 \if@bidi@picinparloaded@else
18384 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package picinpar after bidi pa
18385 \fi%
18386 \if@bidi@quotchaploaded@else
18387 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package quotchap after bidi pa
18388 \fi%
18389 \if@bidi@tikzloaded@else
18390 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tikz after bidi packag
18391 \fi%
18392 \if@bidi@titlesecloaded@else
18393 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package titlesec after bidi pa
18394 \fi%
18395 \if@bidi@titletocloaded@else
18396 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package titletoc after bidi pa
18397 \fi%
18398 \if@bidi@arrayloaded@else
18399 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package array after bidi packa
18400 \fi%
18401 \if@bidi@stabularloaded@else
18402 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package stabular after bidi pa
18403 \fi%
18404 \if@bidi@soulloaded@else
18405 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package soul after bidi packag
18406 \fi%
18407 \if@bidi@subfigloaded@else
18408 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package subfig after bidi pack
18409 \fi%
18410 \if@bidi@subfigureloaded@else
18411 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package subfigure after bidi p
18412 \fi%
18413 \if@bidi@supertabularloaded@else
18414 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package supertabular after bid
18415 \fi%

```





```

18416 \if@bidi@xtableloaded@else
18417 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xtab after bidi package}{}]
18418 \fi%
18419 \if@bidi@longtableloaded@else
18420 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package longtable after bidi package}{}]
18421 \fi%
18422 \if@bidi@arydshnloaded@else
18423 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package arydshn after bidi package}{}]
18424 \fi%
18425 \if@bidi@multicolloaded@else
18426 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package multicol after bidi package}{}]
18427 \fi%
18428 \if@bidi@multienumloaded@else
18429 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package multienum after bidi package}{}]
18430 \fi%
18431 \if@bidi@minitocloaded@else
18432 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package minitoc after bidi package}{}]
18433 \fi%
18434 \if@bidi@natbibloaded@else
18435 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package natbib after bidi package}{}]
18436 \fi%
18437 \if@bidi@newfloatloaded@else
18438 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package newfloat after bidi package}{}]
18439 \fi%
18440 \csname if@bidi@ragged2eloaded@endcsname\else
18441 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ragged2e after bidi package}{}]
18442 \fi%
18443 \if@bidi@rotatingloaded@else
18444 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package rotating after bidi package}{}]
18445 \fi%
18446 \if@bidi@tblsloaded@else
18447 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tbls after bidi package}{}]
18448 \fi%
18449 \if@bidi@tabularyloaded@else
18450 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tabulary after bidi package}{}]
18451 \fi%
18452 \if@bidi@tocbasicloaded@else
18453 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocbasic after bidi package}{}]
18454 \fi%
18455 \if@bidi@tocstyleloaded@else
18456 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocstyle after bidi package}{}]
18457 \fi%
18458 \if@bidi@tocbibindloaded@else
18459 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocbibind after bidi package}{}]
18460 \fi%
18461 \if@bidi@fontspecloaded@else
18462 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fontspec after bidi package}{}]
18463 \fi%
18464 \if@bidi@arabxetexloaded@else
18465 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package arabxetex after bidi package}{}]
18466 \fi%
18467 \if@bidi@polyglossialloaded@else
18468 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package polyglossia after bidi package}{}]
18469 \fi%

```



```

18470 \if@bidi@fancyvrbloaded@else
18471 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancyvrb after bidi pa
18472 \fi%
18473 }

```

## 110 File longtable-xetex-bidi.def

```

18474 \ProvidesFile{longtable-xetex-bidi.def}[2022/05/20 v0.6 bidi adaptations for longtable pack
18475 \def\LT@array[#1]#2{%
18476 \refstepcounter{table}\stepcounter{LT@tables}%
18477 \if l#1%
18478 \if@RTLtab\LTleft\fill \LTright\z@\else\LTleft\z@ \LTright\fill\fi
18479 \else\if r#1%
18480 \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
18481 \else\if c#1%
18482 \LTleft\fill \LTright\fill
18483 \fi\fi\fi
18484 \let\LT@mc@multicolumn
18485 \let\LT@tabarray\@tabarray
18486 \let\LT@hline\hline
18487 \def\@tabarray{%
18488 \let\hline\LT@hline
18489 \LT@tabarray}%
18490 \let\\\LT@tabularcr\let\tabularnewline\\%
18491 \def\newpage{\noalign{\break}}%
18492 \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
18493 \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk4}}%
18494 \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
18495 \@tempdima\ht\strutbox
18496 \let\@endpbox\LT@endpbox
18497 \ifx\extrarowheight\@undefined
18498 \let\@acol\@tabacol
18499 \let\@classz\@tabclassz \let\@classiv\@tabclassiv
18500 \def\@startpbox{\vtop\LT@startpbox}%
18501 \let\@@startpbox\@startpbox
18502 \let\@@endpbox\@endpbox
18503 \let\LT@LL@FM@cr\@tabularcr
18504 \else
18505 \advance\@tempdima\extrarowheight
18506 \col@sep\tabcolsep
18507 \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
18508 \fi
18509 \setbox\@arstrutbox\hbox{\vrule
18510 \@height \arraystretch \@tempdima
18511 \@depth \arraystretch \dp \strutbox
18512 \@width \z@}%
18513 \let\@sharp#\let\protect\relax
18514 \begingroup
18515 \mkpream{#2}%
18516 \xdef\LT@bchunk{%
18517 \global\advance\c@LT@chunks\@ne
18518 \global\LT@rows\z@\setbox\z@\vbox\bgroup
18519 \LT@setprevdepth
18520 \tabskip\LTleft \noexpand\halign to\hsize\bgroup

```



```

18521      \tabskip\z@ \@arstrut \@preamble \tabskip\LTright \cr}%
18522 \endgroup
18523 \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
18524 \LT@make@row
18525 \m@th\let\par\@empty
18526 \everycr{}\lineskip\z@\baselineskip\z@
18527 \LT@bchunk}
18528 \def\LT@makecaption#1#2#3{%
18529   \LT@mc@col\LT@cols c{\hbox to\z@{\hss\parbox[t]{LTcapwidth{%
18530     \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
18531     \ifdim\wd\@tempboxa>\hsize
18532       #1{#2: }#3%
18533     \else
18534       \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
18535     \fi
18536     \endgraf\vskip\baselineskip}%
18537   \hss}}
18538 \ifpackageloaded{caption}{%
18539   \renewcommand\LT@makecaption[3]{%
18540     \caption@LT@make{%
18541       \caption@LT@settype\LTcapttype
18542       \caption@LT@setup
18543       \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
18544       \caption@startrue#1\caption@starfalse
18545       \caption@prepare@stepcounter\LTcapttype
18546       \caption@begin\LTcapttype
18547       \caption@normalsize
18548       \vskip-\ht\strutbox
18549       \caption@ifdefined\FBifcapttop{%
18550         \let\caption@belowskip\@empty}{}%
18551       \caption@make@above
18552       \caption@@make{#2}{#3}\endgraf
18553       \caption@make@below
18554       \caption@end}}%
18555 }{}
18556 \def\LT@startpbox#1{%
18557   \bgroup\color@begingroup
18558   \let\@footnotetext\LT@p@ftntext
18559   \let\@LTRfootnotetext\LT@p@LTRftntext
18560   \let\@RTLfootnotetext\LT@p@RTLftntext
18561   \setlength\hsize{#1}%
18562   \@arrayparboxrestore
18563   \vrule \@height \ht\@arstrutbox \@width \z@}
18564 \def\LT@p@LTRftntext#1{%
18565   \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]}%
18566   \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
18567 \def\LT@p@RTLftntext#1{%
18568   \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]}%
18569   \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
18570
18571
18572 \def\LT@output{%
18573   \ifnum\outputpenalty <-\@Mi
18574     \ifnum\outputpenalty > -\LT@end@pen

```



```

18575     \LT@err{floats and marginpars not allowed in a longtable}\@ehc
18576 \else
18577   \setbox\z@\vbox{\unvbox\@cclv}%
18578   \ifdim \ht\LT@lastfoot>\ht\LT@foot
18579     \dimen@\pagegoal
18580     \advance\dimen@-\ht\LT@lastfoot
18581     \ifdim\dimen@<\ht\z@
18582       \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%
18583       \@makecol
18584       \@outputpage
18585       \setbox\z@\vbox{\box\LT@head}%
18586     \fi
18587   \fi
18588   \global\@colroom\@colht
18589   \global\vsizel\@colht
18590   \vbox
18591     {\if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi\unvbox\z@\box\ifvoid\LT@lastfoot\LT@fo
18592   \fi
18593 \else
18594   \setbox\@cclv\vbox{\if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi\unvbox\@cclv\copy\LT@fo
18595   \@makecol
18596   \@outputpage
18597   \global\vsizel\@colroom
18598   \copy\LT@head\nobreak
18599 \fi}

```

## 111 File lscape-xetex-bidi.def

```

18600 \ProvidesFile{lscape-xetex-bidi.def}[2022/07/14 v0.2 bidi adaptations for lscape package fo
18601 \bidi@patchcmd{\LS@rot}{\rotatebox{90}{\box\@outputbox}}{%
18602   \if@RTL
18603     \rotatebox[origin=br]{-90}{\box\@outputbox}%
18604   \else
18605     \rotatebox{90}{\box\@outputbox}%
18606   \fi
18607 }{}{}
18608
18609 \g@addto@macro{\landscape}{%
18610   \if@bidi@csdef{bidi@columnwidth}{%
18611     \bidi@columnwidth\columnwidth
18612   }{}%
18613   \let\bidi@left@footnoterule\left@footnoterule
18614   \let\bidi@right@footnoterule\right@footnoterule
18615   \def\left@footnoterule{%
18616     \if@RTL
18617       \bidi@right@footnoterule
18618     \else
18619       \bidi@left@footnoterule
18620     \fi
18621   }%
18622   \def\right@footnoterule{%
18623     \if@RTL
18624       \bidi@left@footnoterule
18625     \else

```



```

18626     \bidi@right@footnoterule
18627     \fi
18628   }%
18629 }

```

## 112 File mathtools-xetex-bidi.def

```

18630 \ProvidesFile{mathtools-xetex-bidi.def}[2018/01/07 v0.1 bidi adaptations for mathtools pack
18631 \MHInternalSyntaxOn
18632 \def\MT_define_tagform:nwnn #1[#2]#3#4{
18633   \@namedef{MT_tagform_#1:n}##1
18634   {\maketag@@@{\if@nonlatin\beginR\fi#3\kern\z@\ignorespaces#2{##1}\unskip\@italiccorr#4
18635 }
18636 \renewtagform{default}{({}){}}
18637 \MHInternalSyntaxOff

```

## 113 File mdframed-xetex-bidi.def

```

18638 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed packag
18639 \newif\if@bidi@mdf@RTL
18640 \def\mdf@lrbox#1{%
18641   \mdf@patchamsthm%patch amsthm
18642   \if@RTL\@bidi@mdf@RTLtrue\fi%
18643   \@RTLfalse%
18644   \setbox#1\vbox\bgroup%
18645   \color@begingroup%
18646   \if@bidi@mdf@RTL\@RTLtrue\fi%
18647   \mdf@horizontalmargin@equation%
18648   \columnwidth=\hsize%
18649   \textwidth=\hsize%
18650   \let\if@nbreak\iffalse%
18651   \let\if@noskipsec\iffalse%
18652   \let\par\@@par%
18653   \let\-\@dischph%
18654   \let'\@accii\let'\@accii\let\=\@acciii%
18655   \parindent\z@ \parskip\z@skip%
18656   \linewidth\hsize%
18657   \@totalleftmargin\z@%
18658   \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
18659   \parfillskip\@flushglue \lineskip\normallineskip%
18660   \baselineskip\normalbaselineskip%
18661 %% \sloppy%
18662   \let\\\@normalcr%
18663   \mdf@par@local%New feature to restore parskip/parindent local in save box
18664   \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
18665   \@afterindentfalse%
18666   %\@afterheading%
18667 }
18668 \renewrobustcmd\mdfframedtitleenv[1]{%
18669   \mdf@lrbox{\mdf@frametitlebox}%
18670   \mdf@frametitlealignment%
18671   \leavevmode{\color{\mdf@frametitlefontcolor}%
18672     \normalfont\mdf@frametitlefont{#1}
18673     \ifbool{mdf@ignorelastdescenders}%

```



```

18674      {%
18675      \par\strut\par
18676      \unskip\unskip\setbox0=\lastbox
18677      \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
18678      }{}}%
18679      \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%%
18680      \endmdf@lrbox\relax%
18681      \mdf@ignorevbadness%
18682      \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
18683      \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
18684      \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
18685      \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
18686      \mdfframetitleboxtotalheight=\dimexpr
18687              \ht\mdf@frametitlebox
18688              +\dp\mdf@frametitlebox%
18689              +\mdf@frametitleaboveskip@length
18690              +\mdf@frametitlebelowskip@length
18691              \relax%
18692  }
18693
18694  \renewrobustcmd*\mdf@footnoteoutput{%
18695      \ifvoid\@mpfootins\else%
18696      \nobreak%
18697      \vskip\mdf@footnotedistance@length%
18698      \normalcolor%
18699      \bidi@mpfootnoterule%
18700      \unvbox\@mpfootins%
18701      \fi%
18702  }
18703
18704
18705  \renewrobustcmd*\mdf@footnoteinput{%
18706      \def\@mpfn{mpfootnote}%
18707      \def\thempfn{\thempfootnote}%
18708      \c@mpfootnote\z@%
18709      \let\@footnotetext\@mpfootnotetext%
18710      \let\@LTRfootnotetext\@mpLTRfootnotetext%
18711      \let\@RTLfootnotetext\@mpRTLfootnotetext%
18712  }

```

## 114 File bidi-media9.sty

```

18713 \ProvidesExplPackage{bidi-media9}{2022/02/18}{0.4}
18714 {bidi fixes for media9 package for the XeTeX engine}
18715
18716 \keys_define:nn{media9/mbtn}{
18717     draft .code:n = {},
18718     final .code:n = {},
18719
18720     tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
18721     tooltip .value_required:n = {true},
18722
18723     overface .code:n = {
18724         \sbox\l_mix_poster_box{

```



```

18725     \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
18726     \mix_pdfxform:n{\l_mix_poster_box}
18727     \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
18728 },
18729 overface .value_required:n = {true},
18730
18731 downface .code:n = {
18732     \sbox\l_mix_poster_box{
18733         \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
18734         \mix_pdfxform:n{\l_mix_poster_box}
18735         \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
18736     },
18737     downface .value_required:n = {true},
18738
18739 3Dgotoview .code:n = {
18740     \tl_set:Nx\l_tmpa_tl{#1} %extract ref
18741     \regex_replace_once:nnN{([~:])+:??.*}{\1}\l_tmpa_tl
18742     \tl_trim_spaces:N\l_tmpa_tl
18743     \tl_if_exist:cTF{ann@\l_tmpa_tl}{
18744         \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
18745             \tl_set:Nx\l_tmpb_tl{#1} %extract idx
18746             \regex_replace_once:nnN{[~:]+:~}{\1}\l_tmpb_tl
18747             \tl_trim_spaces:N\l_tmpb_tl
18748             \tl_if_blank:VF\l_tmpb_tl{
18749                 \regex_match:nVTF{^[DFLNP]$}\l_tmpb_tl{
18750                     \tl_set:Nx\l_mix_vidx_tl{/\l_tmpb_tl}
18751                 }{
18752                     \regex_match:nVTF{^~d+$}\l_tmpb_tl{
18753                         \tl_set:Nx\l_mix_vidx_tl{~\l_tmpb_tl}
18754                     }{
18755                         \regex_replace_once:nnN{^~(\s*)}{\1}\l_tmpb_tl
18756                         \regex_replace_once:nnN{(\s*)$}{\1}\l_tmpb_tl
18757                         \tl_set:Nx\l_mix_vidx_tl{~(\l_tmpb_tl)}
18758                     }
18759                 }
18760             }
18761         \mix_pdfobj:nnn{}{dict}{
18762             /S/JavaScript/JS~(
18763                 if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18764                 if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18765                     annotRM['\l_tmpa_tl']=
18766                     this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18767                 }
18768                 annotRM['\l_tmpa_tl'].activated=true;
18769             )
18770         \tl_if_blank:VF\l_tmpb_tl{
18771             /Next~<<
18772             /S/GoTo3DView
18773             /TA~\tl_use:c{ann@\l_tmpa_tl}
18774             /V\l_mix_vidx_tl
18775             >>
18776         }
18777     }
18778     \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}

```



```

18779     }
18780   }{
18781     \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
18782     \cs_if_exist:NF\g_mix_refundefwarned_tl{
18783       \tl_new:N\g_mix_refundefwarned_tl
18784       \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
18785     }
18786   }
18787 },
18788 3Dgotoview .value_required:n = {true},
18789
18790 mediacommand .code:n = {
18791   \tl_set:Nx\l_tmpa_tl{#1}
18792   \regex_replace_once:nnN{([~:])+??.*}{\1}\l_tmpa_tl %extract ref
18793   \tl_trim_spaces:N\l_tmpa_tl
18794   \tl_if_exist:cTF{ann@\l_tmpa_tl}{
18795     \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
18796       \tl_set:Nx\l_tmpb_tl{#1}
18797       \regex_replace_once:nnN{([~:]+\~:?)}{\1}\l_tmpb_tl
18798       \tl_trim_spaces:N\l_tmpb_tl
18799       \regex_replace_all:nnN{^{\|}\$}{\1}\l_tmpb_tl
18800       \tl_set:Nx\l_mix_cmd_tl{
18801         \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
18802       \tl_trim_spaces:N\l_mix_cmd_tl
18803       \tl_set:Nx\l_mix_arg_tl{
18804         \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
18805       \tl_trim_spaces:N\l_mix_arg_tl
18806       \mix_pdfobj:nnn{}{dict}{
18807         /S/JavaScript/JS~(
18808           if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18809           if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18810             annotRM['\l_tmpa_tl']=
18811               this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18812           }
18813           annotRM['\l_tmpa_tl'].activated=true;
18814         )
18815       \tl_if_blank:VF\l_mix_cmd_tl{
18816         /Next~<<
18817         /S/RichMediaExecute
18818         /TA~\tl_use:c{ann@\l_tmpa_tl}
18819         /TI~\tl_use:c{main@\l_tmpa_tl}
18820         /CMD~<<
18821         /C~(\l_mix_cmd_tl)
18822         \tl_if_blank:VF\l_mix_arg_tl{
18823           /A~[\l_mix_arg_tl]
18824         }
18825         >>
18826       >>
18827     }
18828   }
18829   \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18830 }
18831 }{
18832   \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}

```





```

18833     \cs_if_exist:NF\g_mix_refundefwarned_tl{
18834       \tl_new:N\g_mix_refundefwarned_tl
18835       \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
18836     }
18837   }
18838 },
18839 mediacommand .value_required:n = {true},
18840
18841 jsaction .code:n = {
18842   \tl_set:Nx\l_tmpa_tl{#1}
18843   \regex_match:nVTF{^[^{}:]+\:.*$}\l_tmpa_tl{
18844     \regex_replace_once:nnN{([~:]+\:.*)}{\1}\l_tmpa_tl %extract ref
18845     \tl_trim_spaces:N\l_tmpa_tl
18846   }\tl_clear:N\l_tmpa_tl}
18847   \tl_set:Nx\l_tmpb_tl{#1}
18848   \tl_if_blank:VF\l_tmpa_tl{
18849     \tl_if_exist:cF{ann@\l_tmpa_tl}{
18850       \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
18851       \cs_if_exist:NF\g_mix_refundefwarned_tl{
18852         \tl_new:N\g_mix_refundefwarned_tl
18853         \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
18854       }
18855     }
18856     \regex_replace_once:nnN{[~:]+\:.*}{\1}\l_tmpb_tl
18857   }
18858   \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
18859   \tl_trim_spaces:N\l_tmpb_tl
18860   \tl_if_blank:VF\l_tmpb_tl{
18861     \mix_pdfobj:nnn{}{dict}{
18862       /S/JavaScript/JS~(
18863         try{\l_tmpb_tl}catch(e){console.show();console.println(e)}))}
18864     \bool_lazy_and:nnT{
18865       \tl_if_exist_p:c{ann@\l_tmpa_tl}
18866     }{
18867       !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
18868     }{
18869       \mix_pdfobj:nnn{}{dict}{
18870         /S/JavaScript/JS~(
18871           if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18872           if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18873             annotRM['\l_tmpa_tl']=
18874             this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18875           }
18876           annotRM['\l_tmpa_tl'].activated=true;
18877         )
18878         \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
18879       }
18880     }
18881     \bool_if:nT{
18882       \bool_lazy_and_p:nn{
18883         \tl_if_exist_p:c{ann@\l_tmpa_tl}
18884       }{
18885         !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
18886       }

```



```

18887     || !\tl_if_blank_p:V\l_tmpb_tl
18888   }{
18889     \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18890   }
18891 },
18892 jsaction .value_required:n = {true},
18893
18894 unknown .code:n = {
18895   \msg_error:nnx{media9}{unknown~option}{\l_keys_key_tl}
18896 }
18897 }
18898
18899 \RenewDocumentCommand\includemedia{0}{mm}{%#1 options, #2 text/image #3 media file
18900   \mix_uriend:
18901   \group_begin:
18902   \mix_beginLTR:
18903   \mode_leave_vertical:
18904   %empty stream as appearance dummy
18905   \cs_if_exist:NF\g_mix_appearance_tl{
18906     \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
18907     \mix_pdfxform:n{\l_mix_poster_box}
18908     \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
18909   }
18910   \mix_reset:
18911   \mix_urbegin: %treat URI characters correctly
18912   \keys_set:nn{media9/user}{#1}
18913   \mix_uriend:
18914   \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
18915   \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
18916   \tl_greplace_all:Nnn\g_mix_flashvars_tl{~=}{=}
18917   \tl_greplace_all:Nnn\g_mix_flashvars_tl{=~}{=}
18918   \tl_gtrim_spaces:N\g_mix_flashvars_tl
18919
18920   \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
18921
18922   %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
18923   %\hbox_set:Nn\l_mix_poster_box{#2}
18924   \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
18925   \mix_scale:n{\l_mix_poster_box}
18926   \bool_if:nT{
18927     \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
18928     \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
18929   }{
18930     \tl_gset:Nn\g_mix_usrpbtn_tl{none}
18931   }
18932   \bool_if:NTF\g_mix_usrdraft_bool{
18933     \tl_if_empty:NF\g_mix_usrlabel_tl{
18934       \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
18935     }
18936     \tl_if_blank:oTF{#2}{
18937       \mix_urbegin: %treat URI characters correctly
18938       \mix_draftbox:n{\tl_to_str:n{#3}}
18939       \mix_uriend:
18940     }{

```



```

18941 \hbox_to_wd:nn{\g_mix_wd_tl}{
18942 \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl
18943 \box_use:N\l_mix_poster_box\hss
18944 }
18945 }
18946 }{
18947 \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
18948 %attach script that switches off play button overlay upon activation
18949 \mix_pdfobj:nnn{}{stream}{
18950 {}{
18951 var~ocgs=host.getOCGs(host.pageNum);
18952 for(var~i=0;i<ocgs.length;i++){
18953 if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
18954 ocgs[i].state=false;
18955 }
18956 }
18957 }
18958 }
18959 \mix_pdfobj:nnn{}{dict}{
18960 /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
18961 }
18962 \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
18963 \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
18964 %enforce plain playbutton overlay for XeTeX
18965 \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
18966 }
18967 %embed main asset
18968 \mix_uribegin:
18969 \mix_embedasset:n{#3}
18970 \bool_if:nTF{
18971 \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
18972 }{
18973 \bool_gset_true:N\g_mix_iiid_bool
18974 \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
18975 }{
18976 \str_case_e:nnF{\l_mix_base_tl}{
18977 {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
18978 {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
18979 {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18980 {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18981 {StrobeMediaPlayback}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18982 }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
18983 }
18984 \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
18985 \mix_uriend:
18986 %secondary assets (added by addresource)
18987 \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
18988 \seq_map_inline:Nn\g_mix_script_seq{
18989 \mix_embedasset:n{##1}
18990 \tl_put_right:Nx\l_mix_scripts_tl{~\g_mix_lastasset_tl}
18991 }
18992 %attach 3D calculation script
18993 \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
18994 \mix_embedasset:n{3Dmenu.js}

```



```

18995     \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
18996   }
18997   %create 3D views from file (option 3Dviews)
18998   \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
18999     \tl_set:Nn\l_mix_level_tl{-1}
19000     \int_zero:N\l_mix_viewcnt_int
19001     \int_zero:N\l_mix_lineno_int
19002
19003     \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
19004     \ior_map_inline:Nn\l_mix_vfile_stream{
19005       \int_incr:N\l_mix_lineno_int
19006       \keys_set:nn{media9/views}{##1} %process input line
19007     }
19008     \ior_close:N\l_mix_vfile_stream
19009   }
19010   \bool_if:nT{ %create default 3D view if required
19011     \g_mix_iiid_bool &&
19012     (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
19013   }{
19014     \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
19015     \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
19016     \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
19017     \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
19018     \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
19019     \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
19020     \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
19021
19022     \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
19023     \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
19024     \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
19025     \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
19026
19027     \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
19028     \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
19029     \tl_clear:N\l_mix_naarray_tl
19030
19031     \bool_if:NF\l_mix_ciiw_bool{
19032       \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
19033       \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
19034     }
19035
19036     \tl_clear:N\l_mix_naarray_tl
19037     \tl_clear:N\l_mix_saarray_tl
19038     \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrflt_tl
19039
19040     \mix_view:n{Default}
19041     \tl_set:Nx\l_mix_dfltvview_tl{\mix_pdflastobj:}
19042
19043   }
19044   \mix_pdfobj:nnn{}{dict}{
19045     /Type/RichMediaInstance
19046     /Subtype/\g_mix_mainassetsub_tl
19047     /Asset~\g_mix_mainasset_tl
19048     \bool_if:NF\g_mix_iiid_bool{

```



```

19049         /Params~<<
19050         /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
19051         /Foreground
19052         }{
19053         /Background
19054         }
19055         \tl_if_blank:VF\g_mix_flashvars_tl{
19056         /FlashVars~(\g_mix_flashvars_tl)
19057         }
19058         >>
19059     }
19060 }
19061 \tl_if_empty:NF\g_mix_usrlabel_tl{
19062     \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
19063 }
19064 \mix_pdfobj:nnn{}{dict}{
19065     /Type/RichMediaConfiguration
19066     /Subtype/\g_mix_mainassetssub_tl
19067     /Instances~[\mix_pdflastobj:]
19068 }
19069 \mix_pdfobj:nnn{}{dict}{
19070     /Type/RichMediaContent
19071     /Assets~<</Names~[\g_mix_assets_tl]>>
19072     /Configurations~[\mix_pdflastobj:]
19073     \bool_if:nT{
19074         \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
19075     }{
19076         /Views~[\l_mix_iiidviewarray_tl]
19077     }
19078 }
19079 \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
19080 \bool_if:nT{
19081     \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
19082 }{
19083     \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
19084 }
19085 %determine floating window size
19086 \bool_if:NT\g_mix_opt_windowed_bool{
19087     \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
19088 }
19089 \mix_pdfobj:nnn{}{dict}{
19090     /Activation~<<
19091     /Condition\g_mix_act_tl
19092     \bool_if:nT{
19093         \g_mix_iiid_bool &&
19094         !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
19095     }{ %seems to work only with 3D content
19096         /Animation~<<
19097         /Subtype/\g_mix_playtpe_tl
19098         /PlayCount~\g_mix_playcnt_tl
19099         /Speed~\g_mix_playspd_tl
19100         >>
19101     }
19102     \bool_if:nT{

```



```

19103         \g_mix_iiid_bool && (
19104             \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
19105         )
19106     }{/View~\l_mix_dfltview_tl}
19107 /Presentation~<<
19108     /Transparent~\g_mix_transp_tl
19109     \bool_if:NTF\g_mix_opt_windowed_bool{
19110         /Style/Windowed
19111         /Window~<<
19112             /Width~<</Default~\tl_mix_fltd>>
19113             /Height~<</Default~\tl_mix_flht>>
19114             /Position~<<
19115                 /HOffset~0/VOffset~0
19116                 \str_case_e:nnF{\g_mix_winpos_tl}{
19117                     {tl}{/VAlign/Near/HAlign/Near}
19118                     {cl}{/VAlign/Center/HAlign/Near}
19119                     {bl}{/VAlign/Far/HAlign/Near}
19120                     {bc}{/VAlign/Far/HAlign/Center}
19121                     {br}{/VAlign/Far/HAlign/Far}
19122                     {cr}{/VAlign/Center/HAlign/Far}
19123                     {tr}{/VAlign/Near/HAlign/Far}
19124                     {tc}{/VAlign/Near/HAlign/Center}
19125                 }{/HAlign/Center/VAlign/Center}
19126             >>
19127         >>
19128     }{
19129         /Style/Embedded
19130     }
19131     \bool_if:NTF\g_mix_iiid_bool{
19132         /Toolbar~\g_mix_tools_tl
19133         /NavigationPane~\g_mix_nav_tl
19134     }{
19135         /PassContextClick~\g_mix_contextclick_tl
19136     }
19137     >>
19138     \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
19139     >>
19140     /Deactivation~<</Condition\g_mix_deact_tl>>
19141 }
19142 \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
19143 \tl_if_empty:NF\g_mix_usrlabel_tl{
19144     \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
19145 }
19146 % #1:width, #2:height, #3:depth, #4:content (key-value)
19147 \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
19148     /Subtype/RichMedia
19149     /F~4
19150     /BS~<</W~0/S/S>>
19151     /Contents~(media~embedded-by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
19152     /NM~(\g_mix_label_tl)
19153     /AP~<</N~\g_mix_appearance_tl>>
19154     /RichMediaSettings~\l_mix_settings_tl
19155     /RichMediaContent~\l_mix_content_tl
19156 }

```



```

19157 \tl_if_empty:NF\g_mix_usrlabel_tl{
19158   \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
19159   \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
19160     \noexpand\the\g@mix@page@int}
19161 }
19162 \mix_pdfobj:nnn{}{dict}{
19163   /S/JavaScript/JS~(
19164     try{
19165       if(typeof(annotRM)=='undefined'){annotRM=new-Array();}
19166       if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
19167         annotRM['\g_mix_label_tl']=
19168           this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
19169       }
19170       \str_if_eq:eeF{\g_mix_usrpbtn_tl}{none}{
19171         if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
19172           var~ocgs=this.getOCGs(this.pageNum);
19173           for(var~i=0;i<ocgs.length;i++){
19174             if(ocgs[i].name=='MediaPlayButton\int_use:N\g_mix_rmcnt_int'){
19175               var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
19176             }
19177           }
19178         }
19179         if(
19180           !annotRM['\g_mix_label_tl'].activated&&(
19181             app.viewerType=='Reader' ||
19182             app.viewerType=='Exchange' ||
19183             app.viewerType=='Exchange-Pro'
19184           )&&app.viewerVersion>=9
19185         ){
19186           ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
19187         }
19188       }
19189     }catch(e){}
19190     this.dirty=false;
19191   )
19192 }
19193 \mix_pdfannot:nnnn{0pt}{0pt}{0pt}{
19194   /Subtype/Widget
19195   /FT/Btn/Ff-65537/F~2
19196   /BS~<</W~0>>
19197   /T~(fd@\g_mix_label_tl)
19198   /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
19199 }
19200 \mix_appendtofields:n{\mix_pdflastann:}
19201 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
19202 \str_if_eq:eeTF{\g_mix_usrpbtn_tl}{none}{
19203   \hbox_to_wd:nn{\g_mix_wd_tl}{
19204     \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
19205   }
19206 }{%insert play button overlay
19207   \mix_insert_btnocg: %create OCG
19208   \cs_gset_eq:Nc\mix_pbtn:NN{g@mix@pbtn@\g_mix_usrpbtn_tl @tl}
19209   \group_begin:
19210   \cs_if_exist:NT\textdir{\textdir TLT}

```



```

19211 \sbox\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
19212 \box_move_down:nn{\g_mix_dp_tl}{
19213 \hbox_to_wd:nn{\g_mix_wd_tl}{
19214 \vbox_to_ht:nn{\g_mix_tt_tl}{
19215 \vss
19216 \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
19217 \box_use:N\l_mix_pbtn_box
19218 \ocgbase_oc_emc:
19219 }
19220 }
19221 }
19222 \group_end:
19223 }
19224 \int_gincr:N\g_mix_rmcnt_int
19225 }
19226 \mix_endLTR:
19227 \group_end:
19228 }
19229 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia
19230 \tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}
19231
19232 \RenewDocumentCommand\mediabutton{0{m}}{%#1 options, #2 normal button text
19233 \mix_urieend:
19234 \group_begin:
19235 \mix_beginLTR:
19236 \mode_leave_vertical:
19237 %reset various variables
19238 \tl_gclear:N\g_mix_overbtn_tl
19239 \tl_gclear:N\g_mix_downbtn_tl
19240 \tl_gclear:N\g_mix_btnactions_tl
19241 \tl_gclear:N\g_mix_tooltip_tl
19242 %process options
19243 \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
19244 \mix_uribegin: %treat URI characters correctly
19245 \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
19246 \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
19247 \mix_urieend:
19248 %normal button appearance
19249 %\hbox_set:Nn\l_mix_poster_box{#2}
19250 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
19251 \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
19252 \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
19253 \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
19254 \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
19255 \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{
19256 \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}
19257 \mix_pdfxform:n{\l_mix_poster_box}
19258 \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
19259 %insert widget annotation
19260 \mix_pdfannot:nnnn{\width}{\height}{\depth}{
19261 /Subtype/Widget
19262 /T~(mbtn@\int_use:N\g_mix_mbtncnt_int)
19263 \tl_if_empty:NF\g_mix_tooltip_tl{/TU~(\g_mix_tooltip_tl)}
19264 /FT/Btn/Ff-65536

```





```

19265 \tl_if_empty:NTF\g_mix_downbtn_tl{/H/I}/{/H/P}
19266 /AP~<<
19267 /N~\g_mix_normalbtn_tl
19268 \tl_if_empty:NF\g_mix_overbtn_tl{/R~\g_mix_overbtn_tl}
19269 \tl_if_empty:NF\g_mix_downbtn_tl{/D~\g_mix_downbtn_tl}
19270 >>
19271 /MK~<<
19272 /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
19273 /I~\g_mix_normalbtn_tl
19274 \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
19275 \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
19276 >>
19277 /A~<<
19278 /S/JavaScript/JS~(app.focusRect=false;)
19279 %sequence of actions to perform
19280 \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
19281 >>
19282 }
19283 \mix_appendtofields:n{\mix_pdflastann:}
19284 \hbox_to_wd:nn{\width}{
19285 \vrule-width~\c_zero_dim~height~\height~depth~\depth\hss
19286 }
19287 \int_gincr:N\g_mix_mbtncnt_int
19288 }
19289 \mix_endLTR:
19290 \group_end:
19291 }
19292 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
19293 \tl_set:Nn\mediabutton{\mix_urbegin:\l_mix_mediabutton_tl}
19294

```

## 115 File memoir-xetex-bidi.def

```

19295 \ProvidesFile{memoir-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for memoir class for
19296 \renewcommand{\keepthetitle}{%
19297 \@bsmtitleempty
19298 \global\let\thanks\relax
19299 \global\let\LTRthanks\relax
19300 \global\let\RTLthanks\relax
19301 \global\let\and\relax
19302 \global\let\andnext\relax
19303 \global\let\@thanks\@empty
19304 \global\let\@title\@empty
19305 \global\let\@author\@empty
19306 \global\let\@date\@empty}
19307 \renewcommand{\maketitle}{\par
19308 \beginingroup
19309 \@bsmarkseries
19310 \def\@makefnmark{\@textsuperscript{%
19311 \normalfont\@bsthanksheadpre \tamark \bsthanksheadpost}}%
19312 \long\def\@makefntext##1{\makethanksmark ##1}
19313 \if@twocolumn
19314 \ifnum \col@number=\@one
19315 \@maketitle

```



```

19316     \else
19317         \twocolumn[\@maketitle]%
19318     \fi
19319 \else
19320     \ifdim\pagetotal>\z@
19321         \newpage
19322     \fi
19323     \global\@topnum\z@
19324     \@maketitle
19325 \fi
19326 \thispagestyle{title}\@thanks
19327 \endgroup
19328 \bscontmark % \setcounter{footnote}{0}%
19329 }
19330 \renewcommand*{\memRTLleftskip}{\if@RTL\rightskip\else\leftskip\fi}
19331 \renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
19332 \renewcommand*{\memRTLvleftskip}{\if@RTL\vrighskip\else\vleftskip\fi}
19333 \renewcommand*{\memRTLvrighskip}{\if@RTL\vleftskip\else\vrighskip\fi}
19334 \renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
19335 \renewcommand*{\memRTLraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
19336 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
19337 \renewcommand*{\thesubsection}{\%
19338     \thesection\@SepMark\@arabic\c@subsection}
19339 \renewcommand*{\thesubsubsection}{\%
19340     \thesubsection\@SepMark\@arabic\c@subsubsection}
19341 \renewcommand*{\theparagraph}{\%
19342     \thesubsubsection\@SepMark\@arabic\c@paragraph}
19343 \renewcommand*{\thesubparagraph}{\%
19344     \theparagraph\@SepMark\@arabic\c@subparagraph}
19345 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
19346 \renewcommand{\theequation}{\%
19347     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19348 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
19349 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
19350 \ifartopt
19351     \chapterstyle{article}
19352     \counterwithout{figure}{chapter}
19353     \counterwithout{table}{chapter}
19354     \counterwithout{footnote}{chapter}
19355     \counterwithout{equation}{chapter}
19356     \renewcommand{\chaptername}{}
19357     \renewcommand{\maketitlehookb}{\%
19358         \vskip -1.5\topsep\vskip -1.5\partopsep}
19359     \renewcommand{\maketitlehookc}{\%
19360         \vskip -1.5\topsep\vskip -1.5\partopsep}
19361 \fi
19362 \long\def\@makecaption#1#2{\let\@memtempa\relax
19363     \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
19364     \else \def\@memtempa{\vbox to\topskip{}}\fi
19365     \let\@contfnote\footnote \renewcommand{\footnote}[2]{}
19366     \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1]{}
19367     \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
19368     \let\footnote\@contfnote
19369     \let\footnotemark\@contfmark

```



```

19370 \ifdim\wd\@tempboxa<\linewidth \centering \fi
19371 \if@contcw
19372   \centering
19373   \parbox{\@contcwidth}{%
19374     \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
19375   \fi
19376 \ifdim\wd\@tempboxa<\linewidth
19377   \@contpre
19378   {\@contnfont #1\@contdelim}\@memtempa
19379   {\@contcshortstyle \@conttfont #2\@contfinal\par}
19380 \else
19381   \if@conthang
19382     \sbox\@tempboxa{\@contnfont #1\@contdelim}
19383     \@contpre%
19384     {\@contcstyle\hangindent=\wd\@tempboxa
19385      \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
19386   \else
19387     \if@contindent
19388       \@contpre%
19389       {\@contnfont #1\@contdelim}\@memtempa
19390       {\@contcstyle\hangindent=\@contindw
19391        \hangafter=\@cne\@conttfont #2\@contfinal\par}% <- v1.4
19392     \else
19393       \@contpre%
19394       {\@contnfont #1\@contdelim}\@memtempa
19395       {\@contcstyle \@conttfont #2\@contfinal\par}
19396     \fi
19397   \fi
19398 \fi
19399 \@contpost
19400 \if@contcw
19401   \par
19402 } % end of the \parbox
19403 \fi
19404 \vskip\belowcaptionskip}
19405 \ifpackageloaded{caption}{%
19406 \AtBeginPackage{caption}{%
19407 \ClassWarningNoLine{memoir}{%
19408   You are using the caption package with the memoir \MessageBreak
19409   class. This may cause unexpected or inconsistent \MessageBreak
19410   results if you use any of memoir's captioning facilities}
19411 }
19412 \long\def\@makecaption##1##2{%
19413   \vskip\abovecaptionskip
19414   \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
19415   \ifdim \wd\@tempboxa >\hsize
19416     \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
19417   \else
19418     \global \@minipagefalse
19419     \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
19420   \fi
19421   \vskip\belowcaptionskip}
19422 }
19423 \def\caption{%

```



```

19424 \ifx\@capytype\@undefined
19425 \latexerror{\noexpand\caption outside float}\@ehd
19426 \expandafter\@gobble
19427 \else
19428 \refstepcounter\@capytype
19429 \expandafter\@firstofone
19430 \fi
19431 {\@dblarg{\@caption\@capytype}}%
19432 }
19433
19434 \long\def\@caption##1[##2]##3{%
19435 \par
19436 \addcontentsline{\csname ext@##1\endcsname}{##1}%
19437 {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
19438 \begingroup
19439 \@parboxrestore
19440 \if@minipage
19441 \@setminipage
19442 \fi
19443 \normalsize
19444 \@makecaption{\csname fnum@##1\endcsname}{\ignorespaces ##3}\par
19445 \endgroup}
19446 }}{}
19447 \renewenvironment{thebibliography}[1]{%
19448 \bibsection
19449 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19450 \bidi@thebibliography@font@hook%
19451 \begin{bibitemlist}{#1}}{\end{bibitemlist}}\postbibhook}

```

## 116 File midfloat-xetex-bidi.def

```

19452 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
19453 \def\RTL@outputdblcol{%
19454 \if@firstcolumn
19455 \global \@firstcolumnfalse
19456 \global\setbox\@leftcolumn\copy\@outputbox
19457 \splitmaxdepth\maxdimen
19458 \vbadness\maxdimen
19459 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19460 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19461 \toks@\expandafter{\topmark}%
19462 \xdef\@firstcoltopmark{\the\toks@}%
19463 \toks@\expandafter{\splitfirstmark}%
19464 \xdef\@firstcolfirstmark{\the\toks@}%
19465 \ifx\@firstcolfirstmark\@empty
19466 \global\let\@setmarks\relax
19467 \else
19468 \gdef\@setmarks{%
19469 \let\firstmark\@firstcolfirstmark
19470 \let\topmark\@firstcoltopmark}%
19471 \fi
19472 \global\c@colht\@colht\global\c@advipersep\z@
19473 \ifnum\juo@sk>0
19474 \remove@strip\juo@sar

```



```

19475 \global\@colht\the\jua@pr
19476 \ifdim\right@cor>\z@
19477 \global\advance\@colht by\right@cor
19478 \fi
19479 \global\advance\@colht by\cor@height
19480 \global\cor@height=0pt
19481 \fi
19482 \global\setbox\@rightcolumn\ vbox{}\%
19483 \else
19484 \ifdim\c@colht>\@colht
19485 \@tempdima\@colht
19486 \ifdim\@colht>\z@
19487 \global\setbox\@rightcolumn\ vbox{%
19488 \unvbox\@rightcolumn
19489 \vbox to\@tempdima{%
19490 \vskip\c@addvipersep\unvbox\@outputbox}%
19491 \vskip\stripsep
19492 \vrule height\the\jua@ht width Opt depth Opt
19493 \vskip\stripsep
19494 }%
19495 \global\c@addvipersep\m@addvipersep
19496 \else
19497 \global\setbox\@rightcolumn\ vbox{%
19498 \unvbox\@rightcolumn
19499 \vrule height\the\jua@ht width Opt depth Opt
19500 \vskip\stripsep
19501 }%
19502 \fi
19503 \ifnum\jua@sk>0
19504 \remove@strip\jua@sar
19505 \global\@colht\the\jua@pr
19506 \global\advance\@colht by-\ht\@rightcolumn
19507 \global\advance\@colht by\cor@height
19508 \global\cor@height=0pt
19509 \else
19510 \global\advance\c@colht by-\ht\@rightcolumn
19511 \global\@colht\c@colht
19512 \fi
19513 \else
19514 \global\@firstcolumntrue
19515 \global\setbox\@outputbox\ vbox to\ht\@leftcolumn{%
19516 \unvbox\@rightcolumn
19517 \vskip\c@addvipersep
19518 \unvbox\@outputbox
19519 }%
19520 \setbox\@outputbox\ vbox {%
19521 \hb@xt@\textwidth {%
19522 \hskip\columnwidth
19523 \hfil
19524 \vrule \@width\columnseprule
19525 \hfil
19526 \hb@xt@\columnwidth {%
19527 \bidi@firstcolumn@status@write%
19528 \box\@leftcolumn\hss}%

```



```

19529 \hskip-\textwidth
19530 \hb@xt@\columnwidth {%
19531 \bidi@lastcolumn@status@write%
19532 \box\@outputbox \hss}%
19533 \hskip\columnwidth
19534 \hskip\columnsep}%
19535 }%
19536 \@combinedblfloats
19537 \@setmarks
19538 \@outputpage
19539 \begingroup
19540 \@dblfloatplacement
19541 \@startdblcolumn
19542 \@whilesw\if@fcolmade \fi
19543 {\@outputpage
19544 \@startdblcolumn}%
19545 \endgroup
19546 \global\jua@sk=0\global\jua@sar={}
19547 \global\cor@height\z@\global\c@advvipersep\z@
19548 \fi
19549 \fi
19550 }
19551
19552
19553 \def\LTR@outputdblcol{%
19554 \if@firstcolumn
19555 \global \@firstcolumnfalse
19556 \global\setbox\@leftcolumn\copy\@outputbox
19557 \splitmaxdepth\maxdimen
19558 \vbadness\maxdimen
19559 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19560 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19561 \toks@\expandafter{\topmark}%
19562 \xdef\@firstcoltopmark{\the\toks@}%
19563 \toks@\expandafter{\splitfirstmark}%
19564 \xdef\@firstcolfirstmark{\the\toks@}%
19565 \ifx\@firstcolfirstmark\@empty
19566 \global\let\@setmarks\relax
19567 \else
19568 \gdef\@setmarks{%
19569 \let\firstmark\@firstcolfirstmark
19570 \let\topmark\@firstcoltopmark}%
19571 \fi
19572 \global\c@colht\@colht\global\c@advvipersep\z@
19573 \ifnum\jua@sk>0
19574 \remove@strip\jua@sar
19575 \global\@colht\the\jua@pr
19576 \ifdim\right@cor>\z@
19577 \global\advance\@colht by\right@cor
19578 \fi
19579 \global\advance\@colht by\cor@height
19580 \global\cor@height=0pt
19581 \fi
19582 \global \setbox\@rightcolumn \vbox{}%

```



```

19583 \else
19584 \ifdim\c@colht>\@colht
19585 \@tempdima\@colht
19586 \ifdim\@colht>\z@
19587 \global\setbox\@rightcolumn \vbox{%
19588 \unvbox\@rightcolumn
19589 \vbox to\@tempdima{%
19590 \vskip\c@addvipersep\unvbox\@outputbox}%
19591 \vskip\stripsep
19592 \vrule height\the\jua@ht width Opt depth Opt
19593 \vskip\stripsep
19594 }%
19595 \global\c@addvipersep\m@addvipersep
19596 \else
19597 \global\setbox\@rightcolumn \vbox{%
19598 \unvbox\@rightcolumn
19599 \vrule height\the\jua@ht width Opt depth Opt
19600 \vskip\stripsep
19601 }%
19602 \fi
19603 \ifnum\jua@sk>0
19604 \remove@strip\jua@sar
19605 \global\@colht\the\jua@pr
19606 \global\advance\@colht by-\ht\@rightcolumn
19607 \global\advance\@colht by\cor@height
19608 \global\cor@height=Opt
19609 \else
19610 \global\advance\c@colht by-\ht\@rightcolumn
19611 \global\@colht\c@colht
19612 \fi
19613 \else
19614 \global\@firstcolumntrue
19615 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
19616 \unvbox\@rightcolumn
19617 \vskip\c@addvipersep
19618 \unvbox\@outputbox
19619 }%
19620 \setbox\@outputbox \vbox {%
19621 \hb@xt@\textwidth {%
19622 \hb@xt@\columnwidth {%
19623 \bidi@firstcolumn@status@write%
19624 \box\@leftcolumn \hss}%
19625 \hfil
19626 \vrule \@width\columnseprule
19627 \hfil
19628 \hb@xt@\columnwidth {%
19629 \bidi@lastcolumn@status@write%
19630 \box\@outputbox \hss}%
19631 }%
19632 }%
19633 \@combinedblfloats
19634 \@setmarks
19635 \@outputpage
19636 \begingroup

```



```

19637     \@dblfloatplacement
19638     \@startdblcolumn
19639     \@whilesw\if@fcolmade \fi
19640     {\@outputpage
19641     \@startdblcolumn}%
19642 \endgroup
19643 \global\jua@sk=0\global\jua@sar={}%
19644 \global\cor@height\z@\global\c@addvipersep\z@
19645 \fi
19646 \fi
19647 }
19648
19649
19650 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
19651 \global \setbox\@viper\ vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\f
19652     \hsize\textwidth
19653     \@parboxrestore
19654     \col@number \@ne
19655     \vrule height\topskip width0pt depth0pt
19656 }
19657
19658 \def\endstrip{%
19659     \egroup\egroup
19660     \if@firstcolumn
19661         \ifdim\pagetotal>\z@
19662             \vskip\stripsep
19663             \global\ht@strip\pagegoal
19664             \global\advance\ht@strip by-\pagetotal
19665             \global\advance\ht@strip by-\stripsep
19666             \global\advance\ht@strip by-\ht\@viper
19667             \global\advance\ht@strip by-\stripsep
19668             \global\jua@ht=\ht\@viper
19669         \else
19670             \global\ht@strip\z@
19671         \fi
19672         \ifdim\ht@strip>\z@
19673             \unvbox\@viper
19674             \vskip\stripsep
19675             \add@strip{\the\pagetotal}{\the\jua@ht}{\the\@tempdima}{\the\@tempdimb}%
19676             \global\advance\jua@sk by1
19677         \else
19678             \@latex@error{Strip needs more place!}\@ehc
19679             \if@vihproof
19680                 \framebox[\columnwidth]{??? Strip ???}%
19681             \fi
19682         \fi
19683     \else
19684         \@latex@error{Strip is used only on left column!}\@ehc
19685         \if@vihproof
19686             \framebox[\columnwidth]{??? Strip ???}%
19687         \fi
19688     \fi
19689 }

```





## 117 File minitoc-xetex-bidi.def

```
19690 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package]
19691 \def\@undottedtocline#1#2#3#4#5{%
19692   \ifnum #1>\c@tocdepth\relax \else
19693     \vskip \z@ plus.2\p@
19694     {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrm
19695     \parindent #2\relax\@afterindenttrue
19696     \interlinepenalty\@M
19697     \leavevmode
19698     \@tempdima #3\relax \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \hbox{}%
19699     \hskip -\if@RTL\rightskip\else\leftskip\fi
19700     #4\nobreak\hfill \nobreak
19701     \null\par}%
19702   \fi}
19703 \def\@Undottedtocline#1#2#3#4#5{%
19704   \ifnum #1>\c@tocdepth\relax \else
19705     \vskip \z@ \@plus.2\p@
19706     {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrm
19707     \parindent #2\relax\@afterindenttrue
19708     \interlinepenalty\@M
19709     \leavevmode
19710     \@tempdima #3\relax
19711     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
19712     {\coffee font #4}\nobreak \nobreak\hfill
19713     \par}%
19714   \fi}
19715 \def\@Undottedtocline#1#2#3#4#5{%
19716   \ifnum #1>\c@tocdepth\relax \else
19717     \vskip \z@ \@plus.2\p@
19718     {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrm
19719     \parindent #2\relax\@afterindenttrue
19720     \interlinepenalty\@M
19721     \leavevmode
19722     \@tempdima #3\relax
19723     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
19724     {#4}\nobreak \hfill \nobreak\hfill
19725     \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
19726   \par}%
19727   \fi}
```

## 118 File multicol-xetex-bidi.def

```
19728 \ProvidesFile{multicol-xetex-bidi.def}[2022/07/10 v1.4 bidi adaptations for multicol package]
19729 \def\page@sofar{%
19730   \process@cols\mult@rightbox
19731     {\ifvoid\count@
19732       \setbox\count@\hbox to\hsize{}%
19733       \else
19734         \wd\count@\hsize
19735       \fi}%
19736   \count@\col@number \advance\count@\m@ne
19737   \mult@info\z@
19738   {Column spec: \the\full@width\space = indent
```



```

19739             + columns + sep =\MessageBreak
19740         \the\multicol@leftmargin\space
19741         + \the\col@number\space
19742         x \the\hsize\space
19743         + \the\count@\space
19744         x \the\columnsep
19745     }%
19746 \ifvmode\else\errmessage{Multicol Error}\fi
19747 \nointerlineskip
19748 \setbox\z@\hbox{p}\global\dimen\tw@\dp\z@
19749 \moveright\multicol@leftmargin
19750 \hbox to\full@width{%
19751     \bidi@multicol@align@columns
19752     \rlap{\phantom p}%
19753 }%
19754 \prevdepth\z@
19755 \kern-\dimen\tw@
19756 \ifdim\dimen\tw@ > \mc@gridwarn
19757 \PackageWarning{multicol}%
19758 {Very deep columns!\MessageBreak
19759 Grid alignment might be broken}%
19760 \fi
19761 }
19762 \def\LTR@column@boxes{%
19763     \process@cols\mult@firstbox{%
19764         \ifdim\dp\count@>\dimen\tw@
19765             \global\dimen\tw@\dp\count@ \fi
19766         \mc@col@status@write
19767         \box\count@
19768         \hss{\columnseprulecolor\vrule
19769             \@width\columnseprule}\hss}%
19770     \ifdim\dp\mult@rightbox>\dimen\tw@
19771         \global\dimen\tw@\dp\mult@rightbox \fi
19772     \mc@lastcol@status@write
19773     \box\mult@rightbox
19774 }
19775
19776 \def\RTL@column@boxes{%
19777     \process@cols\mult@firstbox{%
19778         \hskip\hsize
19779         \hss{\columnseprulecolor\vrule
19780             \@width\columnseprule}\hss
19781     }%
19782     \hskip\hsize
19783     \process@cols\mult@firstbox{%
19784         \ifdim\dp\count@>\dimen\tw@
19785             \global\dimen\tw@\dp\count@ \fi
19786         \hskip-\hsize
19787         \mc@col@status@write
19788         \box\count@
19789         \hskip-\hsize
19790         \hskip-\columnsep
19791     }%
19792     \ifdim\dp\mult@rightbox>\dimen\tw@

```



```

19793     \global\dimen\tw@\dp\mult@rightbox \fi
19794     \hskip-\hsize
19795     \mc@lastcol@status@write
19796     \box\mult@rightbox
19797     \hskip-\hsize
19798     \hskip\full@width
19799 }
19800
19801 \newcommand\RTLmulticolcolumns
19802     {\let\bidimulticol@align@columns
19803         \RTL@column@boxes}
19804 \newcommand\LTRmulticolcolumns
19805     {\let\bidimulticol@align@columns
19806         \LTR@column@boxes}
19807 \newcommand\bidimulticol@align@columns
19808     {\ifRTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
19809 \bidi@AtEndPreamble{%
19810     \if@bidi@csdef{footinsv@1}{%
19811         \def\footnoterule{\kern-3\p@
19812             \hrule \@width \textwidth \kern 2.6\p@}%
19813     }{}%
19814 }
19815 \def\multicols#1{\col@number#1\relax
19816     \ifnum\col@number<\tw@
19817         \PackageWarning{multicol}%
19818             {Using '\number\col@number'
19819             columns doesn't seem a good idea.^^J
19820             I therefore use two columns instead}%
19821         \col@number\tw@ \fi
19822     \ifnum\col@number>20
19823         \PackageError{multicol}%
19824             {Too many columns}%
19825             {Current implementation doesn't
19826             support more than 20 columns.%
19827             \MessageBreak
19828             I therefore use 20 columns instead}%
19829         \col@number20 \fi
19830     \ifx\@footnotetext\mult@footnotetext
19831     \else
19832         \let\orig@footnotetext\@footnotetext
19833         \let\@footnotetext\mult@footnotetext
19834     \fi
19835     \ifx\@LTRfootnotetext\mult@LTRfootnotetext
19836     \else
19837         \let\orig@LTRfootnotetext\@LTRfootnotetext
19838         \let\@LTRfootnotetext\mult@LTRfootnotetext
19839     \fi
19840     \ifx\@RTLfootnotetext\mult@RTLfootnotetext
19841     \else
19842         \let\orig@RTLfootnotetext\@RTLfootnotetext
19843         \let\@RTLfootnotetext\mult@RTLfootnotetext
19844     \fi
19845     \@ifnextchar[\mult@cols{\mult@cols[]}]
19846 \long\def\mult@footnotetext#1{\begingroup

```



```

19847         \hsize\textwidth
19848         \columnwidth\textwidth
19849         \orig@footnotetext{#1}\endgroup}
19850 \long\def\mult@LTRfootnotetext#1{\begingroup
19851         \hsize\textwidth
19852         \columnwidth\textwidth
19853         \orig@LTRfootnotetext{#1}\endgroup}
19854 \long\def\mult@RTLfootnotetext#1{\begingroup
19855         \hsize\textwidth
19856         \columnwidth\textwidth
19857         \orig@RTLfootnotetext{#1}\endgroup}
19858 \def\right@footnoterule{%
19859     \kern-3\p@
19860     \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
19861     \kern2.6\p@}
19862 \def\textwidth@footnoterule{\kern-3\p@
19863     \hrule \@width \textwidth \kern 2.6\p@}
19864 \def\bidileave@mult@copyins{%
19865     \advance\dimen@-\skip\@bidi@copyins@
19866     \advance\dimen@-\ht\@bidi@copyins@
19867 }
19868
19869 \bidi@AtEndPreamble{%
19870     \if@bidi@csundef{footinsv@1}{%
19871         \bidi@patchcmd{\multi@column@out}{%
19872             \ifvbox \@kludgeins
19873         }{%
19874             \ifvoid\@bidi@copyins@ \else
19875                 \bidileave@mult@copyins
19876             \fi
19877             \ifvbox \@kludgeins
19878         }{}{}%
19879     }{}%
19880 }
19881
19882

```

## 119 File multienum-xetex-bidi.def

```

19883 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum pack
19884 \renewcommand{\itemx}[1]{\parbox[t]%
19885 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19886 \parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
19887 \renewcommand{\itemxx}[2]{\parbox[t]%
19888 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19889 \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19890 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19891 \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
19892 \renewcommand{\itemxxx}[3]{\parbox[t]%
19893 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19894 \parbox[t]{.333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19895 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19896 \parbox[t]{0.333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]%
19897 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%

```



```

19898 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
19899 \renewcommand{\itemxxxx}[4]{\parbox[t]{%
19900 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19901 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
19902 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19903 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19904 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19905 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
19906 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19907 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
19908 \renewcommand{\itemxxxxx}[5]{\parbox[t]{%
19909 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19910 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #1}\hfill%
19911 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19912 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #2}\hfill%
19913 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19914 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #3}\hfill%
19915 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19916 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #4}\hfill%
19917 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19918 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #5}\smallskip}
19919 \renewcommand{\itemxox}[2]{\parbox[t]{%
19920 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19921 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
19922 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19923 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
19924 \renewcommand{\itemxox}[2]{\parbox[t]{%
19925 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19926 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
19927 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19928 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
19929 \renewcommand{\itemxox}[3]{\parbox[t]{%
19930 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19931 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
19932 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19933 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19934 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19935 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
19936 \renewcommand{\itemxxox}[3]{\parbox[t]{%
19937 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19938 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
19939 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19940 \parbox[t]{\remainxox}{\bidi@raggedright #2}\hfill%
19941 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19942 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
19943 \renewcommand{\itemxxox}[3]{\parbox[t]{%
19944 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19945 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
19946 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19947 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19948 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19949 \parbox[t]{\remainxox}{\bidi@raggedright #3}\smallskip}

```



## 120 File natbib-xetex-bidi.def

```
19950 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package fo
19951 \renewenvironment{thebibliography}[1]{%
19952   \bibsection
19953   \parindent\z@
19954   \bibpreamble
19955   \bibfont
19956   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19957   \bidi@thebibliography@font@hook%
19958   \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
19959   \ifNAT@openbib
19960     \renewcommand\newblock{\par}%
19961   \else
19962     \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
19963   \fi
19964   \sloppy\clubpenalty4000\widowpenalty4000
19965   \sfcode`\.\@m
19966   \let\NAT@bibitem@first@sw\@firstoftwo
19967   \let\citeN\cite \let\shortcite\cite
19968   \let\citeasnoun\cite
19969 }{%
19970   \bibitem@fin
19971   \bibpostamble
19972   \def\@noitemerr{%
19973     \PackageWarning{natbib}{Empty `thebibliography' environment}%
19974   }%
19975   \endlist
19976   \bibcleanup
19977 }%
```

## 121 File newfloat-xetex-bidi.def

```
19978 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat packag
19979 \renewcommand*\newfloat@setwithin[2]{%
19980   \ifcsname c@chapter\endcsname
19981     \@removefromreset{#1}{chapter}%
19982   \fi
19983   \@removefromreset{#1}{section}%
19984   \edef\@tempa{#2}%
19985   \ifx\@tempa\@empty
19986     \def\@tempa{none}%
19987   \fi
19988   \def\@tempb{none}%
19989   \ifx\@tempa\@tempb
19990     \ifcsname c@chapter\endcsname
19991       \@chapterlistsgap@off{#1}%
19992     \fi
19993     \newfloat@@setwithin{#1}{\@tempa}%
19994   \else
19995     \def\@tempb{chapter}%
19996     \ifx\@tempa\@tempb
19997       \@addtoreset{#1}{chapter}%
19998       \@chapterlistsgap@on{#1}%
19999     \fi
20000   \fi
20001 }
```



```

19999      \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@
20000      \else
20001      \def\@tempb{section}%
20002      \ifx\@tempa\@tempb
20003      \@addtoreset{#1}{section}%
20004      \ifcsname c@chapter\endcsname
20005      \@addtoreset{#1}{chapter}%
20006      \@chapterlistsgap@on{#1}%
20007      \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
20008      \else
20009      \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection\@
20010      \fi
20011      \else
20012      \newfloat@Error{Invalid value `#2' for option `within'}%
20013      \fi
20014      \fi
20015      \fi}

```

## 122 File nicematrix-xetex-bidi.def

```

20016 \ProvidesFile{nicematrix-xetex-bidi.def}[2022/07/18 v0.2 bidi adaptations for nicematrix pa
20017 \ExplSyntaxOn
20018 \bidi@patchcmd{\__nicematrix_array:n}{\@tabarray}{%
20019   \bool_if:NF \l__nicematrix_NiceTabular_bool \@RTLtabfalse
20020   \@tabarray
20021 }{}{}
20022 \ExplSyntaxOff
20023

```

## 123 File nththeorem-xetex-bidi.def

```

20024 \ProvidesFile{nththeorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for nththeorem packag
20025 \gdef\@thm#1#2#3{%
20026   \if@thmmarks
20027     \stepcounter{end\InTheoType ctr}%
20028   \fi
20029   \renewcommand{\InTheoType}{#1}%
20030   \if@thmmarks
20031     \stepcounter{curr#1ctr}%
20032     \setcounter{end#1ctr}{0}%
20033   \fi
20034   \refstepcounter{#2}%
20035   \theorem@prework
20036   \thm@topsepadd \theorem@postskipamount % cf. latex.ltx: \@trivlist
20037   \ifvmode \advance\thm@topsepadd\partopsep\fi
20038   \trivlist
20039   \@topsep \theorem@preskipamount
20040   \@topsepadd \thm@topsepadd % used by \@endparenv
20041   \advance\linewidth -\theorem@indent
20042   \advance\@totalleftmargin \theorem@indent
20043   \ifRTL\parshape \@ne Opt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
20044   \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```



## 124 File ntheorem-hyper-xetex-bidi.def

```

20045 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-
20046 \gdef\@thm#1#2#3{%
20047   \if@thmmarks
20048     \stepcounter{end\InTheoType ctr}%
20049   \fi
20050   \renewcommand{\InTheoType}{#1}%
20051   \if@thmmarks
20052     \stepcounter{curr#1ctr}%
20053     \setcounter{end#1ctr}{0}%
20054   \fi
20055   \refstepcounter{#2}%
20056   \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
20057   \ifvmode \advance\thm@topsepadd\partopsep\fi
20058   \trivlist
20059   \@topsep \theorempreskipamount
20060   \@topsepadd \thm@topsepadd % used by \@endparenv
20061   \advance\linewidth -\theorem@indent
20062   \advance\@totalleftmargin \theorem@indent
20063   \if@RTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
20064   \@ifnextchar[\@ythm{#1}{#2}{#3}]{\@xthm{#1}{#2}{#3}}

```

## 125 File overpic-xetex-bidi.def

```

20065 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package
20066 \renewenvironment{overpic}[2] [] {%
20067   \sbox{\z@}{\includegraphics[#1]{#2}}%
20068   \settodepth{\@tempcnta}{\usebox{\z@}}%
20069   \settoheight{\@tempcntb}{\usebox{\z@}}%
20070   \advance\@tempcntb\@tempcnta%
20071   \settowidth{\@tempcnta}{\usebox{\z@}}%
20072   \setlength{\@tempdima}{\unitlength}%
20073   \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
20074 %
20075 \OVP@calc%
20076 %
20077 \begin{picture}(\@tempcnta,\@tempcntb)%
20078   \if@RTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}%
20079   \ifGin@grid%
20080     \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
20081       \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
20082   \fi\fi%
20083   % reset the graphics parameter
20084   \let\Gin@outer@scalex\relax
20085   \let\Gin@outer@scaley\relax
20086   \let\Gin@angle\relax
20087   \let\Gin@ewidth\Gin@exclamation
20088   \let\Gin@eheight\Gin@ewidth
20089   \def\Gin@scalex{1}
20090   \let\Gin@scaley\Gin@exclamation
20091 }{%
20092   \if@RTL\ifGin@grid%
20093     \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%

```





```

20094      \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
20095      \fi%
20096      \put(0,0){\makebox(0,0)[bl]{\usebox{z@}}}\fi%
20097      \end{picture}%
20098 }%

```

## 126 File pdfbase-xetex-bidi.def

```

20099 \ProvidesFile{pdfbase-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for pdfbase package]
20100 \ExplSyntaxOn
20101 \cs_set_eq:NN\pbs_outputpage_orig:\@outputpage
20102 \cs_set_nopar:Npn\@outputpage{
20103   \int_gincr:N\g_pbs_page_int
20104   \box_if_vertical:cTF{\outputbox}{
20105     \bool_set_true:N\l_pbs_is_vertical_bool
20106   }{
20107     \bool_set_false:N\l_pbs_is_vertical_bool
20108   }
20109   \hbox_set:Nn\@outputbox{
20110     %begin of page
20111     \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
20112     \box_use_drop:N\@outputbox
20113     %end of page
20114     \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
20115   }
20116   \bool_if:NT\l_pbs_is_vertical_bool{
20117     \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
20118   }
20119   \pbs_outputpage_orig:
20120 }
20121 \ExplSyntaxOff

```

## 127 File pdfscape-xetex-bidi.def

```

20122 \ProvidesFile{pdfscape-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for pdfscape package]
20123 \bidi@patchcmd{\landscape}{\PLS@Rotate{90}}{%
20124   \if@RTL
20125     \PLS@Rotate{-90}%
20126   \else
20127     \PLS@Rotate{90}%
20128   \fi
20129 }{}{}

```

## 128 File pdfpages-xetex-bidi.def

```

20130 \ProvidesFile{pdfpages-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for pdfpages package]
20131 \renewcommand*{\includepdf}[2][{}]{%
20132   \begin{group}
20133     \@RTLfalse
20134     \let\AM@threadname\relax
20135     \AM@split@options{pdfpages}{#1}%
20136     \edef\AM@temp{{pdfpages}{\the\@temptokena}}%
20137     \expandafter\setkeys\AM@temp
20138     \ifthenelse{\boolean{AM@pkg@draft}\and\boolean{AM@survey}}{%

```



```

20139 \let\AM@currentdocname\relax
20140 \renewcommand\includegraphics[2][]{Survey in draft-mode}%
20141 \def\AM@pagecount{0}%
20142 }{%
20143 \AM@findfile{#2}%
20144 \if\AM@threadname\relax
20145 \def\AM@threadname{\AM@currentdocname}%
20146 \fi
20147 }%
20148 \ifAM@survey
20149 \def\AM@pagestemp{}%
20150 \@tempcnta=0
20151 \def\foo{%
20152 \ifundefined{r@\AM@xrprefix pdfpages@page\the\@tempcnta}%
20153 {\let\foo\relax}
20154 {\expandafter\ifx\expandafter\\AM@pagestemp\\
20155 \edef\AM@pagestemp{%
20156 \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}%
20157 \else
20158 \edef\AM@pagestemp{\AM@pagestemp,%
20159 \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}%
20160 \fi
20161 \advance\@tempcnta 1\relax
20162 }%
20163 \foo
20164 }%
20165 \foo
20166 \expandafter\ifx\expandafter\\AM@pagestemp\\
20167 \def\AM@pagestemp{1}%
20168 \fi
20169 \fi
20170 \ifAM@output
20171 \expandafter\AM@readlist\expandafter{\AM@pagestemp}%
20172 \AM@output{#1}%
20173 \fi
20174 \AM@CheckAtEnd
20175 \endgroup
20176 \AM@ClearShipoutPicture
20177 }

```

## 129 File pgfcorescopes.code-xetex-bidi.def

```

20178 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf p
20179 \def\pgfpicture{%
20180 \begingroup%
20181 \ifmmode\else\@RTLfalse\beginL\fi%
20182 \pgfpicturetrue%
20183 \global\advance\pgf@picture@serial@count by1\relax%
20184 \edef\pgfpictureid{pgfid\the\pgf@picture@serial@count}%
20185 \let\pgf@nodecallback=\pgfutil@gobble%
20186 \pgf@picmaxx=-16000pt\relax%
20187 \pgf@picminx=16000pt\relax%
20188 \pgf@picmaxy=-16000pt\relax%
20189 \pgf@picminy=16000pt\relax%

```



```

20190 \pgf@relevantforpicturesizetrue%
20191 \pgf@resetpathsizes%
20192 \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture}
20193 \def\endpgfpicture{%
20194 \ifpgfrememberpicturepositiononpage%
20195 \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}}%
20196 \fi%
20197 % ok, now let's position the box
20198 \ifdim\pgf@picmaxx=-16000pt\relax%
20199 % empty picture. make size 0.
20200 \global\pgf@picmaxx=0pt\relax%
20201 \global\pgf@picminx=0pt\relax%
20202 \global\pgf@picmaxy=0pt\relax%
20203 \global\pgf@picminy=0pt\relax%
20204 \fi%
20205 % Shift baseline outside:
20206 \pgf@relevantforpicturesizefalse%
20207 \pgf@process{\pgf@baseline}%
20208 \xdef\pgf@shift@baseline{\the\pgf@y}%
20209 %
20210 \pgf@process{\pgf@trimleft}%
20211 \global\advance\pgf@x by-\pgf@picminx
20212 % prepare \hskip\pgf@trimleft@final.
20213 % note that \pgf@trimleft@final is also queried
20214 % by the pgf image externalization.
20215 \xdef\pgf@trimleft@final{-\the\pgf@x}%
20216 %
20217 \pgf@process{\pgf@trimright}%
20218 \global\advance\pgf@x by-\pgf@picmaxx
20219 % prepare \hskip\pgf@trimright@final.
20220 % note that \pgf@trimright@final is also queried
20221 % by the pgf image externalization.
20222 \xdef\pgf@trimright@final{\the\pgf@x}%
20223 %
20224 \pgf@remember@layerlist@globally
20225 \endgroup%
20226 \hss%
20227 \egroup%
20228 \pgf@restore@layerlist@from@global
20229 \pgf@insertlayers%
20230 \endgroup%
20231 \pgfsys@discardpath%
20232 \endgroup%
20233 \pgfsys@endscope%
20234 \pgfsys@endpicture%
20235 \endgroup%
20236 \hss
20237 \egroup%
20238 \pgfsys@typesetpicturebox\pgfpic%
20239 \ifmmode\else\endL\fi%
20240 \endgroup%
20241 }

```



## 130 File pgfsys.code-xetex-bidi.def

```
20242 \ProvidesFile{pgfsys.code-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for pgfsys.code.
20243 \def\pgfsys@shadingoutsidepgfpicture#1{%
20244   \beginL#1\endL%
20245 }
20246
20247
```

## 131 File picinpar-xetex-bidi.def

```
20248 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar packag
20249 \long\def\@makewincaption#1#2{%
20250   \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
20251   \ifdim\wd\@tempboxa>\picwd
20252     {\footnotesize{\bf #1:\enspace}{#2\par}}
20253   \else
20254     \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
20255   \fi}
20256 \def\endwindow{%
20257   \global\tcd=\tcdsav
20258   \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
20259   \vbadness=10000
20260   \splittopskip=0pt
20261 %
20262 % Typeset the lines above the window
20263 %
20264 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
20265 \tcn=\tcd
20266 \loop\advance\tcn -1
20267 \setbox\fslice=\vsplit\holder to\baselineskip
20268 \prune\fslice\linewidth
20269 \topheight=0pt
20270 \ifnum\dp\fslice>\dp\wstrutbox
20271   \advance\topheight-\dp\fslice
20272   \advance\topheight\dp\wstrutbox
20273   \advance\topheight\ilg\fi
20274 \hbox to\linewidth{\box\fslice}
20275 \vskip-\topheight
20276 \ifdim\ht\holder>0pt\repeat
20277 \fi
20278 %
20279 % Now we build the boxes beside the window
20280 %
20281 \global\topheight=\tcl\baselineskip
20282 \ifnum\cumpartcl>0\global\tcl=\cumtcl
20283   \global\topheight=\vpic
20284 \fi
20285 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
20286 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
20287 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
20288 \tcn=\tcl \na=0 \nb=0
20289 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
20290 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
```



```

20291 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
20292 \ifnum\na=0\ifnum\nb=0
20293     \setbox\waslice=\vbox to\vpic{\vss}
20294     \setbox\wbslice=\vbox to\vpic{\vss}
20295     \bl=1\br=1
20296     \vskip\ilg
20297 \fi\fi
20298 %
20299 % both sides
20300 %
20301 \ifnum\na>0 \ifnum\nb>0
20302 \loop\advance\nb -1
20303 \advance\na -1
20304 \if@RTL%
20305 \setbox\bslice=\vsplit\holder to\baselineskip
20306 \prune\bslice\rtside
20307 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20308 to\rtside{\box\bslice\hfil}}
20309 \setbox\aslice=\vsplit\holder to\baselineskip
20310 \prune\aslice\lftside
20311 \setbox\waslice=\vbox{\unvbox\waslice\hbox
20312 to\lftside{\box\aslice\hfil}}
20313 \else%
20314 \setbox\aslice=\vsplit\holder to\baselineskip
20315 \prune\aslice\lftside
20316 \setbox\waslice=\vbox{\unvbox\waslice\hbox
20317 to\lftside{\box\aslice\hfil}}
20318 \setbox\bslice=\vsplit\holder to\baselineskip
20319 \prune\bslice\rtside
20320 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20321 to\rtside{\box\bslice\hfil}}
20322 \fi%
20323 \ifnum\nb>0\repeat
20324 \fi\fi
20325 %
20326 % only text on the left side
20327 %
20328 \ifnum\na>0
20329     \loop\advance\na -1
20330     \setbox\aslice=\vsplit\holder to\baselineskip
20331     \prune\aslice\lftside
20332     \setbox\waslice=\vbox{\unvbox\waslice\hbox
20333 to\lftside{\box\aslice\hfil}}
20334     \ifdim\ht\holder>0pt\repeat
20335 \fi
20336 %
20337 % only text on the right side
20338 %
20339 \ifnum\nb>0
20340     \loop\advance\nb -1
20341     \setbox\bslice=\vsplit\holder to\baselineskip
20342     \prune\bslice\rtside
20343     \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20344 to\rtside{\box\bslice\hfil}}

```



```

20345 \ifdim\ht\holder>0pt\repeat
20346 \fi
20347 %
20348 % fixing the dimensions of the window part
20349 %
20350 \ifnum\bl=0\topheight=\ht\wbslice
20351 \else\ifnum\br=0\topheight=\ht\waslice
20352 \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
20353 \else\topheight=\ht\wbslice\fi\fi\fi
20354 %
20355 % ship out the window material to the main vertical list
20356 %
20357 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
20358 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
20359 \fi\fi\fi
20360 \setbox>windowbox=\vbox{\hbox to\linewidth{%
20361 \ifnum\bl>0\box\waslice\hfill\fi%
20362 \vbox to\topheight{\hrule width\picwd height0pt depth0pt\vskip0pt%
20363 \vfill\unvbox\picbox%
20364 \ifnum\picwd>0\vfill\fi%
20365 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
20366 \unvbox>windowbox%
20367 \loop
20368 \setbox\bslice=\vsplit\rawtext to\baselineskip
20369 \prune\bslice\linewidth
20370 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
20371 \unvbox\wbslice
20372 \ifdim\ht\rawtext>0pt
20373 \repeat
20374 }% FINITO

```

## 132 File plain-xetex-bidi.def

```

20375 \def\TeXXeTOn{\TeXXeTstate=1 }
20376 \def\TeXXeTOff{\TeXXeTstate=0 }
20377 \TeXXeTOn
20378 \def\usebox#1{\leavevmode\copy #1\relax}
20379 \def\bidi@RTL@everypar{\setbox\z@lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\useb
20380 \let\bidi@o@everypar=\everypar
20381 \newtoks\bidi@n@everypar
20382 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
20383 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
20384 \let\everypar=\bidi@n@everypar
20385 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
20386 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
20387 \protected\def\hboxR{\hbox\bgroup
20388 \everyhbox{%
20389 \aftergroup\egroup
20390 \everyhbox{}}%
20391 \beginR
20392 \@hboxRconstructtrue
20393 \bgroup
20394 \aftergroup\endR
20395 \aftergroup\egroup

```



```

20396 } \hbox}
20397 \protected\def\hboxL{\hbox\bgroup
20398 \everyhbox{%
20399 \aftergroup\egroup
20400 \everyhbox{}}%
20401 \beginL
20402 \@hboxRconstructfalse
20403 \bgroup
20404 \aftergroup\endL
20405 \aftergroup\egroup
20406 } \hbox}
20407 \protected\def\vboxR{\vbox\bgroup
20408 \everyvbox{%
20409 \aftergroup\egroup
20410 \everyvbox{}}%
20411 \@RTLtrue
20412 \bgroup
20413 \aftergroup\egroup
20414 } \vbox}
20415 \protected\def\vboxL{\vbox\bgroup
20416 \everyvbox{%
20417 \aftergroup\egroup
20418 \everyvbox{}}%
20419 \@RTLfalse
20420 \bgroup
20421 \aftergroup\egroup
20422 } \vbox}
20423 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
20424 \def\endLTR{\par}
20425 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
20426 \def\endRTL{\par}
20427 \def\setRTL{\@RTLtrue\@RTL@footnotetrue}
20428 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}
20429 \let\unsetRTL=\setLTR
20430 \let\unsetLTR=\setRTL
20431 \let\LR=\LRE
20432 \let\RL=\RLE
20433 \def\@ensureRTL#1{\if@RTL#1\else\RLE{#1}\fi}
20434 \def\@ensureLTR#1{\if@RTL\LRE{#1}\else#1\fi}
20435 \let\@ensureRL=\@ensureRTL
20436 \let\@ensureLR=\@ensureLTR
20437 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
20438 \let\@ensure@maindir=\@ensure@dir
20439 \def\@RTL{RTL}
20440 \def\@LTR{LTR}
20441 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
20442 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
20443 \let\@TeX\TeX
20444 \def\TeX{\@ensure@LTR{\@TeX}}
20445 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi}
20446 \dimen@=\dp\@cclv \unvbox\@cclv % open up \box255
20447 \ifvoid\footins\else % footnote info is present
20448 \vskip\skip\footins
20449 \footnoterule

```



```

20450 \unvbox\footins\fi
20451 \ifr@ggedbottom \kern-\dimen@ \vfil \fi
20452 \ifvoid\@bidi@copyins@
20453 \else
20454 \vskip\skip\@bidi@copyins@
20455 \unvbox\@bidi@copyins@
20456 \fi
20457 }
20458 \long\def\@bidi@reflect@box#1{%
20459 \leavevmode
20460 \setbox\z@\hbox{#1}%
20461 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
20462 \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
20463 }
20464 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
20465 \hbox{\kern-.125em\@bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
20466 \let\setRL=\setRTL
20467 \let\setLR=\setLTR
20468 \let\unsetRL=\setLTR
20469 \let\@bidi@samed@eqno=\eqno
20470 \let\@bidi@samed@leqno=\leqno
20471 \def\eqno{\ifnum\predisplaydirection<\z@ \@bidi@samed@leqno \else \@bidi@samed@eqno \fi}
20472 \def\leqno{\ifnum\predisplaydirection<\z@ \@bidi@samed@eqno \else \@bidi@samed@leqno \fi}
20473 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
20474 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
20475 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

### 133 File pstricks-xetex-bidi.def

```

20476 \ProvidesFile{pstricks-xetex-bidi.def}[2022/09/22 v0.6 bidi adaptations for pstricks package]
20477 \def\pspicture{\begingroup\ifmmode\else\@RTLfalse\beginL\fi\pst@ifstar\pst@picture}
20478 \def\endpspicture{%
20479 \ifshowgrid\ifnum\showgridp>0
20480 \psgrid[xunit=\sh@wgridXunit,yunit=\sh@wgridYunit,style=gridstyle]\fi\fi%
20481 \pst@killglue
20482 % \global\pst@shift=\pst@shift% in fact of the following endgroup
20483 \endgroup
20484 \egroup
20485 \ifdim\wd\pst@hbox=\z@\else
20486 %\@pstrickserr{Extraneous space in the pspicture environment}%
20487 %\Type \space <return> \space to proceed.}%
20488 \fi
20489 \ht\pst@hbox=\pst@dimd
20490 \dp\pst@hbox=-\pst@dimb
20491 \setbox\pst@hbox=\hbox{%
20492 \kern-\pst@dimd
20493 % Orig version -----
20494 %\ifx\pst@tempa\@empty\else
20495 %\advance\pst@dimd-\pst@dimb
20496 %\pst@dimd=\pst@tempa\pst@dimd
20497 %\advance\pst@dimd\pst@dimb
20498 %\lower\pst@dimd
20499 %\fi
20500 %----- end Orig

```





```

20501 \ifPst@shift@star%\typeout{==pstricks== old behaviour of the shift option}% shift=*
20502 \advance\pst@dimd-\pst@dimb
20503 \pst@dimd=0.5\pst@dimd
20504 \else\pst@dimd-\pst@shift\fi
20505 \advance\pst@dimd\pst@dimb
20506 \lower\pst@dimd
20507 \box\pst@hbox
20508 \kern\pst@dimc}%
20509 \if@star\setbox\pst@hbox=\hbox{\clipbox@@\z@}\fi
20510 \leavevmode\ifdim\overfullrule=\z@\box\pst@hbox\else
20511 \fbboxsep=0pt
20512 \fbbox{\rule[-\pst@shift]{0pt}{\ht\pst@hbox}\rule{\wd\pst@hbox}{0pt}}\fi
20513 \ifmmode\else\endL\fi
20514 \endgroup%
20515 \psset[pstricks]{shift=0}% reset value
20516 }
20517
20518 \bidi@patchcmd\@@scalebox{%
20519 \special{x: bscale \pst@tempc \pst@tempd}%
20520 \hbox to \z@{\box\pst@hbox\hss}%
20521 \special{x: escale}%
20522 }{%
20523 \if@RTL
20524 \special{x: escale}%
20525 \else
20526 \special{x: bscale \pst@tempc \pst@tempd}%
20527 \fi
20528 \hbox to \z@{\box\pst@hbox\hss}%
20529 \if@RTL
20530 \special{x: bscale \pst@tempc \pst@tempd}%
20531 \else
20532 \special{x: escale}%
20533 \fi
20534 }{}{}
20535 \let\ps@@scalebox\@@scalebox
20536

```

## 134 File quotchap-xetex-bidi.def

```

20537 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
20538 \renewcommand{\qauthor}[1]{%
20539 \par\smallskip
20540 {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\qqquad\hbox{\par}\bigskip}
20541 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
20542 {\size@chapter{\sectfont\if@RTL\raggedright\else\raggedleft\fi
20543 {\chapnumfont
20544 \ifnum \c@secnumdepth >\m@ne%
20545 \if@mainmatter\thechapter%
20546 \fi\fi
20547 \par\nobreak}%
20548 {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi
20549 \nobreak\chapterheadendvskip}}
20550 \renewcommand*{\@iprintcites}{%
20551 \vbox to\z@{\leavevmode\copy\@quotebox\vss}

```



```
20552 \global\let\@printcites\relax}
```

## 135 File ragged2e-xetex-bidi.def

```
20553 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e packag
20554 \renewcommand{\Centering}{%
20555   \ifx\\ \@raggedtwoe@savedcr
20556     \let\\ \@centercr
20557   \fi
20558   \let\@gnewline\@raggedtwoe@gnewline
20559   \if@RTL\rightskip\else\leftskip\fi\CenteringLeftskip
20560   \@rightskip\CenteringRightskip
20561   \if@RTL\leftskip\else\rightskip\fi\@rightskip
20562   \parfillskip\CenteringParfillskip
20563   \parindent\CenteringParindent
20564   \@raggedtwoe@spaceskiptrue
20565   \@raggedtwoe@everyselectfont
20566 }
20567 \renewcommand{\RaggedLeft}{%
20568   \ifx\\ \@raggedtwoe@savedcr
20569     \let\\ \@centercr
20570   \fi
20571   \let\@gnewline\@raggedtwoe@gnewline
20572   \if@RTL\rightskip\else\leftskip\fi\RaggedLeftLeftskip
20573   \@rightskip\RaggedLeftRightskip
20574   \if@RTL\leftskip\else\rightskip\fi\@rightskip
20575   \parfillskip\RaggedLeftParfillskip
20576   \parindent\RaggedLeftParindent
20577   \@raggedtwoe@spaceskiptrue
20578   \@raggedtwoe@everyselectfont
20579 }
20580 \renewcommand{\RaggedRight}{%
20581   \ifx\\ \@raggedtwoe@savedcr
20582     \let\\ \@centercr
20583   \fi
20584   \let\@gnewline\@raggedtwoe@gnewline
20585   \if@RTL\rightskip\else\leftskip\fi\RaggedRightLeftskip
20586   \@rightskip\RaggedRightRightskip
20587   \if@RTL\leftskip\else\rightskip\fi\@rightskip
20588   \parfillskip\RaggedRightParfillskip
20589   \parindent\RaggedRightParindent
20590   \@raggedtwoe@spaceskiptrue
20591   \@raggedtwoe@everyselectfont
20592 }
20593 \renewcommand{\justifying}{%
20594   \let\\ \@raggedtwoe@savedcr
20595   \let\@gnewline\@raggedtwoe@saved@gnewline
20596   \if@RTL\rightskip\else\leftskip\fi\z@
20597   \@rightskip\z@
20598   \if@RTL\leftskip\else\rightskip\fi\@rightskip
20599   \parfillskip\JustifyingParfillskip
20600   \parindent\JustifyingParindent
20601   \@raggedtwoe@spaceskipfalse
20602   \@raggedtwoe@everyselectfont
```



```

20603 }
20604 \def\@raggedtwo@raggedrightboxes@opt{%
20605   \renewcommand{\@arrayparboxrestore}{%
20606     \let\if@nobreak\iffalse
20607     \let\if@noskipsec\iffalse
20608     \let\par\@par
20609     \let\-\@dischyph
20610     \let'\@acci\let`\@accii\let=\@acciii
20611     \parskip\z@skip
20612     \everypar{}%
20613     \linewidth\hsize
20614     \@totalleftmargin\z@
20615     \if@RTL
20616       \RaggedLeft
20617     \else
20618       \RaggedRight
20619     \fi
20620     \lineskip\normallineskip
20621     \baselineskip\normalbaselineskip
20622     \sloppy}%
20623   \let\@raggedtwo@raggedrightboxes@opt\relax
20624 }
20625 \def\@raggedtwo@document@opt{%
20626   \AtBeginDocument{\@raggedtwo@abdhook}%
20627   \@raggedtwo@raggedrightboxes@opt
20628   \@raggedtwo@footmisctrue
20629   \let\@raggedtwo@document@opt\relax
20630 }
20631 \def\@raggedtwo@abdhook{%
20632   \PackageInfo{ragged2e}{ABD: executing '\string\RaggedLeft' for
20633     right to left documents and '\string\RaggedRight' for left
20634     to right documents}%
20635   \if@RTL
20636     \RaggedLeft
20637   \else
20638     \RaggedRight
20639   \fi
20640   \@ifundefined{@tocrmarg}{\edef\tocrmarg{\@tocrmarg plus 2em}}%
20641   \let\@raggedtwo@abdhook\relax
20642 }
20643 \@ifpackagewith{ragged2e}{raggedrightboxes}{%
20644   \@raggedtwo@raggedrightboxes@opt
20645 }{}
20646 \@ifpackagewith{ragged2e}{document}{%
20647   \@raggedtwo@document@opt
20648 }{}
20649 \let\origin@RaggedLeft=\RaggedLeft
20650 \let\origin@RaggedRight=\RaggedRight
20651 \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
20652 \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

## 136 File rapport1-xetex-bidi.def

20653 \ProvidesFile{rapport1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for rapport1 class]



```

20654 \renewenvironment{theindex}{%
20655   \if@twocolumn
20656     \@restonecolfalse
20657   \else
20658     \@restonecoltrue
20659   \fi
20660   \columnseprule \z@
20661   \columnsep 35\p@
20662   \twocolumn[\@makeschapterhead{\indexname}]{%
20663     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
20664     \thispagestyle{plain}\parindent\z@
20665     \parskip\z@ \@plus .3\p@\relax
20666     \let\item\@idxitem
20667   }{%
20668     \if@restonecol\onecolumn\else\clearpage\fi}
20669 \renewcommand*{\head@style}{%
20670   \interlinepenalty \@M
20671   \hyphenpenalty=\@M \exhyphenpenalty=\@M
20672   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
20673 \if@titlepage
20674   \renewenvironment{abstract}{%
20675     \titlepage
20676     \null\vfil
20677     \section*{\SectFont\abstractname}%
20678     \noindent\ignorespaces
20679     {\par\vfil\null\endtitlepage}
20680   \else
20681     \renewenvironment{abstract}{%
20682       \if@twocolumn
20683         \section*{\abstractname}%
20684       \else
20685         \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
20686         \section*{\small\SectFont\abstractname}%
20687         \noindent\ignorespaces
20688       \fi}
20689       {\if@twocolumn\else\par\egroup\fi}
20690   \fi
20691 \renewcommand*{\@regtocline[3]}{%
20692   \ifnum #1>\c@tocdepth
20693   \else
20694     \vskip\z@\@plus.2\p@
20695     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
20696     \if@RTL\rightskip\else\leftskip\fi\unitindent
20697     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
20698     \parfillskip\z@
20699     \@tempdima\unitindent
20700     \parindent\z@
20701     \leavevmode
20702     \hbox{\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
20703     \hskip 1em \nobreak{\slshape #3}\par
20704     }%
20705   \fi}
20706 \if@oldtoc
20707 \renewcommand*{\l@part[2]}{%

```



```

20708 \ifnum \c@tocdepth >-2\relax
20709 \addpenalty{-\@highpenalty}%
20710 \addvspace{2.25em \@plus\p@}%
20711 \begingroup
20712 \setlength\@tempdima{3em}%
20713 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20714 \parfillskip -\@pnumwidth
20715 {\leavevmode
20716 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
20717 \nobreak
20718 \global\@nobreaktrue
20719 \everypar{\global\@nobreakfalse\everypar{}}%
20720 \endgroup
20721 \fi}
20722 \else
20723 \renewcommand*\l@part{%
20724 \ifnum \c@tocdepth >-2\relax
20725 \addpenalty{-\@highpenalty}%
20726 \addvspace{2.25em \@plus \p@}%
20727 \@regtocline{0}%
20728 \fi}
20729 \fi
20730 \if@oldtoc
20731 \renewcommand*\l@chapter[2]{%
20732 \addpenalty{-\@highpenalty}%
20733 \vskip 1.0em \@plus\p@
20734 \setlength\@tempdima{1.5em}%
20735 \begingroup
20736 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20737 \parfillskip -\@pnumwidth
20738 \leavevmode \bfseries
20739 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
20740 \hskip -\if@RTL\rightskip\else\leftskip\fi
20741 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20742 \penalty\@highpenalty
20743 \endgroup}
20744 \else
20745 \renewcommand*\l@chapter{\@regtocline{0}}
20746 \fi
20747 \renewcommand*\left@footnoterule{%
20748 \kern-3\p@
20749 \kern.5\baselineskip
20750 \hrule\@width\unitindent
20751 \kern.4\baselineskip
20752 }
20753 \renewcommand*\right@footnoterule{%
20754 \kern-3\p@
20755 \kern.5\baselineskip
20756 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
20757 \kern.4\baselineskip}
20758 \renewenvironment{thebibliography}[1]
20759 {\chapter*{\bibname}%
20760 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
20761 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi

```



```

20762 \bidi@thebibliography@font@hook%
20763 \list{\@biblabel{\@arabic\c@enumiv}}%
20764     {\settowidth\labelwidth{\@biblabel{#1}}%
20765      \leftmargin\labelwidth
20766      \advance\leftmargin\labelsep
20767      \@openbib@code
20768      \usecounter{enumiv}%
20769      \let\p@enumiv\@empty
20770      \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
20771 \sloppy\clubpenalty4000\widowpenalty4000%
20772 \sfcode`. \m}
20773 {\def\@noitemerr
20774  {\@latex@warning{Empty `thebibliography' environment}}%
20775  \endlist}
20776 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
20777 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
20778 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
20779 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20780 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
20781 \renewcommand*\theequation{%
20782   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
20783 \renewcommand*\thefigure{%
20784   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
20785 \renewcommand*\thetable{%
20786   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
20787 \if@titlepage
20788 \renewcommand*\TitleFont{\rmfamily}
20789 \renewcommand*\maketitle{%
20790   \begin{titlepage}%
20791     \let\footnotesize\small
20792     \let\right@footnoterule\relax
20793     \let\left@footnoterule\relax
20794     \let\textwidth\footnoterule\relax
20795     \let \footnote \thanks
20796     \long\def\@makefnmark##1{\parindent\z@
20797       \def\labelitemi{\textendash}\@revlabeltrue
20798       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
20799     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20800     \if@compatibility\setcounter{page}{0}\fi
20801     \null\vfil
20802     \vskip 60\p@
20803     \begin{center}%
20804       \TitleFont
20805       {\LARGE \def\\{\penalty -\@M}
20806         \if@allcaps
20807           \expandafter\uc@nothanks\@title\thanks\relax
20808         \else
20809           \@title
20810         \fi\par}%
20811     \vskip 3em%
20812     {\large
20813       \lineskip .75em \parindent\z@
20814       \begin{tabular}[t]{c}%
20815         \if@allcaps

```



```

20816         \expandafter\uc@authornothanks\@author\and\relax
20817     \else
20818         \@author
20819     \fi
20820 \end{tabular}\par}%
20821 \vskip 1.5em%
20822 {\large
20823 \if@allcaps
20824     \uppercase\expandafter{\@date}%
20825 \else
20826     \@date
20827 \fi\par}%
20828 \end{center}\par
20829 \@thanks
20830 \vfil\null
20831 \end{titlepage}%
20832 \setcounter{footnote}{0}%
20833 \global\let\thanks\relax
20834 \global\let\maketitle\relax
20835 \global\let\@thanks\@empty
20836 \global\let\@author\@empty
20837 \global\let\@title\@empty
20838 \global\let\@date\@empty
20839 \global\let\title\relax
20840 \global\let\author\relax
20841 \global\let\date\relax
20842 \global\let\and\relax
20843 }
20844 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
20845 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
20846     \futurelet\@tempa\uc@ax}%
20847 \def\uc@ax{%
20848     \ifx\@tempa\relax
20849     \else
20850         \andname \and \expandafter\uc@authornothanks
20851     \fi}
20852 \def\uc@tx{\ifx\@tempa\relax
20853     \else \expandafter\uc@ty \fi}
20854 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
20855 \else
20856 \renewcommand*\maketitle{\par
20857     \begin{group}
20858         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20859         \def\@makefnmark{\rlap{%
20860             \@textsuperscript{\normalfont\@thefnmark}}}%
20861         \long\def\@makefntext{\@xmakefntext{%
20862             \@textsuperscript{\normalfont\@thefnmark}}}%
20863         \if@twocolumn
20864             \ifnum \col@number=\@ne
20865                 \@maketitle
20866             \else
20867                 \twocolumn[\@maketitle]%
20868             \fi
20869         \else

```



```

20870 \newpage
20871 \global\@topnum\z@
20872 \@maketitle
20873 \fi
20874 \thispagestyle{plain}\@thanks
20875 \endgroup
20876 \setcounter{footnote}{0}%
20877 \global\let\thanks\relax
20878 \global\let\maketitle\relax
20879 \global\let\@maketitle\relax
20880 \global\let\@thanks\@empty
20881 \global\let\@author\@empty
20882 \global\let\@title\@empty
20883 \global\let\@date\@empty
20884 \global\let\title\relax
20885 \global\let\author\relax
20886 \global\let\date\relax
20887 \global\let\and\relax
20888 }
20889 \def\@maketitle{%
20890 \newpage
20891 \null
20892 \vskip 2em%
20893 \begin{center}%
20894 \let \footnote \thanks
20895 {\LARGE \TitleFont \@title \par}%
20896 \vskip 1.5em%
20897 {\large \TitleFont
20898 \lineskip .5em%
20899 \begin{tabular}[t]{c}%
20900 \@author
20901 \end{tabular}\par}%
20902 \vskip 1em%
20903 {\large \TitleFont \@date}%
20904 \end{center}%
20905 \par
20906 \vskip 1.5em}
20907 \fi

```

## 137 File rapport3-xetex-bidi.def

```

20908 \ProvidesFile{rapport3-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for rapport3 class]
20909 \renewenvironment{theindex}{%
20910 \if@twocolumn
20911 \@restonecolfalse
20912 \else
20913 \@restonecoltrue
20914 \fi
20915 \columnseprule \z@
20916 \columnsep 35\p@
20917 \twocolumn[\@makeschapterhead{\indexname}]{%
20918 \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
20919 \thispagestyle{plain}\parindent\z@
20920 \parskip\z@ \@plus .3\p@\relax

```





```

20921 \let\item\@idxitem
20922 }{%
20923 \if@restonecol\onecolumn\else\clearpage\fi}
20924 \if@titlepage
20925 \renewcommand*\TitleFont{\rmfamily}
20926 \renewcommand*\maketitle{%
20927 \begin{titlepage}%
20928 \let\footnotesize\small
20929 \let\right@footnoterule\relax
20930 \let\left@footnoterule\relax
20931 \let\textwidth@footnoterule\relax
20932 \let \footnote \thanks
20933 \let \LTRfootnote \LTRthanks
20934 \let \RTLfootnote \RTLthanks
20935 \long\def\@makefnmark##1{\parindent\z@
20936 \def\labelitemi{\textendash}\@revlabeltrue
20937 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
20938 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20939 \if@compatibility\setcounter{page}{0}\fi
20940 \null\vfil
20941 \vskip 60\p@
20942 \begin{center}%
20943 \TitleFont
20944 {\LARGE \def\\{\penalty -\@M}
20945 \if@allcaps
20946 \expandafter\uc@nothanks\@title\thanks\relax
20947 \else
20948 \@title
20949 \fi\par}%
20950 \vskip 3em%
20951 {\large
20952 \lineskip .75em \parindent\z@
20953 \begin{tabular}[t]{c}%
20954 \if@allcaps
20955 \expandafter\uc@authornothanks\@author\and\relax
20956 \else
20957 \@author
20958 \fi
20959 \end{tabular}\par}%
20960 \vskip 1.5em%
20961 {\large
20962 \if@allcaps
20963 \uppercase\expandafter{\@date}%
20964 \else
20965 \@date
20966 \fi\par}%
20967 \end{center}\par
20968 \@thanks
20969 \vfil\null
20970 \end{titlepage}%
20971 \setcounter{footnote}{0}%
20972 \global\let\thanks\relax
20973 \global\let\LTRthanks\relax
20974 \global\let\RTLthanks\relax

```



```

20975 \global\let\maketitle\relax
20976 \global\let\@thanks\@empty
20977 \global\let\@author\@empty
20978 \global\let\@title\@empty
20979 \global\let\@date\@empty
20980 \global\let\title\relax
20981 \global\let\author\relax
20982 \global\let\date\relax
20983 \global\let\and\relax
20984 }
20985 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
20986 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
20987 \futurelet\@tempa\uc@ax}
20988 \def\uc@ax{%
20989 \ifx\@tempa\relax
20990 \else
20991 \ \andname \ \expandafter\uc@authornothanks
20992 \fi}
20993 \def\uc@tx{\ifx\@tempa\relax
20994 \else \expandafter\uc@ty \fi}
20995 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
20996 \else
20997 \renewcommand*\maketitle{\par
20998 \begingroup
20999 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21000 \def\@makefnmark{\rlap{%
21001 \@textsuperscript{\normalfont\@thefnmark}}}%
21002 \long\def\@makefntext{\@xmakefntext{%
21003 \@textsuperscript{\normalfont\@thefnmark}}}%
21004 \if@twocolumn
21005 \ifnum \col@number=\@ne
21006 \@maketitle
21007 \else
21008 \twocolumn[\@maketitle]%
21009 \fi
21010 \else
21011 \newpage
21012 \global\@topnum\z@
21013 \@maketitle
21014 \fi
21015 \thispagestyle{plain}\@thanks
21016 \endgroup
21017 \setcounter{footnote}{0}%
21018 \global\let\thanks\relax
21019 \global\let\LTRthanks\relax
21020 \global\let\RTLthanks\relax
21021 \global\let\maketitle\relax
21022 \global\let\@maketitle\relax
21023 \global\let\@thanks\@empty
21024 \global\let\@author\@empty
21025 \global\let\@title\@empty
21026 \global\let\@date\@empty
21027 \global\let\title\relax
21028 \global\let\author\relax

```



```

21029 \global\let\date\relax
21030 \global\let\and\relax
21031 }
21032 \def\@maketitle{%
21033 \newpage
21034 \null
21035 \vskip 2em%
21036 \if@titlecentered
21037 \begin{center}%
21038 \let \footnote \thanks
21039 \let \LTRfootnote \LTRthanks
21040 \let \RTLfootnote \RTLthanks
21041 {\LARGE \TitleFont \@title \par}%
21042 \vskip 1.5em%
21043 {\large \TitleFont
21044 \lineskip .5em%
21045 \begin{tabular}[t]{c}%
21046 \@author
21047 \end{tabular}\par}%
21048 \vskip 1em%
21049 {\large \TitleFont \@date}%
21050 \end{center}%
21051 \else
21052 {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
21053 {\large \TitleFont \lineskip .5em \tabcolsep\z@
21054 \def\and{%% \begin{tabular} has already started
21055 \end{tabular}\hskip 1em plus .17fil
21056 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tab
21057 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}
21058 \vskip 1em {\large \TitleFont \@date}
21059 \fi
21060 \par
21061 \vskip 1.5em}
21062 \fi
21063 \renewcommand*\@regtocline[3]{%
21064 \ifnum #1>\c@tocdepth
21065 \else
21066 \vskip\z@\@plus.2\p@
21067 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
21068 \if@RTL\righskip\else\leftskip\fi\unitindent
21069 \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
21070 \parfillskip\z@
21071 \@tempdima\unitindent
21072 \parindent\z@
21073 \leavevmode
21074 \hbox{}\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
21075 \hskip 1em \nobreak{\slshape #3}\par
21076 }%
21077 \fi}
21078 \if@oldtoc
21079 \renewcommand*\l@part[2]{%
21080 \ifnum \c@tocdepth >-2\relax
21081 \addpenalty{-\@highpenalty}%
21082 \addvspace{2.25em \@plus\p@}%

```



```

21083 \begingroup
21084 \setlength\@tempdima{3em}%
21085 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21086 \parfillskip -\@pnumwidth
21087 {\leavevmode
21088 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
21089 \nobreak
21090 \global\@nobreaktrue
21091 \everypar{\global\@nobreakfalse\everypar{}}%
21092 \endgroup
21093 \fi}
21094 \else
21095 \renewcommand*\l@part{%
21096 \ifnum \c@tocdepth >-2\relax
21097 \addpenalty{-\@highpenalty}%
21098 \addvspace{2.25em \@plus \p@}%
21099 \@regtocline{0}%
21100 \fi}
21101 \fi
21102 \if@oldtoc
21103 \renewcommand*\l@chapter[2]{%
21104 \addpenalty{-\@highpenalty}%
21105 \vskip 1.0em \@plus \p@
21106 \setlength\@tempdima{1.5em}%
21107 \begingroup
21108 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21109 \parfillskip -\@pnumwidth
21110 \leavevmode \bfseries
21111 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
21112 \hskip -\if@RTL\rightskip\else\leftskip\fi
21113 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
21114 \penalty\@highpenalty
21115 \endgroup}
21116 \else
21117 \renewcommand*\l@chapter{\@regtocline{0}}
21118 \fi
21119 \renewcommand*\head@style{%
21120 \interlinepenalty \@M
21121 \hyphenpenalty=\@M \exhyphenpenalty=\@M
21122 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
21123 \if@titlepage
21124 \renewenvironment{abstract}{%
21125 \titlepage
21126 \null\vfil
21127 \section*{\SectFont\abstractname}%
21128 \noindent\ignorespaces
21129 {\par\vfil\null\endtitlepage}
21130 \else
21131 \renewenvironment{abstract}{%
21132 \if@twocolumn
21133 \section*{\abstractname}%
21134 \else
21135 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
21136 \section*{\small\SectFont\abstractname}%

```



```

21137         \noindent\ignorespaces
21138         \fi}
21139         {\if@twocolumn\else\par\egroup\fi}
21140 \fi
21141 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
21142 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
21143 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
21144 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21145 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
21146 \renewcommand*\thefigure{%
21147   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
21148 \renewcommand*\thetable{%
21149   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
21150 \renewcommand*\theequation{%
21151   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
21152 \renewenvironment{thebibliography}[1]
21153   {\chapter*\bibname}%
21154   \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
21155   \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
21156   \bidi@thebibliography@font@hook%
21157   \list{\@biblabel{\@arabic\c@enumiv}}%
21158     {\settowidth\labelwidth{\@biblabel{#1}}%
21159     \leftmargin\labelwidth
21160     \advance\leftmargin\labelsep
21161     \@openbib@code
21162     \usecounter{enumiv}%
21163     \let\p@enumiv\empty
21164     \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
21165   \sloppy\clubpenalty4000\widowpenalty4000%
21166   \sfcode\.\@m}
21167   {\def\@noitemerr
21168     {\@latex@warning{Empty `thebibliography' environment}}%
21169     \endlist}
21170 \renewcommand*\left@footnoterule{%
21171   \kern-3\p@
21172   \kern.5\baselineskip
21173   \hrule\@width\unitindent
21174   \kern.4\baselineskip
21175 }
21176 \renewcommand*\right@footnoterule{%
21177   \kern-3\p@
21178   \kern.5\baselineskip
21179   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
21180   \kern.4\baselineskip}
21181 \renewcommand*\head@style{%
21182   \interlinepenalty \@M
21183   \hyphenpenalty=\@M \exhyphenpenalty=\@M
21184   \ifRTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

## 138 File refrep-xetex-bidi.def

```

21185 \ProvidesFile{refrep-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for refrep class for
21186 \if@titlepage
21187   \renewcommand\maketitle{\begin{titlepage}%

```



```

21188 \let\footnotesize\small
21189 \let\right@footnoterule\relax
21190 \let\left@footnoterule\relax
21191 \let\textwidth@footnoterule\relax
21192 \let\footnote\thanks
21193 \let\LTRfootnote\LTRthanks
21194 \let\RTLfootnote\RTLthanks
21195 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
21196 \def\@makefnmark%
21197     {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
21198 \long\def\@makefntext##1{%
21199     \setpar{\@par
21200         \@tempdima = \hsize
21201         \advance\@tempdima -1em
21202         \parshape \@ne 1em \@tempdima}%
21203     \par\parindent 1em \noindent
21204     \hb@xt@\z@\{\hss\@textsuperscript{\normalfont\@thefnmark}\,\}##1}
21205 \null\vfil
21206 \vskip 60\p@
21207 \begin{center}%
21208     {\LARGE \@title \par}%
21209     \vskip 3em%
21210     {\large
21211         \lineskip .75em%
21212         \begin{tabular}[t]{c}%
21213             \@author
21214         \end{tabular}\par}%
21215     \vskip 1.5em%
21216     {\large \@date \par}%           % Set date in \large size.
21217 \end{center}\par
21218 \@thanks
21219 \vfil\null
21220 \end{titlepage}%
21221 \setcounter{footnote}{0}%
21222 \global\let\thanks\relax
21223 \global\let\LTRthanks\relax
21224 \global\let\RTLthanks\relax
21225 \global\let\maketitle\relax
21226 \global\let\@thanks\@empty
21227 \global\let\@author\@empty
21228 \global\let\@date\@empty
21229 \global\let\@title\@empty
21230 \global\let\title\relax
21231 \global\let\author\relax
21232 \global\let\date\relax
21233 \global\let\and\relax
21234 }
21235 \else
21236 \renewcommand\maketitle{\par
21237     \begingroup
21238         \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
21239         \def\@makefnmark%
21240             {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
21241         \long\def\@makefntext##1{%

```



```

21242 \setpar{\@par
21243 \@tempdima = \hsize
21244 \advance\@tempdima -1em
21245 \parshape \@ne 1em \@tempdima}%
21246 \par\parindent 1em \noindent
21247 \hb@xt@\z@\{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
21248 \if@twocolumn
21249 \ifnum \col@number=\@ne
21250 \maketitle
21251 \else
21252 \twocolumn[\maketitle]%
21253 \fi
21254 \else
21255 \newpage
21256 \global\@topnum\z@ % Prevents figures from going at top of page.
21257 \maketitle
21258 \fi
21259 \thispagestyle{empty}\@thanks
21260 \endgroup
21261 \setcounter{footnote}{0}%
21262 \global\let\thanks\relax
21263 \global\let\LTRthanks\relax
21264 \global\let\RTLthanks\relax
21265 \global\let\maketitle\relax
21266 \global\let\@maketitle\relax
21267 \global\let\@thanks\@empty
21268 \global\let\@author\@empty
21269 \global\let\@date\@empty
21270 \global\let\@title\@empty
21271 \global\let\title\relax
21272 \global\let\author\relax
21273 \global\let\date\relax
21274 \global\let\and\relax
21275 }
21276 \def\@maketitle{%
21277 \newpage
21278 \null
21279 \longthickrule\vskip1.5em%
21280 \let \footnote \thanks
21281 \let \LTRfootnote \LTRthanks
21282 \let \RTLfootnote \RTLthanks
21283 {\secshape \parskip\z@ \parindent\z@
21284 \Large\bfseries \@title \par}%
21285 \vskip1.5em\longthickrule\vskip1.5em%
21286 {\normalsize
21287 \lineskip .5em%
21288 \begin{flushright}%
21289 {\slshape\@author\par}
21290 \vskip 1em%
21291 {\@date}%
21292 \end{flushright}\par}%
21293 \vskip 1.5em}
21294 \fi
21295 \renewcommand*\l@part[2]{%

```



```

21296 \ifnum \c@tocdepth >-2\relax
21297 \addpenalty{-\@highpenalty}%
21298 \addvspace{2.25em \@plus\p@}%
21299 \begingroup
21300 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21301 \parfillskip -\@pnumwidth
21302 {\leavevmode
21303 \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
21304 \nobreak
21305 \global\@nobreaktrue
21306 \everypar{\global\@nobreakfalse\everypar{}}%
21307 \endgroup
21308 \fi}
21309 \renewcommand*\l@chapter[2]{%
21310 \ifnum \c@tocdepth >\m@ne
21311 \addpenalty{-\@highpenalty}%
21312 \vskip 1.0em \@plus\p@
21313 \setlength\@tempdima{1.5em}%
21314 \begingroup
21315 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21316 \parfillskip -\@pnumwidth
21317 \leavevmode \bfseries
21318 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
21319 \hskip -\if@RTL\rightskip\else\leftskip\fi
21320 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
21321 \penalty\@highpenalty
21322 \endgroup
21323 \fi}
21324 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
21325 \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
21326 \hyphenpenalty=2000}
21327 \renewcommand\left@footnoterule{%
21328 \kern-3\p@
21329 \hrule\@width.4\columnwidth
21330 \kern 2.6\p@}
21331 \renewcommand\right@footnoterule{%
21332 \kern-3\p@
21333 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
21334 \kern2.6\p@}
21335 \renewcommand\theequation
21336 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
21337 \renewcommand\thefigure
21338 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
21339 \renewcommand\thetable%
21340 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
21341 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
21342 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\csubsection}
21343 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\csubsubsection}
21344 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\cparagraph}
21345 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\csubparagraph}
21346 \renewenvironment{thebibliography}[1]
21347 {\chapter*{\bibname
21348 \@mkboth{\bibname}{\bibname}}%
21349 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi

```





```

21350 \bidi@@thebibliography@font@hook%
21351 \list{\@biblabel{\@arabic\c@enumiv}}%
21352 {\settowidth\labelwidth{\@biblabel{#1}}%
21353 \leftmargin\labelwidth
21354 \advance\leftmargin\labelsep
21355 \@openbib@code
21356 \usecounter{enumiv}%
21357 \let\p@enumiv\@empty
21358 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
21359 \sloppy
21360 \clubpenalty4000
21361 \clubpenalty \clubpenalty
21362 \widowpenalty4000%
21363 \sfcode\.\@m}
21364 {\def\@noitemerr
21365 {\@latex@warning{Empty `thebibliography' environment}}}%
21366 \endlist}

```

### 139 File report-xetex-bidi.def

```

21367 \ProvidesFile{report-xetex-bidi.def}[2017/06/09 v0.8 bidi adaptations for standard report c
21368 \renewenvironment{theindex}
21369 {\if@twocolumn
21370 \@restonecolfalse
21371 \else
21372 \@restonecoltrue
21373 \fi
21374 \columnseprule \z@
21375 \columnsep 35\p@
21376 \twocolumn[\@makeschapterhead{\indexname}]}%
21377 \mkboth{\MakeUppercase\indexname}%
21378 {\MakeUppercase\indexname}%
21379 \thispagestyle{plain}\parindent\z@
21380 \parskip\z@ \@plus .3\p@\relax
21381 \let\item\@idxitem}
21382 {\if@restonecol\onecolumn\else\clearpage\fi}
21383 \if@titlepage
21384 \renewcommand\maketitle{\begin{titlepage}%
21385 \let\footnotesize\small
21386 \let\right@footnoterule\relax
21387 \let\left@footnoterule\relax
21388 \let\textwidth\footnoterule\relax
21389 \let \footnote \thanks
21390 \let \LTRfootnote \LTRthanks
21391 \let \RTLfootnote \RTLthanks
21392 \null\vfil
21393 \vskip 60\p@
21394 \begin{center}%
21395 {\LARGE \@title \par}%
21396 \vskip 3em%
21397 {\large
21398 \lineskip .75em%
21399 \begin{tabular}[t]{c}%
21400 \@author

```



```

21401         \end{tabular}\par}%
21402         \vskip 1.5em%
21403         {\large \@date \par}%           % Set date in \large size.
21404     \end{center}\par
21405     \@thanks
21406     \vfil\null
21407     \end{titlepage}%
21408     \setcounter{footnote}{0}%
21409     \global\let\thanks\relax
21410     \global\let\LTRthanks\relax
21411     \global\let\RTLthanks\relax
21412     \global\let\maketitle\relax
21413     \global\let\@thanks\@empty
21414     \global\let\@author\@empty
21415     \global\let\@date\@empty
21416     \global\let\@title\@empty
21417     \global\let\title\relax
21418     \global\let\author\relax
21419     \global\let\date\relax
21420     \global\let\and\relax
21421 }
21422 \else
21423 \renewcommand\maketitle{\par
21424     \begingroup
21425         \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
21426         \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
21427         \long\def\@makefntext##1{\parindent 1em\noindent
21428             \hb@xt@1.8em{%
21429                 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
21430         \if@twocolumn
21431             \ifnum \col@number=\@ne
21432                 \@maketitle
21433             \else
21434                 \twocolumn[\@maketitle]%
21435             \fi
21436         \else
21437             \newpage
21438             \global\@topnum\z@    % Prevents figures from going at top of page.
21439             \@maketitle
21440         \fi
21441         \thispagestyle{plain}\@thanks
21442     \endgroup
21443     \setcounter{footnote}{0}%
21444     \global\let\thanks\relax
21445     \global\let\LTRthanks\relax
21446     \global\let\RTLthanks\relax
21447     \global\let\maketitle\relax
21448     \global\let\@maketitle\relax
21449     \global\let\@thanks\@empty
21450     \global\let\@author\@empty
21451     \global\let\@date\@empty
21452     \global\let\@title\@empty
21453     \global\let\title\relax
21454     \global\let\author\relax

```



```

21455 \global\let\date\relax
21456 \global\let\and\relax
21457 }
21458 \def\@maketitle{%
21459 \newpage
21460 \null
21461 \vskip 2em%
21462 \begin{center}%
21463 \let \footnote \thanks
21464 \let \LTRfootnote \LTRthanks
21465 \let \RTLfootnote \RTLthanks
21466 {\LARGE \@title \par}%
21467 \vskip 1.5em%
21468 {\large
21469 \lineskip .5em%
21470 \begin{tabular}[t]{c}%
21471 \@author
21472 \end{tabular}\par}%
21473 \vskip 1em%
21474 {\large \@date}%
21475 \end{center}%
21476 \par
21477 \vskip 1.5em}
21478 \fi
21479 \renewcommand*\l@part[2]{%
21480 \ifnum \c@tocdepth >-2\relax
21481 \addpenalty{-\@highpenalty}%
21482 \addvspace{2.25em \@plus\p@}%
21483 \setlength\@tempdima{3em}%
21484 \begingroup
21485 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21486 \parfillskip -\@pnumwidth
21487 {\leavevmode
21488 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
21489 \nobreak
21490 \global\@nobreaktrue
21491 \everypar{\global\@nobreakfalse\everypar{}}%
21492 \endgroup
21493 \fi}
21494 \renewcommand*\l@chapter[2]{%
21495 \ifnum \c@tocdepth >\m@ne
21496 \addpenalty{-\@highpenalty}%
21497 \vskip 1.0em \@plus\p@
21498 \setlength\@tempdima{1.5em}%
21499 \begingroup
21500 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21501 \parfillskip -\@pnumwidth
21502 \leavevmode \bfseries
21503 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
21504 \hskip -\if@RTL\rightskip\else\leftskip\fi
21505 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
21506 \penalty\@highpenalty
21507 \endgroup
21508 \fi}

```



```

21509 \renewcommand\left@footnoterule{%
21510   \kern-3\p@
21511   \hrule\@width.4\columnwidth
21512   \kern2.6\p@}
21513 \renewcommand\right@footnoterule{%
21514   \kern-3\p@
21515   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
21516   \kern2.6\p@}
21517 \renewcommand\theequation
21518   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
21519 \renewcommand \thefigure
21520   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
21521 \renewcommand \thetable
21522   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
21523 \renewcommand \thechapter {\@arabic\c@chapter}
21524 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
21525 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
21526 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
21527 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
21528 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
21529 \def\@makechapterhead#1{%
21530   \vspace*{50\p@}%
21531   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
21532     \ifnum \c@secnumdepth >\m@ne
21533       \huge\bfseries \@chapapp\space \thechapter
21534       \par\nobreak
21535       \vskip 20\p@
21536     \fi
21537     \interlinepenalty\@M
21538     \Huge \bfseries #1\par\nobreak
21539     \vskip 40\p@
21540   }}
21541 \def\@makeschapterhead#1{%
21542   \vspace*{50\p@}%
21543   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
21544     \normalfont
21545     \interlinepenalty\@M
21546     \Huge \bfseries #1\par\nobreak
21547     \vskip 40\p@
21548   }}
21549 \renewenvironment{thebibliography}[1]
21550   {\chapter*{\bibname}%
21551     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
21552     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21553     \bidi@thebibliography@font@hook%
21554     \list{\@biblabel{\@arabic\c@enumiv}}%
21555       {\settowidth\labelwidth{\@biblabel{#1}}%
21556         \leftmargin\labelwidth
21557         \advance\leftmargin\labelsep
21558         \@openbib@code
21559         \usecounter{enumiv}%
21560         \let\p@enumiv\@empty
21561         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
21562     \sloppy

```



```

21563 \clubpenalty4000
21564 \@clubpenalty \clubpenalty
21565 \widowpenalty4000%
21566 \sfcode`\.\@m}
21567 {\def\@noitemerr
21568   {\@latex@warning{Empty `thebibliography' environment}}}%
21569 \endlist}

```

## 140 File rotating-xetex-bidi.def

```

21570 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating packag
21571 \def\end@rotfloat{%
21572   \end{minipage}\end{lrbox}%
21573   \stepcounter{r@tfl@t}%
21574   \rot@label{RF\ther@tfl@t}%
21575   \rot@pageref{RF\ther@tfl@t}{\R@@page}%
21576   \edef\@tempa{Adding sideways \@cotype\space on page \R@@page\space}
21577   \rot@mess@toks\expandafter{\@tempa}
21578   \wd\rot@float@box\z@
21579   \ht\rot@float@box\z@
21580   \dp\rot@float@box\z@
21581   \vboxL to \textheight{%
21582     \setkeys{Grot}{units=360}%
21583     \if@rot@twoside
21584     \else
21585       \let\R@@page\rot@LR
21586     \fi
21587     \ifthenelse{\isodd{\R@@page}}{%
21588       \if@rot@twoside
21589         \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
21590       \fi
21591       \vfill
21592       \@@line{%
21593         \hskip\rotFPtop
21594         \rotatebox{90}{\box\rot@float@box}%
21595         \hskip\rotFPbot
21596       }%
21597     }{%
21598       \if@rot@twoside
21599         \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
21600       \fi
21601       \@@line{%
21602         \hskip\rotFPbot
21603         \rotatebox{-90}{\box\rot@float@box}%
21604         \hskip\rotFPtop
21605       }%
21606       \vfill
21607     }%
21608     \rot@message{\the\rot@mess@toks}
21609   }%
21610   \end@float
21611 }
21612 \let\endsidewaysfigure\end@rotfloat
21613 \let\endsidewaystable\end@rotfloat

```



```

21614 \def\end@rotdblfloat{%
21615   \end{minipage}\end{lrbox}%
21616   \stepcounter{r@tfl@t}%
21617   \rot@label{RF\ther@tfl@t}%
21618   \rot@pageref{RF\ther@tfl@t}{\R@@page}%
21619   \edef\@tempa{Adding sideways \@capytype\space on page \R@@page\space}
21620   \rot@mess@toks\expandafter{\@tempa}
21621   \@tempdima\ht\rot@float@box
21622   \advance\@tempdima by \dp\rot@float@box
21623   \wd\rot@float@box\z@
21624   \ht\rot@float@box\z@
21625   \dp\rot@float@box\z@
21626   \vboxL to \textheight{%
21627     \setkeys{Grot}{units=360}%
21628     \if@rot@twoside
21629       \else
21630         \let\R@@page\rot@LR
21631       \fi
21632       \ifthenelse{\isodd{\R@@page}}{%
21633         \ifrot@messages
21634           \if@rot@twoside
21635             \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
21636           \fi
21637           \fi
21638           \vfill
21639           \@@line{%
21640             \hskip\rotFPtop
21641             \rotatebox{90}{\box\rot@float@box}%
21642             \hskip\rotFPbot
21643           }%
21644         }{%
21645           \ifrot@messages
21646             \if@rot@twoside
21647             \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
21648           \fi
21649           \fi%
21650           \@@line{%
21651             \hskip\rotFPbot
21652             \rotatebox{-90}{\box\rot@float@box}%
21653             \hskip\rotFPtop
21654           }%
21655           \vfill
21656         }%
21657         \rot@message{\the\rot@mess@toks}%
21658       }%
21659     \end@dblfloat
21660   }
21661   \def\turn#1{%
21662     \Grot@setangle{#1}%
21663     \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21664   \def\endturn{%
21665     \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21666     \unskip\color@endbox
21667     \Grot@x\z@

```



```

21668 \Grot@y\z@
21669 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21670 }
21671 \def\rotate#1{%
21672 \Grot@setangle{#1}%
21673 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21674 \def\endrotate{%
21675 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21676 \unskip\color@endbox
21677 \Grot@x\z@
21678 \Grot@y\z@
21679 \wd0\z@\dp0\z@\ht0\z@
21680 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21681 }
21682 \def\turnbox#1#2{%
21683 \Grot@setangle{#1}%
21684 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR
21685 \Grot@x\z@\Grot@y\z@
21686 \wd0\z@\dp0\z@\ht0\z@
21687 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21688 }
21689 \def\sideways{%
21690 \Grot@setangle{90}%
21691 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21692 \def\endsideways{%
21693 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21694 \unskip\color@endbox
21695 \Grot@x\z@
21696 \Grot@y\z@
21697 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21698 }

```

## 141 File `scrartcl-xetex-bidi.def`

```

21699 \ProvidesFile{scrartcl-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrartcl class]
21700 \newcommand{\scr@saved@LTRfootnotetext}{}
21701 \newcommand{\scr@saved@RTLfootnotetext}{}
21702 \let\scr@saved@footnotetext\@footnotetext
21703 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
21704 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
21705 \renewcommand{\@footnotetext}[1]{%
21706 \scr@saved@footnotetext{#1}%
21707 \csname FN@mf@prepare\endcsname
21708 }
21709 \renewcommand{\@LTRfootnotetext}[1]{%
21710 \scr@saved@LTRfootnotetext{#1}%
21711 \csname FN@mf@prepare\endcsname
21712 }
21713 \renewcommand{\@RTLfootnotetext}[1]{%
21714 \scr@saved@RTLfootnotetext{#1}%
21715 \csname FN@mf@prepare\endcsname
21716 }
21717 \renewcommand\deffootnote[4][1]{%
21718 \expandafter\ifnum\scr@v@is@ge{3.22}\relax

```



```

21719 \long\def\@makefntext##1{%
21720   \ExecuteDoHook{footnote/text/begin}%
21721   \raggedfootnote
21722   \if@RTL
21723     \rightskip
21724   \else
21725     \leftskip
21726   \fi
21727   #2
21728   \l@addto@macro\@trivlist{%
21729     \ifnum\@listdepth=\@ne
21730       \if@RTL
21731         \advance\rightmargin #2\relax
21732       \else
21733         \advance\leftmargin #2\relax
21734       \fi
21735     \fi
21736   }%
21737   \parindent #3\noindent
21738   \IfArgIsEmpty{#1}{-}{%
21739     \hskip \dimexpr #1-#2\relax
21740   }%
21741   \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21742   \ExecuteDoHook{footnote/text/end}%
21743 }%
21744 \else
21745   \ClassInfo{\KOMAClassName}{%
21746     Using old \string\@makefntext\space due to compatibility
21747     level\MessageBreak
21748     less than 3.22}%
21749   \long\def\@makefntext##1{%
21750     \setlength{\@tempdimc}{#3}%
21751     \def\@tempa{#1}\ifx\@tempa\@empty
21752       \setpar{\@par
21753         \@tempdima = \hsize
21754         \addtolength{\@tempdima}{-#2}%
21755         \if@RTL
21756           \parshape \@ne \z@ \@tempdima
21757         \else
21758           \parshape \@ne #2 \@tempdima
21759         \fi}%
21760     \else
21761       \addtolength{\@tempdimc}{#2}%
21762       \addtolength{\@tempdimc}{-#1}%
21763       \setpar{\@par
21764         \@tempdima = \hsize
21765         \addtolength{\@tempdima}{-#1}%
21766         \@tempdimb = \hsize
21767         \addtolength{\@tempdimb}{-#2}%
21768         \if@RTL
21769           \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
21770         \else
21771           \parshape \tw@ #1 \@tempdima #2 \@tempdimb
21772         \fi

```





```

21773     }%
21774     \fi
21775     \par
21776     \parindent\@tempdimc\noindent
21777     \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21778   }%
21779   \fi
21780   \def\@makefnmark{\hbox{\ftn@font{#4}}}%
21781 }
21782 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
21783 \renewcommand*\left@footnoterule{%
21784   \normalsize\ftn@rule@test@values
21785   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21786   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21787   {\usekomafont{footnoterule}{%
21788     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
21789   \kern 2.6\p@}
21790 \renewcommand*\right@footnoterule{%
21791   \normalsize\ftn@rule@test@values
21792   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21793   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21794   {\usekomafont{footnoterule}{%
21795     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
21796     \kern 2.6\p@}
21797   \renewcommand*\maketitle[1][1]{%
21798     \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21799     \else
21800       \def\and{%
21801         \end{tabular}}%
21802       \hskip 1em \@plus.17fil%
21803       \begin{tabular}[t]{c}%
21804       }%
21805     \fi
21806     \if@titlepage
21807       \begin{titlepage}
21808         \setcounter{page}{%
21809           #1%
21810         }%
21811         \if@titlepageiscoverpage
21812           \edef\tITLEPAGE@restore{%
21813             \noexpand\endgroup
21814             \noexpand\global\noexpand\@colht\the\@colht
21815             \noexpand\global\noexpand\@colroom\the\@colroom
21816             \noexpand\global\vsizethe\vsizethe
21817             \noexpand\global\noexpand\@titlepageiscoverpagefalse
21818             \noexpand\let\noexpand\tITLEPAGE@restore\noexpand\relax
21819           }%
21820           \begingroup
21821           \topmargin=\dimexpr \coverpagetopmargin-1in\relax
21822           \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
21823           \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
21824           \textwidth=\dimexpr
21825           \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
21826           \textheight=\dimexpr

```



```

21827 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
21828 \headheight=0pt
21829 \headsep=0pt
21830 \footskip=\baselineskip
21831 \@colht=\textheight
21832 \@colroom=\textheight
21833 \vsize=\textheight
21834 \columnwidth=\textwidth
21835 \hsize=\columnwidth
21836 \linewidth=\hsize
21837 \else
21838 \let\titlepage@restore\relax
21839 \fi
21840 \let\footnotesize\small
21841 \let\right@footnoterule\relax
21842 \let\left@footnoterule\relax
21843 \let\textwidth@footnoterule\relax
21844 \let\footnote\thanks
21845 \let\LTRfootnote\LTRthanks
21846 \let\RTLfootnote\RTLthanks
21847 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21848 \let\@oldmakefnmark\@makefnmark
21849 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
21850 \ifx\@extratitle\@empty
21851 \ifx\@frontispiece\@empty
21852 \else
21853 \if@twoside\mbox{}\next@tpage\fi
21854 \noindent\@frontispiece\next@tdpage
21855 \fi
21856 \else
21857 \noindent\@extratitle
21858 \ifx\@frontispiece\@empty
21859 \else
21860 \next@tpage
21861 \noindent\@frontispiece
21862 \fi
21863 \next@tdpage
21864 \fi
21865 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@update relative
21866 \ifx\@titlehead\@empty \else
21867 \begin{minipage}[t]{\textwidth}%
21868 \usekomafont{titlehead}{\@titlehead\par}%
21869 \end{minipage}\par
21870 \fi
21871 \null\vfill
21872 \begin{center}
21873 \ifx\@subject\@empty \else
21874 {\usekomafont{subject}{\@subject\par}}%
21875 \vskip 3em
21876 \fi
21877 {\usekomafont{title}{\huge \@title\par}}%
21878 \vskip 1em
21879 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
21880 \vskip 2em

```



```

21881      {%
21882        \usekomafont{author}{%
21883          \lineskip 0.75em
21884          \begin{tabular}[t]{c}
21885            \@author
21886          \end{tabular}\par
21887        }%
21888      }%
21889      \vskip 1.5em
21890      {\usekomafont{date}{\@date \par}}%
21891      \vskip \z@ \@plus3fill
21892      {\usekomafont{publishers}{\@publishers \par}}%
21893      \vskip 3em
21894      \end{center}\par
21895      \@thanks\global\let\@thanks\@empty
21896      \vfill\null
21897      \if@twoside
21898        \@tempswatrue
21899        \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
21900        \else
21901          \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
21902            \@tempswafalse
21903          \fi\fi
21904        \fi
21905        \if@tempswa
21906          \next@tpage
21907          \begin{minipage}[t]{\textwidth}
21908            \@uppertitleback
21909          \end{minipage}\par
21910          \vfill
21911          \begin{minipage}[b]{\textwidth}
21912            \@lowertitleback
21913          \end{minipage}\par
21914          \@thanks\global\let\@thanks\@empty
21915        \fi
21916      \else
21917        \ifx\@uppertitleback\@empty\else
21918          \ClassWarning{\KOMAClassName}{%
21919            non empty \string\uppertitleback\space ignored
21920            by \string\maketitle\MessageBreak
21921            in `twoside=false' mode%
21922          }%
21923        \fi
21924        \ifx\@lowertitleback\@empty\else
21925          \ClassWarning{\KOMAClassName}{%
21926            non empty \string\lowertitleback\space ignored
21927            by \string\maketitle\MessageBreak
21928            in `twoside=false' mode%
21929          }%
21930        \fi
21931      \fi
21932      \ifx\@dedication\@empty
21933      \else
21934        \next@tdpage\null\vfill

```



```

21935         {\centering\usekomafont{dedication}{\@dedication \par}}%
21936         \vskip \z@ \@plus3fill
21937         \@thanks\global\let\@thanks\@empty
21938         \cleardoubleemptypage
21939     \fi
21940     \ifx\tITLEPAGE@restore\relax\else\clearpage\tITLEPAGE@restore\fi
21941 \end{titlepage}
21942 \else
21943     \par
21944     \@tempcnta=%
21945     #1%
21946     \relax\ifnum\@tempcnta=1\else
21947         \ClassWarning{\KOMAClassName}{%
21948             Optional argument of \string\maketitle\space ignored\MessageBreak
21949             in `titlepage=false' mode%
21950         }%
21951     \fi
21952     \ifx\@uppertitleback\@empty\else
21953         \ClassWarning{\KOMAClassName}{%
21954             non empty \string\uppertitleback\space ignored
21955             by \string\maketitle\MessageBreak
21956             in `titlepage=false' mode%
21957         }%
21958     \fi
21959     \ifx\@lowertitleback\@empty\else
21960         \ClassWarning{\KOMAClassName}{%
21961             non empty \string\lowertitleback\space ignored
21962             by \string\maketitle\MessageBreak
21963             in `titlepage=false' mode%
21964         }%
21965     \fi
21966     \begingroup
21967         \let\tITLEPAGE@restore\relax
21968         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21969         \let\@oldmakefnmark\@makefnmark
21970         \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
21971         \next@tdpage
21972         \if@twocolumn
21973             \ifnum \col@number=\@one
21974                 \ifx\@extratitle\@empty
21975                     \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21976                 \else
21977                     \@makeextratitle
21978                 \fi
21979                 \ifx\@frontispiece\@empty
21980                     \ifx\@extratitle\@empty\else\next@tdpage\fi
21981                 \else
21982                     \next@tpage
21983                     \@makefrontispiece
21984                     \next@tdpage
21985                 \fi
21986                 \@maketitle
21987             \else
21988                 \ifx\@extratitle\@empty

```



```

21989         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21990     \else
21991         \twocolumn[\@makeextratitle]%
21992     \fi
21993     \ifx\@frontispiece\@empty
21994         \ifx\@extratitle\@empty\else\next@tdpage\fi
21995     \else
21996         \next@tpage
21997         \twocolumn[\@makefrontispiece]%
21998         \next@tdpage
21999     \fi
22000     \twocolumn[\@maketitle]%
22001 \fi
22002 \else
22003     \ifx\@extratitle\@empty
22004         \ifx\@frontispiece\@empty\else \mbox{}\fi
22005     \else
22006         \@makeextratitle
22007     \fi
22008     \ifx\@frontispiece\@empty
22009         \ifx\@extratitle\@empty\else\next@tdpage\fi
22010     \else
22011         \next@tpage
22012         \@makefrontispiece
22013         \next@tdpage
22014     \fi
22015     \@maketitle
22016 \fi
22017     \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
22018     \@thanks\global\let\@thanks\@empty
22019 \endgroup
22020 \fi
22021 \setcounter{footnote}{0}%
22022 \expandafter\ifnum \csname scr@v3.12\endcsname>\scr@compatibility\relax
22023     \let\thanks\relax
22024     \let\LTRthanks\relax
22025     \let\RTLthanks\relax
22026     \let\maketitle\relax
22027     \let\@maketitle\relax
22028     \global\let\@thanks\@empty
22029     \global\let\@author\@empty
22030     \global\let\@date\@empty
22031     \global\let\@title\@empty
22032     \global\let\@subtitle\@empty
22033     \global\let\@extratitle\@empty
22034     \global\let\@frontispiece\@empty
22035     \global\let\@titlehead\@empty
22036     \global\let\@subject\@empty
22037     \global\let\@publishers\@empty
22038     \global\let\@uppertitleback\@empty
22039     \global\let\@lowertitleback\@empty
22040     \global\let\@dedication\@empty
22041     \global\let\author\relax
22042     \global\let\title\relax

```



```

22043 \global\let\extratitle\relax
22044 \global\let\titlehead\relax
22045 \global\let\subject\relax
22046 \global\let\publishers\relax
22047 \global\let\uppertitleback\relax
22048 \global\let\lowertitleback\relax
22049 \global\let\dedication\relax
22050 \global\let\date\relax
22051 \fi
22052 \global\let\and\relax
22053 }%
22054 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
22055 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
22056 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
22057 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
22058 \renewcommand*\thesubsubsection{%
22059 \thesubsection\@SepMark\@arabic\c@subsubsection
22060 }
22061 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
22062 \renewcommand*\thesubparagraph{%
22063 \theparagraph\@SepMark\@arabic\c@subparagraph
22064 }
22065 \renewenvironment{thebibliography}[1]{%
22066 \if@bib@break@
22067 \bib@beginhook
22068 \else
22069 \bib@heading
22070 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
22071 \noindent\bibpreamble\par\nobreak
22072 \fi\fi
22073 \bib@beginhook
22074 \bib@before@hook
22075 \fi
22076 \renewcommand{\BreakBibliography}[1]{%
22077 \@bib@break
22078 \end{thebibliography}%
22079 \begingroup ##1\endgroup
22080 \begin{thebibliography}{#1}
22081 }%
22082 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
22083 \bidi@thebibliography@font@hook%
22084 \list{%
22085 \@biblabel{\@arabic\c@enumiv}%
22086 }{%
22087 \settowidth\labelwidth{\@biblabel{#1}}%
22088 \leftmargin\labelwidth
22089 \advance\leftmargin\labelsep
22090 \@openbib@code
22091 \if@bib@break@
22092 \edef\@tempa{%
22093 \noexpand\usecounter{enumiv}%
22094 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
22095 }\@tempa
22096 \no@bib@break

```



```

22097 \else
22098 \usecounter{enumiv}%
22099 \fi
22100 \let\p@enumiv\@empty
22101 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
22102 }%
22103 \sloppy\clubpenalty4000 \widowpenalty4000
22104 \sfcode`\.\=\@m
22105 }{%
22106 \if@bib@break@
22107 \def\@noitemerr{%
22108 \latex@warning{%
22109 \string\BreakBibliography\space at begin of `thebibliography'
22110 environment\MessageBreak
22111 or following \string\BreakBibliography}%
22112 }%
22113 \else
22114 \def\@noitemerr{%
22115 \latex@warning{%
22116 Empty `thebibliography' environment or
22117 \string\BreakBibliography\MessageBreak
22118 before end of `thebibliography' environment}%
22119 }%
22120 \fi
22121 \endlist
22122 \if@bib@break@
22123 \else
22124 \bib@after@hook
22125 \let\bib@before@hook\@empty
22126 \let\bib@after@hook\@empty
22127 \fi
22128 \bib@endhook
22129 }
22130 \renewcommand*\{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
22131 \renewcommand*\{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
22132 \renewcommand*\{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
22133 \renewcommand\marginline[1]{%
22134 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi{#1}}
22135 }
22136 \renewcommand{\@@makecaption}[3]{%
22137 \cap@margin
22138 \begingroup
22139 \ifonelinecaptions
22140 \def\stepcounter##1{\advance\value{##1}\@ne}%
22141 \let\refstepcounter\stepcounter
22142 \let\label\@gobble
22143 \let\@footnotetext=\@gobble
22144 \let\@LTRfootnotetext=\@gobble
22145 \let\@RTLfootnotetext=\@gobble
22146 \let\hypertarget\@gobbletwo
22147 \edef\@xnewline{%
22148 \unexpanded{\ClassInfo{\KOMAClassName}}{%
22149 Workaround for not recommended usage of \string\\ or\MessageBreak
22150 \string\newline in caption text

```



```

22151         }%
22152         \hspace*{\linewidth}\hspace{1sp}%
22153     }%
22154     \unexpanded\expandafter{\@xnewline}%
22155 }%
22156 \edef\@xcentercr{%
22157     \unexpanded{\ClassInfo{\KOMAClassName}{%
22158         Workaround for not recommended usage of \string\\ or\MessageBreak
22159         \string\newline in caption text
22160     }}%
22161     \hspace*{\linewidth}\hspace{1sp}%
22162 }%
22163 \unexpanded\expandafter{\@xcentercr}%
22164 }%
22165 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
22166 \ifdim\@tempdima>\cap@width
22167     \aftergroup\scr@makemultilinecaption
22168 \else
22169     \aftergroup\scr@makesinglelinecaption
22170 \fi
22171 \else
22172     \aftergroup\scr@makemultilinecaption
22173 \fi
22174 \endgroup
22175 {#1}{#2}{#3}%
22176 }
22177 \renewcommand{\scr@makesinglelinecaption}[3]{%
22178     {%
22179         \usefontofkomafont{caption}{%
22180             \hb@xt@{\hsize{%
22181                 \cap@left
22182                 \if@RTL
22183                     \beginR
22184                     \fi
22185                 \scr@makesinglelinecaption{#1}{#2}{#3}%
22186                 \if@RTL
22187                     \endR
22188                 \fi
22189                 \cap@right
22190             }}\par\kern\dp\strutbox%
22191         }%
22192     }\kern-\dp\strutbox
22193 }
22194 \renewcommand{\@makecaption}[2]{%
22195     \if@captionabove
22196         \vskip\belowcaptionskip
22197     \else
22198         \vskip\abovecaptionskip
22199     \fi
22200     \@makecaption\@firstofone{#1}{#2}%
22201     \if@captionabove
22202         \vskip\abovecaptionskip
22203     \else
22204         \vskip\belowcaptionskip

```





```

22205 \fi
22206 }
22207
22208 \renewcommand{\scr@makesinglelinecaption}[3]{%
22209   {\usekomafont{caption}{\strut\ignorespaces
22210     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
22211     \ignorespaces #3\unskip}}%
22212 }
22213
22214 \renewcommand{\scr@makemultilinecaption}[3]{%
22215   {%
22216     \usefontofkomafont{caption}{%
22217       \hb@xt@{hsize}{%
22218         \cap@left
22219         \vbox{hsize\cap@width\linewidthhsize
22220           \scr@ifundefinedorrelax{@capttype}{%
22221             \ClassWarning{KOMAClassName}{%
22222               '\string\caption' outside float.\MessageBreak
22223               Seems you are using '\string\caption' outside a
22224               float.\MessageBreak
22225               Maybe you are using a package that uses
22226               '\string\makecaption'\MessageBreak
22227               without setting '\string\@capttype' before.\MessageBreak
22228               Because I cannot detect the caption type, I'm using\MessageBreak
22229               the empty one.%
22230             }}%
22231             \let\@capttype\@empty
22232           }}}%
22233           \scr@ifundefinedorrelax{ragged\@capttype}{\raggedcaption}{%
22234             \@nameuse{ragged\@capttype}}}%
22235         }%
22236         \ifdofullc@p
22237           \@hangfrom{%
22238             \strut
22239             \scr@smashdp{%
22240               #1{%
22241                 \usekomafont{caption}{%
22242                   \usekomafont{captionlabel}{#2\captionformat}%
22243                 }}%
22244               }%
22245             }%
22246           }%
22247           {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22248         \else
22249           \ifdim\cap@indent<\z@
22250             \strut
22251             #1{%
22252               {\usekomafont{caption}{%
22253                 \usekomafont{captionlabel}{#2\captionformat}%
22254               }}%
22255             }\par}%
22256           \noindent{\usekomafont{caption}{%
22257             \hspace*{-\cap@indent}#3\scr@endstrut
22258           }}\par}%

```



```

22259         \else
22260         \if@capbreak
22261         \strut
22262         #1{%
22263         {\usekomafont{caption}{%
22264         \usekomafont{captionlabel}{#2\captionformat}%
22265         }%
22266         }\par}%
22267         \noindent\@hangfrom{\hspace*{\cap@indent}}%
22268         {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22269     \else
22270     \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
22271     {%
22272     \hspace{-\cap@indent}%
22273     \scr@smashdp{%
22274     #1{\usekomafont{caption}{%
22275     \usekomafont{captionlabel}{#2\captionformat}%
22276     }%
22277     }%
22278     }%
22279     {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22280     }%
22281     \fi
22282     \fi
22283     \fi
22284     }%
22285     \cap@right
22286     }\par\kern\dp\strutbox
22287     }%
22288     }\kern-\dp\strutbox
22289 }
22290
22291 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22292 \if@komalongtable
22293 \renewcommand{\LT@makecaption}[3]{%
22294 \noalign{%
22295 \if@captionabove
22296 \vskip\belowcaptionskip
22297 \else
22298 \vskip\abovecaptionskip
22299 \fi
22300 }%
22301 \LT@mcol\LT@cols c{%
22302 \hbox to\z@{\hss\parbox[t]{linewidth{%
22303 \def\@captype{table}%
22304 \@@makecaption{#1}{#2}{#3}%
22305 \endgraf
22306 \if@captionabove
22307 \vskip\abovecaptionskip
22308 \else
22309 \vskip\belowcaptionskip
22310 \fi
22311 }%
22312 \hss

```



```

22313     }%
22314   }%
22315 }%
22316 \renewcommand*{\scr@LT@array}{}%
22317 \let\scr@LT@array=\LT@array
22318 \renewcommand*{\LT@array}{%
22319   \let\scr@caption=\LT@caption
22320   \def\captionabove{\noalign{\global\@captionabovetrue}%
22321     \scr@caption}%
22322   \def\captionbelow{\noalign{\global\@captionabovefalse}%
22323     \scr@caption}%
22324   \if@tablecaptionabove
22325     \let\LT@caption=\captionabove
22326   \else
22327     \let\LT@caption=\captionbelow
22328   \fi
22329   \scr@LT@array
22330 }%
22331 \ClassInfo{\KOMAClassName}{%
22332   longtable captions redefined%
22333 }%
22334 \fi
22335 }
22336
22337 \CloneTOCEntryStyle{tocline}{part}
22338 \TOCEntryStyleStartInitCode{part}{%
22339   \expandafter\renewcommand%
22340   \csname scr@tso@#1@linefill\endcsname{\hfill}%
22341   \expandafter\renewcommand%
22342   \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22343   \expandafter\renewcommand%
22344   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22345     {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22346   \expandafter\renewcommand\expandafter*%
22347   \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
22348 }
22349
22350 \CloneTOCEntryStyle{tocline}{section}
22351 \TOCEntryStyleStartInitCode{section}{%
22352   \expandafter\renewcommand%
22353   \csname scr@tso@#1@linefill\endcsname{%
22354     \if@sectionentrywithdots
22355       {\usekomafont{sectionentrydots}{\TOCLineLeaderFill}}\relax
22356     \else
22357       \hfill
22358     \fi
22359   }%
22360   \expandafter\renewcommand%
22361   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}%
22362   \expandafter\renewcommand%
22363   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont
22364     \expandafter\renewcommand\expandafter*%
22365     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p}%
22366 }

```



```

22367
22368 \CloneTOCEntryStyle{tocline}{subsection}
22369 \TOCEntryStyleStartInitCode{subsection}{%
22370   \expandafter\renewcommand%
22371   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22372   \expandafter\renewcommand%
22373   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22374     {\normalfont\normalcolor ##1}}%
22375 }
22376
22377 \CloneTOCEntryStyle{subsection}{default}
22378
22379 \DeclareSectionCommand[%
22380   style=section,%
22381   level=1,%
22382   indent=\z@,%
22383   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
22384   afterskip=2.3ex \@plus .2ex,%
22385   tocstyle=section,%
22386   tocindent=0pt,%
22387   tocnumwidth=1.5em%
22388 ]{section}
22389 \DeclareSectionCommand[%
22390   style=part,%
22391   level=\z@,%
22392   tocstyle=part,%
22393   toclevel=\m@ne,%
22394   tocindent=\z@,%
22395   tocnumwidth=2em%
22396 ]{part}
22397 \DeclareSectionCommand[%
22398   style=section,%
22399   level=2,%
22400   indent=\z@,%
22401   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
22402   afterskip=1.5ex \@plus .2ex,%
22403   tocstyle=subsection,%
22404   tocindent=1.5em,%
22405   tocnumwidth=2.3em%
22406 ]{subsection}
22407 \DeclareSectionCommand[%
22408   style=section,%
22409   level=3,%
22410   indent=\z@,%
22411   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
22412   afterskip=1.5ex \@plus .2ex,%
22413   tocstyle=subsection,%
22414   tocindent=3.8em,%
22415   tocnumwidth=3.2em%
22416 ]{subsubsection}
22417 \DeclareSectionCommand[%
22418   style=section,%
22419   level=4,%
22420   indent=\z@,%

```



```

22421 beforeskip=3.25ex \@plus1ex \@minus.2ex,%
22422 afterskip=-1em,%
22423 tocstyle=subsection,%
22424 tocindentfollows=subsubsection,%
22425 tocindent=7.0em,%
22426 tocnumwidth=4.1em%
22427 ]{paragraph}
22428 \DeclareSectionCommand[%
22429   style=section,%
22430   level=5,%
22431   indent=\scr@parindent,%
22432   beforeskip=3.25ex \@plus1ex \@minus .2ex,%
22433   afterskip=-1em,%
22434   tocstyle=subsection,%
22435   tocindent=10em,%
22436   tocnumwidth=5em%
22437 ]{subparagraph}

```

## 142 File scrbook-xetex-bidi.def

```

22438 \ProvidesFile{scrbook-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrbook class fo
22439 \newcommand{\scr@saved@LTRfootnotetext}{}
22440 \newcommand{\scr@saved@RTLfootnotetext}{}
22441 \let\scr@saved@footnotetext\@footnotetext
22442 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
22443 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
22444 \renewcommand{\@footnotetext}[1]{%
22445   \scr@saved@footnotetext{#1}%
22446   \csname FN@mf@prepare\endcsname
22447 }
22448 \renewcommand{\@LTRfootnotetext}[1]{%
22449   \scr@saved@LTRfootnotetext{#1}%
22450   \csname FN@mf@prepare\endcsname
22451 }
22452 \renewcommand{\@RTLfootnotetext}[1]{%
22453   \scr@saved@RTLfootnotetext{#1}%
22454   \csname FN@mf@prepare\endcsname
22455 }
22456 \renewcommand\deffootnote[4][1]{%
22457   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
22458     \long\def\@makefntext##1{%
22459       \ExecuteDoHook{footnote/text/begin}%
22460       \raggedfootnote
22461       \if@RTL
22462         \rightskip
22463       \else
22464         \leftskip
22465       \fi
22466       #2
22467       \l@addto@macro\@trivlist{%
22468         \ifnum\@listdepth=\@one\advance
22469           \if@RTL
22470             \rightmargin #2\relax
22471             \else

```



```

22472         \leftmargin #2\relax
22473     \fi
22474 \fi
22475 }%
22476 \parindent #3\noindent
22477 \IfArgIsEmpty{#1}{-}{%
22478     \hskip \dimexpr #1-#2\relax
22479 }%
22480 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22481 \ExecuteDoHook{footnote/text/end}%
22482 }%
22483 \else
22484 \ClassInfo{\KOMAClassName}{%
22485     Using old \string\@makefnmark\space due to compatibility
22486     level\MessageBreak
22487     less than 3.22}%
22488 \long\def\@makefnmark##1{%
22489     \setlength{\@tempdimc}{#3}%
22490     \def\@tempa{#1}\ifx\@tempa\@empty
22491         \setpar{\@par
22492             \@tempdima = \hsize
22493             \addtolength{\@tempdima}{-#2}%
22494             \if@RTL
22495                 \parshape \@ne \z@ \@tempdima
22496             \else
22497                 \parshape \@ne #2 \@tempdima
22498             \fi
22499         }%
22500     \else
22501         \addtolength{\@tempdimc}{#2}%
22502         \addtolength{\@tempdimc}{-#1}%
22503         \setpar{\@par
22504             \@tempdima = \hsize
22505             \addtolength{\@tempdima}{-#1}%
22506             \@tempdimb = \hsize
22507             \addtolength{\@tempdimb}{-#2}%
22508             \if@RTL
22509                 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
22510             \else
22511                 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
22512             \fi
22513         }%
22514     \fi
22515 \par
22516 \parindent\@tempdimc\noindent
22517 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22518 }%
22519 \fi
22520 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
22521 }
22522 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
22523 \renewcommand*\left@footnoterule{%
22524     \normalsize\ftn@rule@test@values
22525     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax

```



```

22526 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22527 {\usekomafont{footnoterule}}{%
22528 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
22529 \kern 2.6\p@}
22530 \renewcommand*\right@footnoterule{%
22531 \normalsize\ftn@rule@test@values
22532 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22533 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22534 {\usekomafont{footnoterule}}{%
22535 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
22536 \kern 2.6\p@}
22537 \renewcommand*\maketitle[1][1]{%
22538 \expandafter\ifnum \cscname scr@v@3.12\endcscname>\scr@compatibility\relax
22539 \else
22540 \def\and{%
22541 \end{tabular}}%
22542 \hskip 1em \@plus.17fil%
22543 \begin{tabular}[t]{c}%
22544 }%
22545 \fi
22546 \if@titlepage
22547 \begin{titlepage}
22548 \setcounter{page}{%
22549 #1%
22550 }%
22551 \if@titlepageiscoverpage
22552 \edef\tITLEPAGE@restore{%
22553 \noexpand\endgroup
22554 \noexpand\global\noexpand\@colht\the\@colht
22555 \noexpand\global\noexpand\@colroom\the\@colroom
22556 \noexpand\global\vsizethe\vsizethe
22557 \noexpand\global\noexpand\@titlepageiscoverpagefalse
22558 \noexpand\let\noexpand\tITLEPAGE@restore\noexpand\relax
22559 }%
22560 \begin{group}
22561 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
22562 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
22563 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
22564 \textwidth=\dimexpr
22565 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
22566 \textheight=\dimexpr
22567 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
22568 \headheight=0pt
22569 \headsep=0pt
22570 \footskip=\baselineskip
22571 \@colht=\textheight
22572 \@colroom=\textheight
22573 \vsizethe\textheight
22574 \columnwidth=\textwidth
22575 \hsizethe\columnwidth
22576 \linewidth=\hsizethe
22577 \else
22578 \let\tITLEPAGE@restore\relax
22579 \fi

```



```

22580 \let\footnotesize\small
22581 \let\right@footnoterule\relax
22582 \let\left@footnoterule\relax
22583 \let\textwidth@footnoterule\relax
22584 \let\footnote\thanks
22585 \let\LTRfootnote\LTRthanks
22586 \let\RTLfootnote\RTLthanks
22587 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
22588 \let\@oldmakefnmark\@makefnmark
22589 \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
22590 \ifx\@extratitle\@empty
22591 \ifx\@frontispiece\@empty
22592 \else
22593 \if@twoside\mbox{}\next@tpage\fi
22594 \noindent\@frontispiece\next@tdpage
22595 \fi
22596 \else
22597 \noindent\@extratitle
22598 \ifx\@frontispiece\@empty
22599 \else
22600 \next@tpage
22601 \noindent\@frontispiece
22602 \fi
22603 \next@tdpage
22604 \fi
22605 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
22606 \ifx\@titlehead\@empty \else
22607 \begin{minipage}[t]{\textwidth}%
22608 \usekomafont{titlehead}{\@titlehead\par}%
22609 \end{minipage}\par
22610 \fi
22611 \null\vfill
22612 \begin{center}
22613 \ifx\@subject\@empty \else
22614 {\usekomafont{subject}{\@subject\par}}%
22615 \vskip 3em
22616 \fi
22617 {\usekomafont{title}{\huge \@title\par}}%
22618 \vskip 1em
22619 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
22620 \vskip 2em
22621 {%
22622 \usekomafont{author}{%
22623 \lineskip 0.75em
22624 \begin{tabular}[t]{c}
22625 \@author
22626 \end{tabular}\par
22627 }%
22628 }%
22629 \vskip 1.5em
22630 {\usekomafont{date}{\@date \par}}%
22631 \vskip \z@ \@plus3fill
22632 {\usekomafont{publishers}{\@publishers \par}}%
22633 \vskip 3em

```





```

22634 \end{center}\par
22635 \@thanks\global\let\@thanks\@empty
22636 \vfill\null
22637 \if@twoside
22638 \@tempwattrue
22639 \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
22640 \else
22641 \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
22642 \@tempwafalse
22643 \fi\fi
22644 \fi
22645 \if@tempswa
22646 \next@tpage
22647 \begin{minipage}[t]{\textwidth}
22648 \@uppertitleback
22649 \end{minipage}\par
22650 \vfill
22651 \begin{minipage}[b]{\textwidth}
22652 \@lowertitleback
22653 \end{minipage}\par
22654 \@thanks\global\let\@thanks\@empty
22655 \fi
22656 \else
22657 \ifx\@uppertitleback\@empty\else
22658 \ClassWarning{\KOMAClassName}{%
22659 non empty \string\uppertitleback\space ignored
22660 by \string\maketitle\MessageBreak
22661 in `twoside=false' mode%
22662 }%
22663 \fi
22664 \ifx\@lowertitleback\@empty\else
22665 \ClassWarning{\KOMAClassName}{%
22666 non empty \string\lowertitleback\space ignored
22667 by \string\maketitle\MessageBreak
22668 in `twoside=false' mode%
22669 }%
22670 \fi
22671 \fi
22672 \ifx\@dedication\@empty
22673 \else
22674 \next@tdpage\null\vfill
22675 {\centering\usekomafont{dedication}{\@dedication \par}}%
22676 \vskip \z@ \@plus3fill
22677 \@thanks\global\let\@thanks\@empty
22678 \cleardoubleemptypage
22679 \fi
22680 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
22681 \end{titlepage}
22682 \else
22683 \par
22684 \@tempcnta=%
22685 #1%
22686 \relax\ifnum\@tempcnta=1\else
22687 \ClassWarning{\KOMAClassName}{%

```



```

22688     Optional argument of \string\maketitle\space ignored\MessageBreak
22689     in `titlepage=false' mode%
22690   }%
22691 \fi
22692 \ifx\@uppertitleback\@empty\else
22693   \ClassWarning{\KOMAClassName}{%
22694     non empty \string\uppertitleback\space ignored
22695     by \string\maketitle\MessageBreak
22696     in `titlepage=false' mode%
22697   }%
22698 \fi
22699 \ifx\@lowertitleback\@empty\else
22700   \ClassWarning{\KOMAClassName}{%
22701     non empty \string\lowertitleback\space ignored
22702     by \string\maketitle\MessageBreak
22703     in `titlepage=false' mode%
22704   }%
22705 \fi
22706 \beginngroup
22707   \let\titlepage@restore\relax
22708   \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
22709   \let\@oldmakefnmark\@makefnmark
22710   \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
22711   \next@tdpage
22712   \if@twocolumn
22713     \ifnum \col@number=\@one
22714       \ifx\@extratitle\@empty
22715         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
22716       \else
22717         \@makeextratitle
22718       \fi
22719       \ifx\@frontispiece\@empty
22720         \ifx\@extratitle\@empty\else\next@tdpage\fi
22721       \else
22722         \next@tpage
22723         \@makefrontispiece
22724         \next@tdpage
22725       \fi
22726       \@maketitle
22727     \else
22728       \ifx\@extratitle\@empty
22729         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
22730       \else
22731         \twocolumn[\@makeextratitle]%
22732       \fi
22733       \ifx\@frontispiece\@empty
22734         \ifx\@extratitle\@empty\else\next@tdpage\fi
22735       \else
22736         \next@tpage
22737         \twocolumn[\@makefrontispiece]%
22738         \next@tdpage
22739       \fi
22740       \twocolumn[\@maketitle]%
22741     \fi

```



```

22742 \else
22743 \ifx\@extratitle\@empty
22744 \ifx\@frontispiece\@empty\else \mbox{}\fi
22745 \else
22746 \@makeextratitle
22747 \fi
22748 \ifx\@frontispiece\@empty
22749 \ifx\@extratitle\@empty\else\next@tdpage\fi
22750 \else
22751 \next@tpage
22752 \@makefrontispiece
22753 \next@tdpage
22754 \fi
22755 \@maketitle
22756 \fi
22757 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
22758 \@thanks\global\let\@thanks\@empty
22759 \endgroup
22760 \fi
22761 \setcounter{footnote}{0}%
22762 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
22763 \let\thanks\relax
22764 \let\LTRthanks\relax
22765 \let\RTLthanks\relax
22766 \let\maketitle\relax
22767 \let\@maketitle\relax
22768 \global\let\@thanks\@empty
22769 \global\let\@author\@empty
22770 \global\let\@date\@empty
22771 \global\let\@title\@empty
22772 \global\let\@subtitle\@empty
22773 \global\let\@extratitle\@empty
22774 \global\let\@frontispiece\@empty
22775 \global\let\@titlehead\@empty
22776 \global\let\@subject\@empty
22777 \global\let\@publishers\@empty
22778 \global\let\@uppertitleback\@empty
22779 \global\let\@lowertitleback\@empty
22780 \global\let\@dedication\@empty
22781 \global\let\author\relax
22782 \global\let\title\relax
22783 \global\let\extratitle\relax
22784 \global\let\titlehead\relax
22785 \global\let\subject\relax
22786 \global\let\publishers\relax
22787 \global\let\uppertitleback\relax
22788 \global\let\lowertitleback\relax
22789 \global\let\dedication\relax
22790 \global\let\date\relax
22791 \fi
22792 \global\let\and\relax
22793 }%
22794 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
22795 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}

```



```

22796 \renewcommand*\thesection{%
22797   \expandafter\ifnum\scr@v@is@gt{2.97d}%
22798     \if@mainmatter\thechapter\@SepMark\fi
22799   \else
22800     \thechapter\@SepMark%
22801   \fi
22802   \@arabic\c@section
22803 }
22804 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
22805 \renewcommand*\thesubsubsection{%
22806   \thesubsection\@SepMark\@arabic\c@subsubsection
22807 }
22808 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
22809 \renewcommand*\thesubparagraph{%
22810   \theparagraph\@SepMark\@arabic\c@subparagraph
22811 }
22812 \expandafter\ifnum\scr@v@is@le{2.97d}%
22813   \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
22814 \fi
22815 \expandafter\ifnum\scr@v@is@le{2.97d}%
22816   \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
22817 \fi
22818 \renewcommand*\theequation{%
22819   \expandafter\ifnum\scr@v@is@gt{2.97d}%
22820     \if@mainmatter\thechapter\@SepMark\fi
22821   \else
22822     \thechapter\@SepMark%
22823   \fi
22824   \@arabic\c@equation
22825 }
22826 \renewenvironment{thebibliography}[1]{%
22827   \if@bib@break@
22828     \bib@beginhook
22829   \else
22830     \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
22831       \setchapterpreamble{\bibpreamble}%
22832     \fi\fi
22833     \bib@heading
22834     \bib@beginhook
22835     \bib@before@hook
22836   \fi
22837   \renewcommand{\BreakBibliography}[1]{%
22838     \@bib@break
22839     \end{thebibliography}%
22840     \begingroup ##1\endgroup
22841     \begin{thebibliography}{#1}
22842   }%
22843   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
22844   \bidi@thebibliography@font@hook%
22845   \list{%
22846     \@biblabel{\@arabic\c@enumiv}%
22847   }{%
22848     \settowidth\labelwidth{\@biblabel{#1}}%
22849     \leftmargin\labelwidth

```



```

22850 \advance\leftmargin\labelsep
22851 \@openbib@code
22852 \if@bib@break@
22853 \edef\@tempa{%
22854 \noexpand\usecounter{enumiv}%
22855 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
22856 }\@tempa
22857 \no@bib@break
22858 \else
22859 \usecounter{enumiv}%
22860 \fi
22861 \let\p@enumiv\@empty
22862 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
22863 }%
22864 \sloppy\clubpenalty4000 \widowpenalty4000
22865 \sfcode`\.\@m
22866 }{%
22867 \if@bib@break@
22868 \def\@noitemerr{%
22869 \@latex@warning{%
22870 \string\BreakBibliography\space at begin of `thebibliography'
22871 environment\MessageBreak
22872 or following \string\BreakBibliography}%
22873 }%
22874 \else
22875 \def\@noitemerr{%
22876 \@latex@warning{%
22877 Empty `thebibliography' environment or
22878 \string\BreakBibliography\MessageBreak
22879 before end of `thebibliography' environment}%
22880 }%
22881 \fi
22882 \endlist
22883 \if@bib@break@
22884 \else
22885 \bib@after@hook
22886 \let\bib@before@hook\@empty
22887 \let\bib@after@hook\@empty
22888 \fi
22889 \bib@endhook
22890 }
22891 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
22892 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
22893 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
22894 \renewcommand\marginline[1]{%
22895 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi{#1}}
22896 }
22897 \renewcommand{\@makecaption}[3]{%
22898 \cap@margin
22899 \begingroup
22900 \ifonlinecaptions
22901 \def\stepcounter##1{\advance\value{##1}\@ne}%
22902 \let\refstepcounter\stepcounter
22903 \let\label\@gobble

```



```

22904 \let\@footnotetext=\@gobble
22905 \let\@LTRfootnotetext=\@gobble
22906 \let\@RTLfootnotetext=\@gobble
22907 \let\hypertarget\@gobbletwo
22908 \edef\xnewline{%
22909   \unexpanded{\ClassInfo{\KOMAClassName}{%
22910     Workaround for not recommended usage of \string\\ or\MessageBreak
22911     \string\newline in caption text
22912   }}%
22913   \hspace*{\linewidth}\hspace{1sp}%
22914 }%
22915 \unexpanded\expandafter{\xnewline}%
22916 }%
22917 \edef\xcentercr{%
22918   \unexpanded{\ClassInfo{\KOMAClassName}{%
22919     Workaround for not recommended usage of \string\\ or\MessageBreak
22920     \string\newline in caption text
22921   }}%
22922   \hspace*{\linewidth}\hspace{1sp}%
22923 }%
22924 \unexpanded\expandafter{\xcentercr}%
22925 }%
22926 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
22927 \ifdim\@tempdima>\cap@width
22928   \aftergroup\scr@makemultilinecaption
22929 \else
22930   \aftergroup\scr@makesinglelinecaption
22931 \fi
22932 \else
22933   \aftergroup\scr@makemultilinecaption
22934 \fi
22935 \endgroup
22936 {#1}{#2}{#3}%
22937 }
22938 \renewcommand{\scr@makesinglelinecaption}[3]{%
22939   {%
22940     \usefontofkomafont{caption}{%
22941       \hb@xt@{\hsize{%
22942         \cap@left
22943         \if@RTL
22944           \beginR
22945         \fi
22946         \scr@makesinglelinecaption{#1}{#2}{#3}%
22947         \if@RTL
22948           \endR
22949         \fi
22950         \cap@right
22951       }}\par\kern\dp\strutbox%
22952     }%
22953   }\kern-\dp\strutbox
22954 }
22955 \renewcommand{\@makecaption}[2]{%
22956   \if@captionabove
22957     \vskip\belowcaptionskip

```



```

22958 \else
22959 \vskip\abovecaptionskip
22960 \fi
22961 \@makecaption\@firstofone{#1}{#2}%
22962 \if@captionabove
22963 \vskip\abovecaptionskip
22964 \else
22965 \vskip\belowcaptionskip
22966 \fi
22967 }
22968
22969 \renewcommand{\scr@makesinglelinecaption}[3]{%
22970   {\usekomafont{caption}{\strut\ignorespaces
22971     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
22972     \ignorespaces #3\unskip}}%
22973 }
22974
22975 \renewcommand{\scr@makemultilinecaption}[3]{%
22976   {%
22977     \usefontofkomafont{caption}{%
22978       \hb@xt@ \hsize{%
22979         \cap@left
22980         \vbox{\hsize\cap@width\linewidth\hsize
22981           \scr@ifundefinedorrelax{@captype}{%
22982             \ClassWarning{KOMAClassName}{%
22983               ``string\caption' outside float.\MessageBreak
22984               Seems you are using ``string\caption' outside a
22985               float.\MessageBreak
22986               Maybe you are using a package that uses
22987               ``string\@makecaption'\MessageBreak
22988               without setting ``string\@captype' before.\MessageBreak
22989               Because I cannot detect the caption type, I'm using\MessageBreak
22990               the empty one.%
22991             }}%
22992             \let\@captype\@empty
22993           }{}%
22994           \scr@ifundefinedorrelax{ragged\@captype}{\raggedcaption}{%
22995             \@nameuse{ragged\@captype caption}%
22996           }}%
22997           \ifdofullc@p
22998             \@hangfrom{%
22999               \strut
23000               \scr@smashdp{%
23001                 #1{%
23002                   \usekomafont{caption}{%
23003                     \usekomafont{captionlabel}{#2\captionformat}%
23004                   }}%
23005                 }%
23006               }%
23007             }%
23008             {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23009           \else
23010             \ifdim\cap@indent<\z@
23011               \strut

```



```

23012         #1{%
23013             {\usekomafont{caption}{%
23014                 \usekomafont{captionlabel}{#2\captionformat}%
23015             }%
23016         }\par}%
23017         \noindent{{\usekomafont{caption}{%
23018             \hspace*{-\cap@indent}\#3\scr@endstrut
23019         }}\par}%
23020     \else
23021         \if@capbreak
23022             \strut
23023             #1{%
23024                 {\usekomafont{caption}{%
23025                     \usekomafont{captionlabel}{#2\captionformat}%
23026                 }
23027             }\par}%
23028             \noindent\@hangfrom{\hspace*{\cap@indent}}%
23029             {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23030         \else
23031             \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
23032             {%
23033                 \hspace{-\cap@indent}%
23034                 \scr@smashdp{%
23035                     #1{\usekomafont{caption}{%
23036                         \usekomafont{captionlabel}{#2\captionformat}%
23037                     }%
23038                 }%
23039             }%
23040             {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23041             }%
23042         \fi
23043     \fi
23044 \fi
23045 }%
23046 \cap@right
23047 }\par\kern\dp\strutbox
23048 }%
23049 }\kern-\dp\strutbox
23050 }
23051
23052
23053 \bidi@AfterFile{longtable-xetex-bidi.def}{%
23054     \if@komalongtable
23055         \renewcommand{\LT@makecaption}[3]{%
23056             \noalign{%
23057                 \if@captionabove
23058                     \vskip\belowcaptionskip
23059                 \else
23060                     \vskip\abovecaptionskip
23061                 \fi
23062             }%
23063             \LT@mcol\LT@cols c{%
23064                 \hbox to\z@{\hss\parbox[t]{\linewidth{%
23065                     \def\@capttype{table}%

```





```

23066         \@makecaption{#1}{#2}{#3}%
23067     \endgraf
23068     \if@captionabove
23069         \vskip\abovecaptionskip
23070     \else
23071         \vskip\belowcaptionskip
23072     \fi
23073 }%
23074 \hss
23075 }%
23076 }%
23077 }%
23078 \renewcommand*{\scr@LT@array}{}%
23079 \let\scr@LT@array=\LT@array
23080 \renewcommand*{\LT@array}{%
23081     \let\scr@caption=\LT@caption
23082     \def\captionabove{\noalign{\global\@captionabovetrue}%
23083         \scr@caption}%
23084     \def\captionbelow{\noalign{\global\@captionabovetrue}%
23085         \scr@caption}%
23086     \if@tablecaptionabove
23087         \let\LT@caption=\captionabove
23088     \else
23089         \let\LT@caption=\captionbelow
23090     \fi
23091     \scr@LT@array
23092 }%
23093 \ClassInfo{\KOMAClassName}{%
23094     longtable captions redefined%
23095 }%
23096 \fi
23097 }
23098
23099 \CloneTOCEntryStyle{tocline}{part}
23100 \TOCEntryStyleStartInitCode{part}{%
23101     \expandafter\renewcommand%
23102     \csname scr@tso@#1@linefill\endcsname{\hfill}%
23103     \expandafter\renewcommand%
23104     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
23105     \expandafter\renewcommand%
23106     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23107         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
23108     \expandafter\renewcommand\expandafter*%
23109     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
23110 }
23111
23112 \CloneTOCEntryStyle{tocline}{chapter}
23113 \TOCEntryStyleStartInitCode{chapter}{%
23114     \expandafter\renewcommand%
23115     \csname scr@tso@#1@linefill\endcsname{%
23116         \if@chapterentrywithdots
23117             {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
23118         \else
23119             \hfill

```



```

23120 \fi
23121 }%
23122 \expandafter\renewcommand%
23123 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
23124 \expandafter\renewcommand%
23125 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23126 {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
23127 \expandafter\renewcommand\expandafter*%
23128 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
23129 }
23130
23131 \CloneTOCEntryStyle{tocline}{section}
23132 \TOCEntryStyleStartInitCode{section}{%
23133 \expandafter\renewcommand%
23134 \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
23135 \expandafter\renewcommand%
23136 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23137 {\normalfont\normalcolor ##1}}%
23138 }
23139
23140 \CloneTOCEntryStyle{section}{default}
23141
23142 \DeclareSectionCommand[%
23143 style=chapter,%
23144 level=\z@,%
23145 pagestyle=plain,%
23146 tocstyle=chapter,%
23147 tocindent=\z@,%
23148 tocnumwidth=1.5em%
23149 ]{chapter}
23150 \DeclareSectionCommand[%
23151 style=section,%
23152 level=1,%
23153 indent=\z@,%
23154 beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
23155 afterskip=2.3ex \@plus .2ex,%
23156 tocstyle=section,%
23157 tocindentfollows=chapter,%
23158 tocindent=1.5em,%
23159 tocnumwidth=2.3em%
23160 ]{section}
23161 \DeclareSectionCommand[%
23162 style=part,%
23163 level=\m@ne,%
23164 pagestyle=plain,%
23165 tocstyle=part,%
23166 toclevel=\m@ne,%
23167 tocindent=\z@,%
23168 tocnumwidth=2em%
23169 ]{part}
23170 \DeclareSectionCommand[%
23171 style=section,%
23172 level=2,%
23173 indent=\z@,%

```



```

23174 beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
23175 afterskip=1.5ex \@plus .2ex,%
23176 tocstyle=section,%
23177 tocindent=3.8em,%
23178 tocnumwidth=3.2em%
23179 ]{subsection}
23180 \DeclareSectionCommand[%
23181   style=section,%
23182   level=3,%
23183   indent=\z@,%
23184   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
23185   afterskip=1.5ex \@plus .2ex,%
23186   tocstyle=section,%
23187   tocindent=7.0em,%
23188   tocnumwidth=4.1em%
23189 ]{subsubsection}
23190 \DeclareSectionCommand[%
23191   style=section,%
23192   level=4,%
23193   indent=\z@,%
23194   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
23195   afterskip=-1em,%
23196   tocindentfollows=subsubsection,%
23197   tocstyle=section,%
23198   tocindent=10em,%
23199   tocnumwidth=5em%
23200 ]{paragraph}
23201 \DeclareSectionCommand[%
23202   style=section,%
23203   level=5,%
23204   indent=\scr@parindent,%
23205   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
23206   afterskip=-1em,%
23207   tocstyle=section,%
23208   tocindent=12em,%
23209   tocnumwidth=6em%
23210 ]{subparagraph}

```

## 143 File `scrreprt-xetex-bidi.def`

```

23211 \ProvidesFile{scrreprt-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrreprt class]
23212 \newcommand{\scr@saved@LTRfootnotetext}{}
23213 \newcommand{\scr@saved@RTLfootnotetext}{}
23214 \let\scr@saved@footnotetext\@footnotetext
23215 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
23216 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
23217 \renewcommand{\@footnotetext}[1]{%
23218   \scr@saved@footnotetext{#1}%
23219   \csname FN@mf@prepare\endcsname
23220 }
23221 \renewcommand{\@LTRfootnotetext}[1]{%
23222   \scr@saved@LTRfootnotetext{#1}%
23223   \csname FN@mf@prepare\endcsname
23224 }

```



```

23225 \renewcommand{\@RTLfootnotetext}[1]{%
23226   \scr@saved@RTLfootnotetext{#1}%
23227   \csname FN@mf@prepare\endcsname
23228 }
23229 \renewcommand\deffootnote[4][1]{%
23230   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
23231     \long\def\@makefnmark##1{%
23232       \ExecuteDoHook{footnote/text/begin}%
23233       \raggedfootnote
23234       \if@RTL
23235         \rightskip
23236       \else
23237         \leftskip
23238       \fi
23239       #2
23240       \l@addto@macro\@trivlist{%
23241         \ifnum\@listdepth=\@ne
23242           \if@RTL
23243             \advance\rightmargin #2\relax
23244           \else
23245             \advance\leftmargin #2\relax
23246           \fi
23247         \fi
23248       }%
23249       \parindent #3\noindent
23250       \IfArgIsEmpty{#1}{-}{%
23251         \hskip \dimexpr #1-#2\relax
23252       }%
23253       \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
23254       \ExecuteDoHook{footnote/text/end}%
23255     }%
23256   \else
23257     \ClassInfo{\KOMAClassName}{%
23258       Using old \string\@makefnmark\space due to compatibility
23259       level\MessageBreak
23260       less than 3.22}%
23261     \long\def\@makefnmark##1{%
23262       \setlength{\@tempdimc}{#3}%
23263       \def\@tempa{#1}\ifx\@tempa\@empty
23264         \@setpar{\@par
23265           \@tempdima = \hsize
23266           \addtolength{\@tempdima}{-#2}%
23267           \if@RTL
23268             \parshape \@ne \z@ \@tempdima
23269           \else
23270             \parshape \@ne #2 \@tempdima
23271           \fi
23272         }%
23273       \else
23274         \addtolength{\@tempdimc}{#2}%
23275         \addtolength{\@tempdimc}{-#1}%
23276         \@setpar{\@par
23277           \@tempdima = \hsize
23278           \addtolength{\@tempdima}{-#1}%

```



```

23279         \@tempdimb = \hsize
23280         \addtolength{\@tempdimb}{-#2}%
23281         \if@RTL
23282             \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
23283         \else
23284             \parshape \tw@ #1 \@tempdima #2 \@tempdimb
23285         \fi
23286     }%
23287 \fi
23288 \par
23289 \parindent\@tempdimc\noindent
23290 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
23291 }%
23292 \fi
23293 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
23294 }
23295 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
23296 \renewcommand*\left@footnoterule{%
23297     \normalsize\ftn@rule@test@values
23298     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
23299     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
23300     {\usekomafont{footnoterule}{%
23301         \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
23302     \kern 2.6\p@}
23303 \renewcommand*\right@footnoterule{%
23304     \normalsize\ftn@rule@test@values
23305     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
23306     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
23307     {\usekomafont{footnoterule}{%
23308         \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
23309         \kern 2.6\p@}
23310 \renewcommand*\maketitle[1][1]{%
23311     \expandafter\ifnum \c@name scr@v03.12\endcsname>\scr@compatibility\relax
23312     \else
23313         \def\and{%
23314             \end{tabular}%
23315             \hskip 1em \@plus.17fil%
23316             \begin{tabular}[t]{c}%
23317         }%
23318     \fi
23319     \if@titlepage
23320         \begin{titlepage}
23321             \setcounter{page}{%
23322                 #1%
23323             }%
23324             \if@titlepageiscoverpage
23325                 \edef\t@titlepage@restore{%
23326                     \noexpand\endgroup
23327                     \noexpand\global\noexpand\@colht\the\@colht
23328                     \noexpand\global\noexpand\@colroom\the\@colroom
23329                     \noexpand\global\vs@the\the\vs@the
23330                     \noexpand\global\noexpand\@titlepageiscoverpagefalse
23331                     \noexpand\let\noexpand\t@titlepage@restore\noexpand\relax
23332                 }%

```



```

23333 \beginngroup
23334 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
23335 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
23336 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
23337 \textwidth=\dimexpr
23338 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
23339 \textheight=\dimexpr
23340 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
23341 \headheight=0pt
23342 \headsep=0pt
23343 \footskip=\baselineskip
23344 \@colht=\textheight
23345 \@colroom=\textheight
23346 \vsize=\textheight
23347 \columnwidth=\textwidth
23348 \hsize=\columnwidth
23349 \linewidth=\hsize
23350 \else
23351 \let\titlepage@restore\relax
23352 \fi
23353 \let\footnotesize\small
23354 \let\right@footnoterule\relax
23355 \let\left@footnoterule\relax
23356 \let\textwidth@footnoterule\relax
23357 \let\footnote\thanks
23358 \let\LTRfootnote\LTRthanks
23359 \let\RTLfootnote\RTLthanks
23360 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
23361 \let\@oldmakefnmark\@makefnmark
23362 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
23363 \ifx\@extratitle\@empty
23364 \ifx\@frontispiece\@empty
23365 \else
23366 \if@twoside\mbox{}\next@tpage\fi
23367 \noindent\@frontispiece\next@tdpage
23368 \fi
23369 \else
23370 \noindent\@extratitle
23371 \ifx\@frontispiece\@empty
23372 \else
23373 \next@tpage
23374 \noindent\@frontispiece
23375 \fi
23376 \next@tdpage
23377 \fi
23378 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
23379 \ifx\@titlehead\@empty \else
23380 \begin{minipage}[t]{\textwidth}%
23381 \usekomafont{titlehead}{\@titlehead\par}%
23382 \end{minipage}\par
23383 \fi
23384 \null\vfill
23385 \begin{center}
23386 \ifx\@subject\@empty \else

```



```

23387         {\usekomafont{subject}{\@subject\par}}%
23388         \vskip 3em
23389     \fi
23390     {\usekomafont{title}{\huge \@title\par}}%
23391     \vskip 1em
23392     {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
23393     \vskip 2em
23394     {%
23395         \usekomafont{author}{%
23396             \lineskip 0.75em
23397             \begin{tabular}[t]{c}
23398                 \@author
23399             \end{tabular}\par
23400         }%
23401     }%
23402     \vskip 1.5em
23403     {\usekomafont{date}{\@date \par}}%
23404     \vskip \z@ \@plus3fill
23405     {\usekomafont{publishers}{\@publishers \par}}%
23406     \vskip 3em
23407     \end{center}\par
23408     \@thanks\global\let\@thanks\@empty
23409     \vfill\null
23410     \if@twoside
23411         \@tempswatrue
23412         \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
23413         \else
23414             \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
23415                 \@tempswafalse
23416             \fi\fi
23417         \fi
23418         \if@tempswa
23419             \next@tpage
23420             \begin{minipage}[t]{\textwidth}
23421                 \@uppertitleback
23422             \end{minipage}\par
23423             \vfill
23424             \begin{minipage}[b]{\textwidth}
23425                 \@lowertitleback
23426             \end{minipage}\par
23427             \@thanks\global\let\@thanks\@empty
23428         \fi
23429     \else
23430         \ifx\@uppertitleback\@empty\else
23431             \ClassWarning{\KOMAClassName}{%
23432                 non empty \string\uppertitleback\space ignored
23433                 by \string\maketitle\MessageBreak
23434                 in `twoside=false' mode%
23435             }%
23436         \fi
23437         \ifx\@lowertitleback\@empty\else
23438             \ClassWarning{\KOMAClassName}{%
23439                 non empty \string\lowertitleback\space ignored
23440                 by \string\maketitle\MessageBreak

```



```

23441         in `twoside=false' mode%
23442     }%
23443     \fi
23444 \fi
23445 \ifx\@dedication\@empty
23446 \else
23447     \next@tdpage\null\vfill
23448     {\centering\usekomafont{dedication}{\@dedication \par}}%
23449     \vskip \z@ \@plus3fill
23450     \@thanks\global\let\@thanks\@empty
23451     \cleardoubleemptypage
23452 \fi
23453 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
23454 \end{titlepage}
23455 \else
23456     \par
23457     \@tempcnta=%
23458     #1%
23459     \relax\ifnum\@tempcnta=1\else
23460         \ClassWarning{\KOMAClassName}{%
23461             Optional argument of \string\maketitle\space ignored\MessageBreak
23462             in `titlepage=false' mode%
23463         }%
23464     \fi
23465     \ifx\@uppertitleback\@empty\else
23466         \ClassWarning{\KOMAClassName}{%
23467             non empty \string\uppertitleback\space ignored
23468             by \string\maketitle\MessageBreak
23469             in `titlepage=false' mode%
23470         }%
23471     \fi
23472     \ifx\@lowertitleback\@empty\else
23473         \ClassWarning{\KOMAClassName}{%
23474             non empty \string\lowertitleback\space ignored
23475             by \string\maketitle\MessageBreak
23476             in `titlepage=false' mode%
23477         }%
23478     \fi
23479 \begingroup
23480     \let\titlepage@restore\relax
23481     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
23482     \let\@oldmakefnmark\@makefnmark
23483     \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
23484     \next@tdpage
23485     \if@twocolumn
23486         \ifnum \col@number=\@ne
23487             \ifx\@extratitle\@empty
23488                 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
23489             \else
23490                 \@makeextratitle
23491             \fi
23492             \ifx\@frontispiece\@empty
23493                 \ifx\@extratitle\@empty\else\next@tdpage\fi
23494             \else

```





```

23495         \next@tpage
23496         \@makefrontispiece
23497         \next@tdpage
23498     \fi
23499     \@maketitle
23500 \else
23501     \ifx\@extratitle\@empty
23502         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
23503     \else
23504         \twocolumn[\@makeextratitle]%
23505     \fi
23506     \ifx\@frontispiece\@empty
23507         \ifx\@extratitle\@empty\else\next@tdpage\fi
23508     \else
23509         \next@tpage
23510         \twocolumn[\@makefrontispiece]%
23511         \next@tdpage
23512     \fi
23513     \twocolumn[\@maketitle]%
23514 \fi
23515 \else
23516     \ifx\@extratitle\@empty
23517         \ifx\@frontispiece\@empty\else \mbox{}\fi
23518     \else
23519         \@makeextratitle
23520     \fi
23521     \ifx\@frontispiece\@empty
23522         \ifx\@extratitle\@empty\else\next@tdpage\fi
23523     \else
23524         \next@tpage
23525         \@makefrontispiece
23526         \next@tdpage
23527     \fi
23528     \@maketitle
23529 \fi
23530 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
23531 \@thanks\global\let\@thanks\@empty
23532 \endgroup
23533 \fi
23534 \setcounter{footnote}{0}%
23535 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
23536     \let\thanks\relax
23537     \let\LTRthanks\relax
23538     \let\RTLthanks\relax
23539     \let\maketitle\relax
23540     \let\@maketitle\relax
23541     \global\let\@thanks\@empty
23542     \global\let\@author\@empty
23543     \global\let\@date\@empty
23544     \global\let\@title\@empty
23545     \global\let\@subtitle\@empty
23546     \global\let\@extratitle\@empty
23547     \global\let\@frontispiece\@empty
23548     \global\let\@titlehead\@empty

```



```

23549 \global\let\@subject\@empty
23550 \global\let\@publishers\@empty
23551 \global\let\@uppertitleback\@empty
23552 \global\let\@lowertitleback\@empty
23553 \global\let\@dedication\@empty
23554 \global\let\author\relax
23555 \global\let\title\relax
23556 \global\let\extratitle\relax
23557 \global\let\titlehead\relax
23558 \global\let\subject\relax
23559 \global\let\publishers\relax
23560 \global\let\uppertitleback\relax
23561 \global\let\lowertitleback\relax
23562 \global\let\dedication\relax
23563 \global\let\date\relax
23564 \fi
23565 \global\let\and\relax
23566 }%
23567 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
23568 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
23569 \renewcommand*\thesection{%
23570 \thechapter\@SepMark%
23571 \@arabic\c@section
23572 }
23573 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
23574 \renewcommand*{\thesubsubsection}{%
23575 \thesubsection\@SepMark\@arabic\c@subsubsection
23576 }
23577 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
23578 \renewcommand*{\thesubparagraph}{%
23579 \theparagraph\@SepMark\@arabic\c@subparagraph
23580 }
23581 \expandafter\ifnum\scr@v@is@le{2.97d}%
23582 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
23583 \fi
23584 \expandafter\ifnum\scr@v@is@le{2.97d}%
23585 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
23586 \fi
23587 \renewcommand*\theequation{%
23588 \thechapter\@SepMark%
23589 \@arabic\c@equation
23590 }
23591 \renewenvironment{thebibliography}[1]{%
23592 \if@bib@break@
23593 \bib@beginhook
23594 \else
23595 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
23596 \setchapterpreamble{\bibpreamble}%
23597 \fi\fi
23598 \bib@heading
23599 \bib@beginhook
23600 \bib@before@hook
23601 \fi
23602 \renewcommand{\BreakBibliography}[1]{%

```



```

23603 \@bib@break
23604 \end{thebibliography}%
23605 \begingroup ##1\endgroup
23606 \begin{thebibliography}{#1}
23607 }%
23608 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
23609 \bidi@thebibliography@font@hook%
23610 \list{%
23611   \@biblabel{\@arabic\c@enumiv}%
23612 }{%
23613   \settowidth\labelwidth{\@biblabel{#1}}%
23614   \leftmargin\labelwidth
23615   \advance\leftmargin\labelsep
23616   \@openbib@code
23617   \if@bib@break@
23618     \edef\@tempa{%
23619       \noexpand\usecounter{enumiv}%
23620       \noexpand\setcounter{enumiv}{\the\c@enumiv}%
23621     }\@tempa
23622     \no@bib@break
23623   \else
23624     \usecounter{enumiv}%
23625   \fi
23626   \let\p@enumiv\@empty
23627   \renewcommand*\theenumiv{\@arabic\c@enumiv}%
23628 }%
23629 \sloppy\clubpenalty4000 \widowpenalty4000
23630 \sfcode\.\@m
23631 }{%
23632 \if@bib@break@
23633 \def\@noitemerr{%
23634 \latex@warning{%
23635 \string\BreakBibliography\space at begin of `thebibliography'
23636 environment\MessageBreak
23637 or following \string\BreakBibliography}%
23638 }%
23639 \else
23640 \def\@noitemerr{%
23641 \latex@warning{%
23642 Empty `thebibliography' environment or
23643 \string\BreakBibliography\MessageBreak
23644 before end of `thebibliography' environment}%
23645 }%
23646 \fi
23647 \endlist
23648 \if@bib@break@
23649 \else
23650 \bib@after@hook
23651 \let\bib@before@hook\@empty
23652 \let\bib@after@hook\@empty
23653 \fi
23654 \bib@endhook
23655 }
23656 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}

```



```

23657 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
23658 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
23659 \renewcommand\marginline[1]{%
23660   \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi}
23661 }
23662 \renewcommand{\@@makecaption}[3]{%
23663   \cap@margin
23664   \begingroup
23665     \ifonelinecaptions
23666       \def\stepcounter##1{\advance\value{##1}\@ne}%
23667       \let\refstepcounter\stepcounter
23668       \let\label@gobble
23669       \let\@footnotetext=\@gobble
23670       \let\@LTRfootnotetext=\@gobble
23671       \let\@RTLfootnotetext=\@gobble
23672       \let\hypertarget\@gobbletwo
23673       \edef\xnewline{%
23674         \unexpanded{\ClassInfo{\KOMAClassName}{%
23675           Workaround for not recommended usage of \string\\ or\MessageBreak
23676           \string\newline in caption text
23677         }}%
23678         \hspace*{\linewidth}\hspace{1sp}%
23679       }%
23680       \unexpanded\expandafter{\@xnewline}%
23681     }%
23682     \edef\xcentercr{%
23683       \unexpanded{\ClassInfo{\KOMAClassName}{%
23684         Workaround for not recommended usage of \string\\ or\MessageBreak
23685         \string\newline in caption text
23686       }}%
23687       \hspace*{\linewidth}\hspace{1sp}%
23688     }%
23689     \unexpanded\expandafter{\@xcentercr}%
23690   }%
23691   \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
23692   \ifdim\@tempdima>\cap@width
23693     \aftergroup\scr@makemultilinecaption
23694   \else
23695     \aftergroup\scr@makesinglelinecaption
23696   \fi
23697 \else
23698   \aftergroup\scr@makemultilinecaption
23699 \fi
23700 \endgroup
23701 {#1}{#2}{#3}%
23702 }
23703 \renewcommand{\scr@makesinglelinecaption}[3]{%
23704   {%
23705     \usefontofkomafont{caption}{%
23706       \hb@xt@{\hsize}{%
23707         \cap@left
23708         \if@RTL
23709           \beginR
23710           \fi

```



```

23711         \scr@makesinglelinecaption{#1}{#2}{#3}%
23712         \if@RTL
23713             \endR
23714         \fi
23715         \cap@right
23716     }\par\kern\dp\strutbox%
23717 }%
23718 }\kern-\dp\strutbox
23719 }
23720 \renewcommand{\@makecaption}[2]{%
23721     \if@captionabove
23722         \vskip\belowcaptionskip
23723     \else
23724         \vskip\abovecaptionskip
23725     \fi
23726     \@makecaption\@firstofone{#1}{#2}%
23727     \if@captionabove
23728         \vskip\abovecaptionskip
23729     \else
23730         \vskip\belowcaptionskip
23731     \fi
23732 }
23733
23734 \renewcommand{\scr@makesinglelinecaption}[3]{%
23735     {\usekomafont{caption}{\strut\ignorespaces
23736         #1{\usekomafont{captionlabel}{#2\captionformat}}}%
23737     \ignorespaces #3\unskip}}%
23738 }
23739
23740 \renewcommand{\scr@makemultilinecaption}[3]{%
23741     {%
23742         \usefontofkomafont{caption}{%
23743             \hb@xt@\hsize{%
23744                 \cap@left
23745                 \vbox{\hsize\cap@width\linewidth\hsize
23746                     \scr@ifundefinedorrelax{@captive}{%
23747                         \ClassWarning{KOMAClassName}{%
23748                             `\'string\caption' outside float.\MessageBreak
23749                             Seems you are using `\'string\caption' outside a
23750                             float.\MessageBreak
23751                             Maybe you are using a package that uses
23752                             `\'string\@makecaption'\MessageBreak
23753                             without setting `\'string\@captive' before.\MessageBreak
23754                             Because I cannot detect the caption type, I'm using\MessageBreak
23755                             the empty one.%
23756                         }%
23757                         \let\@captive\@empty
23758                     }{}%
23759                     \scr@ifundefinedorrelax{ragged\@captive caption}{\raggedcaption}{%
23760                         \@nameuse{ragged\@captive caption}%
23761                     }%
23762                     \ifdofullc@p
23763                         \@hangfrom{%
23764

```



```

23765         \scr@smashdp{%
23766             #1{%
23767                 \usekomafont{caption}{%
23768                     \usekomafont{captionlabel}{#2\captionformat}%
23769                 }%
23770             }%
23771         }%
23772     }%
23773     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23774 \else
23775     \ifdim\cap@indent<\z@
23776         \strut
23777         #1{%
23778             {\usekomafont{caption}{%
23779                 \usekomafont{captionlabel}{#2\captionformat}%
23780             }%
23781         }\par}%
23782     \noindent{{\usekomafont{caption}{%
23783         \hspace*{-\cap@indent}#3\scr@endstrut
23784     }}\par}%
23785 \else
23786     \if@capbreak
23787         \strut
23788         #1{%
23789             {\usekomafont{caption}{%
23790                 \usekomafont{captionlabel}{#2\captionformat}%
23791             }%
23792         }\par}%
23793     \noindent\@hangfrom{\hspace*{\cap@indent}}%
23794     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23795 \else
23796     \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
23797     {%
23798         \hspace{-\cap@indent}%
23799         \scr@smashdp{%
23800             #1{\usekomafont{caption}{%
23801                 \usekomafont{captionlabel}{#2\captionformat}%
23802             }%
23803         }%
23804     }%
23805     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23806 }%
23807 \fi
23808 \fi
23809 \fi
23810 }%
23811 \cap@right
23812 }\par\kern\dp\strutbox
23813 }%
23814 }\kern-\dp\strutbox
23815 }
23816
23817
23818 \bidi@AfterFile{longtable-xetex-bidi.def}{%

```



```

23819 \if@komalongtable
23820 \renewcommand{\LT@makecaption}[3]{%
23821 \noalign{%
23822 \if@captionabove
23823 \vskip\belowcaptionskip
23824 \else
23825 \vskip\abovecaptionskip
23826 \fi
23827 }%
23828 \LT@mcol\LT@cols c{%
23829 \hbox to\z@{\hss\parbox[t]{\linewidth{%
23830 \def\@capttype{table}%
23831 \@makecaption{#1}{#2}{#3}%
23832 \endgraf
23833 \if@captionabove
23834 \vskip\abovecaptionskip
23835 \else
23836 \vskip\belowcaptionskip
23837 \fi
23838 }%
23839 \hss
23840 }%
23841 }%
23842 }%
23843 \renewcommand*{\scr@LT@array}{}%
23844 \let\scr@LT@array=\LT@array
23845 \renewcommand*{\LT@array}{%
23846 \let\scr@caption=\LT@caption
23847 \def\captionabove{\noalign{\global\@captionabovetrue}%
23848 \scr@caption}%
23849 \def\captionbelow{\noalign{\global\@captionabovetrue}%
23850 \scr@caption}%
23851 \if@tablecaptionabove
23852 \let\LT@caption=\captionabove
23853 \else
23854 \let\LT@caption=\captionbelow
23855 \fi
23856 \scr@LT@array
23857 }%
23858 \ClassInfo{\KOMAClassName}{%
23859 longtable captions redefined%
23860 }%
23861 \fi
23862 }
23863
23864 \CloneTOCEntryStyle{tocline}{part}
23865 \TOCEntryStyleStartInitCode{part}{%
23866 \expandafter\renewcommand%
23867 \csname scr@tso@#1@linefill\endcsname{\hfill}%
23868 \expandafter\renewcommand%
23869 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
23870 \expandafter\renewcommand%
23871 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23872 {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%

```



```

23873 \expandafter\renewcommand\expandafter*%
23874 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
23875 }
23876
23877 \CloneTOCEntryStyle{tocline}{chapter}
23878 \TOCEntryStyleStartInitCode{chapter}{%
23879 \expandafter\renewcommand%
23880 \csname scr@tso@#1@linefill\endcsname{%
23881 \if@chapterentrywithdots
23882 {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
23883 \else
23884 \hfill
23885 \fi
23886 }%
23887 \expandafter\renewcommand%
23888 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
23889 \expandafter\renewcommand%
23890 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23891 {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
23892 \expandafter\renewcommand\expandafter*%
23893 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
23894 }
23895
23896 \CloneTOCEntryStyle{tocline}{section}
23897 \TOCEntryStyleStartInitCode{section}{%
23898 \expandafter\renewcommand%
23899 \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
23900 \expandafter\renewcommand%
23901 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23902 {\normalfont\normalcolor ##1}}%
23903 }
23904
23905 \CloneTOCEntryStyle{section}{default}
23906
23907 \DeclareSectionCommand[%
23908 style=chapter,%
23909 level=\z@,%
23910 pagestyle=plain,%
23911 tocstyle=chapter,%
23912 tocindent=\z@,%
23913 tocnumwidth=1.5em%
23914 ]{chapter}
23915 \DeclareSectionCommand[%
23916 style=section,%
23917 level=1,%
23918 indent=\z@,%
23919 beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
23920 afterskip=2.3ex \@plus .2ex,%
23921 tocstyle=section,%
23922 tocindentfollows=chapter,%
23923 tocindent=1.5em,%
23924 tocnumwidth=2.3em%
23925 ]{section}
23926 \DeclareSectionCommand[%

```





```

23927 style=part,%
23928 level=\m@ne,%
23929 pagestyle=plain,%
23930 tocstyle=part,%
23931 toplevel=\m@ne,%
23932 tocindent=\z@,%
23933 tocnumwidth=2em%
23934 ]{part}
23935 \DeclareSectionCommand[%
23936 style=section,%
23937 level=2,%
23938 indent=\z@,%
23939 beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
23940 afterskip=1.5ex \@plus .2ex,%
23941 tocstyle=section,%
23942 tocindent=3.8em,%
23943 tocnumwidth=3.2em%
23944 ]{subsection}
23945 \DeclareSectionCommand[%
23946 style=section,%
23947 level=3,%
23948 indent=\z@,%
23949 beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
23950 afterskip=1.5ex \@plus .2ex,%
23951 tocstyle=section,%
23952 tocindent=7.0em,%
23953 tocnumwidth=4.1em%
23954 ]{subsubsection}
23955 \DeclareSectionCommand[%
23956 style=section,%
23957 level=4,%
23958 indent=\z@,%
23959 beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
23960 afterskip=-1em,%
23961 tocindentfollows=subsubsection,%
23962 tocstyle=section,%
23963 tocindent=10em,%
23964 tocnumwidth=5em%
23965 ]{paragraph}
23966 \DeclareSectionCommand[%
23967 style=section,%
23968 level=5,%
23969 indent=\scr@parindent,%
23970 beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
23971 afterskip=-1em,%
23972 tocstyle=section,%
23973 tocindent=12em,%
23974 tocnumwidth=6em%
23975 ]{subparagraph}

```

## 144 File sidecap-xetex-bidi.def

```

23976 \ProvidesFile{sidecap-xetex-bidi.def}[2010/08/01 v0.1 bidi adaptations for sidecap package]
23977 \renewcommand*{\SC@FLOAT}[2]{\if@RTL%

```



```

23978 \isSC@ODD{{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}\else%
23979 \isSC@ODD{{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}\fi}
23980 \renewcommand*{\SC@justify@caption{\if@RTL%
23981 \isSC@ODD{\RaggedLeft}{\RaggedRight}\else%
23982 \isSC@ODD{\RaggedRight}{\RaggedLeft}\fi}

```

## 145 File soul-xetex-bidi.def

```

23983 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for Xe
23984 \long\def\SOUL@start#1{%
23985 \let\bidi@RTL@everypar\empty
23986 \let<\SOUL@lowerthan
23987 \let>\empty
23988 \def\soulomit{\noexpand\soulomit}%
23989 \gdef\SOUL@eventuallyxhyphen##1{%
23990 \let\SOUL@soeventuallyskip\relax
23991 \SOUL@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@\font
23992 \@minus\fontdimen4\font
23993 \SOUL@ignorespacesfalse
23994 \leavevmode
23995 \SOUL@preamble
23996 \SOUL@lasttoken={}
23997 \SOUL@word={}
23998 \SOUL@minus\z@
23999 \SOUL@comma\z@
24000 \SOUL@apo\z@
24001 \SOUL@grave\z@
24002 \SOUL@do{#1}%
24003 \SOUL@postamble
24004 }}
24005 \def\SOUL@ulunderline#1{%
24006 \setbox\z@\hbox{#1}%
24007 \dimen@=\wd\z@
24008 \dimen@i=\SOUL@uloverlap
24009 \advance\dimen@2\dimen@i
24010 \if@RTL
24011 \unhcopy\z@
24012 \llap{%
24013 \null
24014 \kern-\dimen@i
24015 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
24016 }%
24017 \else
24018 \rlap{%
24019 \null
24020 \kern-\dimen@i
24021 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
24022 }%
24023 \unhcopy\z@
24024 \fi
24025 }}
24026 \def\bidi@SOUL@ulleaders{%
24027 \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule\@depth\SOUL@uldp\@height\SOUL@ulht}\hss}\
24028 }

```



```

24029 \def\SOUL@uleverySPACE#1{%
24030     \if@RTL
24031     #1%
24032     \bidi@SOUL@ulleaders
24033     \hskip\spaceskip
24034     \else
24035     \SOUL@ulcolor{%
24036     #1%
24037     \SOUL@ulleaders
24038     \hskip\spaceskip
24039     }%
24040     \fi
24041     \null
24042 }

```

## 146 File stabular-xetex-bidi.def

```

24043 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular packag
24044 \def\@stabular{%
24045     \leavevmode \bgroup \if@RTLtab\beginR \fi
24046     \let\@acol\@tabacol
24047     \let\@classz\@tabclassz
24048     \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
24049 \def\endstabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
24050     \egroup \if@RTLtab\endR\fi\egroup}
24051 \expandafter \let \csname endstabular*\endcsname = \endstabular
24052 \def\@sarray[#1]#2{%
24053     \bgroup
24054     \setbox\@arstrutbox\hbox{%
24055         \vrule \@height\arraystretch\ht\strutbox
24056         \@depth\arraystretch \dp\strutbox
24057         \@width\z@}%
24058     \mkpream{#2}%
24059     \edef\@preamble{%
24060         \ialign \noexpand\@halignto
24061         \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
24062     \let\@startpbox\@@startpbox \let\@endpbox\@@endpbox
24063     \let\@tabularnewline\\%
24064     \let\@sharp##%
24065     \set@typeset@protect
24066     \lineskip\z@skip\baselineskip\z@skip
24067     \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
24068     \@preamble}

```

## 147 File subfigure-xetex-bidi.def

```

24069 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure pack
24070 \AtBeginDocument{%
24071     \let\p@subfigure=\thefigure
24072     \let\p@subtable=\thetable%
24073 }

```

## 148 File tabs-xetex-bidi.def



```

24074 \ProvidesFile{tabls-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabls package for
24075 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
24076
24077 \expandafter\let\csname endtabular*\endcsname=\endtabular
24078
24079 \def\endarray{\ifvmode\csname crcr\endcsname % just do \crr if \ given
24080 \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
24081 \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}
24082
24083 \def\@array[#1]#2{% remember global variables to allow recursion:
24084 \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
24085 \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
24086 \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
24087 \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
24088 \else \let\@tarlinesep\tablinesep \fi
24089 \divide\@tarlinesep\tw@ % half sep is applied to height & depth
24090 \let\@seesize\relax \let\@rememsize\relax \mkpream{#2}%
24091 \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
24092 \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
24093 \def\@rememsize{\protect\@r@m@size}\let\@seesize\@s@size
24094 \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
24095 \fi \setbox\@arstrutbox\hbox{% set up smaller strut
24096 \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
24097 \let\protect\noexpand
24098 \edef\@preamble{\ialign \noexpand\@halignto \bgroup
24099 \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
24100 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
24101 \if#1t\top \else \if#1b\box \else \vcenter \fi\fi
24102 \bgroup \let\par\empty
24103 \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
24104 \advance\extrarulesep.5\arrayrulewidth
24105 \let\@sharp##\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
24106 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\top \else \box \fi\bgroup\fi
24107 \@preamble}

```

## 149 File tabularx-xetex-bidi.def

```

24108 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx packag
24109 \def\TX@endtabularx{%
24110 \expandafter\expandafter\expandafter
24111 \TX@find@endtabularxa\csname end\TX@\endcsname
24112 \endtabularx\TX@\endtabularx\TX@find@endtabularxa
24113 \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}%
24114 \let\verb\TX@verb
24115 \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
24116 \edef\TX@ckpt{\cl@ckpt}%
24117 \let\@elt\relax
24118 \TX@old@table\maxdimen
24119 \TX@col@width\TX@target
24120 \global\TX@cols\@ne
24121 \TX@typeout@
24122 {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%
24123 \TX@trial{\def\NC@rewrite@X{%
24124 \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%

```



```

24125 \loop
24126   \TX@arith
24127   \ifTX@
24128   \TX@trial{}%
24129 \repeat
24130 {\let\@footnotetext\TX@ftntext\let\@xfootnotenext\TX@xftntext
24131  \let\@LTRfootnotetext\TX@LTRftntext\let\@xLTRfootnotenext\TX@xLTRftntext
24132  \let\@RTLfootnotetext\TX@RTLftntext\let\@xRTLfootnotenext\TX@xRTLftntext
24133  \csname tabular*\expandafter\endcsname\expandafter\TX@target
24134    \the\toks@
24135    \csname endtabular*\endcsname}%
24136 \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn
24137 \ifnum0={\fi}%
24138 \expandafter\expandafter\expandafter
24139 \TX@find@endtabularxbb
24140 \expandafter\end\expandafter{\TX@}%
24141 \endtabularx\TX@\endtabularx\TX@find@endtabularxb
24142 }
24143
24144 \def\TX@trial#1{%
24145   \setbox\@tempboxa\hbox{%
24146     #1\relax
24147     \let\@footnotetext\TX@trial@ftn
24148     \let\@LTRfootnotetext\TX@trial@ftn
24149     \let\@RTLfootnotetext\TX@trial@ftn
24150     \let\TX@vwarn\@empty
24151     \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
24152     \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
24153     \def\write{\begingroup
24154       \def\let{\afterassignment\endgroup\toks@}%
24155       \afterassignment\let\count@}%
24156     \hbadness\@M
24157     \hfuzz\maxdimen
24158     \let\hbadness\@tempcnta
24159     \let\hfuzz\@tempdima
24160     \expandafter\tabular\the\toks@
24161     \endtabular}%
24162   \TX@ckpt
24163   \TX@typeout@{\@spaces
24164     \expandafter\TX@align
24165     \the\wd\@tempboxa\space\space\space\space\space\@@
24166     \expandafter\TX@align
24167     \the\TX@col@width\space\space\space\space\space\@@
24168     \@spaces\the\TX@cols}}
24169
24170 \long\def\TX@LTRftntext#1{%
24171   \edef\@tempa{\the\TX@ftn\noexpand\LTRfootnotetext
24172     [\the\csname c@\@mpfn\endcsname]}%
24173   \global\TX@ftn\expandafter{\@tempa{#1}}}%
24174 \long\def\TX@xLTRftntext[#1]#2{%
24175   \global\TX@ftn\expandafter{\the\TX@ftn\LTRfootnotetext[#1]{#2}}}
24176
24177 \long\def\TX@RTLftntext#1{%
24178   \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext

```



```

24179             [\the\csname c@\@mpfn\endcsname]]}%
24180 \global\TX@ftn\expandafter{\@tempa{#1}}}%
24181 \long\def\TX@xRTLftntext[#1]#2{%
24182 \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}

```

## 150 File tabulary-xetex-bidi.def

```

24183 \ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package]
24184 \def\@testpach{\@chclass
24185 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
24186 \ifnum \@lastchclass=7 5 \else
24187 \ifnum \@lastchclass=8 \tw@ \else
24188 \ifnum \@lastchclass=9 \thr@@
24189 \else \z@
24190 \ifnum \@lastchclass = 10 \else
24191 \edef\@nextchar{\expandafter\string\@nextchar}%
24192 \@chnum
24193 \if \@nextchar c\z@ \else
24194 \if \@nextchar \ifRTLTAB r\else l\fi\@ne \else
24195 \if \@nextchar \ifRTLTAB l\else r\fi\@tw@ \else
24196 \if \@nextchar C7 \else
24197 \if \@nextchar L8 \else
24198 \if \@nextchar R9 \else
24199 \if \@nextchar J10 \else
24200 \z@ \@chclass
24201 \if\@nextchar |\@ne \else
24202 \if \@nextchar !6 \else
24203 \if \@nextchar @7 \else
24204 \if \@nextchar <8 \else
24205 \if \@nextchar >9 \else
24206 10
24207 \@chnum
24208 \if \@nextchar m\thr@@\else
24209 \if \@nextchar p4 \else
24210 \if \@nextchar b5 \else
24211 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
24212 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi

```

## 151 File tc-xetex-bidi.def

```

24213 \ProvidesFile{tc-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver for XeTeX]
24214 \def\@cliptoboxdim#1{%
24215 \setbox#1=\hbox{%
24216 \Gin@defaultbp\WIDTH{\wd#1}%
24217 \Gin@defaultbp\DEPTH{\dp#1}%
24218 \@tempdima\ht#1%
24219 \advance\@tempdima\dp#1%
24220 \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
24221 \beginL\special{pdf:bcontent }%
24222 \special{%
24223 pdf:literal direct
24224 0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
24225 }%
24226 \special{pdf:literal direct W }%

```



```

24227         \special{pdf:literal direct n }%
24228         \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
24229         \special{pdf:econtent }\endL%
24230     }%
24231 }

```

## 152 File tcolorbox-xetex-bidi.def

```

24232 \ProvidesFile{tcolorbox-xetex-bidi.def}[2018/11/11 v0.2 bidi adaptations for tcolorbox packag
24233 \let\endtcbox@lrbox=\endminipage
24234 \let\endtcbox@savebox=\endtcbox@lrbox
24235
24236 \bidi@patchcmd{\tcb@vbox}{%
24237     \let\@footnotetext\@mpfootnotetext%
24238 }{%
24239     \let\@footnotetext\@mpfootnotetext%
24240     \let\@LTRfootnotetext\@mpLTRfootnotetext%
24241     \let\@RTLfootnotetext\@mpRTLfootnotetext%
24242 }{}{}
24243
24244 \bidi@patchcmd{\endtcbox@vbox}{%
24245     \footnoterule%
24246 }{%
24247     \bidi@mpfootnoterule%
24248 }{}{}
24249 \bidi@apptocmd\tcb@icolorbox{%
24250     \@bidi@list@minipage@parboxfalse
24251 }{}{}

```

## 153 File titlesec-xetex-bidi.def

```

24252 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec packag
24253 \renewcommand\filright{%
24254     \gdef\ttl@filleft##1{\hskip##1}%
24255     \gdef\ttl@filright##1{\hfill}%
24256     \let\\\@centercr
24257     \advance\rightskip\z@ \@plus 1fil
24258     \parfillskip\z@}
24259 \def\ttlhang#1#2#3#4#5#6#7#8{%
24260     \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
24261     \setlength\leftskip{#6}%
24262     \setlength\rightskip{#7}%
24263     \interlinepenalty\@M
24264     \ttl@change@centercr
24265     \ttl@begin@longest
24266     #1{\ifhmode\ttl@hmode@error\fi
24267         \ttl@glcmds
24268         \parindent\z@
24269         \leavevmode
24270         \begin@group
24271         \ifttl@label
24272             \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
24273             \if@RTL\advance\rightskip\wd\z@\else\advance\leftskip\wd\z@\fi
24274             \llap{\box\z@}%

```



```

24275      \fi
24276      #4{#8}%
24277      \kern\z@\strut\@@par
24278      \endgroup
24279      \nobreak\ttl@midlongest#5\@@par}%
24280      \ttl@endlongest}

```

## 154 File titletoc-xetex-bidi.def

```

24281 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
24282 \renewcommand\filright{%
24283   \gdef\ttl@filleft##1{\hskip##1}%
24284   \gdef\ttl@filright##1{\hfill}%
24285   \let\\\@centercr
24286   \advance\rightskip\z@ \@plus 1fil
24287   \parfillskip\z@}
24288 \renewcommand\contentspush[1]{%
24289   \sbox\z@{#1}%
24290   \xdef\ttl@b{\advance\if@RTL\rightskip\else\leftskip\fi\the\wd\z@}%
24291   \aftergroup\ttl@b
24292   \leavevmode\llap{\box\z@}}
24293 \def\ttl@outnoblock#1#2#3{%
24294   \begingroup
24295   \ifnum\ttl@b>\ttl@a
24296     \nobreak
24297     \else\ifnum\ttl@b<\ttl@a
24298       \addpenalty{\@secpenalty}%
24299     \else
24300       \addpenalty{\z@}%
24301     \fi\fi
24302     \ttl@contentsstretch
24303     \nobreak
24304     \ifcase#1\relax\else\interlinepenalty\M\fi
24305     \parindent\z@
24306     \ifx\@nil#2%
24307       \PackageError{titletoc}{Unimplemented}%
24308       {The optional argument is currently mandatory}%
24309     \else
24310       \if@RTL\setlength\rightskip{#2}\else
24311         \setlength\leftskip{#2}\fi%
24312     \fi
24313     \if@RTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
24314     \let\contentsmargin\ttl@margin
24315     \def\ttl@makeline##1{##1}%
24316     #3%
24317     \addtolength{\parfillskip}{-\ttl@corr}%
24318     \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
24319     \let\ttl@leaders\leaders}
24320 \renewcommand\ttl@margin[2][\z@]{%
24321   \def\ttl@corr{#1}%
24322   \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
24323   \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
24324   \def\@pnumwidth{#2}}
24325 \let\ttl@savel@part\l@part

```





```

24326 \def\l@part{\ttl@lselect{part}}
24327
24328 \let\ttl@savel@chapter\l@chapter
24329 \def\l@chapter{\ttl@lselect{chapter}}

```

## 155 File tocbibind-xetex-bidi.def

```

24330 \ProvidesFile{tocbibind-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for tocbibind pack
24331 \if@dotocbib
24332 \ifpackageloaded{natbib}{-}{% natbib not loaded
24333 \renewcommand{\bibsection}{\tcb@bchapsec}
24334 \renewenvironment{thebibliography}[1]{%
24335 \bibsection
24336 \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}
24337 \renewenvironment{thebibitemlist}[1]{
24338 \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
24339 \bidi@thebibliography@font@hook%
24340 \list{\@biblabel{\@arabic\c@enumiv}}{%
24341 {\settowidth\labelwidth{\@biblabel{#1}}%
24342 \leftmargin\labelwidth
24343 \advance\leftmargin\labelsep
24344 \@openbib@code
24345 \usecounter{enumiv}%
24346 \let\p@enumiv\@empty
24347 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
24348 \sloppy
24349 \clubpenalty4000
24350 \@clubpenalty \clubpenalty
24351 \widowpenalty4000%
24352 \sfcode`\.\@m}
24353 {\def\@noitemerr
24354 {\@latex@warning{Empty `thebibliography' environment}}%
24355 \endlist}
24356
24357 \ifpackagewith{chapterbib}{sectionbib}%
24358 {\renewcommand{\sectionbib}[2]{}}%
24359 {}
24360
24361 \fi
24362 \if@inltxdoc\else
24363 \renewenvironment{theindex}%
24364 {\if@twocolumn
24365 \@restonecolfalse
24366 \else
24367 \@restonecoltrue
24368 \fi
24369 \if@bibchapter
24370 \if@donumindex
24371 \refstepcounter{chapter}
24372 \twocolumn[\vspace*{2\topskip}%
24373 \@makechapterhead{\indexname}}%
24374 \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
24375 \chaptermark{\indexname}
24376 \else

```



```

24377         \if@dotocind
24378             \twocolumn[\vspace*{2\topskip}%
24379                 \@makeschapterhead{\indexname}]]%
24380             \prw@mkboth{\indexname}
24381             \addcontentsline{toc}{chapter}{\indexname}
24382         \else
24383             \twocolumn[\vspace*{2\topskip}%
24384                 \@makeschapterhead{\indexname}]]%
24385             \prw@mkboth{\indexname}
24386         \fi
24387     \fi
24388 \else
24389     \if@donumindex
24390         \twocolumn[\vspace*{-1.5\topskip}%
24391             \@nameuse{\@tocextra}{\indexname}]]%
24392         \csname \@tocextra mark\endcsname{\indexname}
24393     \else
24394         \if@dotocind
24395             \twocolumn[\vspace*{-1.5\topskip}%
24396                 \toc@headstar{\@tocextra}{\indexname}]]%
24397             \prw@mkboth{\indexname}
24398             \addcontentsline{toc}{\@tocextra}{\indexname}
24399         \else
24400             \twocolumn[\vspace*{-1.5\topskip}%
24401                 \toc@headstar{\@tocextra}{\indexname}]]%
24402             \prw@mkboth{\indexname}
24403         \fi
24404     \fi
24405     \fi
24406     \thispagestyle{plain}\parindent\z@
24407     \parskip\z@ \@plus .3\p@\relax
24408     \let\item\@idxitem}
24409     {\if@restonecol\onecolumn\else\clearpage\fi}
24410 \fi

```

## 156 File tocloft-xetex-bidi.def

```

24411 \ProvidesFile{tocloft-xetex-bidi.def}[2023/08/02 v0.3 bidi adaptations for tocloft package]
24412 \renewcommand{\cftpnumalign}{\if@RTL l\else r\fi}
24413 \let\cftdot\@SepMark
24414 \if@cfthaspart
24415 \renewcommand*{\l@part}[2]{
24416     \@cftdopartfalse
24417     \ifnum \c@tocdepth >-2\relax
24418         \if@cfthaschapter
24419             \@cftdoparttrue
24420         \fi
24421         \ifnum \c@tocdepth >\m@ne
24422             \if@cfthaschapter\else
24423                 \@cftdoparttrue
24424             \fi
24425         \fi
24426     \fi
24427     \if@cftdopart

```



```

24428 \if@cfthaschapter
24429 \addpenalty{-\@highpenalty}
24430 \else
24431 \addpenalty\@secpenalty
24432 \fi
24433 \addvspace{\cftbeforepartskip}
24434 \begingroup
24435 {\if@RTL\righskip\else\leftskip\fi \cftpartindent\relax
24436 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24437 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24438 \parindent \cftpartindent\relax\@afterindenttrue
24439 \interlinepenalty\@M
24440 \leavevmode
24441 \@tempdima \cftpartnumwidth\relax
24442 \let\@cftbsnum \cftpartpresnum
24443 \let\@cftasnum \cftpartaftersnum
24444 \let\@cftasnumb \cftpartaftersnumb
24445 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righskip\else\leftskip\fi
24446 {\cftpartfont \cftpartpresnum #1}
24447 \cftpartfillnum{#2}}
24448 \nobreak
24449 \if@cfthaschapter
24450 \global\@nobreaktrue
24451 \everypar{\global\@nobreakfalse\everypar{}}
24452 \else
24453 \if@compatibility
24454 \global\@nobreaktrue
24455 \everypar{\global\@nobreakfalse\everypar{}}
24456 \fi
24457 \fi
24458 \endgroup
24459 \fi}
24460 \fi
24461 \if@cfthaschapter
24462 \renewcommand*{\l@chapter}[2]{
24463 \ifnum \c@tocdepth >\m@ne
24464 \addpenalty{-\@highpenalty}
24465 \vskip \cftbeforechapskip
24466 {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
24467 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24468 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24469 \parindent \cftchapindent\relax\@afterindenttrue
24470 \interlinepenalty\@M
24471 \leavevmode
24472 \@tempdima \cftchapnumwidth\relax
24473 \let\@cftbsnum \cftchappresnum
24474 \let\@cftasnum \cftchapaftersnum
24475 \let\@cftasnumb \cftchapaftersnumb
24476 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righskip\else\leftskip\fi
24477 {\cftchapfont #1}\nobreak
24478 \cftchapfillnum{#2}}
24479 \fi}
24480 \fi
24481 \renewcommand*{\l@section}[2]{\%

```



```

24482 \ifnum \c@tocdepth >\z@
24483 \if@cfthaschapter
24484 \vskip \cftbeforesecskip
24485 \else
24486 \addpenalty\@secpenalty
24487 \addvspace{\cftbeforesecskip}
24488 \fi
24489 {\if@RTL\righskip\else\leftskip\fi \cftsecindent\relax
24490 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24491 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24492 \parindent \cftsecindent\relax\@afterindenttrue
24493 \interlinepenalty\@M
24494 \leavevmode
24495 \@tempdima \cftsecnumwidth\relax
24496 \let\@cftbsnum \cftsecpresnum
24497 \let\@cftasnum \cftsecaftersnum
24498 \let\@cftasnumb \cftsecaftersnumb
24499 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24500 {\cftsecfont #1}\nobreak
24501 \cftsecfillnum{#2}}
24502 \fi}
24503 \renewcommand*{\l@section}[2]{%
24504 \ifnum \c@tocdepth >\@ne
24505 \vskip \cftbeforesubsecskip
24506 {\if@RTL\righskip\else\leftskip\fi \cftsubsecindent\relax
24507 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24508 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24509 \parindent \cftsubsecindent\relax\@afterindenttrue
24510 \interlinepenalty\@M
24511 \leavevmode
24512 \@tempdima \cftsubsecnumwidth\relax
24513 \let\@cftbsnum \cftsubsecpresnum
24514 \let\@cftasnum \cftsubsecaftersnum
24515 \let\@cftasnumb \cftsubsecaftersnumb
24516 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24517 {\cftsubsecfont #1}\nobreak
24518 \cftsubsecfillnum{#2}}
24519 \fi}
24520 \renewcommand*{\l@subsubsection}[2]{%
24521 \ifnum \c@tocdepth >\tw@
24522 \vskip \cftbeforesubsubsecskip
24523 {\if@RTL\righskip\else\leftskip\fi \cftsubsubsecindent\relax
24524 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24525 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24526 \parindent \cftsubsubsecindent\relax\@afterindenttrue
24527 \interlinepenalty\@M
24528 \leavevmode
24529 \@tempdima \cftsubsubsecnumwidth\relax
24530 \let\@cftbsnum \cftsubsubsecpresnum
24531 \let\@cftasnum \cftsubsubsecaftersnum
24532 \let\@cftasnumb \cftsubsubsecaftersnumb
24533 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24534 {\cftsubsubsecfont #1}\nobreak
24535 \cftsubsubsecfillnum{#2}}

```



```

24536 \fi}
24537 \renewcommand*{\l@paragraph}[2]{%
24538 \ifnum \c@tocdepth >3\relax
24539 \vskip \cftbeforeparaskip
24540 {\if@RTL\righskip\else\leftskip\fi \cftparaindent\relax
24541 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24542 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24543 \parindent \cftparaindent\relax\@afterindenttrue
24544 \interlinepenalty\@M
24545 \leavevmode
24546 \@tempdima \cftparanumwidth\relax
24547 \let\@cftbsnum \cftparapresnum
24548 \let\@cftasnum \cftparaaftersnum
24549 \let\@cftasnumb \cftparaaftersnumb
24550 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24551 {\cftparafont #1}\nobreak
24552 \cftparafillnum{#2}}
24553 \fi}
24554 \renewcommand*{\l@subparagraph}[2]{%
24555 \ifnum \c@tocdepth >4\relax
24556 \vskip \cftbeforesubparaskip
24557 {\if@RTL\righskip\else\leftskip\fi \cftsubparaindent\relax
24558 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24559 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24560 \parindent \cftsubparaindent\relax\@afterindenttrue
24561 \interlinepenalty\@M
24562 \leavevmode
24563 \@tempdima \cftsubparanumwidth\relax
24564 \let\@cftbsnum \cftsubparapresnum
24565 \let\@cftasnum \cftsubparaaftersnum
24566 \let\@cftasnumb \cftsubparaaftersnumb
24567 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24568 {\cftsubparafont #1}\nobreak
24569 \cftsubparafillnum{#2}}
24570 \fi}
24571 \renewcommand*{\l@figure}[2]{%
24572 \ifnum \c@lofdepth >\z@
24573 \vskip \cftbeforefigskip
24574 {\if@RTL\righskip\else\leftskip\fi \cftfigindent\relax
24575 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24576 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24577 \parindent \cftfigindent\relax\@afterindenttrue
24578 \interlinepenalty\@M
24579 \leavevmode
24580 \@tempdima \cftfignumwidth\relax
24581 \let\@cftbsnum \cftfigpresnum
24582 \let\@cftasnum \cftfigaftersnum
24583 \let\@cftasnumb \cftfigaftersnumb
24584 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24585 {\cftfigfont #1}\nobreak
24586 \cftfigfillnum{#2}}
24587 \fi
24588 }
24589 \renewcommand*{\l@table}[2]{%

```



```

24590 \ifnum\c@lotdepth >\z@
24591 \vskip \cftbeforetabskip
24592 {\if@RTL\righskip\else\leftskip\fi \cfttabindent\relax
24593 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24594 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24595 \parindent \cfttabindent\relax\@afterindenttrue
24596 \interlinepenalty\@M
24597 \leavevmode
24598 \@tempdima \cfttabnumwidth\relax
24599 \let\@cftbsnum \cfttabpresnum
24600 \let\@cftasnum \cfttabaftersnum
24601 \let\@cftasnumb \cfttabaftersnumb
24602 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24603 {\cfttabfont #1}\nobreak
24604 \cfttabfillnum{#2}}
24605 \fi
24606 }
24607 \renewcommand{\@cftl@subfig}{
24608 \renewcommand*{\l@subfigure}[2]{%
24609 \ifnum \c@lofdepth > \toclevel@subfigure
24610 \vskip \cftbeforesubfigskip
24611 {\if@RTL\righskip\else\leftskip\fi \cftsubfigindent\relax
24612 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24613 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24614 \parindent \cftsubfigindent\relax\@afterindenttrue
24615 \interlinepenalty\@M
24616 \leavevmode
24617 \@tempdima \cftsubfignumwidth\relax
24618 \let\@cftbsnum \cftsubfigpresnum
24619 \let\@cftasnum \cftsubfigaftersnum
24620 \let\@cftasnumb \cftsubfigaftersnumb
24621 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24622 {\cftsubfigfont ##1}\nobreak
24623 \cftsubfigfillnum{##2}}
24624 \fi
24625 }
24626 }
24627 \renewcommand{\@cftl@subtab}{
24628 \renewcommand*{\l@subtable}[2]{%
24629 \ifnum \c@lotdepth > \toclevel@subtable
24630 \vskip \cftbeforesubtabskip
24631 {\if@RTL\righskip\else\leftskip\fi \cftsubtabindent\relax
24632 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24633 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24634 \parindent \cftsubtabindent\relax\@afterindenttrue
24635 \interlinepenalty\@M
24636 \leavevmode
24637 \@tempdima \cftsubtabnumwidth\relax
24638 \let\@cftbsnum \cftsubtabpresnum
24639 \let\@cftasnum \cftsubtabaftersnum
24640 \let\@cftasnumb \cftsubtabaftersnumb
24641 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24642 {\cftsubtabfont ##1}\nobreak
24643 \cftsubtabfillnum{##2}}

```



```

24644 \fi
24645 }
24646 }
24647 \renewcommand{\newlistentry}[4][\@empty]{%
24648 \ifundefined{c@#2}{% check & set the counter
24649 \ifx \@empty#1\relax
24650 \newcounter{#2}
24651 \else
24652 \ifundefined{c@#1}{\PackageWarning{tocloft}%
24653 {#1 has no counter for use as a `within'}
24654 \newcounter{#2}}%
24655 {\newcounter{#2}[#1]%
24656 \expandafter\edef\csname the#2\endcsname{%
24657 \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}
24658 \fi
24659 \setcounter{#2}{0}
24660 }
24661 {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
24662
24663 \@namedef{l@#2}##1##2{%
24664 \ifnum \@nameuse{c@#3depth} > #4\relax
24665 \vskip \@nameuse{cftbefore#2skip}
24666 {\if@RTL\righskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
24667 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24668 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24669 \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
24670 \interlinepenalty\@M
24671 \leavevmode
24672 \@tempdima \@nameuse{cft#2numwidth}\relax
24673 \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
24674 \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
24675 \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
24676 \advance\if@RTL\righskip\else\leftskip\fi\@tempdima \null\nobreak\hskip -\if@RTL\ri
24677 {\@nameuse{cft#2font}##1}\nobreak
24678 \@nameuse{cft#2fillnum}{##2}}
24679 \fi
24680 } % end of l@#2
24681
24682 \expandafter\newlength\csname cftbefore#2skip\endcsname
24683 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2\p@}
24684 \expandafter\newlength\csname cft#2indent\endcsname
24685 \expandafter\newlength\csname cft#2numwidth\endcsname
24686 \ifcase #4\relax % 0
24687 \setlength{\@nameuse{cft#2indent}}{0em}
24688 \setlength{\@nameuse{cft#2numwidth}}{1.5em}
24689 \or % 1
24690 \setlength{\@nameuse{cft#2indent}}{1.5em}
24691 \setlength{\@nameuse{cft#2numwidth}}{2.3em}
24692 \or % 2
24693 \setlength{\@nameuse{cft#2indent}}{3.8em}
24694 \setlength{\@nameuse{cft#2numwidth}}{3.2em}
24695 \or % 3
24696 \setlength{\@nameuse{cft#2indent}}{7.0em}
24697 \setlength{\@nameuse{cft#2numwidth}}{4.1em}

```



```

24698 \else % anything else
24699 \setlength{\@nameuse{cft#2indent}}{10.0em}
24700 \setlength{\@nameuse{cft#2numwidth}}{5.0em}
24701 \fi
24702 \@namedef{cft#2font}{\normalfont}
24703 \@namedef{cft#2presnum}{\}
24704 \@namedef{cft#2aftersnum}{\}
24705 \@namedef{cft#2aftersnumb}{\}
24706 \@namedef{cft#2dotsep}{\cftdotsep}
24707 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
24708 \@namedef{cft#2pagefont}{\normalfont}
24709 \@namedef{cft#2afterpnum}{\}
24710 \@namedef{toclevel@#2}{#4}
24711 \@namedef{cft#2fillnum}##1{%
24712 {\@nameuse{cft#2leader}}\nobreak
24713 \hb@xt@\@pnumwidth{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
24714 } % end \newlistentry
24715 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
24716 {\if@RTL\rightskip\else\leftskip\fi \cftchapindent\relax
24717 \advance\if@RTL\rightskip\else\leftskip\fi \cftchapnumwidth\relax
24718 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg\relax
24719 \textit{#1}\protect\par}}

```

## 157 File tocbasic-xetex-bidi.def

```

24720 \ProvidesFile{tocbasic-xetex-bidi.def}[2022/06/15 v0.5 bidi adaptations for tocbasic package]
24721 \bidi@undef\scr@dte@def@l@undottedtoctline
24722 \bidi@undef\scr@dte@undottedtoctline@init
24723 \DeclareTOCEntryStyle{undottedtoctline}{\%
24724 \DefineTOCEntryLengthOption{indent}%
24725 {\scr@tso@}{@indent}{entry indent}%
24726 \DefineTOCEntryLengthOption{numwidth}%
24727 {\scr@tso@}{@numwidth}{entry number width}%
24728 \@ifundefined{#1tocdepth}{\%
24729 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{\%
24730 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{\%
24731 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{\%
24732 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{\%
24733 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{\%
24734 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{\%
24735 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{\%
24736 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{\%
24737 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{\%
24738 \expandafter\let\csname #1tocdepth\expandafter\endcsname
24739 \csname #1numdepth\endcsname
24740 }%
24741 }%
24742 }%
24743 }%
24744 }%
24745 }%
24746 }%
24747 }%
24748 }%

```





```

24749 }{}%
24750 \@ifundefined{scr@tso@#1@indent}{%
24751   \@ifundefined{scr@#1@tocindent}{%
24752     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24753       \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24754         \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
24755           \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
24756             \scr@ifundefinedorrelax{1@chapter}{%
24757               \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
24758                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24759                   \Ifstr{#1}{subsubsection}{%
24760                     \@namedef{scr@tso@#1@indent}{3.8em}%
24761                   }{%
24762                     \Ifstr{#1}{paragraph}{%
24763                       \@namedef{scr@tso@#1@indent}{7em}%
24764                     }{%
24765                       \Ifstr{#1}{subparagraph}{%
24766                         \@namedef{scr@tso@#1@indent}{10em}%
24767                       }{%
24768                         }%
24769                       }%
24770                     }%
24771                   }%
24772                 }%
24773               }{%
24774                 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24775                   \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
24776                     \Ifstr{#1}{subsubsection}{%
24777                       \@namedef{scr@tso@#1@indent}{7.0em}%
24778                     }{%
24779                       \Ifstr{#1}{paragraph}{%
24780                         \@namedef{scr@tso@#1@indent}{10em}%
24781                       }{%
24782                         \Ifstr{#1}{subparagraph}{%
24783                           \@namedef{scr@tso@#1@indent}{12em}%
24784                         }{%
24785                           }%
24786                         }%
24787                       }%
24788                     }%
24789                   }%
24790                 }%
24791               }%
24792             }%
24793           }%
24794         }%
24795       }{%
24796         \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24797       }%
24798     }{}%
24799   \@ifundefined{scr@tso@#1@numwidth}{%
24800     \@ifundefined{scr@#1@tocnumwidth}{%
24801       \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24802         \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%

```



```

24803 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
24804 \scr@ifundefinedorrelax{chapter}{%
24805 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
24806 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24807 \Ifstr{#1}{subsubsection}{%
24808 \@namedef{scr@tso@#1@numwidth}{3.2em}%
24809 }{%
24810 \Ifstr{#1}{paragraph}{%
24811 \@namedef{scr@tso@#1@numwidth}{4.1em}%
24812 }{%
24813 \Ifstr{#1}{subparagraph}{%
24814 \@namedef{scr@tso@#1@numwidth}{5em}%
24815 }{%
24816 }%
24817 }%
24818 }%
24819 }%
24820 }%
24821 }{%
24822 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24823 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
24824 \Ifstr{#1}{subsubsection}{%
24825 \@namedef{scr@tso@#1@numwidth}{3.1em}%
24826 }{%
24827 \Ifstr{#1}{paragraph}{%
24828 \@namedef{scr@tso@#1@numwidth}{5em}%
24829 }{%
24830 \Ifstr{#1}{subparagraph}{%
24831 \@namedef{scr@tso@#1@numwidth}{6em}%
24832 }{%
24833 }%
24834 }%
24835 }%
24836 }%
24837 }%
24838 }%
24839 }%
24840 }%
24841 }%
24842 }{%
24843 \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
24844 }%
24845 }{%
24846 }]{%
24847 \ifnum \c@tocdepth > \numexpr \@nameuse{#1tocdepth} - \@ne \relax
24848 \ifnum \@nameuse{#1tocdepth} < \@ne
24849 \scr@ifundefinedorrelax{chapter}{%
24850 \addpenalty\@secpenalty
24851 \addvspace{1.0em \@plus\p}%
24852 }{%
24853 \addpenalty{-\@highpenalty}%
24854 \vskip 1.0em \@plus\p@
24855 }%
24856 \else

```



```

24857 \addpenalty\@secpenalty
24858 \addvspace{1.0em \@plus\p@}%
24859 \fi
24860 \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
24861 \beginingroup
24862 \parindent \z@ \bidi@rightskip \@pnumwidth
24863 \parfillskip -\@pnumwidth
24864 \leavevmode
24865 \bfseries
24866 \advance\bidi@leftskip\@tempdima
24867 \Iftofeature{\@currxt}{noindent}{%
24868 \hskip -\bidi@leftskip
24869 }{%
24870 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}}%
24871 \hskip -\dimexpr \bidi@leftskip-\@nameuse{scr@tso@#1@indent}\relax
24872 }%
24873 ##1%
24874 \nobreak
24875 \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
24876 \par
24877 \penalty\@highpenalty
24878 \endgroup
24879 \fi
24880 }
24881
24882 \bidi@undef\scr@dte@def@l@largetocline
24883 \bidi@undef\scr@dte@largetocline@init
24884 \DeclareTOCEntryStyle{largetocline}[{%
24885 \DefineTOCEntryLengthOption{indent}%
24886 {scr@tso@}{@indent}{entry indent}%
24887 \@ifundefined{#1tocdepth}{%
24888 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24889 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24890 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24891 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24892 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24893 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24894 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24895 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24896 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24897 \expandafter\let\csname #1tocdepth\expandafter\endcsname
24898 \csname #1numdepth\endcsname
24899 }%
24900 }%
24901 }%
24902 }%
24903 }%
24904 }%
24905 }%
24906 }%
24907 }%
24908 }{}%
24909 \@ifundefined{scr@tso@#1@indent}{%
24910 \@ifundefined{scr@#1@tocindent}{%

```



```

24911 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24912 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24913 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
24914 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
24915 \scr@ifundefinedorrelax{1@chapter}{%
24916 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
24917 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24918 \Ifstr{#1}{subsubsection}{%
24919 \@namedef{scr@tso@#1@indent}{3.8em}%
24920 }{%
24921 \Ifstr{#1}{paragraph}{%
24922 \@namedef{scr@tso@#1@indent}{7em}%
24923 }{%
24924 \Ifstr{#1}{subparagraph}{%
24925 \@namedef{scr@tso@#1@indent}{10em}%
24926 }{%
24927 }%
24928 }%
24929 }%
24930 }%
24931 }%
24932 }{%
24933 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24934 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
24935 \Ifstr{#1}{subsubsection}{%
24936 \@namedef{scr@tso@#1@indent}{7.0em}%
24937 }{%
24938 \Ifstr{#1}{paragraph}{%
24939 \@namedef{scr@tso@#1@indent}{10em}%
24940 }{%
24941 \Ifstr{#1}{subparagraph}{%
24942 \@namedef{scr@tso@#1@indent}{12em}%
24943 }{%
24944 }%
24945 }%
24946 }%
24947 }%
24948 }%
24949 }%
24950 }%
24951 }%
24952 }%
24953 }%
24954 }{%
24955 \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}}%
24956 }%
24957 }{}%
24958 }]{%
24959 \ifnum \c@tocdepth > \numexpr \@nameuse{#1tocdepth} - \@ne \relax
24960 \ifnum \@nameuse{#1tocdepth} < \@ne
24961 \scr@ifundefinedorrelax{chapter}{%
24962 \addpenalty\@secpenalty
24963 \addvspace{2.25em \@plus\p@}%
24964 }{%

```



```

24965         \addpenalty{-\@highpenalty}%
24966         \addvspace{2.25em \@plus\p@}%
24967     }%
24968 \else
24969     \addpenalty\@secpenalty
24970     \addvspace{2.25em \@plus\p@}%
24971 \fi
24972 \setlength\@tempdima{3em}%
24973 \begingroup
24974     \parindent \z@ \bidi@rightskip \@pnumwidth
24975     \parfillskip -\@pnumwidth
24976     \leavevmode
24977     \large
24978     \bfseries
24979     \iftocfeature{\@currentt}{noindent}{%
24980 }{%
24981     \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
24982 }%
24983 ##1%
24984 \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
24985 \par
24986 \nobreak
24987 \ifnum 0=
24988     \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
24989     \global\@nobreaktrue
24990     \everypar{\global\@nobreakfalse\everypar{}}%
24991 \fi
24992 \endgroup
24993 \fi
24994 }
24995
24996 \renewcommand*{\scr@dte@tocline}[3]{%
24997     \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
24998     \else
24999         \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
25000         \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax
25001         \@nameuse{Ifscr@tso@#1@dynindent}{%
25002             \expandafter\ifx\csname scr@tso@#1@indentfollows\endcsname\@empty
25003             \PackageWarning{tocbasic}{`dynindent' for `#1' not available}%
25004         \else
25005             \edef\reserved@a{\@nameuse{scr@tso@#1@indentfollows}}%
25006             \@for \reserved@a:=\reserved@a\do {%
25007                 \scr@trim@spaces\reserved@a
25008                 \ifx\reserved@a\@empty\else
25009                     \scr@ifundefinedorrelax{\reserved@a tocdepth}{%
25010 }{%
25011                     \ifnum \@nameuse{\reserved@a tocdepth}<\@nameuse{#1tocdepth}%
25012                         \@tempdima\@nameuse{scr@tso@\reserved@a @indent}\relax
25013                         \@nameuse{Ifscr@tso@\reserved@a @dynnumwidth}{%
25014                             \scr@ifundefinedorrelax
25015                             {scr@dte@\reserved@a @lastmaxnumwidth}{%
25016                                 \advance\@tempdima
25017                                 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
25018                             }{%

```



```

25019         \advance\@tempdima
25020         \@nameuse{scr@dte@\reserved@a @lastmaxnumwidth}\relax
25021     }%
25022 }{%
25023     \advance\@tempdima
25024     \@nameuse{scr@tso@\reserved@a @numwidth}\relax
25025 }%
25026 \ifdim \@tempdima>\@nameuse{scr@tso@#1@indent}\relax
25027     \expandafter\edef\csname scr@tso@#1@indent\endcsname
25028     {\the\@tempdima}%
25029 \fi
25030 \fi
25031 }%
25032 \fi
25033 }%
25034 \fi
25035 }{}%
25036 {%
25037     \Iftocfeature{\@currentt}{noindent}{%
25038         \bidi@leftskip \z@
25039     }{%
25040         \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
25041     }%
25042     \bidi@rightskip \@nameuse{scr@tso@#1@rightindent}\relax
25043     \parfillskip -\bidi@rightskip
25044     \@nameuse{Ifscr@tso@#1@raggedpage}{%
25045         \addtolength{\parfillskip}{\z@ \@plus 1fil}%
25046     }{}%
25047     \Iftocfeature{\@currentt}{noindent}{%
25048         \parindent \z@
25049     }{%
25050         \parindent \@nameuse{scr@tso@#1@indent}\relax
25051     }%
25052     \@afterindenttrue
25053     \interlinepenalty\@M
25054     \expandafter\ifx\csname ragged#1entry\endcsname\raggedright
25055         \addtolength\bidi@rightskip\@flushglue
25056     \else
25057         \def\reserved@a{\raggedright}%
25058         \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
25059             \addtolength\bidi@rightskip\@flushglue
25060         \else
25061             \renewcommand\reserved@a{\raggedright}%
25062             \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
25063                 \addtolength\bidi@rightskip\@flushglue
25064             \fi
25065         \fi
25066     \fi
25067     \leavevmode
25068     \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
25069     \@nameuse{Ifscr@tso@#1@dynnumwidth}{%
25070         \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{}%
25071         \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
25072             \@tempdima\@nameuse{scr@dte@#1@lastmaxnumwidth}\relax

```



```

25073         \fi
25074     }%
25075 }-%
25076 \advance\bidileftskip \@tempdima
25077 \null\nobreak\hskip -\bidileftskip
25078 {%
25079     \usetocbasicnumberline
25080     \let\scr@dte@numberline@box\numberline@box
25081     \def\numberline@box##1{%
25082         \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}}{##1}}%
25083     \global\scr@dte@tocline@numberwidth
25084     \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
25085     \relax
25086     \ifdim \scr@dte@tocline@numberwidth
25087         >\@nameuse{scr@dte@#1@maxnumwidth}\relax
25088         \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
25089     \fi
25090     \@nameuse{Ifscr@tso@#1@dynnumwidth}{-}{-%
25091         \ifdim \scr@dte@tocline@numberwidth
25092             >\dimexpr \@nameuse{scr@tso@#1@numwidth}%
25093             +\@nameuse{scr@tso@#1@numsep}\relax\relax
25094         \PackageWarning{tocbasic}{%
25095             number width of #1 toc entries should be
25096             increased!\MessageBreak
25097             Currently used number width =
25098             \the\wd\scr@dte@tocline@numbox,\MessageBreak
25099             Wanted number separation
25100             \space\space\space =
25101             \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
25102             Reserved number width \space\space\space\space\space\space =
25103             \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
25104         }%
25105     \fi
25106 }%
25107 \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}}{##1}}%
25108 \@nameuse{Ifscr@tso@#1@breakafternumber}{-%
25109     {\parfillskip\@flushglue\par}\nobreak\hskip-\bidileftskip
25110 }-%
25111 }%
25112 {\@nameuse{scr@tso@#1@entryformat}}{-%
25113     #2%
25114     \nobreak
25115     {%
25116         \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}}%
25117     \nobreak
25118     \expandafter\let\expandafter\scr@dte@pagenumberwidth
25119     \csname scr@tso@#1@pagenumberwidth\endcsname
25120     \@nameuse{scr@tso@#1@pagenumberbox}{-%
25121         \@nameuse{scr@tso@#1@pagenumberformat}}{#3}%
25122     }%
25123 }%
25124 }}\@par
25125 }%
25126 }%

```



```

25127 \tocbasic@SetPenaltyByTOCLevel{#1}%
25128 \fi
25129 }
25130
25131
25132 \bidi@undef\scr@dte@def@l@tocline
25133 \bidi@undef\scr@dte@tocline@init
25134 \DeclareTOCEntryStyle{tocline}[{%
25135 \DefineTOCEntryLengthOption{beforeskip}%
25136 {scr@tso@}{@beforeskip}{vertical skip before the entry}%
25137 \DefineTOCEntryIfOption{breakafternumber}%
25138 {scr@tso@}{@breakafternumber}{line break after number flag}%
25139 \DefineTOCEntryIfOption{dynnumwidth}%
25140 {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
25141 \DefineTOCEntryListOption{indentfollows}%
25142 {scr@tso@}{@indentfollows}{list of levels that define the indent}%
25143 \DefineTOCEntryIfOption{dynindent}%
25144 {scr@tso@}{@dynindent}{dynamic indent width flag}%
25145 \DefineTOCEntryCommandOption{entryformat}%
25146 {scr@tso@}{@entryformat}[1]{entry format}%
25147 \DefineTOCEntryCommandOption{entrynumberformat}%
25148 {scr@tso@}{@numberformat}[1]{entry number format}%
25149 \DefineTOCEntryCommandOption{linefill}[\TOCLineLeaderFill]%
25150 {scr@tso@}{@linefill}{filling between text and page number}%
25151 \DefineTOCEntryLengthOption{numsep}%
25152 {scr@tso@}{@numsep}{entry number separation}%
25153 \DefineTOCEntryCommandOption{onstarthigherlevel}%
25154 {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
25155 \DefineTOCEntryCommandOption{onstartlowerlevel}%
25156 {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%
25157 \DefineTOCEntryCommandOption{onstartsamelevel}%
25158 {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
25159 \DefineTOCEntryCommandOption{pagenumberbox}%
25160 {scr@tso@}{@pagenumberbox}[1]{page number box}%
25161 \DefineTOCEntryCommandOption{pagenumberformat}%
25162 {scr@tso@}{@pagenumberformat}[1]{page number format}%
25163 \DefineTOCEntryLengthOption{pagenumberwidth}%
25164 {scr@tso@}{@pagenumberwidth}{width of page number box}%
25165 \DefineTOCEntryLengthOption{rightindent}%
25166 {scr@tso@}{@rightindent}{entry's text right indent}%
25167 \DefineTOCEntryOption{raggedentrytext}[true]{%
25168 \FamilySetBool{KOMAAarg}{raggedentrytext}{@tempswa}{##1}%
25169 \ifx\FamilyKeyState\FamilyKeyStateProcessed
25170 \if@tempswa
25171 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
25172 \raggedright
25173 \else
25174 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
25175 \relax
25176 \fi
25177 \fi
25178 }%
25179 \DefineTOCEntryIfOption{raggedpagenumber}%
25180 {scr@tso@}{@raggedpage}{page number ragged flag}%

```





```

25181 \DefineTOCEntryLengthOption{indent}%
25182 {scr@tso@}{@indent}{entry indent}%
25183 \DefineTOCEntryLengthOption{numwidth}%
25184 {scr@tso@}{@numwidth}{entry number width}%
25185 \scr@ifundefinedorrelax{#1tocdepth}{%
25186 \Ifstrstart{#1}{sub}{%
25187 \scr@ifundefinedorrelax{scr@dte@nosub{#1}tocdepth}{%
25188 \expandafter\edef\csname #1tocdepth\endcsname{%
25189 \the\numexpr \noexpand\@nameuse{scr@dte@nosub{#1}tocdepth}+\@ne\relax
25190 }%
25191 }%
25192 }{}%
25193 }{}%
25194 \@ifundefined{#1tocdepth}{%
25195 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
25196 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
25197 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
25198 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
25199 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
25200 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
25201 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
25202 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
25203 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
25204 \expandafter\let\csname #1tocdepth\expandafter\endcsname
25205 \csname #1numdepth\endcsname
25206 }%
25207 }%
25208 }%
25209 }%
25210 }%
25211 }%
25212 }%
25213 }%
25214 }%
25215 }{}%
25216 \scr@ifundefinedorrelax{scr@tso@#1@indent}{%
25217 \@ifundefined{scr@#1@tocindent}{%
25218 \Ifstrstart{#1}{sub}{%
25219 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
25220 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
25221 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
25222 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
25223 \relax
25224 }%
25225 }%
25226 }{}%
25227 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
25228 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
25229 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}%
25230 \relax
25231 }%
25232 }{}%
25233 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
25234 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}%

```



```

25235                                     +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
25236                                 \relax
25237                             }%
25238                         }%
25239                     }%
25240                 }{}%
25241             }{%
25242         \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
25243     }%
25244 }{}%
25245 \scr@ifundefinedorrelax{scr@tso@#1@pagenumberwidth}{%
25246     \Ifstrstart{#1}{sub}{%
25247         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@pagenumberwidth}{%
25248             \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
25249         }{%
25250             \expandafter\let
25251             \csname scr@tso@#1@pagenumberwidth\expandafter\endcsname
25252             \csname scr@tso@\scr@dte@nosub{#1}@pagenumberwidth\endcsname
25253         }%
25254     }{%
25255         \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
25256     }%
25257 }{}%
25258 \scr@ifundefinedorrelax{scr@tso@#1@rightindent}{%
25259     \Ifstrstart{#1}{sub}{%
25260         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@rightindent}{%
25261             \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
25262         }{%
25263             \expandafter\let
25264             \csname scr@tso@#1@rightindent\expandafter\endcsname
25265             \csname scr@tso@\scr@dte@nosub{#1}@rightindent\endcsname
25266         }%
25267     }{%
25268         \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
25269     }%
25270 }{}%
25271 \@ifundefined{scr@tso@#1@indent}{%
25272     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25273         \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25274             \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
25275                 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
25276                     \scr@ifundefinedorrelax{l@chapter}{%
25277                         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
25278                             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25279                                 \Ifstr{#1}{subsubsection}{%
25280                                     \@namedef{scr@tso@#1@indent}{3.8em}%
25281                                 }{%
25282                                     \Ifstr{#1}{paragraph}{%
25283                                         \@namedef{scr@tso@#1@indent}{7em}%
25284                                     }{%
25285                                         \Ifstr{#1}{subparagraph}{%
25286                                             \@namedef{scr@tso@#1@indent}{10em}%
25287                                         }{%
25288                                             }%

```



```

25289         }%
25290     }%
25291 }%
25292 }%
25293 }{%
25294     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25295         \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
25296             \Ifstr{#1}{subsubsection}{%
25297                 \@namedef{scr@tso@#1@indent}{7.0em}%
25298             }{%
25299                 \Ifstr{#1}{paragraph}{%
25300                     \@namedef{scr@tso@#1@indent}{10em}%
25301                 }{%
25302                     \Ifstr{#1}{subparagraph}{%
25303                         \@namedef{scr@tso@#1@indent}{12em}%
25304                     }{%
25305                         }%
25306                     }%
25307                 }%
25308             }%
25309         }%
25310     }%
25311 }%
25312 }%
25313 }%
25314 }%
25315 }{%}%
25316 \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
25317     \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
25318         \Ifstrstart{#1}{sub}{%
25319             \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
25320             \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
25321                 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
25322                 +.9em}%
25323             \relax
25324         }%
25325     }%
25326 }{%}%
25327 }{%
25328     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
25329 }%
25330 }{%}%
25331 \@ifundefined{scr@tso@#1@numwidth}{%
25332     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25333     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25334     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
25335     \scr@ifundefinedorrelax{chapter}{%
25336         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
25337         \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25338         \Ifstr{#1}{subsubsection}{%
25339             \@namedef{scr@tso@#1@numwidth}{3.2em}%
25340         }%
25341         \Ifstr{#1}{paragraph}{%
25342             \@namedef{scr@tso@#1@numwidth}{4.1em}%

```



```

25343         }{%
25344             \Ifstr{#1}{subparagraph}{%
25345                 \@namedef{scr@tso@#1@numwidth}{5m}%
25346             }{%
25347             }%
25348         }%
25349     }%
25350 }%
25351 }%
25352 }{%
25353     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25354     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
25355     \Ifstr{#1}{subsubsection}{%
25356         \@namedef{scr@tso@#1@numwidth}{3.1em}%
25357     }{%
25358         \Ifstr{#1}{paragraph}{%
25359             \@namedef{scr@tso@#1@numwidth}{5em}%
25360         }{%
25361             \Ifstr{#1}{subparagraph}{%
25362                 \@namedef{scr@tso@#1@numwidth}{6em}%
25363             }{%
25364             }%
25365         }%
25366     }%
25367     }%
25368     }%
25369     }%
25370 }%
25371 }%
25372 }%
25373 }{}%
25374 \expandafter\renewcommand%
25375 \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
25376 \expandafter\renewcommand%
25377 \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
25378 \expandafter\renewcommand%
25379 \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
25380 \@ifundefined{scr@tso@#1@beforeskip}{%
25381     \Ifstr{#1}{part}{%
25382         \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@\relax}%
25383     }{%
25384     \Ifstr{#1}{chapter}{%
25385         \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
25386     }{%
25387     \Ifstr{#1}{section}{%
25388         \scr@ifundefinedorrelax{1@chapter}{%
25389             \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
25390         }{}%
25391     }{}%
25392     }%
25393 }%
25394 \expandafter\renewcommand\expandafter*%
25395 \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
25396 }{}%

```



```

25397 \@ifundefined{scr@dte@#1@maxnumwidth}{%
25398   \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
25399   \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
25400 }{}%
25401 \renewcommand*{\scr@dte@donumwidth}{}%
25402 \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
25403 \expandafter\renewcommand\expandafter*%
25404 \csname scr@tso@#1@numsep\endcsname{.4em}%
25405 \expandafter\renewcommand%
25406 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
25407 \Ifstr{#1}{part}{%
25408   \expandafter\providecommand%
25409   \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
25410 }{%
25411   \Ifstr{#1}{chapter}{%
25412     \expandafter\providecommand%
25413     \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
25414   }{%
25415     \scr@ifundefinedorrelax{1@chapter}{%
25416       \Ifstr{#1}{section}{%
25417         \expandafter\providecommand%
25418         \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
25419       }{}%
25420     }{}%
25421     \expandafter\providecommand%
25422     \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
25423   }%
25424 }%
25425 \expandafter\renewcommand
25426 \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%
25427 \@ifundefined{scr@tso@#1@linefill}{%
25428   \Ifstr{#1}{part}{%
25429     \@namedef{scr@tso@#1@linefill}{\hfill}%
25430   }{%
25431     \Ifstr{#1}{chapter}{%
25432       \@namedef{scr@tso@#1@linefill}{\hfill}%
25433     }{%
25434       \scr@ifundefinedorrelax{1@chapter}{%
25435         \Ifstr{#1}{section}{%
25436           \@namedef{scr@tso@#1@linefill}{\hfill}%
25437         }{}%
25438       }{}%
25439       \expandafter\renewcommand%
25440       \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
25441     }%
25442   }%
25443 }{}%
25444 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
25445 \Ifstr{#1}{part}{%
25446   \expandafter\providecommand%
25447   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
25448 }{%
25449   \Ifstr{#1}{chapter}{%
25450     \expandafter\providecommand%

```



```

25451 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
25452 }{%
25453 \scr@ifundefinedorrelax{1@chapter}{%
25454 \Ifstr{#1}{section}{%
25455 \expandafter\providecommand%
25456 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
25457 }{}%
25458 }{}%
25459 \expandafter\providecommand%
25460 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
25461 {\normalfont\normalcolor ##1}}%
25462 }%
25463 }%
25464 \expandafter\renewcommand%
25465 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
25466 \hb@xt@{\@nameuse{scr@dte@pagenumberwidth}}{\hfil ##1}}%
25467 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
25468 \expandafter\renewcommand\csname Ifscr@tso@#1@dynindent\endcsname[2]{##2}%
25469 \scr@ifundefinedorrelax{scr@tso@#1@indentfollows}{%
25470 \Ifstrstart{#1}{sub}{%
25471 \expandafter\edef\csname scr@tso@#1@indentfollows\endcsname{%
25472 \scr@dte@nosub{#1}%
25473 }%
25474 }{}%
25475 \expandafter\let\csname scr@tso@#1@indentfollows\endcsname\@empty
25476 }%
25477 }{}%
25478 }]{%
25479 \scr@dte@tocline{#1}{##1}{##2}%
25480 }
25481
25482 \if@bidi@csdef{scr@tso@figure@pagenumberformat}{%
25483 \renewcommand*{\scr@tso@figure@pagenumberformat}[1]{%
25484 {\normalfont\normalcolor #1}%
25485 }%
25486 }{}
25487
25488 \if@bidi@csdef{scr@tso@table@pagenumberformat}{%
25489 \renewcommand*{\scr@tso@table@pagenumberformat}[1]{%
25490 {\normalfont\normalcolor #1}%
25491 }%
25492 }{}
25493

```

## 158 File tocstyle-xetex-bidi.def

```

25494 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
25495 \renewcommand*{\tocstyle@dottedtocline}[5]{%
25496 \let\numberline\tocstyle@numberline
25497 \ifnum #1>\c@tocdepth \else
25498 \if@tocstyle@penalties
25499 \begingroup
25500 \@tempcnta 20010
25501 \advance \@tempcnta by -#1

```



```

25502         \ifnum \@tempcnta>\lastpenalty
25503         \aftergroup\penalty\aftergroup\@lowpenalty
25504     \fi
25505 \endgroup
25506 \fi
25507 \edef\tocstyledepth{#1}%
25508 \tocstyle@activate@features
25509 \ifx\tocstyle@feature@entryvskip\relax
25510     \vskip \z@ \@plus.2\p@
25511 \else
25512     \addvspace{\tocstyle@feature@entryvskip}%
25513 \fi
25514 {%
25515     \parskip \z@ \parindent \z@ \if@RTL\rightskip\else\leftskip\fi \z@ \if@RTL\leftskip\else\rightskip\fi
25516     \tocstyle@feature@raggedhook
25517     \@tempdima #3\relax
25518     \@tempdimb #2\relax
25519     \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25520     \ifnum #1>\z@\relax
25521         \@tempcnta #1\relax \advance\@tempcnta \m@ne
25522         \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25523             \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25524                 \@tempdimb
25525                 \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25526                 \advance\@tempdimb
25527                 \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25528             \fi
25529         \fi
25530     \fi
25531     \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25532     \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
25533         \ifdim \@tempdimb>
25534             \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
25535             \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
25536                 @#1\endcsname{\the\@tempdimb}%
25537         \fi
25538     \else
25539         \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
25540             @#1\endcsname{\the\@tempdimb}%
25541     \fi
25542     \iftocstyle@autolength
25543         \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
25544             \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
25545             \relax
25546         \fi
25547         \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
25548             \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
25549             \relax
25550         \fi
25551         \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25552         \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25553     \else
25554         \@tempdimb #2\relax
25555         \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%

```



```

25556 \fi
25557 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
25558 \ifdim \@tempdima>
25559 \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
25560 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
25561 @\endcsname{\the\@tempdima}%
25562 \fi
25563 \else
25564 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
25565 @\endcsname{\the\@tempdima}%
25566 \fi
25567 \ifcase\tocstyle@indentstyle\relax\else
25568 \@tempdimb \z@
25569 \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
25570 \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
25571 \relax
25572 \fi
25573 \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25574 \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25575 \fi
25576 \advance\parindent \@tempdimb\@afterindenttrue
25577 \advance\if@RTL\rightskip\else\leftskip\fi \parindent
25578 \advance\if@RTL\leftskip\else\rightskip\fi \@tocrmarg
25579 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
25580 \ifx\tocstyle@feature@parfillskip\relax\else
25581 \advance\parfillskip \tocstyle@feature@parfillskip\relax
25582 \fi
25583 \interlinepenalty\@M
25584 \leavevmode
25585 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
25586 \null\nobreak
25587 \iftocstyle@indentnotnumbered\else
25588 \hskip -\if@RTL\rightskip\else\leftskip\fi
25589 \fi
25590 \tocstyle@feature@entryhook
25591 {#4}\nobreak
25592 \ifx\tocstyle@feature@leaders\relax
25593 \leaders\hbox{$\m@th
25594 \mkern \@dotsep mu\hbox{\tocstyle@feature@dothook .}%
25595 \mkern \@dotsep mu$}\hfill
25596 \else
25597 \tocstyle@feature@leaders
25598 \fi
25599 \nobreak
25600 \ifx\tocstyle@feature@pagenumberbox\relax
25601 \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
25602 \else
25603 \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
25604 \fi
25605 \par
25606 }%
25607 \iftocstyle@penalties
25608 \bgroup
25609 \@tempcnta 20009

```





```

25610         \advance\@tempcnta by -#1
25611         \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
25612         \reserved@a
25613     \fi
25614 \fi}
25615 \renewcommand*{\tocstyle@numberline}[1]{%
25616     \begingroup
25617     \ifx\tocstyle@feature@spaceafternumber\relax
25618         \settowidth\@tempdima{\tocstyle@@numberline{#1}\enskip}%
25619     \else
25620         \settowidth\@tempdima{\tocstyle@@numberline{#1}}%
25621         \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
25622     \fi
25623     \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
25624         \ifdim \@tempdima >
25625             \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
25626             \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
25627                 @\tocstyledepth\endcsname{\the\@tempdima}%
25628         \fi
25629     \else
25630         \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
25631             @\tocstyledepth\endcsname{\the\@tempdima}%
25632     \fi
25633 \endgroup
25634 \iftocstyle@indentnotnumbered
25635     \hskip -\if@RTL\rightskip\else\leftskip\fi
25636 \fi
25637 \ifcase \tocstyle@indentstyle
25638     \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
25639 \or
25640     \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
25641 \else
25642     \ifx\tocstyle@feature@spaceafternumber\relax
25643         \hbox{\tocstyle@@numberline{#1}\enskip}%
25644     \else
25645         \hbox{\tocstyle@@numberline{#1}\hskip
25646             \tocstyle@feature@spaceafternumber\relax}%
25647     \fi
25648 \fi
25649 }
25650 \AtBeginDocument{%
25651     \ifcsname l@part\endcsname
25652         \ifcsname l@chapter\endcsname
25653             \setbox\@tempboxa\vbox{\hsize\maxdimen
25654                 \l@part{\tocstyle@l@define{part}{-1}}}%
25655         \else
25656             \setbox\@tempboxa\vbox{\hsize\maxdimen
25657                 \l@part{\tocstyle@l@define{part}{0}}}%
25658         \fi
25659     \fi
25660     \ifcsname l@chapter\endcsname
25661         \setbox\@tempboxa\vbox{\hsize\maxdimen
25662             \l@chapter{\tocstyle@l@define{chapter}{0}}}%
25663     \fi

```



```

25664 \ifcsname l@section\endcsname
25665 \setbox\@tempboxa\vbox{\hsize\maxdimen
25666 \l@section{\tocstyle@l@define{section}{1}}{}}%
25667 \fi
25668 \ifcsname l@subsection\endcsname
25669 \setbox\@tempboxa\vbox{\hsize\maxdimen
25670 \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
25671 \fi
25672 \ifcsname l@subsubsection\endcsname
25673 \setbox\@tempboxa\vbox{\hsize\maxdimen
25674 \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
25675 \fi
25676 \ifcsname l@paragraph\endcsname
25677 \setbox\@tempboxa\vbox{\hsize\maxdimen
25678 \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
25679 \fi
25680 \ifcsname l@subparagraph\endcsname
25681 \setbox\@tempboxa\vbox{\hsize\maxdimen
25682 \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
25683 \fi
25684 \ifcsname l@table\endcsname
25685 \setbox\@tempboxa\vbox{\hsize\maxdimen
25686 \l@table{\tocstyle@l@define{table}{1}}{}}%
25687 \fi
25688 \ifcsname l@figure\endcsname
25689 \setbox\@tempboxa\vbox{\hsize\maxdimen
25690 \l@figure{\tocstyle@l@define{figure}{1}}{}}%
25691 \fi
25692 \def\@tempa#1#2#3#4#5{%
25693 \ifnum #1>\c@tocdepth \else
25694 \vskip \z@ \@plus.2\p@
25695 {\ifRTL\rightskip\else\leftskip\fi #2\relax \ifRTL\leftskip\else\rightskip\fi \@toc
25696 \parindent #2\relax\@afterindenttrue
25697 \interlinepenalty\@M
25698 \leavevmode
25699 \@tempdima #3\relax
25700 \advance\ifRTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\ifRTL\r
25701 {#4}\nobreak
25702 \leaders\hbox{$\m@th
25703 \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
25704 mu$}\hfill
25705 \nobreak
25706 \hb@xt@\@pnumwidth{\hfil \normalfont \normalcolor #5}}%
25707 \par}%
25708 \fi}%
25709 \ifx\@dottedtocline\@tempa\else
25710 \tocstyle@macrochangewarning\@dottedtocline
25711 \fi
25712 \let\tocstyle@saved@dottedtocline\@dottedtocline
25713 \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
25714 \ifx\numberline\@tempa\else
25715 \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
25716 \ifx\numberline\@tempa\else
25717 \tocstyle@macrochangewarning\numberline

```



```

25718 \fi
25719 \fi
25720 \let\tocstyle@saved@numberline\numberline
25721 }
25722 \renewcommand*{\tocstyle@l@define}[2]{%
25723 \advance\if@RTL\rightskip\else\leftskip\fi-\@tempdima
25724 \edef\@tempa{%
25725 \noexpand\global\noexpand\let
25726 \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
25727 \expandafter\noexpand\csname l@#1\endcsname
25728 \noexpand\gdef
25729 \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
25730 \noexpand\@dottedtocline{#2}{\the\if@RTL\rightskip\else\leftskip\fi}{\the\@tempdima}}%
25731 \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l@%
25732 \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
25733 \expandafter\noexpand\csname tocstyle@l@#1\endcsname
25734 }%
25735 }%
25736 \PackageInfo{tocstyle}{prepare \expandafter\string
25737 \csname l@#1\endcsname\space for redefinition}%
25738 \@tempa
25739 }

```

## 159 File todonotes-xetex-bidi.def

```

25740 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes pack
25741 \newif\if@bidi@todonotes@textdirection@RTL
25742 \newif\if@bidi@todonotes@figposition@right
25743 \newcommand{\@bidi@todonotes@align}{}%
25744 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%
25745 \newcommand{\@bidi@todonotes@textdirection}{}%
25746 \define@choicekey{todonotes}{textdirection}[\bidi@todonotes@tempa\bidi@todonotes@tempb]{right
25747 \ifcase\bidi@todonotes@tempb\relax
25748 \@bidi@todonotes@textdirection@RTLtrue
25749 \let\bidi@todonotes@textdirection\RL
25750 \or
25751 \@bidi@todonotes@textdirection@RTLfalse
25752 \let\bidi@todonotes@textdirection\LR
25753 \fi}
25754 \define@choicekey{todonotes}{figposition}[\bidi@todonotes@tempa\bidi@todonotes@tempb]{right
25755 \ifcase\bidi@todonotes@tempb\relax
25756 \@bidi@todonotes@figposition@righttrue
25757 \or
25758 \@bidi@todonotes@figposition@rightfalse
25759 \fi}
25760 \if@todonotes@disabled%
25761 \else % \if@todonotes@disabled
25762 \renewcommand{\@todonotes@drawInlineNote}{%
25763 \if@todonotes@dviStyle%
25764 {\par\noindent\begin{tikzpicture}[remember picture]%
25765 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
25766 \if@todonotes@authorgiven%
25767 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
25768 \else%

```



```

25769         {\noindent \@todonotes@sizecommand \@todonotes@text}%
25770     \fi
25771     {\par\noindent\begin{tikzpicture}[remember picture]%
25772         \draw node[inlinenotestyle] {}; \end{tikzpicture}\par}%
25773 \else%
25774     {\par\noindent\begin{tikzpicture}[remember picture]%
25775         \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25776         \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@
25777             \if@todonotes@authorgiven%
25778                 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@tex
25779             \else%
25780                 {\noindent \@todonotes@sizecommand \@todonotes@text}%
25781             \fi};%
25782         \end{tikzpicture}\par}%
25783 \fi}%
25784 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
25785 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
25786     \node [coordinate] (inText) {};%
25787 \end{tikzpicture}%
25788 \marginpar[{\% Draw note in left margin
25789     \@todonotes@drawMarginNote%
25790     \if@RTL@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
25791 }]{\% Draw note in right margin
25792     \@todonotes@drawMarginNote%
25793     \if@RTL@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%
25794 }%
25795 }%
25796 \renewcommand{\@todonotes@drawMarginNote}{%
25797 \if@todonotes@dviStyle%
25798     \begin{tikzpicture}[remember picture]%
25799         \draw node[notestyle] {};%
25800     \end{tikzpicture}\\%
25801     \begin{minipage}{\@todonotes@textwidth}%
25802     \if@todonotes@authorgiven%
25803         \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
25804     \else%
25805         \@todonotes@sizecommand \@todonotes@text%
25806     \fi%
25807     \end{minipage}\\%
25808     \begin{tikzpicture}[remember picture]%
25809         \draw node[notestyle] (inNote) {};%
25810     \end{tikzpicture}%
25811 \else%
25812     \let\originalHbadness\hbadness%
25813     \hbadness 100000%
25814     \begin{tikzpicture}[remember picture,baseline=(X.base)]%
25815         \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25816         \node(X){\vphantom{X}};%
25817         \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@
25818             {\@todonotes@text};%
25819         \if@todonotes@authorgiven%
25820             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@
25821                 {\@todonotes@sizecommand \@todonotes@author};%
25822             \node(Y)[below=of X]{};%

```



```

25823         \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@tod
25824             {\@todonotes@text};%
25825     \else%
25826         \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@tod
25827             {\@todonotes@text};%
25828     \fi%
25829 \end{tikzpicture}%
25830 \hbadness \originalHbadness%
25831 \fi}%
25832 \renewcommand{\missingfigure}[2][]{%
25833 \setkeys{todonotes}{#1}%
25834 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
25835 \par
25836 \noindent
25837 \begin{tikzpicture}
25838 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
25839     (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
25840 \if@bidi@todonotes@figposition@right%
25841 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
25842 \fi%
25843 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
25844     (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
25845 \if@bidi@todonotes@figposition@right%
25846 \end{scope}
25847 \begin{scope}[xshift=-3.8cm]
25848 \fi%
25849 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25850 \draw (2, -0.3) node[right, text
25851     width=\@todonotes@currentfigwidth-4.5cm,align=\@bidi@todonotes@align] {#2};
25852 \if@bidi@todonotes@figposition@right%
25853 \end{scope}
25854 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
25855 \fi%
25856 \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonot
25857 \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonot
25858 \if@bidi@todonotes@figposition@right%
25859 \end{scope}
25860 \fi%
25861 \end{tikzpicture}\hfill
25862 }% Ending \missingfigure command
25863 \fi % Ending \@todonotes@ifdisabled
25864 \presetkeys%
25865     {todonotes}%
25866     {align=left,%
25867     textdirection=lefttoright,%
25868     figposition=left}{}%

```

## 160 File wrapfig-xetex-bidi.def

```

25869 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package
25870 \let\WF@everypar\bidi@n@everypar
25871 \def\WF@putfigmaybe{%
25872 \ifinner
25873     \vskip-\parskip \global\WF@floatfalse

```



```

25874 \let\pagetotal\maxdimen % kludge flag for "not top of page"
25875 \else % outer page
25876 \@tempdima\pagedepth % save page depth
25877 {\advance\parskip\@tempdima\if@RTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
25878 \penalty\interlinepenalty % update pg. parameters
25879 \@tempdimb\pagegoal \advance\@tempdimb-\pagetotal % room left on page
25880 \ifdim\@tempdimb<\z@ % \WF@info{Page overfull already;}%
25881 \global\WF@floatfalse
25882 \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
25883 \else
25884 \ifdim\WF@size>\@tempdimb
25885 \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
25886 \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
25887 \ifdim\pagefilstretch>\z@ \dimen@\@tempdimb \fi
25888 \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
25889 \advance\dimen@.5\baselineskip
25890 \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch}%
25891 \global\WF@floatfalse \pagebreak
25892 \fi
25893 \else % \WF@info{Fits in \the\@tempdimb;}%
25894 \global\WF@floatfalse
25895 \fi\fi
25896 \vskip\@tempdima\relax % (return erased page depth)
25897 \fi
25898 \noindent
25899 \ifWF@float
25900 \WF@fltnes
25901 \else % putting here;
25902 \WF@info{Put \WF@wfname here:}%
25903 {\ifodd\if@twoside\c@page\else\@ne\fi % assign l/r to i/o placement
25904 \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
25905 \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
25906 \hbox to\z@{\% llap or rlap depending on {l} or {r}; calc effective width
25907 \@tempdima\wd\WF@box \@tempdimb\WF@ovh
25908 \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
25909 \@tempdimb\hsize \advance\@tempdimb-\@tempdima
25910 \xdef\WF@adjlw{\the\@tempdima}%
25911 \ifnum `l=\WF@place % fig on left
25912 \if@RTL%
25913 \kern\@tempdimb \kern\columnsep
25914 \def\@tempa{\hss}% position to left of the gap
25915 \else%
25916 \hss % figure overlaps space to the left
25917 \def\@tempa{\kern\columnsep}% position to left of the gap
25918 \fi%
25919 \else % fig on right
25920 \if@RTL%
25921 \hss
25922 \@tempdima\z@
25923 \def\@tempa{\kern\columnsep}
25924 \else%
25925 \@tempdima\z@ % no left indentation
25926 \kern\@tempdimb \kern\columnsep
25927 \def\@tempa{\hss}% figure overlaps space to the right

```



```

25928 \fi%
25929 \fi
25930 \ifdim\@tempdimb<\hsize
25931 \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
25932 \xdef\WF@adjtlm{\the\@tempdima}%
25933 \else
25934 \xdef\WF@wrapil{\z@ \the\hsize}%
25935 \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%
25936 \fi
25937 \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
25938 \global\advance\WF@size-\intextsep
25939 \else % \WF@info{Putting \WF@wfname in middle of page}%
25940 \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
25941 \fi \dp\WF@box\z@ \box\WF@box \@tempa
25942 }% end \hbox to Opt
25943 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
25944 \fi}

```

## 161 File xcolor-xetex-bidi.def

```

25945 \ProvidesFile{xcolor-xetex-bidi.def}[2022/06/13 v0.3 bidi adaptations for xcolor package for
25946 \long\def\color@b@x#1#2#3%
25947 {\leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
25948 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}
25949 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
25950 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
25951 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
25952 \protected\def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup
25953 \DeclareRobustCommand\color
25954 {\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor
25955 \def\@undeclaredcolor[#1]#2%
25956 {\begingroup
25957 \let\@cls\@empty
25958 \XC@getmodclr12{#1}{#2}{}%
25959 {\ifblendcolors
25960 \ifx\colorblend\@empty\else
25961 \edef\@mix{\expandafter\@gobble\colorblend}\@tempswafalse
25962 \XC@coremodel\@mod\@clr\@xcolor@{}{}\@mod\@clr
25963 \fi
25964 \fi
25965 \ifconvertcolorsU
25966 \edef\@tmp{\XC@tgt@mod{\@mod}}%
25967 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
25968 \fi
25969 \ifmaskcolors
25970 \convertcolorspec\@mod\@clr\XC@mmod\@clr
25971 \let\@mod\XC@mmod
25972 \XC@inflate\@mod\XC@mclr\@clr\@tmp
25973 \expandafter\XC@mul\@tmp,\@clr
25974 \fi
25975 \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
25976 \expandafter\endgroup\@tmp}}
25977 \def\@declaredcolor#1%
25978 {\XC@edef\XC@tmp{#1}\XC@tstfalse

```



```

25979 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
25980 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
25981 \ifconvertcolorsU\XC@tsttrue\fi
25982 \fi
25983 \ifXC@tst
25984 \expandafter\XC@declaredcolor\else
25985 \expandafter\XC@declaredcolor\fi}
25986 \def\XC@undeclaredcolor#1#2%
25987 {\@ifundefinedmodel{#1}%
25988 {\c@lor@error{model `#1'}}%
25989 {\@nameuse{color@#1}\current@color{#2}}%
25990 \edef\XC@current@color{\noexpand\xcolor@{\current@color}{#1}{#2}}%
25991 \XC@display}\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
25992 \def\XC@declaredcolor
25993 {\XC@let@Nc\XC@current@color{\string\color@\XC@tmp}%
25994 \edef\current@color{\XC@current@color}%
25995 \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
25996 \DeclareRobustCommand\bidicolor
25997 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
25998 \def\@bidiundeclaredcolor[#1]#2%
25999 {\begingroup
26000 \let\@cls\@empty
26001 \XC@getmodclr12{#1}{#2}{}%
26002 {\ifblendcolors
26003 \ifx\colorblend\@empty\else
26004 \edef\@mix{\expandafter\@gobble\colorblend}\@tempwafalse
26005 \XC@coremodel\@mod\@clr\@xcolor@{\}\@mod\@clr
26006 \fi
26007 \fi
26008 \ifconvertcolorsU
26009 \edef\@tmp{\XC@tgt@mod{\@mod}}%
26010 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
26011 \fi
26012 \ifmaskcolors
26013 \convertcolorspec\@mod\@clr\XC@mmod\@clr
26014 \let\@mod\XC@mmod
26015 \XC@inflate\@mod\XC@mclr\@clr\@tmp
26016 \expandafter\XC@mul\@tmp,\@clr
26017 \fi
26018 \edef\@tmp{\noexpand\XC@bidiundeclaredcolor{\@mod}{\@clr}}%
26019 \expandafter\endgroup\@tmp}}
26020 \def\XC@bidiundeclaredcolor#1#2%
26021 {\@ifundefinedmodel{#1}%
26022 {\c@lor@error{model `#1'}}%
26023 {\@nameuse{color@#1}\current@color{#2}}%
26024 \edef\XC@current@color{\noexpand\xcolor@{\current@color}{#1}{#2}}%
26025 \XC@display}}
26026 \def\@bidideclaredcolor#1%
26027 {\XC@edef\XC@tmp{#1}\XC@tstfalse
26028 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
26029 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
26030 \ifconvertcolorsU\XC@tsttrue\fi
26031 \fi
26032 \ifXC@tst

```





```

26033 \expandafter\XC@bidideclaredcolor\else
26034 \expandafter\XC@bidideclaredcolor\fi}
26035 \def\XC@bidideclaredcolor
26036 {\XC@split\XC@tmp
26037 \edef\XC@tmp{\noexpand\@bidiundeclaredcolor[\XC@mod]{\XC@clr}}%
26038 \expandafter\endgroup\XC@tmp}
26039 \def\XC@bidideclaredcolor
26040 {\XC@let\XC@current@color{\string\color\XC@tmp}%
26041 \edef\XC@current@color{\XC@current@color}%
26042 \XC@display}
26043 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
26044 \def\color@fbbox#1#2#3#4{\protect\color@fb@x{#1}{#2}{#3}{#4}%
26045 \def\color@fb@x#1#2#3#4%
26046 {\color@b@x{\fbboxsep\z@\bidicolor#1{#2}\XC@fbbox}%
26047 {\@ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
26048 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\setcolor\ifhmo

```

## 162 File latex-xetex-bidi.def

```

26049 \ProvidesFile{latex-xetex-bidi.def}[2024/12/08 v1.5.1 bidi adaptations for 'latex.ltx' for
26050 \newcommand{\TeXXeTOn}{\TeXXeTstate\@ne}
26051 \newcommand{\TeXXeTOff}{\TeXXeTstate\@z}
26052 \TeXXeTOn
26053 \def\bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\useb
26054 \let\bidi@o@everypar=\everypar
26055 \newtoks\bidi@n@everypar
26056 \bidi@n@everypar\expandafter\the\bidi@o@everypar}
26057 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
26058 \let\everypar=\bidi@n@everypar
26059 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
26060 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
26061 \protected\def\hboxR{\hbox\bgroup
26062 \everyhbox{%
26063 \aftergroup\egroup
26064 \everyhbox{}}%
26065 \beginR
26066 \@hboxRconstructtrue
26067 \bgroup
26068 \aftergroup\endR
26069 \aftergroup\egroup
26070 }\hbox}
26071 \protected\def\hboxL{\hbox\bgroup
26072 \everyhbox{%
26073 \aftergroup\egroup
26074 \everyhbox{}}%
26075 \beginL
26076 \@hboxRconstructfalse
26077 \bgroup
26078 \aftergroup\endL
26079 \aftergroup\egroup
26080 }\hbox}
26081 \protected\def\vboxR{\vbox\bgroup
26082 \everyvbox{%
26083 \aftergroup\egroup

```



```

26084 \everyvbox{%
26085 \@RTLtrue
26086 \@RTLtabtrue
26087 \bgroup
26088 \aftergroup\egroup
26089 }\vbox}
26090 \protected\def\vboxL{\vbox\bgroup
26091 \everyvbox{%
26092 \aftergroup\egroup
26093 \everyvbox{%
26094 \@RTLfalse
26095 \@RTLtabfalse
26096 \bgroup
26097 \aftergroup\egroup
26098 }\vbox}
26099 \newcommand*{\bidi@leftskip}{\if@RTL\rightskip\else\leftskip\fi}
26100 \newcommand*{\bidi@rightskip}{\if@RTL\leftskip\else\rightskip\fi}
26101 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\hsize\linewidth\parshape\z@\bidi@beamer@ragged}
26102 \def\endLTR{\par}
26103 \newenvironment{LTR*}{\LTR
26104 \everypar{%
26105 {\setbox\z@\lastbox
26106 \ifvoid\z@
26107 \kern-\parindent
26108 \fi}%
26109 }%
26110 }{\endLTR\@endpetrue}
26111 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\hsize\linewidth\parshape\z@\bidi@beamer@ragged}
26112 \def\endRTL{\par}
26113 \newenvironment{RTL*}{\RTL
26114 \everypar{%
26115 {\setbox\z@\lastbox
26116 \ifvoid\z@
26117 \kern-\parindent
26118 \fi}%
26119 }%
26120 }{\endRTL\@endpetrue}
26121 \def\setRTL{\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\bidi@beamer@ragged}
26122 \def\setLTR{\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\bidi@beamer@ragged}
26123 \let\unsetRTL=\setRTL
26124 \let\unsetLTR=\setRTL
26125 \let\LR=\LRE
26126 \let\RL=\RLE
26127 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
26128 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
26129 \let\@ensure@RL=\@ensure@RTL
26130 \let\@ensure@LR=\@ensure@LTR
26131 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
26132 \let\@ensure@maindir=\@ensure@dir
26133 \def\@@RTL{RTL}
26134 \def\@@LTR{LTR}
26135 \def\save@dir{\if@RTL\gdef\saved@@dir{RTL}\else\gdef\saved@@dir{LTR}\fi}
26136 \def\reset@dir{\ifx\saved@@dir\@RTL\setRTL\else\ifx\saved@@dir\@LTR\setLTR\else\relax\fi}
26137 \let\@TeX\TeX

```



```

26138 \def\TeX{\@ensure@LTR{\@TeX}}
26139 \let\@LaTeX\LaTeX
26140 \def\LaTeX{\@ensure@LTR{\@LaTeX}}
26141 \let\@LaTeXe\LaTeXe
26142 \def\LaTeXe{\@ensure@LTR{\@LaTeXe}}
26143 \long\def\bidireflect@box#1{%
26144   \leavevmode
26145   \setbox\z@\hbox{#{#1}}%
26146   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestor
26147   \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}}%
26148 }
26149 \if@bidi@csundef{XeTeX}{%
26150 \bidi@newrobustcmd*{\XeTeX}{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
26151   \hbox{\kern-.125em\bidireflect@box{E}}\kern-.1667em \TeX}}$}}%
26152 }{%
26153 \let\@bidi@orig@XeTeX\XeTeX
26154 \bidi@renewrobustcmd*{\XeTeX}{\LR{\@bidi@orig@XeTeX}}%
26155 }
26156 \if@bidi@csundef{XeLaTeX}{%
26157 \bidi@newrobustcmd*{\XeLaTeX}{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
26158   \hbox{\kern-.125em\bidireflect@box{E}}\kern-.1667em \LaTeX}}$}}%
26159 }{%
26160 \let\@bidi@orig@XeLaTeX\XeLaTeX
26161 \bidi@renewrobustcmd*{\XeLaTeX}{\LR{\@bidi@orig@XeLaTeX}}%
26162 }
26163 \let\setRL=\setRTL
26164 \let\setLR=\setLTR
26165 \let\unsetRL=\setLTR
26166 \def\biditabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
26167 \@ifpackageloaded{array}{%
26168 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
26169   \leavevmode
26170   \hbox \bgroup $\left.\col@sep\tabcolsep \let\d@llarbegin\begin\group
26171   \let\d@llarend\end\group
26172   \@tabarray}
26173 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}
26174 }{%
26175 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
26176   \leavevmode \hbox \bgroup
26177   $\left.\let\@acol\@tabacol
26178   \let\@classz\@tabclassz
26179   \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
26180
26181 \def\endbidi@tabular@RTLcases{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
26182   \egroup\right\rbrace $\egroup}}
26183 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
26184   \ialign{##\hfil$\quad{##}\hfil\crrc#1\crrc}}\,\right\}}
26185 \renewenvironment{RTLcases}{%
26186 \bidi@matrix@check\RTLcases\env@RTLcases
26187 }{%
26188 \endbidi@tabular@RTLcases%
26189 }
26190 \def\env@RTLcases{%
26191 \let\@ifnextchar\bidi@new@ifnextchar

```



```

26192 \def\arraystretch{1.2}%
26193 \bidi@tabular@RTLcases{@{ }r@{\quad}r@{ }}%
26194 }
26195 \def\SepMark#1{\gdef\@SepMark{#1}}
26196 \SepMark{.}
26197 \def\@thmcountersep{\@SepMark}
26198 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
26199 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
26200 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
26201 \newcommand*{\bidi@thebibliography@font@hook}{}
26202 \def\list#1#2{%
26203   \ifnum \@listdepth >5\relax
26204     \@toodeep
26205   \else
26206     \global\advance\@listdepth\@ne
26207   \fi
26208   \rightmargin\z@
26209   \listparindent\z@
26210   \itemindent\z@
26211   \csname @list\romannumeral\the\@listdepth\endcsname
26212   \def\@itemlabel{#1}%
26213   \let\makelabel\@mklab
26214   \@nmbrrlistfalse
26215   #2\relax
26216   \@trivlist
26217   \parskip\parsep
26218   \parindent\listparindent
26219   \advance\linewidth -\rightmargin
26220   \advance\linewidth -\leftmargin
26221   \if@bidi@list@minipage@parbox
26222     \if@RTL
26223       \advance\@totalleftmargin \leftmargin
26224     \else
26225       \advance\@totalleftmargin \rightmargin
26226     \fi
26227   \else
26228     \if@hboxRconstruct
26229     \if@bidi@list@minipage@parbox@not@nob
26230     \if@RTL
26231       \advance\@totalleftmargin \rightmargin
26232     \else
26233       \advance\@totalleftmargin \leftmargin
26234     \fi
26235   \else
26236     \if@RTL
26237       \advance\@totalleftmargin \leftmargin
26238     \else
26239       \advance\@totalleftmargin \rightmargin
26240     \fi\fi
26241   \else
26242     \if@RTL
26243       \advance\@totalleftmargin \rightmargin
26244     \else
26245       \advance\@totalleftmargin \leftmargin

```



```

26246 \fi\fi\fi
26247 \parshape \@ne \@totalleftmargin \linewidth
26248 \ignorespaces}
26249 \long\def\@iiiparbox#1#2[#3]#4#5{%
26250 \leavevmode
26251 \@pboxswfalse
26252 \if@hboxRconstruct
26253 \@bidi@list@minipage@parbox@not@nobtrue
26254 \fi
26255 \if@RTL
26256 \ifx#1t%
26257 \@bidi@list@minipage@parboxtrue
26258 \else
26259 \ifx#1b%
26260 \@bidi@list@minipage@parboxtrue
26261 \fi
26262 \fi
26263 \fi
26264 \setlength\@tempdima{#4}%
26265 \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@par}%
26266 \ifx\relax#2\else
26267 \setlength\@tempdimb{#2}%
26268 \edef\@parboxto{to\the\@tempdimb}%
26269 \fi
26270 \if#1b\vbox
26271 \else\if #1t\vtop
26272 \else\ifmmode\vcenter
26273 \else\@pboxswtrue $\vcenter
26274 \fi\fi\fi
26275 \@parboxto{\let\hss\vss\let\unhbox\unvbox
26276 \csname bm@#3\endcsname}%
26277 \if@pboxsw \m@th$\fi
26278 \@end@tempboxa}
26279 \newenvironment{LTRitems}
26280 {\par\@RTLfalse\@RTLtabfalse\bidi@beamer@ragged
26281 \if@bidi@list@minipage@parbox
26282 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
26283 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26284 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
26285 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26286 \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26287 \ignorespaces}{\vskip\z@}
26288 \newenvironment{RTLitems}
26289 {\par\@RTLtrue\@RTLtabtrue\bidi@beamer@ragged
26290 \if@bidi@list@minipage@parbox
26291 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
26292 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26293 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
26294 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26295 \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26296 \ignorespaces}{\vskip\z@}
26297 \newenvironment{LTRbibitems}
26298 {\par\@RTLfalse\@RTLtabfalse\bidi@beamer@ragged
26299 \if@bidi@list@minipage@parbox

```



```

26300         \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
26301         \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26302         \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
26303         \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26304         \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26305         \ignorespaces}{\vskip\z@}
26306 \newenvironment{RTLbibitems}
26307     {\par\@RTLtrue\@RTLtabtrue\bidi@beamer@ragged
26308     \if@bidi@list@minipage@parbox
26309     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
26310     \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26311     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
26312     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26313     \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26314     \ignorespaces}{\vskip\z@}
26315 \def\raggedright{%
26316     \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
26317     \leftskip\z@skip
26318     \parindent\z@\parfillskip\z@skip}
26319 \let\bidi@orig@raggedleft\raggedleft
26320 \let\bidi@orig@raggedright\raggedright
26321 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\bidi@orig@raggedright\else\if@hboxRc
26322 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\bidi@orig@raggedleft\else\if@hboxRc
26323 \newcommand{\bidi@raggedright}{\if@RTL\raggedleft\else\raggedright\fi}
26324 \newcommand{\bidi@raggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
26325 \DeclareRobustCommand\centerline[1]{%
26326 \if@RTL\@@line{\hss\beginR#1\endR\hss}
26327 \else\@@line{\hss#1\hss}\fi}
26328 \def\bidi@orig@leftline#1{%
26329 \if@RTL\@@line{\beginR#1\endR\hss}
26330 \else\@@line{#1\hss}\fi}
26331 \def\bidi@orig@rightline#1{%
26332 \if@RTL\@@line{\hss\beginR#1\endR}
26333 \else\@@line{\hss#1}\fi}
26334 \DeclareRobustCommand\leftline[1]{\ifhmode\if@RTL\bidi@orig@rightline{#1}\else\bidi@orig@le
26335 \DeclareRobustCommand\rightline[1]{\ifhmode\if@RTL\bidi@orig@leftline{#1}\else\bidi@orig@ri
26336 \DeclareRobustCommand\bidirlap[1]{\hb@xt@0\z@{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
26337 \DeclareRobustCommand\bidillap[1]{\hb@xt@0\z@{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
26338 \def\@hangfrom#1{\setbox\@tempboxa\hbox{#1}}%
26339     \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
26340 \def\narrower{%
26341     \advance\if@RTL\rightskip\else\leftskip\fi\parindent
26342     \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
26343 \DeclareRobustCommand\underline[1]{%
26344     \relax
26345     \ifmode\@@underline{#1}%
26346     \else
26347     \if@RTL $\@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
26348     \else
26349     $\@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
26350 \if@compatibility
26351     \let\undertext=\underline
26352 \fi
26353 \def\@tabular{%

```



```

26354 \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
26355 $\let\@acol\@tabacol
26356 \let\@classz\@tabclassz
26357 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
26358 \def\endtabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
26359 \egroup $\if@RTLtab\endR\fi\egroup}
26360 \expandafter \let \csname endtabular*\endcsname = \endtabular
26361 \def\@array[#1]#2{%
26362 \if #1t\top \else \if#1b\bottom \else \vcenter \fi\fi
26363 \bgroup
26364 \setbox\@arstrutbox\hbox{%
26365 \vrule \height\arraystretch\ht\strutbox
26366 \depth\arraystretch \dp\strutbox
26367 \width\z@}%
26368 \mkpream{#2}%
26369 \edef\@preamble{%
26370 \ialign \noexpand\@halignto
26371 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
26372 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
26373 \let\@tabularnewline\\
26374 \let\par\@empty
26375 \let\@sharp##%
26376 \set@typeset@protect
26377 \lineskip\z@skip\baselineskip\z@skip
26378 \ifhmode \@preamerr\z@ \@@par\fi
26379 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\top \else \bottom \fi\bgroup\fi
26380 \@preamble}
26381 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
26382 \let\@classiv\@arrayclassiv
26383 \let\\\@arraycr\let\@halignto\@empty\@RTLtabfalse\@tabarray}
26384 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
26385 \ifnum \@lastchclass=3 5 \else
26386 \z@ \if #1c\@chnum \z@ \else
26387 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
26388 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
26389 \@chclass \if #1|\@ne \else
26390 \if #1@ \tw@ \else
26391 \if #1p3 \else \z@ \@preamerr 0\fi
26392 \fi \fi \fi \fi \fi \fi
26393 \fi}
26394 \def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
26395 \def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
26396 \def\bm@t{\unhbox\@tempboxa\hss}
26397 \def\bm@b{\hss\unhbox\@tempboxa}
26398 \def\@dottedtocline#1#2#3#4#5{%
26399 \ifnum #1>\c@tocdepth \else
26400 \vskip \z@ \@plus.2\p@
26401 {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrm
26402 \parindent #2\relax\@afterindenttrue
26403 \interlinepenalty\@M
26404 \leavevmode
26405 \@tempdima #3\relax
26406 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
26407 {#4}\nobreak

```



```

26408 \leaders\hbox{$\m@th
26409 \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
26410 mu$}\hfill
26411 \nobreak
26412 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
26413 \par}%
26414 \fi}
26415
26416 \newcount\ bidi@column@check@number
26417
26418 \def\ bidi@column@status#1{\gdef\ bidi@current@column@status{#1}}
26419
26420 \def\ bidi@set@column@status#1#2{%
26421 \global\expandafter\let\csname #1\endcsname\ bidi@current@column@status}
26422
26423 \if@twocolumn
26424 \newcommand\DetectColumn[3][1]{%
26425 \ifx\ bidi@firstcolumn@status@write\relax
26426 \PackageError{bidi}%
26427 {Option 'DetectColumn' not selected}%
26428 {\string\DetectColumn\space
26429 requires the use of the 'DetectColumn'
26430 option on the package}%
26431 \fi
26432 \global\advance\ bidi@column@check@number\@ne
26433 \edef\ bidi@column@type{\expandafter\ifx
26434 \csname bidi@column-\the\ bidi@column@check@number\endcsname\relax
26435 0\else
26436 \csname bidi@column-\the\ bidi@column@check@number\endcsname
26437 \fi}%
26438 \ifcase \ bidi@column@type\relax
26439 \ifcase #1\or #2\or #3\fi % 0 not known use first column as default
26440 \or
26441 #2% % 1 First column
26442 \or
26443 #3% % 2 Second (Last column)
26444 \else
26445 \ERROR
26446 \fi
26447 \edef\next{\write\@auxout
26448 {\string\ bidi@set@column@status{\ bidi@column-\the\ bidi@column@check@number}%
26449 {\ bidi@column@type}}}%
26450 \next
26451 }
26452
26453 \AtEndDocument{\def\ bidi@set@column@status#1#2{%
26454 \ifnum #2=\ bidi@current@column@status\else
26455 \@tempwatrue
26456 \fi}%
26457 }
26458 \fi
26459
26460 \def\RTL@outputdblcol{%
26461 \if@firstcolumn

```





```

26462 \global\@firstcolumnfalse
26463 \global\setbox\@leftcolumn\copy\@outputbox
26464 \splitmaxdepth\maxdimen
26465 \vbadness\maxdimen
26466 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
26467 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
26468 \toks@\expandafter{\topmark}%
26469 \xdef\@firstcoltopmark{\the\toks@}%
26470 \toks@\expandafter{\splitfirstmark}%
26471 \xdef\@firstcolfirstmark{\the\toks@}%
26472 \ifx\@firstcolfirstmark\@empty
26473 \global\let\@setmarks\relax
26474 \else
26475 \gdef\@setmarks{%
26476 \let\firstmark\@firstcolfirstmark
26477 \let\topmark\@firstcoltopmark}%
26478 \fi
26479 \else
26480 \global\@firstcolumntrue
26481 \setbox\@outputbox\vbox{%
26482 \hb@xt@\textwidth{%
26483 \hskip \columnwidth
26484 \hfil
26485 {\normalcolor\vrule \columnseprule}%
26486 \hfil
26487 \hb@xt@\columnwidth{%
26488 \bidi@firstcolumn@status@write%
26489 \box\@leftcolumn \hss}%
26490 \hskip -\textwidth
26491 \hb@xt@\columnwidth{%
26492 \bidi@lastcolumn@status@write%
26493 \box\@outputbox \hss}%
26494 \hskip \columnsep
26495 \hskip \columnwidth }}%
26496 \@combinedblfloats
26497 \@setmarks
26498 \@outputpage
26499 \begingroup
26500 \@dblfloatplacement
26501 \@startdblcolumn
26502 \@whiles\if@fcolmade \fi{\@outputpage
26503 \@startdblcolumn}%
26504 \endgroup
26505 \fi}%
26506
26507 \def\LTR@outputdblcol{%
26508 \if@firstcolumn
26509 \global\@firstcolumnfalse
26510 \global\setbox\@leftcolumn\copy\@outputbox
26511 \splitmaxdepth\maxdimen
26512 \vbadness\maxdimen
26513 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
26514 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
26515 \toks@\expandafter{\topmark}%

```



```

26516 \xdef\@firstcoltopmark{\the\toks@}%
26517 \toks@\expandafter{\splitfirstmark}%
26518 \xdef\@firstcolfirstmark{\the\toks@}%
26519 \ifx\@firstcolfirstmark\@empty
26520 \global\let\@setmarks\relax
26521 \else
26522 \gdef\@setmarks{%
26523 \let\firstmark\@firstcolfirstmark
26524 \let\topmark\@firstcoltopmark}%
26525 \fi
26526 \else
26527 \global\@firstcolumntrue
26528 \setbox\@outputbox\vbox{%
26529 \hb@xt@\textwidth{%
26530 \hb@xt@\columnwidth{%
26531 \bidi@firstcolumn@status@write%
26532 \box\@leftcolumn \hss}%
26533 \hfil
26534 {\normalcolor\vrule \@width\columnseprule}%
26535 \hfil
26536 \hb@xt@\columnwidth{%
26537 \bidi@lastcolumn@status@write%
26538 \box\@outputbox \hss}}}%
26539 \@combinedblfloats
26540 \@setmarks
26541 \@outputpage
26542 \begingroup
26543 \@dblfloatplacement
26544 \@startdblcolumn
26545 \@whiles\if@fcolmade \fi{\@outputpage
26546 \@startdblcolumn}%
26547 \endgroup
26548 \fi}%
26549
26550
26551 \renewcommand{\@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
26552 \newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
26553 \newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
26554
26555 \bidi@patchcmd\@makecol{%
26556 \ifvoid\footins
26557 \setbox\@outputbox \box\@cclv
26558 \else
26559 \setbox\@outputbox \vbox {%
26560 \boxmaxdepth \@maxdepth
26561 \unvbox \@cclv
26562 \vskip \skip\footins
26563 \color@begingroup
26564 \normalcolor
26565 \footnoterule
26566 \unvbox \footins
26567 \color@endgroup
26568 }%
26569 \fi

```



```

26570 }{%
26571   \ifvoid\footins
26572     \ifvoid\@bidi@copyins@
26573       \setbox\@outputbox \box\@cclv
26574     \else
26575       \setbox\@outputbox \vbox {%
26576         \boxmaxdepth \@maxdepth
26577         \unvbox \@cclv
26578         \vskip \skip\@bidi@copyins@
26579         \color@begingroup
26580         \normalcolor
26581         \unvbox \@bidi@copyins@
26582         \color@endgroup
26583       }%
26584   \fi
26585 \else
26586   \setbox\@outputbox \vbox {%
26587     \boxmaxdepth \@maxdepth
26588     \unvbox \@cclv
26589     \vskip \skip\footins
26590     \color@begingroup
26591     \normalcolor
26592     \footnoterule
26593     \unvbox \footins
26594     \color@endgroup
26595     \ifvoid\@bidi@copyins@
26596     \else
26597       \vskip \skip\@bidi@copyins@
26598       \color@begingroup
26599       \normalcolor
26600       \unvbox \@bidi@copyins@
26601       \color@endgroup
26602     \fi
26603   }%
26604 \fi
26605 }{}{}
26606
26607 \def\LTRmarginpar{%
26608   \ifhmode
26609     \@bsphack
26610     \@floatpenalty -\@Mii
26611   \else
26612     \@floatpenalty-\@Miii
26613   \fi
26614   \ifinner
26615     \@parmoderr
26616     \@floatpenalty\z@
26617   \else
26618     \@next\@currbox\@freelist{}{}%
26619     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
26620     {\@floatpenalty\z@
26621       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
26622   \fi
26623   \@ifnextchar [\@LTRxmpar\@LTRympar}

```



```

26624 \long\def\@LTRxmpar[#1]#2{%
26625   \@LTRsavemarbox\@marbox{#1}%
26626   \@LTRsavemarbox\@currbox{#2}%
26627   \@xympar}
26628 \long\def\@LTRympar#1{%
26629   \@LTRsavemarbox\@marbox{#1}%
26630   \global\setbox\@currbox\copy\@marbox
26631   \@xympar}
26632 \long\def \@LTRsavemarbox #1#2{%
26633   \global\setbox #1%
26634     \color@vbox
26635     \vtop{%
26636       \hsize\marginparwidth
26637       \@parboxrestore
26638       \@LTRmarginparreset
26639       #2%
26640       \@minipagefalse
26641       \outer@nobreak
26642     }%
26643   \color@endbox
26644 }
26645 \def \@LTRmarginparreset {%
26646   \reset@font
26647   \normalsize
26648   \@minipagetrue
26649   \everypar{\@minipagefalse\everypar{}\beginL}%
26650 }
26651 \def\RTLmarginpar{%
26652   \ifhmode
26653     \@bsphack
26654     \@floatpenalty -\@Mii
26655   \else
26656     \@floatpenalty-\@Miii
26657   \fi
26658   \ifinner
26659     \@parmoderr
26660     \@floatpenalty\z@
26661   \else
26662     \@next\@currbox\@freelist{}{}%
26663     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
26664     {\@floatpenalty\z@
26665       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
26666   \fi
26667   \@ifnextchar [\@RTLxmpar\@RTLympar}
26668 \long\def\@RTLxmpar[#1]#2{%
26669   \@RTLSavemarbox\@marbox{#1}%
26670   \@RTLSavemarbox\@currbox{#2}%
26671   \@xympar}
26672 \long\def\@RTLympar#1{%
26673   \@RTLSavemarbox\@marbox{#1}%
26674   \global\setbox\@currbox\copy\@marbox
26675   \@xympar}
26676 \long\def \@RTLSavemarbox #1#2{%
26677   \global\setbox #1%

```



```

26678 \color@vbox
26679 \vtop{%
26680 \hsize\marginparwidth
26681 \@parboxrestore
26682 \@RTLmarginparreset
26683 #2%
26684 \@minipagefalse
26685 \outer@nobreak
26686 }%
26687 \color@endbox
26688 }
26689 \def \@RTLmarginparreset {%
26690 \reset@font
26691 \normalsize
26692 \@minipagetrue
26693 \everypar{\@minipagefalse\everypar{}\beginR}%
26694 }
26695 \def \@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
26696 \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
26697 \if@twocolumn
26698 \if@firstcolumn \@tempcnta\m@ne \fi
26699 \else
26700 \if@mparswitch
26701 \ifodd\c@page \else\@tempcnta\m@ne \fi
26702 \fi
26703 \if@reversemargin \@tempcnta -\@tempcnta \fi
26704 \fi
26705 \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
26706 \@tempdima\@mparbottom
26707 \advance\@tempdima -\@pageht
26708 \advance\@tempdima\ht\@marbox
26709 \ifdim\@tempdima >\z@
26710 \@latex@warning@no@line {Marginpar on page \thepage\space moved}%
26711 \else
26712 \@tempdima\z@
26713 \fi
26714 \global\@mparbottom\@pageht
26715 \global\advance\@mparbottom\@tempdima
26716 \global\advance\@mparbottom\dp\@marbox
26717 \global\advance\@mparbottom\marginparpush
26718 \advance\@tempdima -\ht\@marbox
26719 \global\setbox \@marbox
26720 \vbox {\vskip \@tempdima
26721 \box \@marbox}%
26722 \global \ht\@marbox \z@
26723 \global \dp\@marbox \z@
26724 \kern -\@pagedp
26725 \nointerlineskip
26726 \hb@xt@\columnwidth
26727 {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL\fi
26728 \hskip\columnwidth \hskip\marginparsep
26729 \else
26730 \hskip -\marginparsep \hskip -\marginparwidth
26731 \fi

```



```

26732      \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@LTRmarginpar\endR
26733      \nointerlineskip
26734      \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}}
26735 \long\def\@ympar#1{%
26736   \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@LTRmargin
26737   \global\setbox\@currbox\copy\@marbox
26738   \@xympar}
26739 \def\setRTLmarginpar{\@LTRmarginpartrue\@LTRmarginparfalse}
26740 \def\setLTRmarginpar{\@LTRmarginpartrue\@LTRmarginparfalse}
26741 \def\setdefaultmarginpar{\@LTRmarginparfalse\@LTRmarginparfalse}
26742 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
26743   \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
26744   \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
26745   \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
26746   \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
26747   \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}%
26748 \fi}
26749
26750 \newcommand*{\bidi@font@outputpage}{%
26751
26752 \def\@outputpage{%
26753   \begingroup           % the \endgroup is put in by \aftergroup
26754   \let \protect \noexpand
26755   \@resetactivechars
26756   \global\let\@if@newlist\if@newlist
26757   \global\@newlistfalse
26758   \@parboxrestore
26759   \global\let\bidi@BeforeOutputPageShipOut\@firstofone
26760   \bidi@beforeoutputpageshipouthook
26761   \shipout \vbox{%
26762     \set@typeset@protect
26763     \aftergroup \endgroup
26764     \aftergroup \set@typeset@protect
26765                                     % correct? or just restore by ending
26766                                     % the group?
26767   \if@specialpage
26768     \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
26769   \fi
26770   \if@twoside
26771     \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
26772     \if@RTLmain
26773       \let\@themargin\evensidemargin
26774     \else
26775       \let\@themargin\oddsidemargin
26776     \fi
26777   \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
26778     \if@RTLmain
26779       \let\@themargin\oddsidemargin
26780     \else
26781       \let\@themargin\evensidemargin
26782     \fi
26783   \fi
26784   \ifx\@thehead\@empty \let\@thehead\hfil \fi
26785   \ifx\@thefoot\@empty \let\@thefoot\hfil \fi

```



```

26786 \else %% not @twoside
26787 \ifx\@oddhead\@empty \let\@thehead\hfil \fi
26788 \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
26789 \fi
26790 \reset@font
26791 \normalsize
26792 \bidi@font@@outputpage
26793 \normalsfcodes
26794 \let\label\@gobble
26795 \let\index\@gobble
26796 \let\glossary\@gobble
26797 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
26798 \@begindivi
26799 \vskip \topmargin
26800 \moveright\@themargin \vbox {%
26801 \global\let\@bidi@BeforeHeader\@firstofone
26802 \bidi@beforeheaderhook
26803 \setbox\@tempboxa \vbox to\headheight{%
26804 \vfil
26805 \color@hbox
26806 \normalcolor
26807 \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\i
26808 \color@endbox
26809 }%
26810 \dp\@tempboxa \z@
26811 \box\@tempboxa
26812 \vskip \headsep
26813 \global\let\@bidi@BeforeOutputBoxOutputPage\@firstofone
26814 \bidi@beforeoutputboxoutputpagehook
26815 \box\@outputbox
26816 \global\let\@bidi@AfterOutputBoxOutputPage\@firstofone
26817 \bidi@afteroutputboxoutputpagehook
26818 \global\let\@bidi@BeforeFooter\@firstofone
26819 \bidi@beforefooterhook
26820 \baselineskip \footskip
26821 \color@hbox
26822 \normalcolor
26823 \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\if@
26824 \color@endbox
26825 \global\let\@bidi@AfterFooter\@firstofone
26826 \bidi@afterfooterhook
26827 }%
26828 }%
26829 \global\let\@bidi@AfterOutputPageShipOut\@firstofone
26830 \bidi@afteroutputpageshipouthook
26831 \global\let\if@newlist\@if@newlist
26832 \global \colht \textheight
26833 \stepcounter{page}%
26834 \let\firstmark\botmark
26835 \global\let\@bidi@AtEndOutputPage\@firstofone
26836 \bidi@atendoutputpagehook
26837 }
26838 \long\def\@makecaption#1#2{%
26839 \vskip\abovecaptionskip

```



```

26840 \sbox\@tempboxa{#1: #2}%
26841 \ifdim \wd\@tempboxa >\hsize
26842 \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
26843 \else
26844 \global \@minipagefalse
26845 \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
26846 \fi
26847 \vskip\belowcaptionskip}
26848 \let\@bidi@sav@eqno=\eqno
26849 \let\@bidi@sav@leqno=\leqno
26850 \def\eqno{\ifnum\predisplaydirection<\z@ \@bidi@sav@leqno \else \@bidi@sav@eqno \fi}
26851 \def\leqno{\ifnum\predisplaydirection<\z@ \@bidi@sav@eqno \else \@bidi@sav@leqno \fi}
26852 \@ifpackageloaded{amsmath}{%
26853 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
26854 }
26855 \input{footnote-xetex-bidi.def}
26856 \if@twocolumn
26857 \let\autofootnoterule\relax
26858 \let\leftfootnoterule\relax
26859 \let\rightfootnoterule\relax
26860 \textwidthfootnoterule
26861 \fi
26862 \if@bidi@csundef{@idxitem}{%
26863 \renewcommand{@idxitem}{\par\hangindent \if@RTL-\fi40\p@}%
26864 }
26865 \@ifpackageloaded{tocbasic}{\input{tocbasic-xetex-bidi.def}}{}
26866 \@ifclassloaded{article}{\@ifclassloaded{svmult}}{\input{article-xetex-bidi.def}}{}
26867 \@ifclassloaded{extarticle}{\input{extarticle-xetex-bidi.def}}{}
26868 \@ifclassloaded{artikel1}{\input{artikel1-xetex-bidi.def}}{}
26869 \@ifclassloaded{artikel2}{\input{artikel2-xetex-bidi.def}}{}
26870 \@ifclassloaded{artikel3}{\input{artikel3-xetex-bidi.def}}{}
26871 \@ifclassloaded{amsart}{\input{amsart-xetex-bidi.def}}{}
26872 \@ifclassloaded{beamer}{\input{beamer-xetex-bidi.def}}{}
26873 \@ifclassloaded{letter}{\input{letter-xetex-bidi.def}}{}
26874 \@ifclassloaded{extletter}{\input{extletter-xetex-bidi.def}}{}
26875 \@ifclassloaded{memoir}{\input{memoir-xetex-bidi.def}}{}
26876 \@ifclassloaded{refrep}{\input{refrep-xetex-bidi.def}}{}
26877 \@ifclassloaded{extreport}{\input{extreport-xetex-bidi.def}}{}
26878 \@ifclassloaded{report}{\@ifpackageloaded{flowfram}}{\input{report-xetex-bidi.def}}{}
26879 \@ifclassloaded{rapport1}{\input{rapport1-xetex-bidi.def}}{}
26880 \@ifclassloaded{rapport3}{\input{rapport3-xetex-bidi.def}}{}
26881 \@ifclassloaded{scrartcl}{\input{scrartcl-xetex-bidi.def}}{}
26882 \@ifclassloaded{scrbook}{\input{scrbook-xetex-bidi.def}}{}
26883 \@ifclassloaded{scrreprt}{\input{scrreprt-xetex-bidi.def}}{}
26884 \@ifclassloaded{amsbook}{\input{amsbook-xetex-bidi.def}}{}
26885 \@ifclassloaded{extbook}{\input{extbook-xetex-bidi.def}}{}
26886 \@ifclassloaded{boek}{\input{boek-xetex-bidi.def}}{}
26887 \@ifclassloaded{boek3}{\input{boek3-xetex-bidi.def}}{}
26888 \@ifclassloaded{book}{\@ifpackageloaded{flowfram}}{\input{book-xetex-bidi.def}}{}
26889 \@ifclassloaded{bookest}{\input{bookest-xetex-bidi.def}}{}
26890 \@ifclassloaded{combine}{\input{combine-xetex-bidi.def}}{}
26891 \@ifclassloaded{imsproc}{\input{imsproc-xetex-bidi.def}}{}
26892 \@ifpackageloaded{amsmath}{%
26893 \@iftagsloaded{leqno}{\input{leqno-xetex-bidi.def}}{}

```





```

26894 \@iftagsloaded{fleqn}{\input{fleqn-xetex-bidi.def}}{}
26895 }
26896 \@ifpackageloaded{mathtools}{%
26897   \RequirePackage{graphicx}%
26898   \input{mathtools-xetex-bidi.def}%
26899 }{}
26900 \@ifpackageloaded{crop}{\RequirePackage{graphicx}}{}
26901 \@ifpackageloaded{lscape}{\RequirePackage{graphicx}}{}
26902 \@ifpackageloaded{sidecap}{\RequirePackage{ragged2e}}{}
26903 \@ifpackageloaded{floatrow}{\RequirePackage{color}}{}
26904 \@ifpackageloaded{algorithm2e}{\input{algorithm2e-xetex-bidi.def}}{}
26905 \@ifpackagewith{algorithm2e}{algonl}{%
26906   \renewcommand{\theAlgoLine}{\expandafter\csname the\algocf@float\endcsname\@SepMark\arabic{
26907 }{}
26908 \@ifpackagewith{algorithm2e}{algotpart}{\renewcommand{\algocf@within}{part}}{}
26909 \@ifpackagewith{algorithm2e}{algotchapter}{\renewcommand{\algocf@within}{chapter}}{}
26910 \@ifpackagewith{algorithm2e}{algotsection}{\renewcommand{\algocf@within}{section}}{}
26911 \@ifpackageloaded{amsmath}{\input{amsmath-xetex-bidi.def}}{}
26912 \@ifpackageloaded{amstext}{\input{amstext-xetex-bidi.def}}{}
26913 \@ifpackageloaded{amsthm}{\input{amsthm-xetex-bidi.def}}{}
26914 \@ifpackageloaded{breqn}{\input{breqn-xetex-bidi.def}}{}
26915 \@ifpackageloaded{cals}{\input{cals-xetex-bidi.def}}{}
26916 \@ifpackageloaded{caption}{\input{caption-xetex-bidi.def}}{}
26917 \@ifpackageloaded{caption3}{\input{caption3-xetex-bidi.def}}{}
26918 \@ifpackageloaded{floatrow}{\input{floatrow-xetex-bidi.def}}{}
26919 \@ifpackageloaded{crop}{\@ifclassloaded{memoir}{}{\input{crop-xetex-bidi.def}}{}{}
26920 \@ifpackageloaded{color}{\input{color-xetex-bidi.def}}{}{}
26921 \@ifpackageloaded{cutwin}{\input{cutwin-xetex-bidi.def}}{}{}
26922 \@ifpackageloaded{cuted}{\input{cuted-xetex-bidi.def}}{}{}
26923 \@ifpackageloaded{xcolor}{\input{xcolor-xetex-bidi.def}}{}{}
26924 \@ifpackageloaded{colortbl}{\input{colortbl-xetex-bidi.def}}{}{}
26925 \@ifpackageloaded{float}{\@ifpackageloaded{floatrow}{}{\input{float-xetex-bidi.def}}{}{}
26926 \@ifpackageloaded{flowfram}{\input{flowfram-xetex-bidi.def}}{}{}
26927 \@ifpackageloaded{xltextra}{\input{xltextra-xetex-bidi.def}}{}{}
26928 \@ifpackageloaded{wrapfig}{\input{wrapfig-xetex-bidi.def}}{}{}
26929 \@ifpackageloaded{graphicx}{\input{graphicx-xetex-bidi.def}}{}{}
26930 \@ifpackageloaded{geometry}{\input{geometry-xetex-bidi.def}}{}{}
26931 \@ifpackageloaded{hvfloat}{\input{hvfloat-xetex-bidi.def}}{}{}
26932 \@ifpackageloaded{ntheorem}{\input{ntheorem-xetex-bidi.def}}{}{}
26933 \@ifpackageloaded{tabularx}{\input{tabularx-xetex-bidi.def}}{}{}
26934 \@ifpackageloaded{longtable}{\input{longtable-xetex-bidi.def}}{}{}
26935 \@ifpackageloaded{lscape}{\input{lscape-xetex-bidi.def}}{}{}
26936 \@ifpackageloaded{hyperref}{\input{hyperref-xetex-bidi.def}}{}{}
26937 \@ifpackageloaded{footnotebackref}{\input{footnotebackref-xetex-bidi.def}}{}{}
26938 \@ifpackageloaded{ntheorem-hyper}{\input{ntheorem-hyper-xetex-bidi.def}}{}{}
26939 \@ifpackageloaded{fancybox}{\input{fancybox-xetex-bidi.def}}{}{}
26940 \@ifpackageloaded{fancyhdr}{\input{fancyhdr-xetex-bidi.def}}{}{}
26941 \@ifpackageloaded{fix2col}{\input{fix2col-xetex-bidi.def}}{}{}
26942 \@ifpackageloaded{ftnright}{\input{ftnright-xetex-bidi.def}}{}{}
26943 \@ifpackageloaded{midfloat}{\input{midfloat-xetex-bidi.def}}{}{}
26944 \@ifpackageloaded{draftwatermark}{\input{draftwatermark-xetex-bidi.def}}{}{}
26945 \@ifpackageloaded{dblfnote}{\input{dblfnote-xetex-bidi.def}}{}{}
26946 \@ifpackageloaded{diagbox}{\input{diagbox-xetex-bidi.def}}{}{}
26947 \@ifpackageloaded{eso-pic}{\input{eso-pic-xetex-bidi.def}}{}{}

```



```

26948 \@ifpackageloaded{empheq}{\input{empheq-xetex-bidi.def}}{}
26949 \@ifpackageloaded{framed}{\input{framed-xetex-bidi.def}}{}
26950 \@ifpackageloaded{overpic}{\input{overpic-xetex-bidi.def}}{}
26951 \@ifpackageloaded{pdffbase}{\input{pdffbase-xetex-bidi.def}}{}
26952 \@ifpackageloaded{pdflscape}{\input{pdflscape-xetex-bidi.def}}{}
26953 \@ifpackageloaded{pdfpages}{\input{pdfpages-xetex-bidi.def}}{}
26954 \@ifpackageloaded{lettrine}{\input{lettrine-xetex-bidi.def}}{}
26955 \@ifpackageloaded{lineno}{\input{lineno-xetex-bidi.def}}{}
26956 \@ifpackageloaded{listings}{\input{listings-xetex-bidi.def}}{}
26957 \@ifpackageloaded{media9}{\RequirePackage{bidi-media9}}{}
26958 \@iftexfileloaded{pstricks}{\input{pstricks-xetex-bidi.def}}{}
26959 \@iftexfileloaded{pgfcorescopes.code}{\input{pgfcorescopes.code-xetex-bidi.def}}{}
26960 \@ifpackageloaded{titlesec}{\input{titlesec-xetex-bidi.def}}{}
26961 \@ifpackageloaded{titletoc}{\input{titletoc-xetex-bidi.def}}{}
26962 \@ifpackageloaded{array}{\input{array-xetex-bidi.def}}{}
26963 \@ifpackageloaded{sidecap}{\input{sidecap-xetex-bidi.def}}{}
26964 \@ifpackagewith{sidecap}{innercaption}{%
26965 \if@RTL \renewcommand*{\SC@FLOAT}[2]{%
26966 \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}
26967 \renewcommand*{\SC@justify@caption}{%
26968 \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else
26969 \renewcommand*{\SC@FLOAT}[2]{%
26970 \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}
26971 \renewcommand*{\SC@justify@caption}{%
26972 \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi
26973 }{}
26974 \@ifpackagewith{sidecap}{rightcaption}{%
26975 \if@RTL\renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
26976 \def\SC@justify@caption{\RaggedLeft}\else%
26977 \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
26978 \def\SC@justify@caption{\RaggedRight}\fi%
26979 }{}
26980 \@ifpackagewith{sidecap}{leftcaption}{%
26981 \if@RTL \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
26982 \def\SC@justify@caption{\RaggedRight}\else%
26983 \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
26984 \def\SC@justify@caption{\RaggedLeft}\fi%
26985 }{}
26986 \@ifpackageloaded{soul}{\input{soul-xetex-bidi.def}}{}
26987 \@ifpackageloaded{stabular}{\input{stabular-xetex-bidi.def}}{}
26988 \@ifpackageloaded{subfigure}{\input{subfigure-xetex-bidi.def}}{}
26989 \@ifpackageloaded{arydshln}{\input{arydshln-xetex-bidi.def}}{}
26990 \@ifpackageloaded{mdframed}{\input{mdframed-xetex-bidi.def}}{}
26991 \@ifpackageloaded{multicol}{\input{multicol-xetex-bidi.def}}{}
26992 \@ifpackageloaded{adjmulticol}{\input{adjmulticol-xetex-bidi.def}}{}
26993 \@ifpackageloaded{multienum}{\input{multienum-xetex-bidi.def}}{}
26994 \@ifpackageloaded{natbib}{\input{natbib-xetex-bidi.def}}{}
26995 \@ifpackageloaded{newfloat}{\input{newfloat-xetex-bidi.def}}{}
26996 \@ifpackageloaded{nicematrix}{\input{nicematrix-xetex-bidi.def}}{}
26997 \@ifpackageloaded{minitoc}{\input{minitoc-xetex-bidi.def}}{}
26998 \@ifpackageloaded{pgfsys}{\input{pgfsys.code-xetex-bidi.def}}{}
26999 \@ifpackageloaded{picinpar}{\input{picinpar-xetex-bidi.def}}{}
27000 \@ifpackageloaded{quotchap}{\input{quotchap-xetex-bidi.def}}{}
27001 \@ifpackageloaded{ragged2e}{\input{ragged2e-xetex-bidi.def}}{}

```



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27002 \@ifpackageloaded{rotating}{\input{rotating-xetex-bidi.def}}{}
27003 \@ifpackageloaded{tabls}{\input{tabls-xetex-bidi.def}}{}
27004 \@ifpackageloaded{tabulary}{\input{tabulary-xetex-bidi.def}}{}
27005 \@ifpackageloaded{tcolorbox}{\input{tcolorbox-xetex-bidi.def}}{}
27006 \@ifpackageloaded{tocstyle}{\input{tocstyle-xetex-bidi.def}}{}
27007 \@ifpackageloaded{tocbibind}{\@ifclassloaded{memoir}{}{\input{tocbibind-xetex-bidi.def}}{}{}}
27008 \@ifpackageloaded{tocloft}{\@ifclassloaded{memoir}{}{\input{tocloft-xetex-bidi.def}}{}{}}
27009 \@ifdefinitionfileloaded{tc-xetex}{\input{tc-xetex-bidi.def}}{}
27010 \@ifpackageloaded{todonotes}{\input{todonotes-xetex-bidi.def}}{}
27011 \@ifpackageloaded{beamerbaseauxtemplates}{\input{beamerbaseauxtemplates-xetex-bidi.def}}{}
27012 \@ifpackageloaded{beamerbaseboxes}{\input{beamerbaseboxes-xetex-bidi.def}}{}
27013 \@ifpackageloaded{beamerbasecolor}{\input{beamerbasecolor-xetex-bidi.def}}{}
27014 \@ifpackageloaded{beamerbasecompatibility}{\input{beamerbasecompatibility-xetex-bidi.def}}{}
27015 \@ifpackageloaded{beamerbaseframecomponents}{\input{beamerbaseframecomponents-xetex-bidi.def}}{}
27016 \@ifpackageloaded{beamerbaseframesize}{\input{beamerbaseframesize-xetex-bidi.def}}{}
27017 \@ifpackageloaded{beamerbaselocalstructure}{\input{beamerbaselocalstructure-xetex-bidi.def}}{}
27018 \@ifpackageloaded{beamerbasemisc}{\input{beamerbasemisc-xetex-bidi.def}}{}
27019 \@ifpackageloaded{beamerbasenavigation}{\input{beamerbasenavigation-xetex-bidi.def}}{}
27020 \@ifpackageloaded{beamerbaseoverlay}{\input{beamerbaseoverlay-xetex-bidi.def}}{}
27021 \@ifpackageloaded{beamerinnerthemedefault}{\input{beamerinnerthemedefault-xetex-bidi.def}}{}
27022 \@ifpackageloaded{beamerinnerthemecircles}{\input{beamerinnerthemecircles-xetex-bidi.def}}{}
27023 \@ifpackageloaded{beamerinnerthemefocus}{\input{beamerinnerthemefocus-xetex-bidi.def}}{}
27024 \@ifpackageloaded{beamerinnerthemeinmargin}{\input{beamerinnerthemeinmargin-xetex-bidi.def}}{}
27025 \@ifpackageloaded{beamerinnerthememetropolis}{\input{beamerinnerthememetropolis-xetex-bidi.def}}{}
27026 \@ifpackageloaded{beamerinnerthemerectangles}{\input{beamerinnerthemerectangles-xetex-bidi.def}}{}
27027 \@ifpackageloaded{beamerinnerthemerrounded}{\input{beamerinnerthemerrounded-xetex-bidi.def}}{}
27028 \@ifpackageloaded{beamerouterthemedefault}{\input{beamerouterthemedefault-xetex-bidi.def}}{}
27029 \@ifpackageloaded{beamerouterthemefocus}{\input{beamerouterthemefocus-xetex-bidi.def}}{}
27030 \@ifpackageloaded{beamerouterthemeinfolines}{\input{beamerouterthemeinfolines-xetex-bidi.def}}{}
27031 \@ifpackageloaded{beamerouterthememetropolis}{\input{beamerouterthememetropolis-xetex-bidi.def}}{}
27032 \@ifpackageloaded{beamerouterthememiniframes}{\input{beamerouterthememiniframes-xetex-bidi.def}}{}
27033 \@ifpackageloaded{beamerouterthemesidebar}{\input{beamerouterthemesidebar-xetex-bidi.def}}{}
27034 \@ifpackageloaded{beamerouterthemesplit}{\input{beamerouterthemesplit-xetex-bidi.def}}{}
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27036 \@ifpackageloaded{beamerouterthesmoothbars}{\input{beamerouterthesmoothbars-xetex-bidi.def}}{}
27037 \@ifpackageloaded{beamerouterthesmoothtree}{\input{beamerouterthesmoothtree-xetex-bidi.def}}{}
27038 \@ifpackageloaded{beamerouterthemetree}{\input{beamerouterthemetree-xetex-bidi.def}}{}
27039 \@ifpackageloaded{beamerthemeHannover}{\input{beamerthemeHannover-xetex-bidi.def}}{}
27040 \@ifpackageloaded{beamerthemeSingapore}{\input{beamerthemeSingapore-xetex-bidi.def}}{}

```

## 163 File xltextra-xetex-bidi.def

```

27041 \ProvidesFile{xltextra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltextra package]
27042 \let\@XeTeX\XeTeX
27043 \def\XeTeX{\@ensure@LTR{\@XeTeX}}
27044 \let\@XeLaTeX\XeLaTeX
27045 \def\XeLaTeX{\@ensure@LTR{\@XeLaTeX}}

```

