The latex-lab-minipage package
Changes related to the tagging of minipage and parbox

LaTeX Project*

v0.81 2023/05/10

Abstract

1 Introduction

How to tag minipages and parboxes is still under discussion. But as they start and contain paragraphs it is clear that hooks are needed to interrupt and restart the tagging.

The tagging added is currently quite simple minded. See the todo-testfiles and the code comments for some open points.

```
1 ⟨*package⟩
```

2 Implementation

```
2 \ProvidesExplPackage {latex-lab-testphase-minipage} {2023-05-10} {0.81}
3   {Code related to the tagging of minipages and parboxes}
```

2.1 Provide the kernel hooks

[kernel?] We need to check/set the status before the initial `\leavevmode` to decide how to handle the structure. Perhaps the same command will work for both?

```
4 \def\@kernel@init@minipage{}
5 \def\@kernel@init@parbox{}
```

We need a few hooks.

```
6 \def\@kernel@before@minipage{}
7 \def\@kernel@after@minipage{}
8 \def\@kernel@before@parbox{}
9 \def\@kernel@after@parbox{}
```

---

*Initial implementation done by Ulrike Fischer

2.2 Patch minipage

[kernel?] The begin hook is inserted in `\@iiiminipage`

```
10 \def\@iiiminipage#1#2[#3]#4{%
```

Before switching to hmode we insert a hook. It is currently unused but could for example check if we are in vmode and change the following paragraph tag.

```
11   \@kernel@init@minipage
12   \leavevmode
13   \@pboxswfalse
14   \setlength\@tempdima{#4}%
15   \def\@mpargs{{#1}{#2}[#3]{#4}}%
```

insert the hook

```
16   \@kernel@before@minipage% new
17   \setbox\@tempboxa\vbox\bgroup
18     \color@begingroup
19       \hsize\@tempdima
20       \textwidth\hsize \columnwidth\hsize
21       \@parboxrestore
22       \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
23       \let\@footnotetext\@mpfootnotetext
24       \let\@listdepth\@mplistdepth \@mplistdepth\z@
25       \@minipagerestore
26       \@setminipage}
```

And a hook at the end

```
27 \def\endminipage{%
28     \par
29     \unskip
30     \ifvoid\@mpfootins\else
31       \vskip\skip\@mpfootins
32       \normalcolor
33       \footnoterule
34       \unvbox\@mpfootins
35     \fi
36     \@minipagefalse   %% added 24 May 89
37   \color@endgroup
38   \egroup
```

as the parbox command is called, we must prevent that it adds its additional tagging commands:

```
39   \tag_stop:n{minipage}
40   \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}%
41   \tag_start:n{minipage}
42   \@kernel@after@minipage%new end ...
43   }
```

And similar for `\parbox`

```
44 \long\def\@iiiparbox#1#2[#3]#4#5{%
45   \@kernel@init@parbox
46   \leavevmode
47   \@pboxswfalse
48   \setlength\@tempdima{#4}%
49   \@kernel@before@parbox% new
50   \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@@par}%
```

```
51    \ifx\relax#2\else
52      \setlength\@tempdimb{#2}%
53      \edef\@parboxto{to\the\@tempdimb}%
54    \fi
55    \if#1b\vbox
56    \else\if #1t\vtop
57    \else\ifmmode\vcenter
58    \else\@pboxswtrue $\vcenter
59    \fi\fi\fi
60    \@parboxto{\let\hss\vss\let\unhbox\unvbox
61        \csname bm@#3\endcsname}%
62    \if@pboxsw \m@th$\fi
63  \@end@tempboxa%
64  \@kernel@after@parbox%new end
65  }
```

2.3   Tagging commands

```
66  \tl_new:N  \l__ltboxes_tag_tl
67  \tl_set:Nn \l__ltboxes_tag_tl {Div}
68  \cs_set_protected:Npn\@kernel@before@minipage
69    {
```

As there was a `\leavevmode` before that is a P/text open that we have to close.

```
70      \tag_mc_end_push:\tag_struct_end:
```

TODO: the P can be further up, we need a proper method to test and handle this.

```
71      \tag_struct_begin:n{tag=\l__ltboxes_tag_tl}}
72  \cs_set_protected:Npn\@kernel@after@minipage
73    {\tag_struct_end:\tag_struct_begin:n{tag=\l__tag_para_tag_tl}\tag_mc_begin_pop:n{}}
74  \cs_set_protected:Npn\@kernel@before@parbox
75    {\tag_mc_end_push:\tag_struct_end:\tag_struct_begin:n{tag=\l__ltboxes_tag_tl}}
76  \cs_set_protected:Npn\@kernel@after@parbox
77    {\tag_struct_end:\tag_struct_begin:n{tag=\l__tag_para_tag_tl}\tag_mc_begin_pop:n{}}
78  ⟨/package⟩
79  ⟨*latex-lab⟩
80  \ProvidesFile{minipage-latex-lab-testphase.ltx}
81          [2022-10-26 v0.8 code related to the tagging of sectioning commands]
82  \RequirePackage{latex-lab-testphase-minipage}
83  ⟨/latex-lab⟩
```