

Package hvfloat Controlling captions, fullpage and doublepage floats ver 2.43

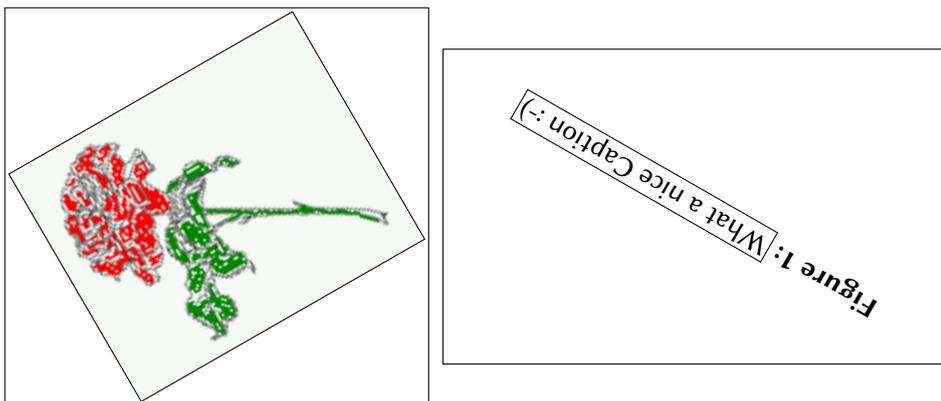
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November 7, 2022

The package hvfloat defines a macro to place objects and captions of floats in different positions with different rotating angles.

All objects and captions are framed on the first pages, which is only for some demonstration here and has no additional sense!

To compare the place of the definition of the floating objects in the source and the output a marginnote `\float` is set into the margin. This is done also only for demonstration!



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Thanks to Karl Berry, Frank Mittelbach, Rolf Niepraschk

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1 The package options

- `fbox` The objects and captions are put into a `\fbox` command, like in this documentation. This doesn't make real sense and is only for some demonstration useful or for locating problems if images seems to have too much whitespace.
- `hyperref` Load package `hyperref`.
- `nostfloats` do not load package `stfloats`.

The length `\belowcaptionskip` is set by \LaTeX to `0pt` and changed in `hvfloa` to the same value than `\abovecaptionskip`. This length can be changed to another value in the usual way with `\setlength` or `\addtolength`.

The following packages are loaded by `hvfloa` and the optional argument `hypcap` is passed to the packages `caption` and `subcaption`:

`caption`, `subcaption`, `atbegshi`, `stfloats`, `floatpag`, `expl3`, `multido`, `graphicx`, `xkeyval`, `ifoddpage`, and `afterpage`.

2 The Macros and optional arguments

The syntax for the macros and `\hvFloatSetDefaults`, `\hvFloatSet`, and `\hvFloat` is

```
\hvFloatSet{key=value list}
\hvFloatSetDefaults
\hvFloat* [Options] + {float type}{floating object} [short caption] {long caption}{label}
```

The star version is explained in section [11 on page 22](#) and [19.2 on page 49](#) and the optional `+` is explained in section [17.3 on page 38](#).

`\hvFloatSet` allows the global setting of keywords and `\hvFloatSetDefaults` sets all keywords to its default value as shown in [Table 2 on the next page](#).

If `\hvFloat` has an empty second parameter `<float type>`, then `\hvFloat` switches by default to a nonfloat (see [table 2](#)) object, which is not important for the user. All other parameters may also be empty and the short caption as second optional parameter missing. This one is as usual the caption for the `\listoffigures`.

There are some more macros defined, more or less for internally use in `hvfloa`, but they can be used for own purposes.

```
\figcaption [short caption text] {caption text}
\tabcaption [short caption text] {caption text}
\tabcaptionbelow [short caption text] {caption text}
```

They are used for the `nonFloat` keyword, where these macros write captions in the same way but outside of a float environment. The default caption cannot be used here. It is no problem to use the `\tabcaption` command to place a caption anywhere, like here in an inlined mode:

Table 1: A Caption without any sense and any object

A label can be put inside the argument or after the command in the usual way, so that a reference to the not existing [table 2](#) is no problem.

```
[...] It is no problem to use the \verb|\tabcaption|
command to place a caption anywhere,
like here in an inlined mode:
\verb|\tabcaption[The Caption without sense ...]%
```

2 The Macros and optional arguments

{A Caption without any sense and any object}\label{dummy} A label can be put inside the argument or after the command in the usual way, so that a reference to the not existing table-\ref{dummy} is no problem.

With the macro `\hvDefFloatStyle` one can define a style which can be used instead of the individual setting:

```
\hvDefFloatStyle{name}{setting}
```

Internally the style is saved in a macro named `\hv@<name>`.

There are the following keywords:

Table 2: The optional keywords for the macro `\hvFloat`

<i>Keyword</i>	<i>Default</i>	<i>Description</i>
<code>floatPos</code>	<code>tbp</code>	This is the same default placement setting as in standard \LaTeX ; maybe not always the best setting.
<code>rotAngle</code>	<code>0</code>	The value for the angle if both the object and the caption should be rotated together.
<code>capWidth</code>	<code>n</code>	The width of the caption. Can be <code>n</code> for a natural width given by the current linewidth, <code>w</code> for the width of the object, <code>h</code> for the height of the object, or a scale factor for <code>\columnwidth</code> .
<code>capAngle</code>	<code>0</code>	The integer value for the angle if the caption should be rotated. Positive is counter-clockwise.
<code>capPos</code>	<code>bottom</code>	The position of the caption relative to the object. Possible values: <i>before</i> : <i>always</i> before (left) from the object. <i>top</i> : <i>always</i> on top of the object. <i>left</i> : <i>always</i> before (left) from the object, but on the same page in twocolumn mode. <i>after</i> : <i>always</i> after (right) from the object. <i>bottom</i> : <i>always</i> on the bottom of the object. <i>right</i> : <i>always</i> after (right) from the object, but on the same page in twocolumn mode. <i>inner</i> : in twoside mode always typeset at the inner margin. <i>outer</i> : in twoside mode always typeset at the outer margin. <i>evenPage</i> : in twoside mode with fullpage objects always on an even page. <i>oddPage</i> : in twoside mode with fullpage objects always on an odd page.
<code>capVPos</code>	<code>center</code>	Only used when <code>capPos=left right</code> ; in these cases, the caption can be vertically placed at the bottom, center or top.
<code>objectPos</code>	<code>center</code>	Horizontal placement of the object relative to the document. Possible values are (l) eft, (c) enter, (r) ight.
<code>objectAngle</code>	<code>0</code>	Integer value for the angle if the object should be rotated. Positive is counter-clockwise.
<code>floatCapSep</code>	<code>5pt</code>	Additional space between the object and a left- or right-placed caption.
<code>useOBox</code>	<code>false</code>	Instead of passing the object as a parameter to <code>\hvFloat</code> , with <code>useOBox=true</code> the contents of the predefined box <code>\hvOBox</code> is used.
<code>onlyText</code>	<code>false</code>	The caption is printed as normal text with no entry in any list of ...
<code>nonFloat</code>	<code>false</code>	The object isn't put in a floating environment, but printed as standard text with an additional caption. The float counter is increased as usual and can be referenced.
<code>wide</code>	<code>false</code>	The float can use <code>\textwidth + \marginparwidth</code> as horizontal width.

<i>Keyword</i>	<i>Default</i>	<i>Description</i>
objectFrame	false	Put a frame with no separation around the float object.
style	none	Use a defined style.
capFormat	none	Define formatting options for \caption; see documentation of package caption.
subcapFormat	none	Define formatting options for \subcaption.
fullpage	false	Use a complete column in twocolumn mode.
FullPage	false	Use the full text area for the object.
FULLPAGE	false	Use the full paper width/height for the object.
doublePage	false	Use the text area on a doublepage with additional text.
doublePAGE	false	Use the text area on a doublepage without additional text.
doubleFULLPAGE	false	Use the paperwidth on a doublepage without additional text.
vFill	false	Put a \vfill between every two objects in a multi- or subfloat.
sameHeight	false	use the same text height on both pages for a doublePage object.

3 The default use of floating environments

In this case there is no essential difference to the well known figure or table environment, f.ex.:

```
\begin{figure}
... object ...
\caption{...}% caption below the object
\end{figure}
```

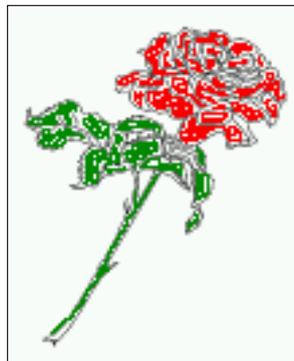


Fig. 2

Figure 2: Without any keywords (only the fbox package option)

Code for figure 2:

```
1 \hvFloat{figure}{\includegraphics{images/rose}}{Without any keywords (only the \texttt{fbox}
package option)}{fig:0}
```

Code for table 3:

```
1 \hvFloat[capPos=top]{table}{%
2 \begin{tabularx}{\textwidth}{>{\ttfamily}l|l|X}
3 \rmfamily Name & Type & Description\\ \hline
4 \CMD{hvFloat} & command & places object and caption in different ways\\
5 hvFloatEnv & environment & places object and caption exactly Here\\
6 \CMD{figcaption} & command & writes a figure caption in a non floating environment\\
7 \CMD{tabcaption} & command & writes a table caption in a non floating environment\\
8 \CMD{hvFloatSetDefaults} & command & sets all options to the defaults\\
9 \CMD{hvDefFloatStyle} & command & define a user style
10 \end{tabularx}}%
```

Tab. 3

Table 3: With the only Option `capPos=top` to place the caption on top of the table, which is often the default.

Name	Type	Description
<code>\hvFloat</code>	command	places object and caption in different ways
<code>hvFloatEnv</code>	environment	places object and caption exactly Here
<code>\figcaption</code>	command	writes a figure caption in a non floating environment
<code>\tabcaption</code>	command	writes a table caption in a non floating environment
<code>\hvFloatSetDefaults</code>	command	sets all options to the defaults
<code>\hvDefFloatStyle</code>	command	define a user style

```

11 {With the only Option \texttt{capPos=top} to place the caption on top of the table, which is
    often the default.}%
12 {tab:0}

```

See section 14 for some more informations about tabulars as objects.

4 Caption width

4.1 Default – natural width

The default setting is the natural width of a paragraph with respect to the current linewidth or columnwidth for a caption below or above an object. It behaves in the same way as a caption set by one of the default floating environments like `figure` or `table`:

```

1 \hvFloat[floatPos=!htb]{figure}{\includegraphics{images/rose}}%
2 {Default caption width setting, which is the natural width with respect to the current
   linewidth.}{fig:width0}

```

Fig. 3

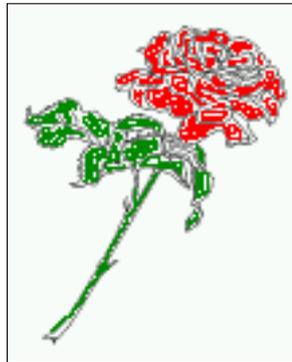


Figure 3: Default caption width setting, which is the natural width with respect to the current linewidth.

!! For the following examples the package option `fbox` is disabled. All frames are now set with the macro `\frame` or the optional keyword `objectFrame`.

For a caption beside an object, the *natural* caption width (without the optional argument `wide`) is given by the current linewidth minus the width of the object and the space between object and caption, which is set by `floatCapSep` (see Table 2 on page 8).

```

1 \hvFloat[floatPos=!htb,capPos=after,objectFrame]{figure}{\includegraphics[scale=1.5]{images/
   rose}}%
2 {Caption right beside with a \emph{natural} width, which is given by the width of the object,
3 the separation between object and caption, and the current linewidth.}{fig:width1}

```

Fig. 4

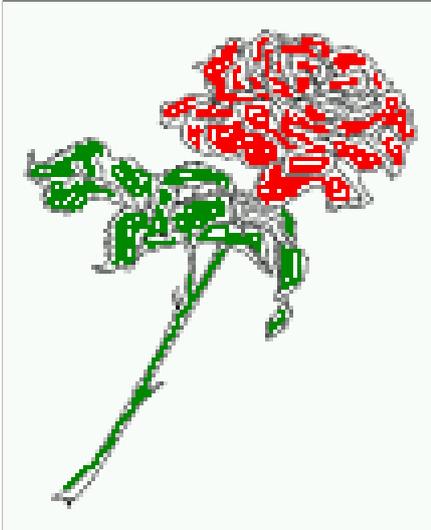


Figure 4: Caption right beside with a *natural* width, which is given by the width of the object, the separation between object and caption, and the current linewidth.

4.2 Relative linewidth

With `capWidth=<number>` the caption width is set to `<number>\columnwidth`. For captions at the bottom or on top of objects the setting is not checked if `<number>` is greater than 1.

```

1 \hvFloat[floatPos=!htb, capWidth=0.9]{figure}{\includegraphics{images/rose}}%
2 {Caption below with a width of 0.9 of the current line width (column width), which is
3   in this special case \the\linewidth. Divide it by 28.82 to get cm.}{fig:width2}

```

Fig. 5



Figure 5: Caption below with a width of 0.9 of the current line width (column width), which is in this special case 376.42744pt. Divide it by 28.82 to get cm.

If such a value like `0.9\linewidth` is used for a caption beside an object, then the macro does a test if the space beside the object is less equal the defined caption width. If not then the width is set to the possible value between object and margin:

```

1 \hvFloat[floatPos=!htb,
2   capPos=after,
3   capWidth=0.9]{figure}{\includegraphics[scale=1.5]{images/rose}}%
4 {Caption right beside with a width setting of \texttt{0.9\textbackslash linewidth}
5   which is too big for this example and therefore corrected
6   by the macro to the maximal width.}{fig:width3}

```

Fig. 6

5 Caption left or right of the object

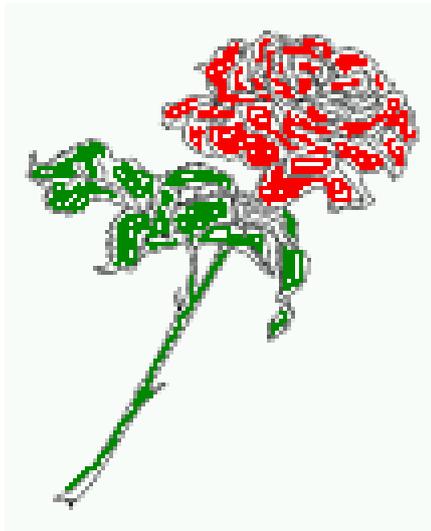


Figure 6: Caption right beside with a width setting of 0.9\linewidth for this example and therefore corrected by the macro to the maximum

4.3 Identical object and caption width

With `capWidth=w` the caption width is like the object width which makes only real sense if you have a lot of identical images with respect to its widths.

```
1 \hvFloat[floatPos=!htb,capWidth=w]{figure}{\includegraphics[width=0.5\linewidth]{images/CTAN}}%  
2 {Caption below with a width of the given object which may be a problem  
3 if it is a very small object.}{fig:width4}
```

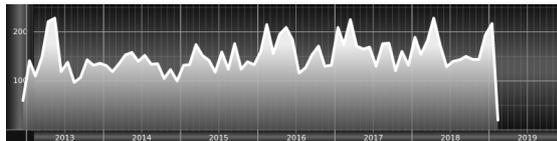


Figure 7: Caption below with a width of the given object which may be a problem if it is a very small object.

4.4 caption width to height of the object

With `capWidth=h` the caption width is like the object height which makes only real sense if you want to put a rotated caption beside the object.

```
1 \hvFloat[floatPos=!htb,capPos=after,capWidth=h,capAngle=90,objectFrame]{figure}{\  
2 includegraphics{images/rose}}%  
3 {Caption beside with a width of the given object height which may be a problem  
if it is a very small object.}{fig:width5}
```

Fig. 8

5 Caption left or right of the object

By default the caption is set on the left side of the object. If the caption and the object are set side by side, then the keyvalue before is identical to the setting left.

5.1 Caption right with specific length

Code for figure 9:

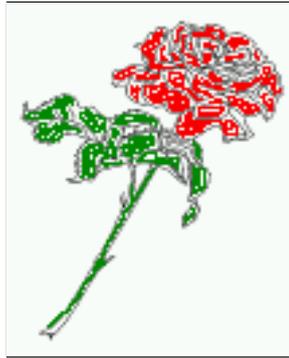


Figure 8: Caption beside with a width of the given object height which may be a problem if it is a very small object.

```

1 \hvFloat%
2   [floatPos=htb,
3     capPos=right,
4     objectFrame,
5     objectPos=c]{figure}{\includegraphics[scale=0.9]{images/rose}}%
6   [Caption beside object and vertically centered]%
7   {Caption vertically centered right beside the float with a natural caption width
8     (the default). \blindtext}%
9   {fig:1}

```



Figure 9: Caption vertically centered right beside the float with a natural caption width (the default). Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Fig. float
capPos=right

5.2 Caption left and rotated

Code for figure 10:

```

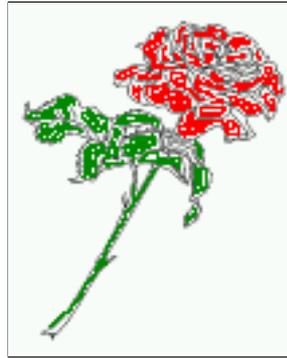
1 \hvFloat%
2   [floatPos=htb,
3     capPos=left,
4     capWidth=h,% of \columnwidth
5     capAngle=90,
6     objectFrame
7   ]{figure}{\includegraphics{images/rose}}%
8   [Centered Caption beside Object]%
9   {Caption vertically centered left beside the float with a caption width
10  of \texttt{capWidth=h}, which is the height of the object.}{fig:2}

```

It is no problem to rotate the object, too. But with a different angle value than for the caption. Do not ask for the sense, it is only a demonstration of what is possible ... The object (image) is rotated by -30 degrees with the macro `\rotatebox`. Without any definition the caption will be placed vertically centered to the object. Important for the height of the object is the surrounding orthogonal rectangle.

Fig. 10

Figure 10: Caption vertically centered left beside the float with a caption width of `capWidth=h`, which is the height of the object.



Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Code for figure 11:

```

1 \hvFloat[%
2   capWidth=h,
3   capPos=after,
4   capAngle=180,
5   objectAngle=90,
6   capVPos=center,
7   objectPos=center]{figure}{\frame{\includegraphics{images/rose}}}%
8 [Centered Caption beside Object]{%
9 {Caption vertically centered right beside the float with a caption width of the height
10  of the image and a rotation of the caption and the object.}{fig:3}

```

Fig. 11

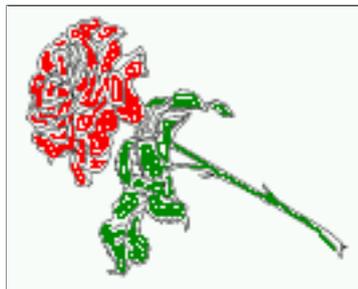


Figure 11: Caption vertically centered right beside the float with a caption width of the height of the image and a rotation of the caption and the object.

6 Caption inner or outer

Setting the caption position to *inner* or *outer* makes only sense for a document in twoside mode. For a onside document *inner* is the same as *left* and *outer* is the same as *right*. We show only the code for the first image with the setting `capPos=inner`, whereas the second one chooses only `capPos=outer`.

Code for figure 12:

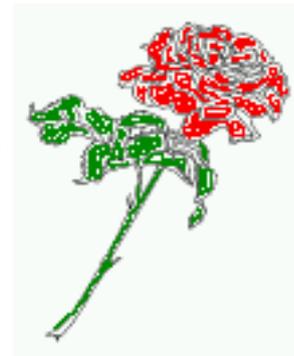
```

1 \hvFloat[capPos=inner]{figure}{\includegraphics{images/rose}}%
2 [Centered Caption on the inner side]{%
3   Caption set with the parameter setting \texttt{capPos=inner}, which will be
4   a caption on the right side for an even page and on the left side for

```

Fig. 12

Figure 12: Caption set with the parameter setting `capPos=inner`, which will be a caption on the right side for an even page and on the left side for an odd page.



Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Now the same Image with `capPos=outer` . The current `pagenumber` is 15, an odd page. We now set a pagebreak at the end of the second image to see if it works with *inner/outer*.

```
1 \hvFloat[capPos=outer]{figure}{\includegraphics{images/rose}}%
2 [Centered Caption on the inner side]{%
3 Caption set with the parameter setting \texttt{capPos=outer}, which will be
4 a caption on the right side for an even page and on the left side for
5 an odd page.}{fig:20b}
```

Fig. 13



Figure 13: Caption set with the parameter setting `capPos=outer`, which will be a caption on the right side for an even page and on the left side for an odd page.

Fig. 14



Figure 14: Caption at the bottom right beside the float with a caption width of `0.5\columnwidth` and `capPos=outer`.

7 Vertical Position of the Caption

We have an even page, the reason why figure 13 has the caption for *inner* on the left side and figure 14 for *outer* on the right side.

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Code for figure 15:

```
1 \hvFloat[%
2   capWidth=0.5,% of \columnwidth
3   capPos=inner,% =====> INNER
4   capAngle=0,
5   capVPos=bottom,
6   objectPos=center]{figure}{\includegraphics{images/rose}}%
7   [Centered Caption beside Object]{%
8   Caption vertically centered right beside the float with a caption
9   width of \texttt{0.5\textbackslash columnwidth} and \texttt{capPos=outer} }{fig:22}
```

Fig. 15



Figure 15: Caption vertically centered right beside the float with a caption width of 0.5\columnwidth and `capPos=outer`

We have an even page, the reason why figure 12 has the caption for *inner* on the right side and figure 14 for *outer* on the left side.

7 Vertical Position of the Caption

The caption can be placed beside the object in the positions

(c)enter|(b)ottom|(t)op

The code for figure 16:

```
1 \hvFloat[%
2   floatPos=htb,%
3   capWidth=0.25,%
4   capPos=right,%
5   capVPos=bottom,%
6 ]{figure}{\frame{\includegraphics{images/rose}}}{Caption at bottom right beside the float}{fig:4}
```

Fig. 16

The code for figure 17:

```
1 \hvFloat[%
2   floatPos=htb,
3   capWidth=0.25,
```

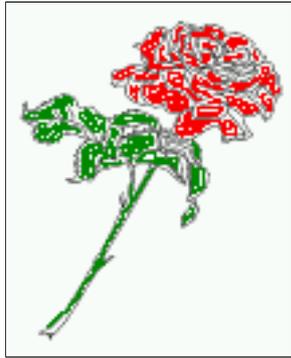


Figure 16: Caption at bottom right beside the float

```

4   capPos=right,
5   capVPos=top,
6 ]{figure}{\frame{\includegraphics{images/rose}}}{Caption at top left beside the float}{fig:5}

```

Figure 17: Caption at top left beside the float

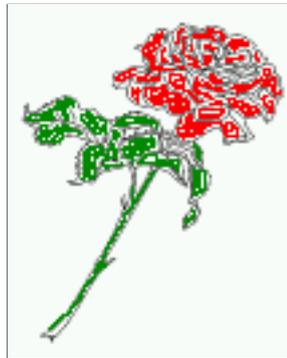


Fig. 17

The code for figure 18:

```

1 \hvFloat[%
2   capWidth=0.25,%
3   capPos=right,%
4   capVPos=center,% the default
5 ]{figure}{\frame{\includegraphics{images/rose}}
6   \frame{\includegraphics[origin=c,angle=180]{images/rose}}}%
7 {Caption centered right beside the float}{fig:6}

```

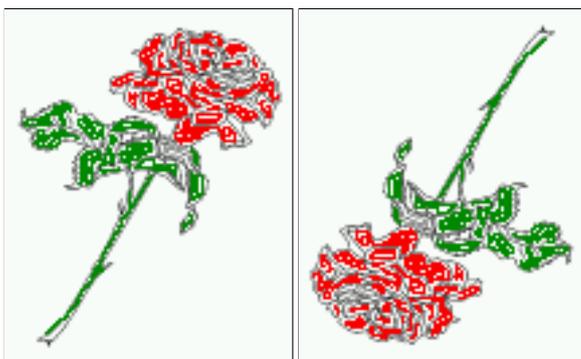


Figure 18: Caption centered right beside the float

Fig. 18

8 Caption format

The `\caption` and `\subcaption` macros are fully under the control of the package `caption`. The formatting can be set with the macros `\captionsetup`, `\subcaptionsetup`, or via the optional

argument setting of `\hvFloat` with the keywords `capFormat` and `subcapFormat`. The argument itself will then be used internally by `\captionsetup` and/or `\subcaptionsetup` in a minipage, the reason why it will be local to the current image..

```

1 \hvFloat[%
2   capPos=right,
3   capFormat={\labelsep=newline, justification=RaggedRight, font={small,it}, labelfont=bf}
4 ]{\figure}{\frame{\includegraphics{images/rose}}}{\blindtext}{fig:66}

```

Fig. 19

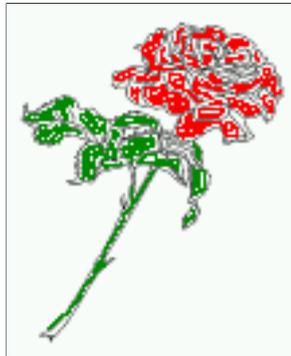


Figure 19

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

9 Horizontal Position of the Float

The caption is always near the object, only divided by the length `\floatCapSep` which can be set by the keyword of the same name `floatCapSep`. It accepts only a value with any allowed unit. The keyword `objectPos` refers always to the complete floating object: caption *and* object. The meaning of `objectPos=left` is: Put the object as far as possible to the left margin. If `capPos=left` is also used, then the caption is at the left margin followed by the object (see Figure 21 on the next page).

The code for figure 20:

```

1 \hvFloat[%
2   capWidth=0.25,
3   capPos=right,
4   capVPos=top,
5   objectPos=left,
6   objectFrame,
7 ]{\figure}{\includegraphics{images/rose}}{%
8   Caption at top right beside the float and object position left}{fig:7}

```

Fig. 20

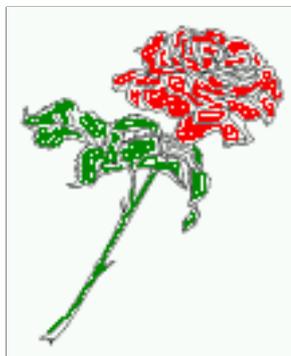


Figure 20: Caption at top right beside the float and object position left

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there

no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

The same with capPos=left :

Figure 21: Caption at top right beside the float and object position left

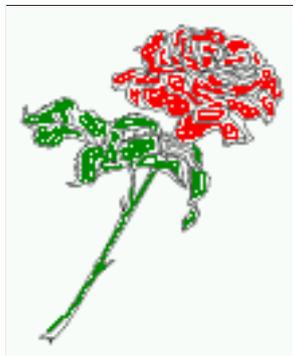


Fig. 21

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

The code for figure 22:

```

1 \hvFloat[%
2   capWidth=0.25,
3   capPos=before,
4   capVPos=top,
5   objectPos=right,
6   objectFrame,
7 ]{figure}{\includegraphics{images/rose}}{%
8   Caption at top leftt beside the float and object position right}{fig:8}

```

Figure 22: Caption at top left beside the float and object position right

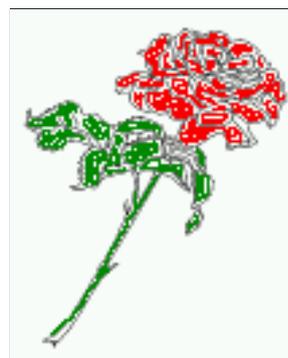


Fig. 22

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of

10 Wide floats

the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

10 Wide floats

With the optional argument `wide` the width of the defined `\marginparwidth` is added to the allowed horizontal width of the float.

The code for figure 23:

```
1 \hvFloat[wide,  
2   capPos=right,  
3   capVPos=top,  
4   objectPos=left,  
5 ]{figure}{\includegraphics[width=0.75\linewidth]{images/CTAN}}{%  
6   Caption at top right beside the float and object position left and  
7   the option \texttt{wide}}.{fig:70}
```

Fig. 23

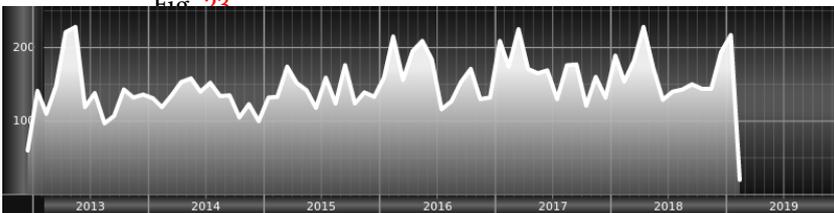


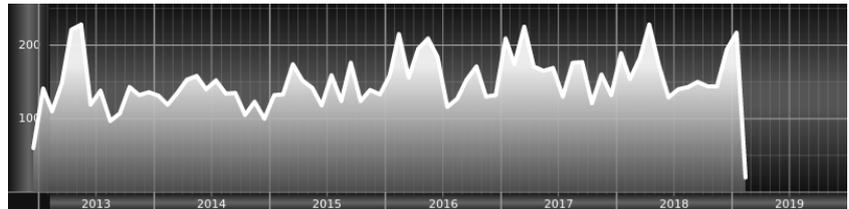
Figure 23: Caption at top right beside the float and object position left and the option `wide`.

The code for figure 24:

```
1 \hvFloat[wide,  
2   capPos=left,  
3   capVPos=top,  
4   objectPos=right,  
5 ]{figure}{\includegraphics[width=0.75\linewidth]{images/CTAN}}{%  
6   {Caption at top left beside the object and object position left and  
7   the option \texttt{wide}}.{fig:80}
```

Fig. 24

Figure 24: Caption at top left beside the object and object position left and the option `wide`.

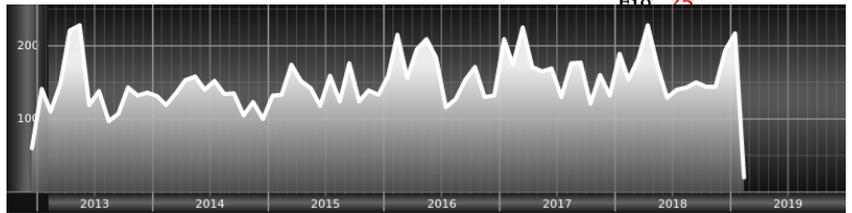


For a twosided document it will place the object always in the margin.

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

```
1 \hvFloat[wide,  
2   capPos=inner,  
3   capVPos=top,  
4 ]{figure}{\includegraphics[width=0.75\linewidth]{images/CTAN}}{%  
5   Caption at top and inner beside the float and object position right and  
6   the option \texttt{wide}}.{fig:81}
```

Figure 25: Caption at top and inner beside the float and object position right and the option wide.



Now we set the same image with the same setting on the next page. The caption will change its side due to the setting `capPos=outer`.

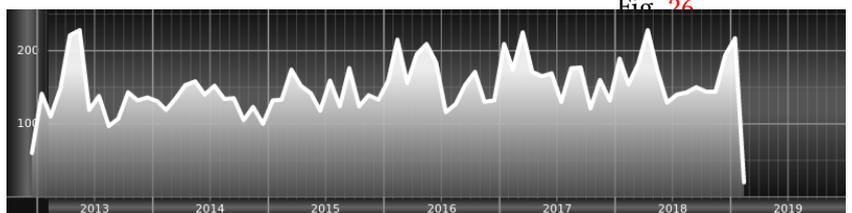
Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

```

1 \hvFloat[wide,
2   capPos=inner,
3   capVPos=top,
4 ]{figure}{\includegraphics[width=0.75\linewidth]{images/CTAN}}{%
5 Caption at top inner beside the float and object position right and
6 the option \texttt{wide}.}{fig:811}

```

Figure 26: Caption at top inner beside the float and object position right and the option wide.



The caption can be typeset completely into the margin with:

```

1 \captionsetup{justification=RaggedRight}
2 \hvFloat[wide,
3   capPos=outer,
4   capVPos=top,
5   floatCapSep=\marginparsep,
6 ]{figure}{\includegraphics[width=\linewidth]{images/CTAN}}{%
7 Caption at top inner beside the float and object position right and
8 the option \texttt{wide}.}{fig:812}

```

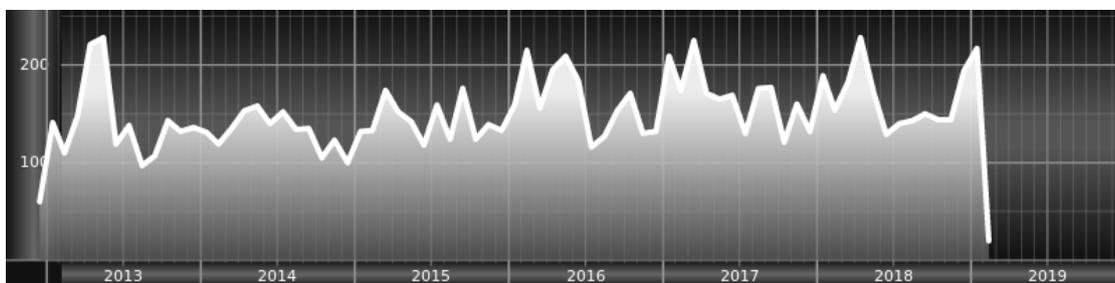


Figure 27: Caption at top inner beside the float and object position right and the option wide.

With the optional argument `capWidth=l` the caption can be terminated to the current line width. With the optional argument `capHPos=right` one can set the caption to the left, center, or right of the full width which is `linewidth` and `margin width`.

12 Full Page Width in Landscape Mode

```
1 \hvFloat[capPos=bottom, capWidth=l, wide, capHPos=right]{figure}
2 {\includegraphics[width=0.49\hvwidewidth]{images/CTAN}\quad
3 \includegraphics[width=0.49\hvwidewidth]{images/CTAN}}
4 {\hvblindtext}
5 {label}
```

Fig 28

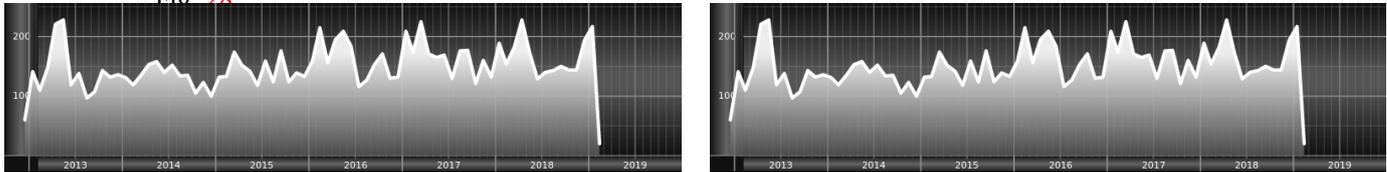


Figure 28: Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

11 The star version \hvFloat*

In the twocolumn mode the floating environment can be set over both columns with the star version `\hvFloat*`. The floating environment will not be on the bottom of the page. The code for the following example (Figure 29 on the facing page) is:

```
1 \hvFloat*[capPos=right]{figure}%
2 {\includegraphics{images/frose}}%
3 [A float with the default caption setting]%
4 {A default caption of a ``' object with the default setting, which
5 is a ``left' caption which means that it always appears before the object.
6 This can be an even or odd page. And some more text which has no
7 real meaning because it fills only the space for a long caption.}%
8 {fig:0}
```

The example shows on page 3 the star version and on page 4 the same without using the star.

12 Full Page Width in Landscape Mode

If you do not want to load the package `lscap` (or `pdfscape`) you can use the `floatPos=p` option to put the image on an own page and rotated by 90 degrees (figure 30).

Code for figure 30:

```
1 \hvFloat[%
2 floatPos=p,
```

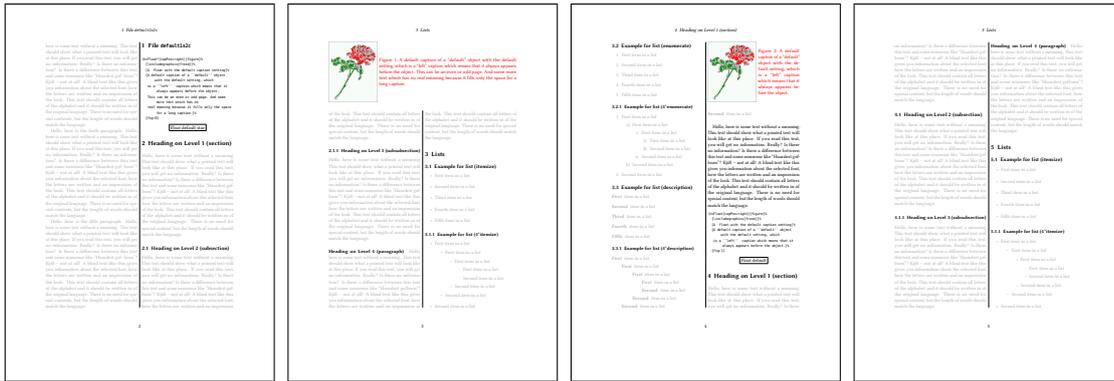


Figure 29: Output of default1s2c (pages 2 –5)

```

3 capPos=bottom,
4 rotAngle=90,
5 objectPos=center,
6 ]{figure}{\includegraphics[width=0.9\textheight]{images/CTAN}}%
7 [Object and Caption in landscape mode]{%
8 Caption and object in landscape mode. \blindtext}{fig:9}

```

The float can also be put to the left or to the right (above/below in landscape) with the objectPos=l parameter

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

The code for figure 31:

```

1 \hvFloat[%
2 floatPos=p,
3 capWidth=h,
4 capPos=right,
5 objectAngle=90,
6 capAngle=-90,
7 objectPos=left,
8 ]{figure}{\includegraphics[width=\textheight]{images/CTAN}}%
9 [Rotated Caption in Landscape]{%
10 Caption right beside the float and object position left. The caption rotated by $-90$
11 degrees.\blindtext}{fig:10}

```

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest

Fig. 30

Fig. 31

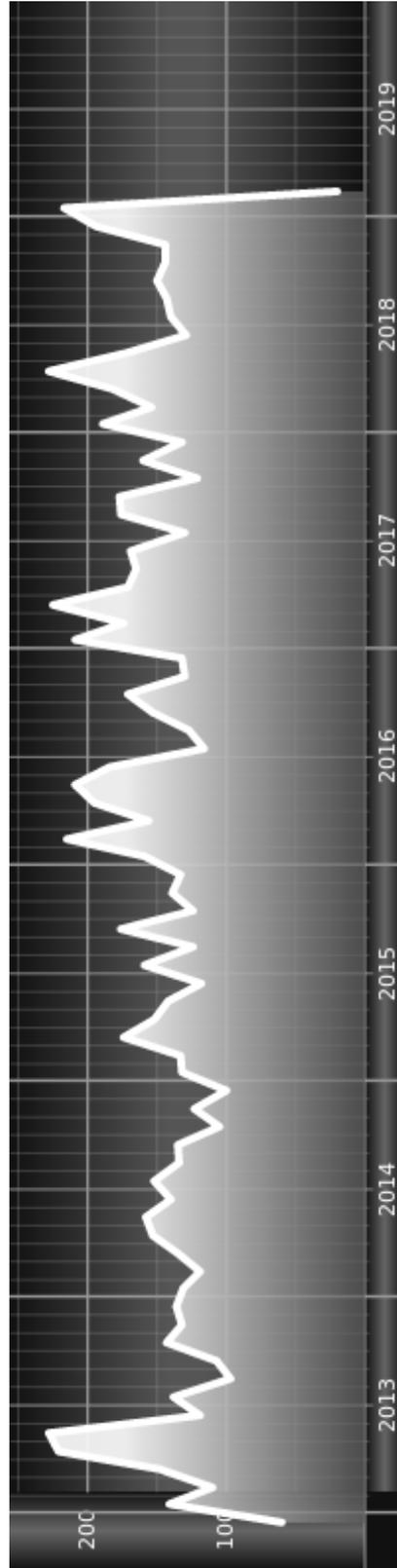
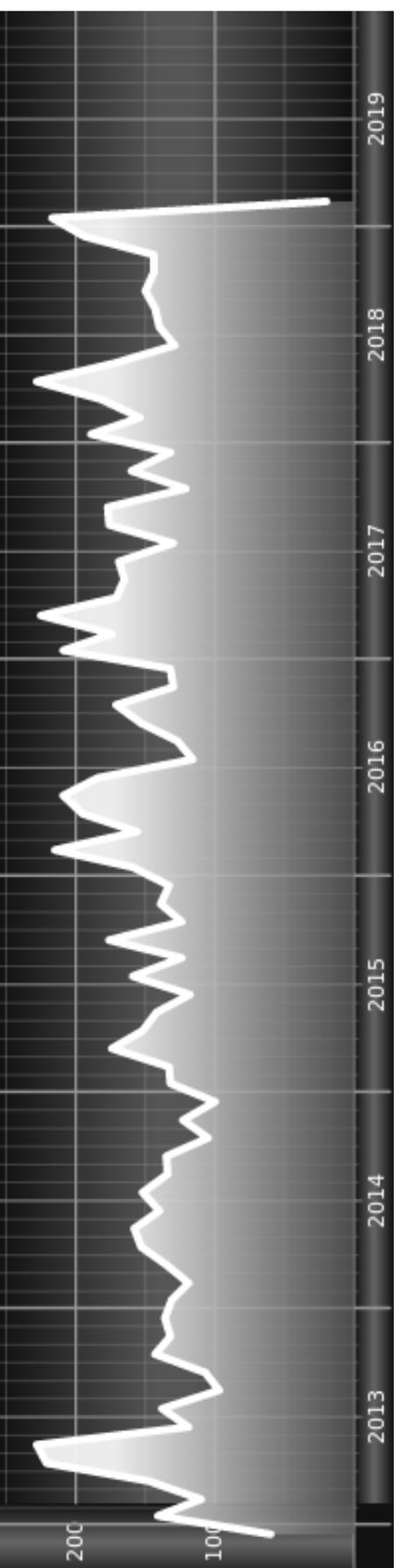


Figure 30: Caption and object in landscape mode. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Figure 31: Caption right beside the float and object position left. The caption rotated by -90 degrees. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.



gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

13 The nonFloat Option

Sometimes it is better to put a “float” in a specific position of the page. This is possible with the nonfloat package and the keyword nonFloat.

```

1 Some nonsense text before the following \emph{non floating} object.
2
3 \hvFloat[%
4   nonFloat,
5   capWidth=0.25,
6   capPos=right,
7   capVPos=bottom,
8   objectPos=center,
9   objectFrame,
10 ]{figure}{\includegraphics[scale=1.5]{images/rose}}%
11 [Nonfloat Captions]{%
12   Caption of a ``nonfloat'' Object, using the \texttt{nonfloat} Package}{fig:11}
13
14 Some nonsense text after the preceding \emph{non floating} object.
```

Fig. 32

Some nonsense text before the following *non floating* object.

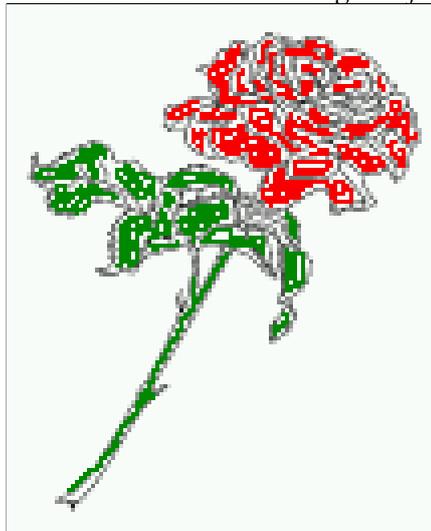


Figure 32: Caption of a “nonfloat” Object, using the nonfloat Package

Some nonsense text after the preceding *non floating* object.

The image 32 is exactly placed where the command `\hvFloat` appears. There are only commands for figure and table environments:

```

\newcommand{\figcaption}{\def\@capttype{figure}\caption}
\newcommand{\tabcaption}{\def\@capttype{table}\caption}
```

But it is no problem, to define more xxxcaption commands to support other with the float package defined new floats.

14 Tabulars as Objects

The object has to be passed as an parameter to the `\hvFloat` macro. This is no problem with images but maybe with tables, so it is easier to use the box `\hv0Box` to save the table in this box and pass it then to `\hvFloat` with the `use0Box` option. For example see table 4 and 5:

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

```

1 \savebox{\hv0Box}{%
2 \begin{tabular}{>{\small\ttfamily}l|l|l}\hline
3 \rmfamily Name & Type & Description\\\hline
4 \CMD{hvFloat} & command & places object and caption in different ways\\
5 hvFloatEnv & environment & places object and caption exactly Here\\
6 \CMD{figcaption} & command & writes a figure caption in a non floating environment\\
7 \CMD{tabcaption} & command & writes a table caption in a non floating environment\\
8 \CMD{hvFloatSetDefaults} & command & sets all options to the defaults\\\hline
9 \end{tabular}%
10 }
```

The code for table 4 and 5 is:

```

1 \hvFloat[%
2 floatPos=hb,
3 capPos=top,
4 use0Box=true]{table}{{Demonstration of the \texttt{use0Box} Parameter}{table:1}
5
6 \hvblindtext
7
8 \marginnote{Tab.-\ref{table:2}}
9 \hvFloat[%
10 floatPos=hb,
11 use0Box=true,
12 objectAngle=90,
13 capPos=right,
14 capVPos=top,
15 capWidth=0.3]{table}{{Another demonstration of the \texttt{use0Box} Parameter}{table:2}}
```

In this case leave the third parameter empty.

Table 4: Demonstration of the `use0Box` Parameter

Tab. 4

Name	Type	Description
<code>\hvFloat</code>	command	places object and caption in different ways
<code>hvFloatEnv</code>	environment	places object and caption exactly Here
<code>\figcaption</code>	command	writes a figure caption in a non floating environment
<code>\tabcaption</code>	command	writes a table caption in a non floating environment
<code>\hvFloatSetDefaults</code>	command	sets all options to the defaults

Tab. 5

15 Text and objects

With the `onlyText` keyword it is no problem to put some text beside an image without getting the caption title Figure/Table. The object still can be a floating one or a nonfloating if the `nonfloat`

Name	Type	Description
<code>\hvFloat</code>	command	places object and caption in different ways
<code>hvFloatEnv</code>	environment	places object and caption exactly Here
<code>\figcaption</code>	command	writes a figure caption in a non floating environment
<code>\tabcaption</code>	command	writes a table caption in a non floating environment
<code>\hvFloatSetDefaults</code>	command	sets all options to the defaults

Table 5: Demonstration of the use0Box Parameter

keyword is used.

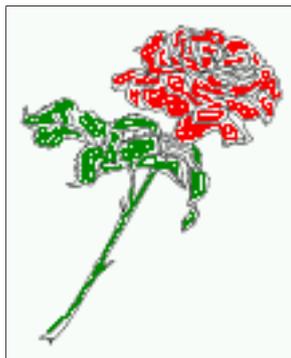
The code for figure 15:

```

1 \hvFloat[%
2   onlyText=true,
3   capAngle=90,
4   capPos=right,
5   capVPos=top,
6   objectFrame,
7   capWidth=h}{\includegraphics{images/rose}}%
8   [``\texttt{onlyText}'' Caption]{%
9     Demonstration of the \texttt{onlyText} Parameter, which makes it
10    possible to put some text beside a floating object without getting
11    a starting \texttt{Figure:} or \texttt{Table:}}{fig:text}

```

Fig. 15



Demonstration of the `onlyText` Parameter, which makes it possible to put some text beside a floating object without getting a starting Figure: or Table:

16 Environment `hvFloatEnv`

With the environment `hvFloatEnv` one can place an object exactly on that position where the environment is defined. For captions the use of `\captionof` is recommended:

```

1 \begin{hvFloatEnv}
2 \captionof{table}{A caption for a nice table}
3 \begin{tabular}{@{} l c r @{}}\hline
4 left & center & right \\
5 L & C & R \\
6 \end{tabular}
7 \end{hvFloatEnv}

```

Table 6: A caption for a nice table

left	center	right
L	C	R

The environment has an optional argument for setting the line width which is preset to `\textwidth`. The object is always centered.

```

1 \begin{hvFloatEnv}[0.5\textwidth]
2 \captionof{table}{A caption for a nice table}
3 \begin{tabular}{@{} l c r @{}}\hline
4 left & center & right \\
5 L & C & R \\
6 \end{tabular}
7 \end{hvFloatEnv}

```

Table 7: A caption for a nice table

left	center	right
L	C	R

17 Full page objects in onecolumn mode

For an image or table which needs the whole space of a page the caption can be printed at the bottom of the preceding or following page. It is possible in onese and twoside mode, but makes only real sense in the twoside mode. `hvfloat` defines three additional optional arguments for placing images in a complete column, page or paper:

```

\define@key{Gin}{fullpage}[true]{%
  \def\Gin@ewidth{\columnwidth}%
  \def\Gin@eheight{\textheight}%
  \Gin@boolkey{false}{iso}%
}
\define@key{Gin}{FULLPAGE}[true]{%
  \def\Gin@ewidth{\paperwidth}%
  \def\Gin@eheight{\paperheight}%
  \Gin@boolkey{false}{iso}%
}

```

Figure 33 shows the meaning of the optional arguments fullpage, FullPage, and FULLPAGE for `\inclugegraphics [...] {tiger}`.



Figure 33: Output of fullpage1s2c (pages 1–8)

17.1 Using the textarea

The setting `capPos=evenPage` (even) or `capPos=oddPage` (odd) page for a document in twocolumn mode makes no real sense. For a twosided document a setting like `capPos=inner` for inner or `capPos=outer` for outer margin makes more sense. For an image or table which needs the whole space of a page the caption can be printed at the bottom of the preceding or following page. It is possible in onside and twoside mode, but makes only real sense in the twoside mode. Without any additional argument the caption is set first and the object on the following page:

17.1.1 Using the default or capPos=before

Without any additional argument the caption is set first (left) at the bottom of the current page and the object on the following page. This is the same setting like capPos=left for a onecolumn document. For the twocolumn option it makes more sense to use the setting capPos=before if the caption and object can appear on different pages.

```

1 \hvFloat[fullpage]%
2 {figure}%
3 {\includegraphics[fullpage]{images/frose}}%
4 [A fullpage float with the default caption setting]%
5 {A default caption of a ``fullpage'' object with the default setting, which
6  is a ``left'' caption which means that it always appears ``before'' the object.
7  This can be an even or odd page. And some more text which has no
8  real meaning because it fills only the space for a long caption.}%
9 {fig:fullpage0}

```

Table 8: Valid optional arguments for a full page object.

Name	Type	Description
fullpage	true false	Put the caption on the bottom of the preceding or following page and the object alone a page.
FULLPAGE	true false	The same for full papersize objects over one or two columns. The pagestyle is set to empty
multiFloat	true false	For multiple objects with captions for every object. See section 17.3 on page 38.
subFloat	true false	For multiple objects with one main and more subcaptions. See section 18 on page 40.
separatorLine	true	Put a line with a predefined width of 0.4pt between the text and the caption. Only valid for the keyword fullpage.
capPos	value	caption before, after an object or on an evenPage or oddPage.

With this setting the caption is always placed *before* the following object. This maybe sufficient for a oneseide document but not the best solution if this document is printed on a duplex machine. In such a case it may make sense to have the captions always on an even (left) page, even though the socument is typeset in a oneseide mode. Figure 34 on the following page shows the output for a oneseide document with a setting capPos=before .

Depending to the used documentclass it can be a problem, if the caption should be placed on the first page. In such a case use one of the other setting. Table 8 shows the valid optional arguments for a full page floating object.

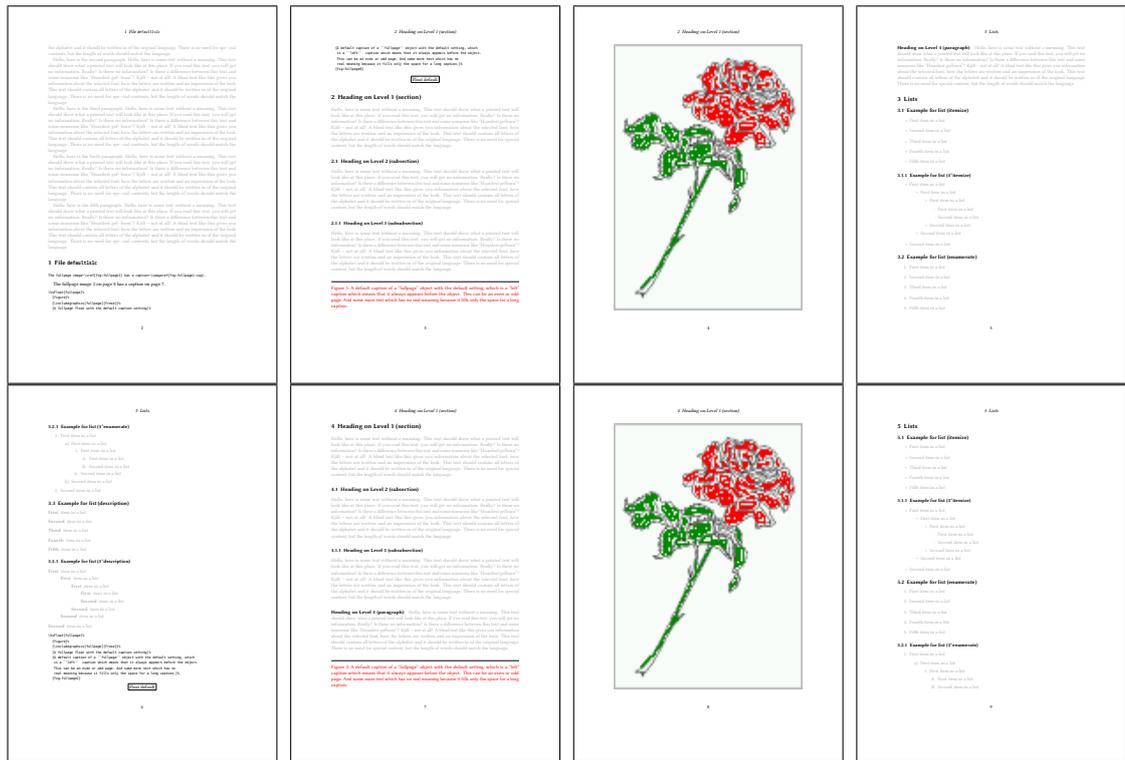


Figure 34: Output of default1s1c (pages 2–9)

17.1.2 Using capPos=after

The caption will be printed always on the right side which is the same as *after* the full page object. The object appears immediately on the next page and the caption of the next following page at the bottom. There is no check for an even or odd page. This behaviour makes only sense for a oneside document.

```

1 \hvFloat[fullpage, capPos=after]%
2 {figure}%
3 {\includegraphics[fullpage]{images/frose}}%
4 [A float which needs the complete page width and height.]%
5 {A Caption of a ``fullpage'' object, which follows on the next page.
6 This can be an even or odd page. And some more text which has no
7 real meaning because it fills only the space for a long caption.}
8 {fig:fullpage}
    
```

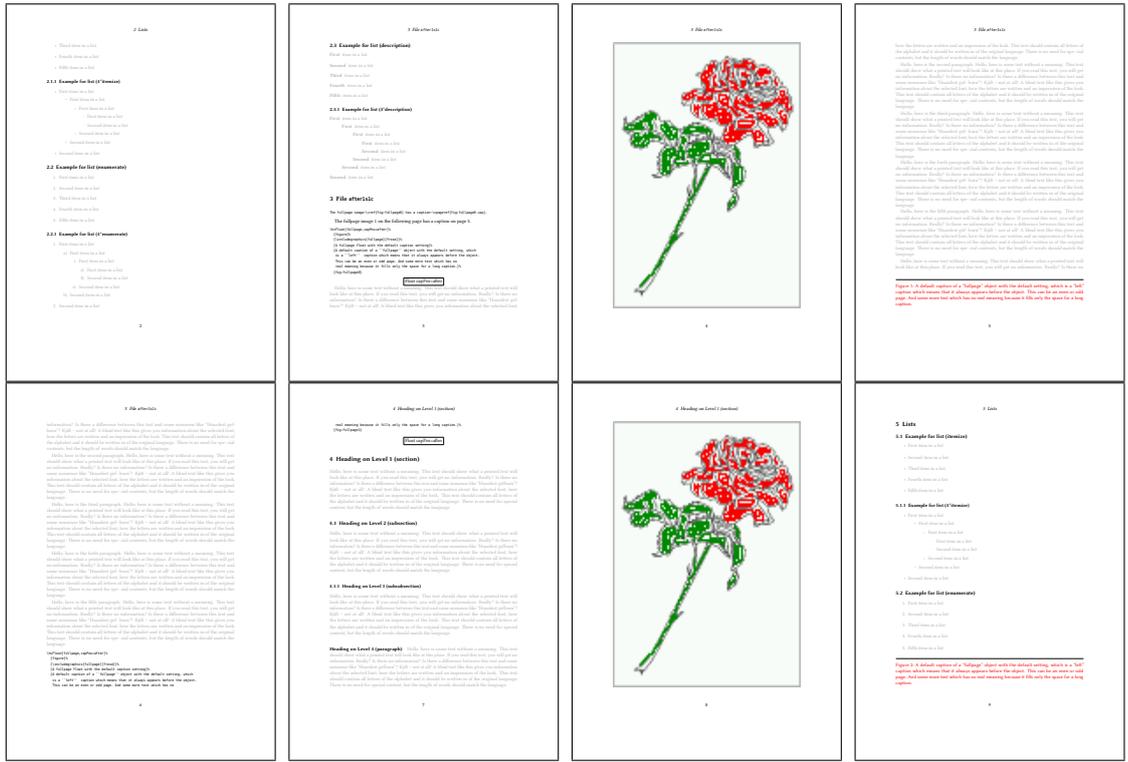


Figure 35: Output of after1s1c (pages 2–9)

17.1.3 Using capPos=evenPage — caption on an even page

With capPos=evenPage the caption will be printed on an even (left) page, the object will always be on an odd (right) page. This option makes only real sense for The twoside mode!

```

1 \hvFloat[fullpage, capPos=evenPage]%
2 {figure}%
3 {\includegraphics[fullpage]{images/frose}}%
4 [A float with a caption on an even page (left)]%
5 {A caption on an even (left) page of a `fullpage' object.. \blindtext}
6 {fig:fullpage3}
    
```

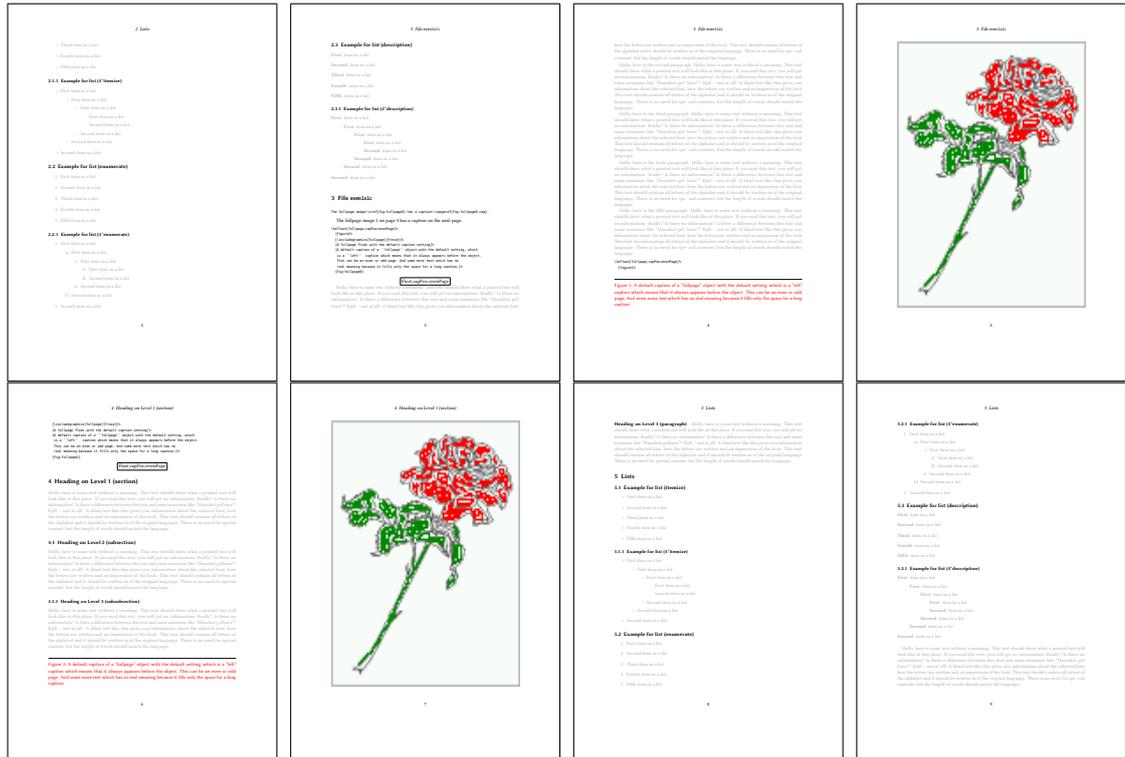


Figure 36: Output of even1s1c (pages 2–9)

17.1.4 Using capPos=oddPage — caption on an odd page

With capPos=oddPage the caption will be printed on an odd (right) page, the object will always be on an even (left) page, which is before the caption.

```

1 \hvFloat[fullpage, capPos=oddPage]%
2 {figure}%
3 {\includegraphics[fullpage]{images/frose}}%
4 [A float which needs the complete page width and height.]%
5 {A Caption on an odd page of a ``fullpage'' object, which follows on the next page.
6 This can be an even or odd page. And some more text which has no
7 real meaning because it fills only the space for a long caption.}
8 {fig:fullpage2}
    
```

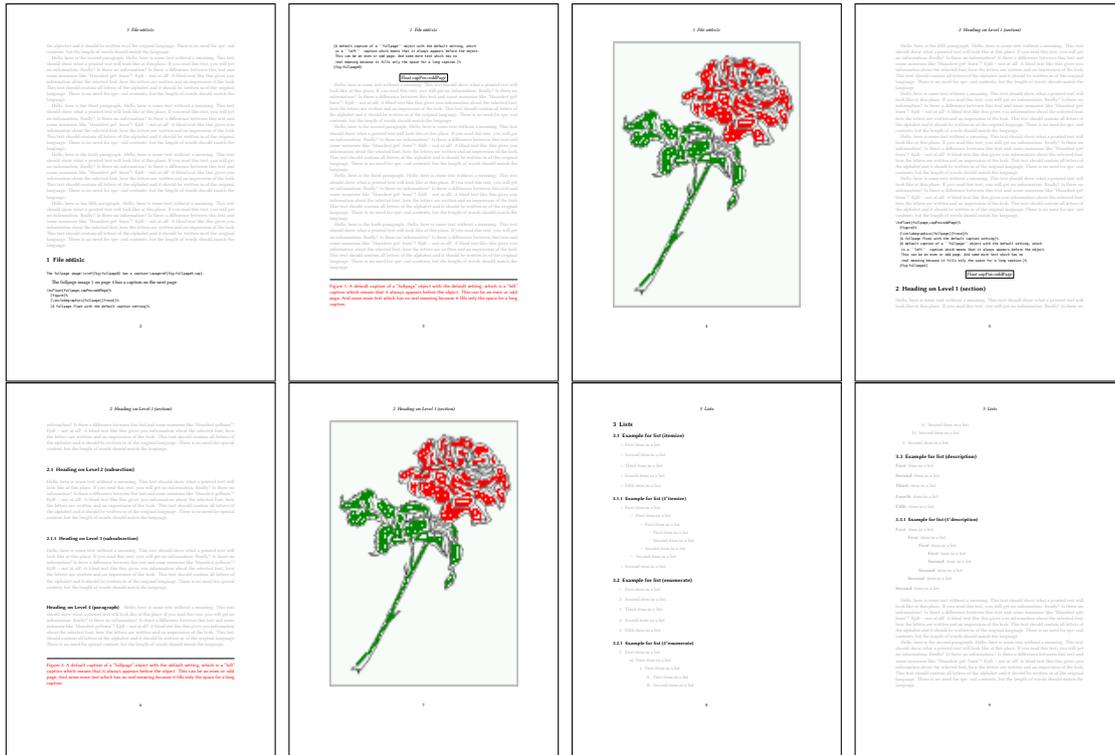


Figure 37: Output of odd1s1c (pages 2-9)

17.1.5 Using capPos=inner or capPos=outer — caption on the inner or outer side

These settings make no sense in onecolumn mode.

17.2 Using the paper size

It belongs to the user to create an object which fills the complete page. However, with the keyword FULLPAGE which is valid for \hvfloat and for the macro \includegraphics an image will be scaled to the paper dimensions \paperwidth and \paperheight. It can be used in one- and twocolumn mode!

```

1 \hvfloat[FULLPAGE]%
2 {figure}%
3 {\includegraphics[FULLPAGE]{frose.png}}%
4 [A fullpage float with the default caption setting]%
5 {A default caption of a ``fullpage'' object with the default setting, which
6 is a ``left'' caption which means that it always appears before the object.
7 This can be an even or odd page. And some more text which has no
8 real meaning because it fills only the space for a long caption.}%
9 {fig:fullpage0}

```

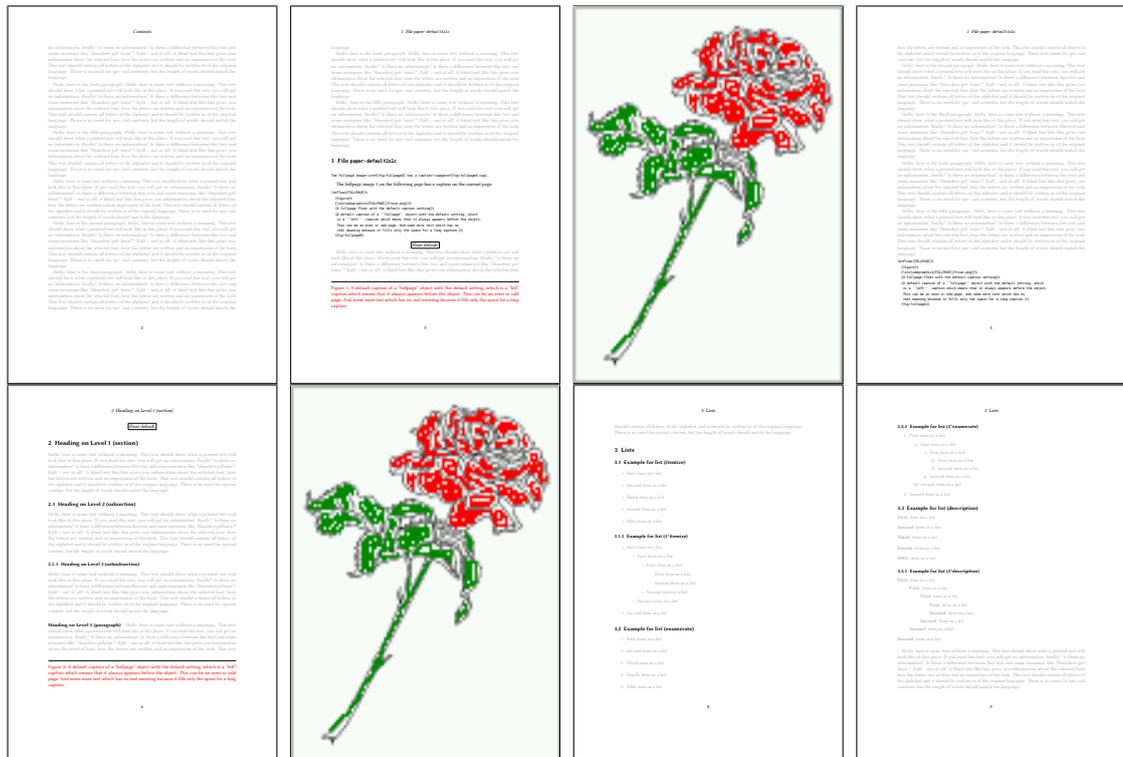


Figure 38: Output of paper-default1s1c (pages 2–9)

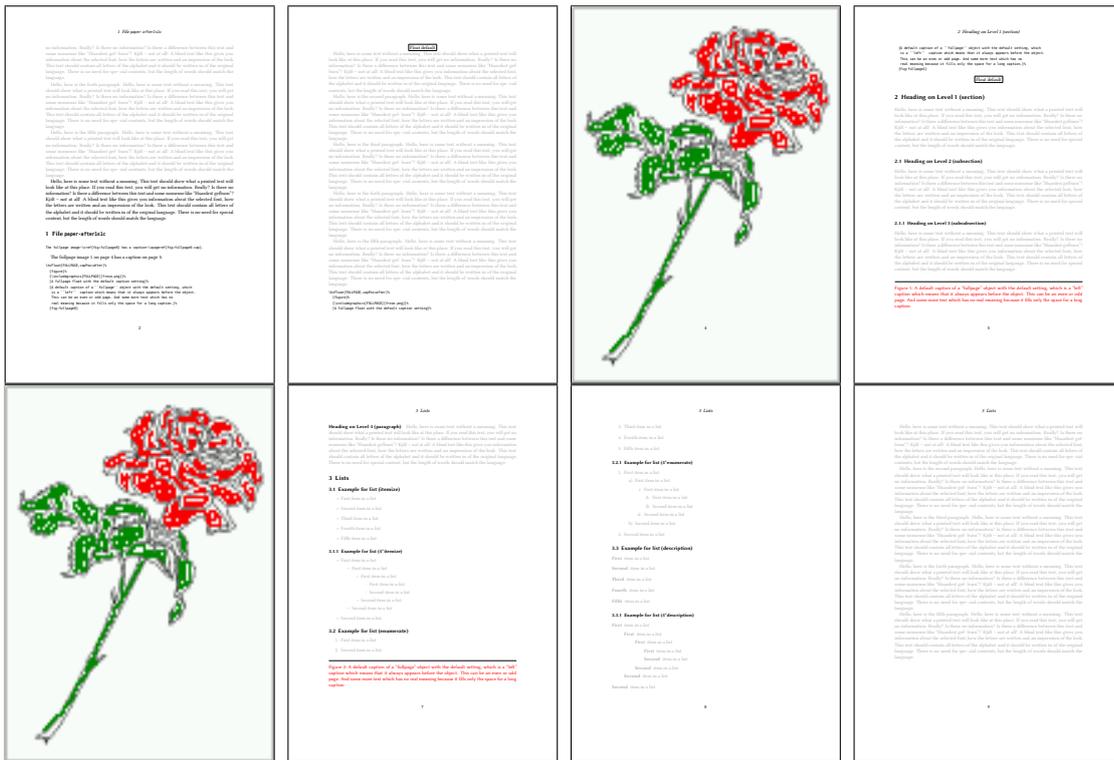


Figure 39: Output of paper-after1s1c (pages 2–9)

17.3 Multifloats

Multifloats is the name for more than one image and/or tabular in *one* floating environment. Every image and/or tabular has its own caption, which is different to a subcaption. The syntax for multiple floats is

```
\hvFloat [Options] +{float type}{floating object} [short caption] {long caption}{label}
                +{float type}{floating object} [short caption] {long caption}{label}
                +...
                +{float type}{floating object} [short caption] {long caption}{label}
```

The + symbol defines an additional Object which will be part of the same floating environment. It's up too the user to be sure that one page or one column can hold all defined objects. Every object gets its own caption which is the reason why figures and tabulars and ... can be mixed:

```
1 \captionsetup{singlelinecheck=false}
2 \hvFloat[fullpage,capPos=before,multiFloat,vFill]%
3   +{figure}{\includegraphics[width=\linewidth]{images/CTAN}}%%           no 1
4   [Short caption A]%
5   {A Caption A of a ``fullpage'' object, which follows on the left or
6     right column. This can be an even or odd page. And some more text which has no
7     real meaning because it fills only the space for a long caption.}%
8   {img:demo0}%
9   +{table}{\begin{tabular}{lrcp{3cm}}\hline                               %           no 2
10      Linksbündig & Rechtsbündig & Zentriert & Parbox\\\hline
11      L           & R           & C           & P\\
12      left       & right      & & center    & Text with possible linebreaks\\
13      \multicolumn{4}{c}{Multicolumn over all columns}\\\hline
14      \end{tabular}}%
15   [Short Caption B]%
16   {A Caption B of a ``fullpage'' object, which follows on the left or
17     right column. This can be an even or odd page.}{}%
18   +{figure}{\includegraphics[width=\linewidth]{images/CTAN}}%%           no 3
19   {A Caption C of a ``fullpage'' object, which follows on the left or
20     right column.}%
21   {img:demo1}
22   +{figure}{\includegraphics[width=\linewidth]{images/CTAN}}%%           no 4
23   {A Caption C of a ``fullpage'' object, which follows on the left or
24     right column.}%
25   {img:demo2}
```

The page with the objects has no additional informations it holds only the figures and/or tabulars. If you want it like subfigures or subtabulars then go to [section 18 on page 40](#). The setting `\captionsetup{singlelinecheck=false}` is needed if you want the captions always left aligned.

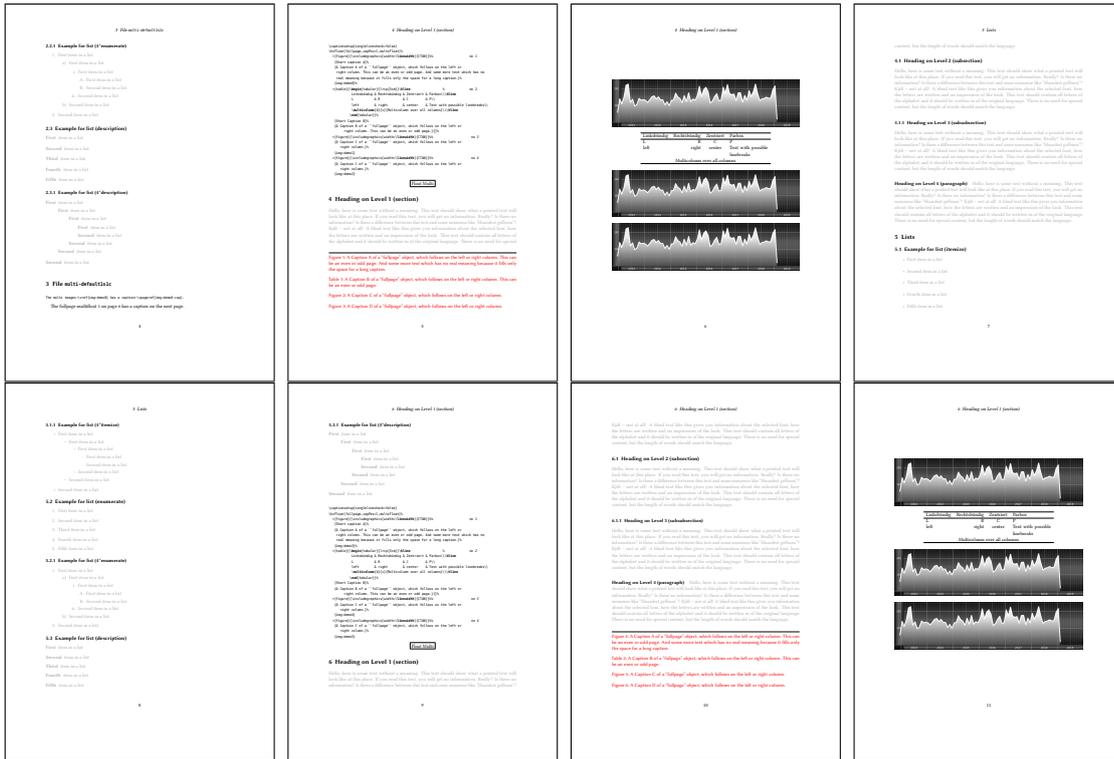


Figure 40: Output of multi-default1s1c (pages 4–11)

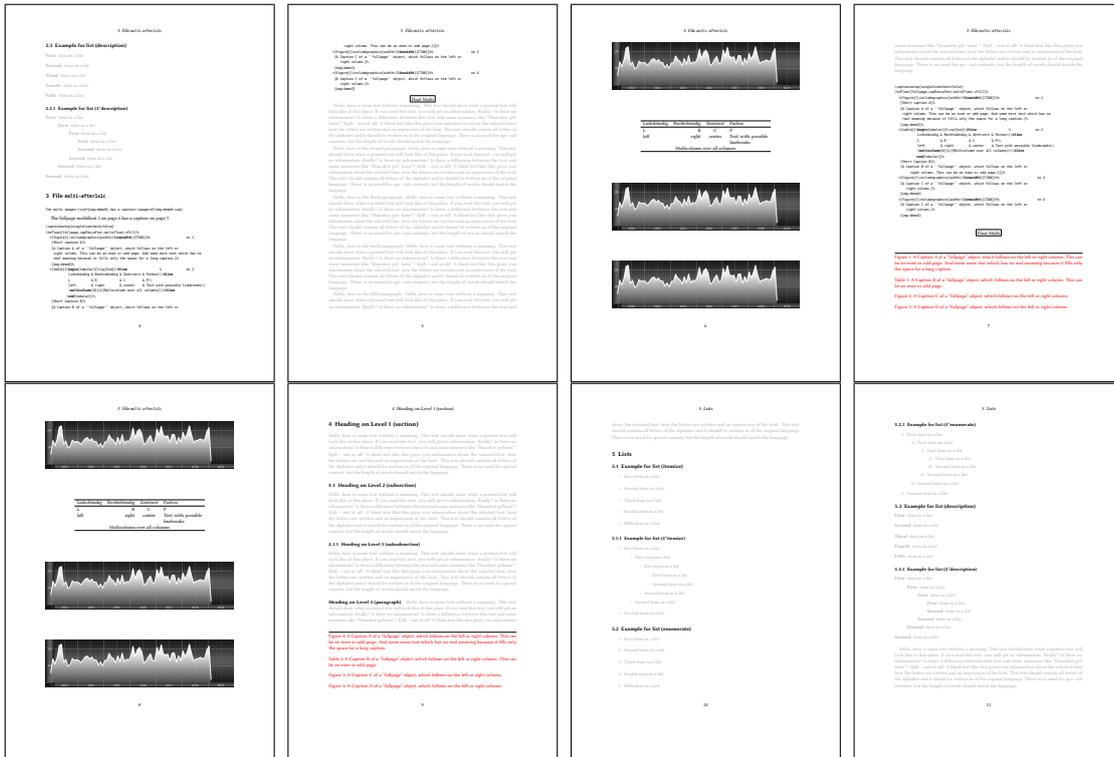


Figure 41: Output of multi-after1s1c (pages 4–11)

18 Subfloat page

A subfloat page can have only one type of floats which will have one main caption and individual subcaptions. The syntax is similar to the one for a multifloat page:

```
\hvFloat [Options] +{float type}{<empty>} [short caption] {long caption}{label}
      +{<empty>}{floating object} [short caption] {long caption}{label}
      +...
      +{<empty>}{floating object} [short caption] {long caption}{label}
```

Some arguments are ignored for a subfloat, one can leave them empty. The first line defines only the type and the main caption, the object entry is ignored! All additional lines will have the same float type, the reason why the float type entry is ignored.

```
1 \hvFloat[fullpage,capPos=before,objectFrame,subFloat,vFill]%
2 +{figure}{}[Short main caption of the objects]% main short lsi entry
3 {The main caption of a ``fullpage'' object, which follows on the left or
4 right column. This can be an even or odd page. And some more text which has no
5 real meaning because it fills only the space for a long caption.}% main caption
6 {sub:demo0}%
7 +{{\includegraphics[width=\linewidth]{images/CTAN}}}%
8 [Short caption B]%
9 {A Caption B of a ``fullpage'' sub object.}% subcaption
10 {}%
11 +{{\includegraphics[width=\linewidth]{images/CTAN}}}%
12 {A Caption C of a ``fullpage'' object, which follows on the left or right column.}%
13 {sub:demo1}
14 +{{\includegraphics[width=\linewidth]{images/CTAN}}}%
15 {A Caption D of a ``fullpage'' object}{sub:demo2}
16 +{{\includegraphics[width=\linewidth]{images/CTAN}}}%
17 {A Caption E of a ``fullpage'' object}{sub:demo3}
```

The keyword `subFloat` defines the images or tabulars as subfloats. The package `subcaption` is loaded by default and should be activated with `\captionsetup[sub][singlelinecheck]`.

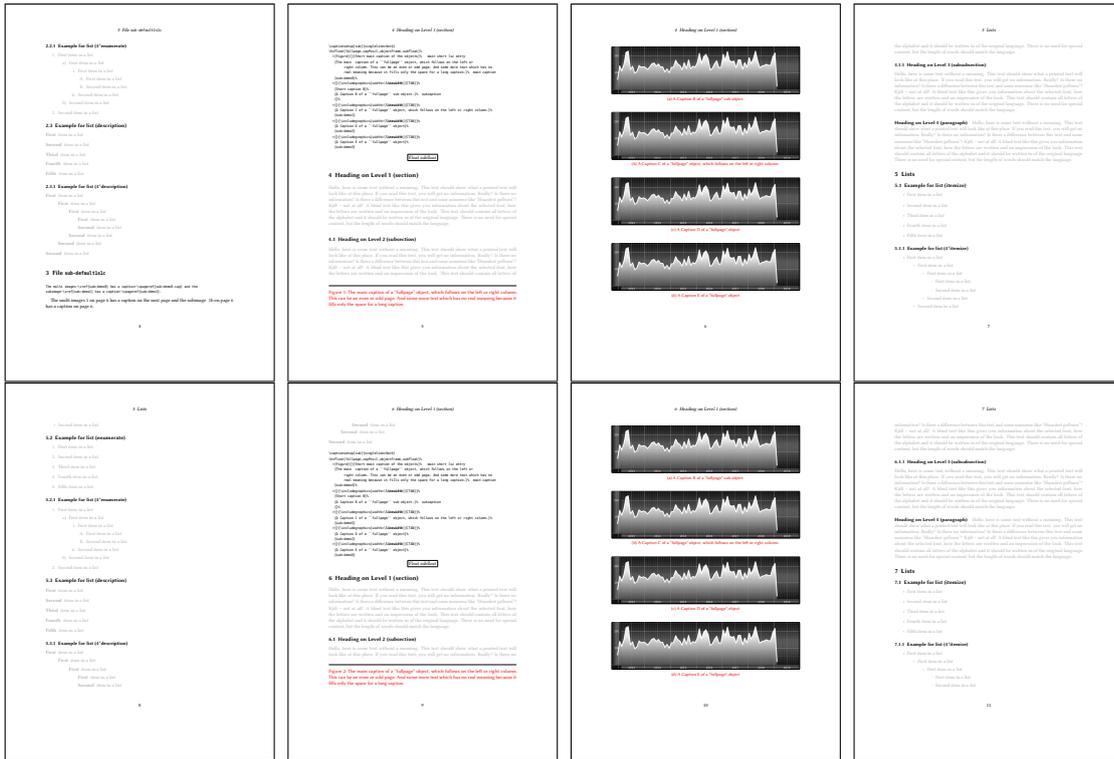


Figure 42: Output of sub-default1s1c (pages 4–11)

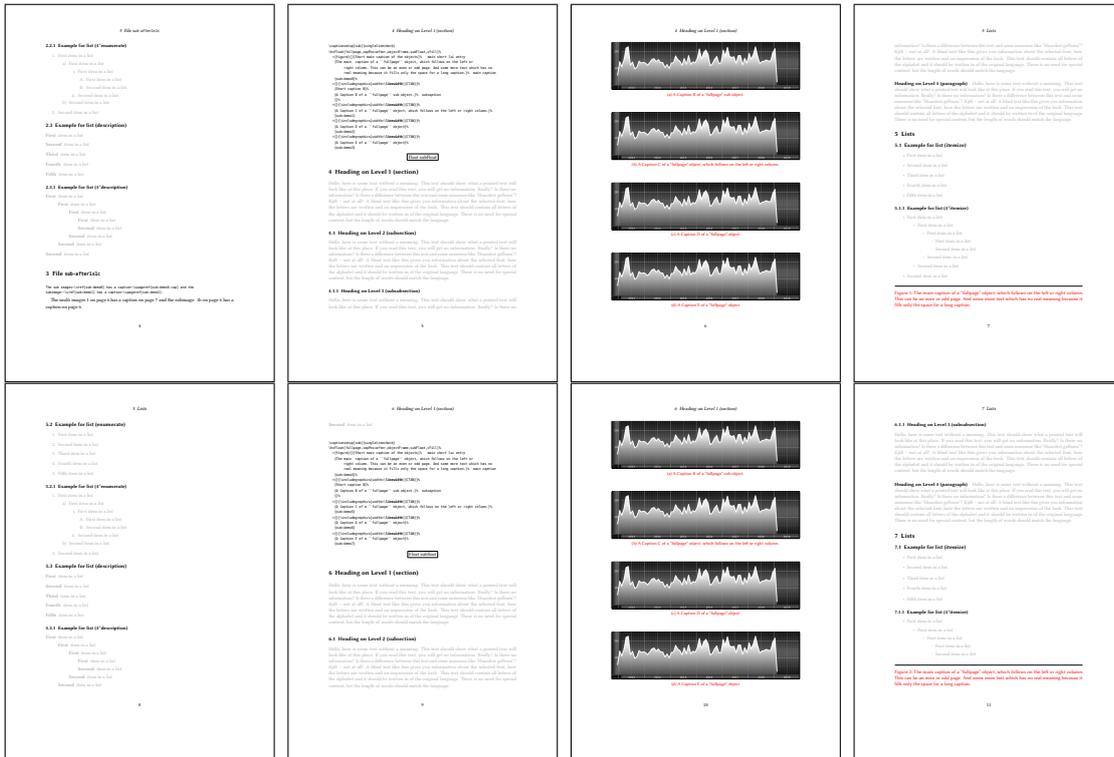


Figure 43: Output of sub-after1s1c (pages 4–11)

19 Full page objects in twocolumn mode

The filenames always have a “2c” for two columns in its names, e.g. left2s2c indicates capPos=before and the documentclass setting twoside and twocolumn. Depending to the used documentclass it can be a problem, if the caption should be placed on the first page of the whole document. In such a case use one of the other setting. Table 8 on page 31 shows the valid optional arguments for a full page floating object.

19.1 Default setting

For the twocolumn mode the caption can be in the left (first) or right (second) column. With the default setting (without using the keyword capPos) it is equivalent to the setting capPos=before, the caption is always placed *before* (left of) the object. This can be the first or the second column and both can be on different pages. With capPos=before (uppercase L) it is possible to get the caption and the object in the twocolumn mode always on one page. This is then the left (first) column for the caption (see figure 44).

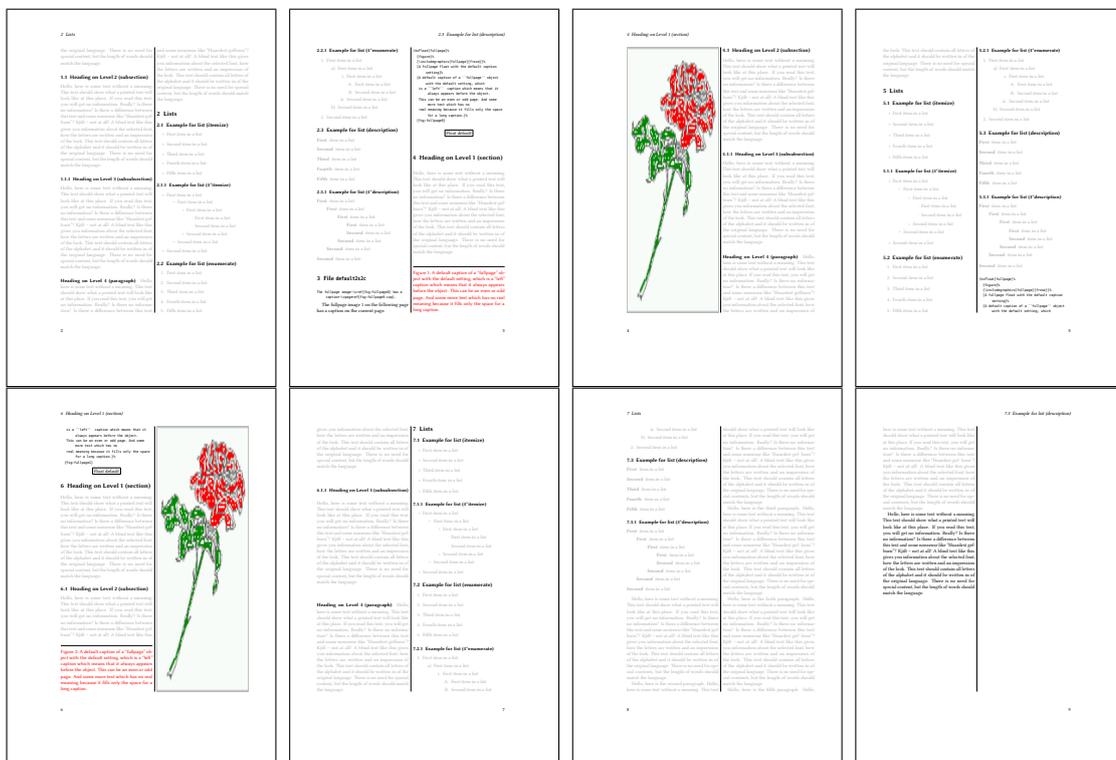


Figure 44: Output of default2s2c (pages 2–9)

```

1 \hvFloat[fullpage]{figure}%
2 {\includegraphics[width=\columnwidth,height=0.9\textheight]{images/frose}}%
3 [A float which needs the complete column width and height.]%
4 [A Caption of a ``fullpage'' object, which follows on the next column.
5 This is always the right column on an even or odd page. And some more
6 text which has no real meaning because it fills only the space for a long
7 caption.]%
8 {fig:fullpage0-2}

```

The example 44 shows that the caption and the object can be on different pages. If you do not like this behaviour, then use the setting capPos=left, which puts the caption before the

object, but always on the *same page* (see Figure 45).

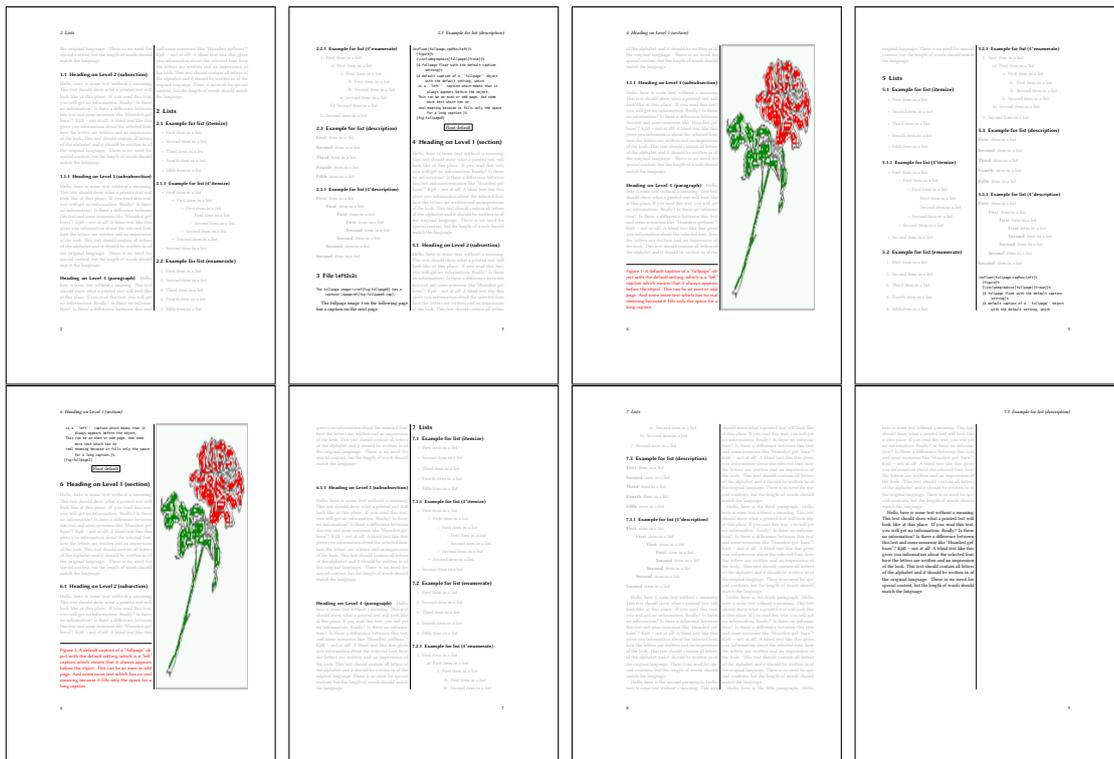


Figure 45: Output of left2s2c (pages 2–9)

19.1.1 Using capPos=after

The caption will be printed always right of the object which is the same as *after* the full page object. With capPos=after it is possible to get the caption in the twocolumn mode always in the right (second) column (see figure 47 on the next page)

```

1 \hvFloat[fullpage, capPos=after]{figure}%
2 {\includegraphics[fullpage]{images/rose}}%
3 [A float which needs the complete column width and height.]%
4 {A Caption of a ``fullpage'' object, which is on the left column.
5 This is always the right column on an even or odd page. And some more
6 text which has no real meaning because it fills only the space for a long
7 caption.}%
8 {fig:fullpage1-2}
    
```

The caption and the object can be on different pages (Figure 46 on the following page). If you do not like this behaviour, then use the setting capPos=right instead of capPos=after . Figure right2s2c shows that caption and object in this case are always on the same page.

19 Full page objects in twocolumn mode

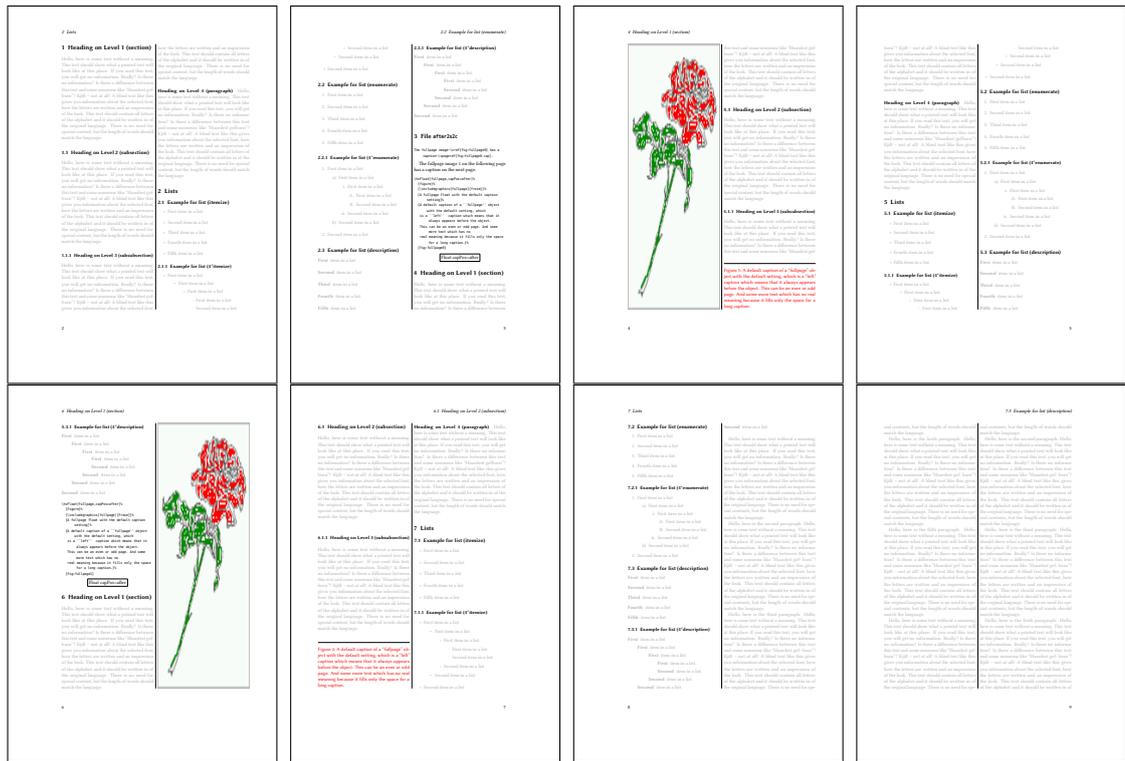


Figure 46: Output of after2s2c (pages 2–9)

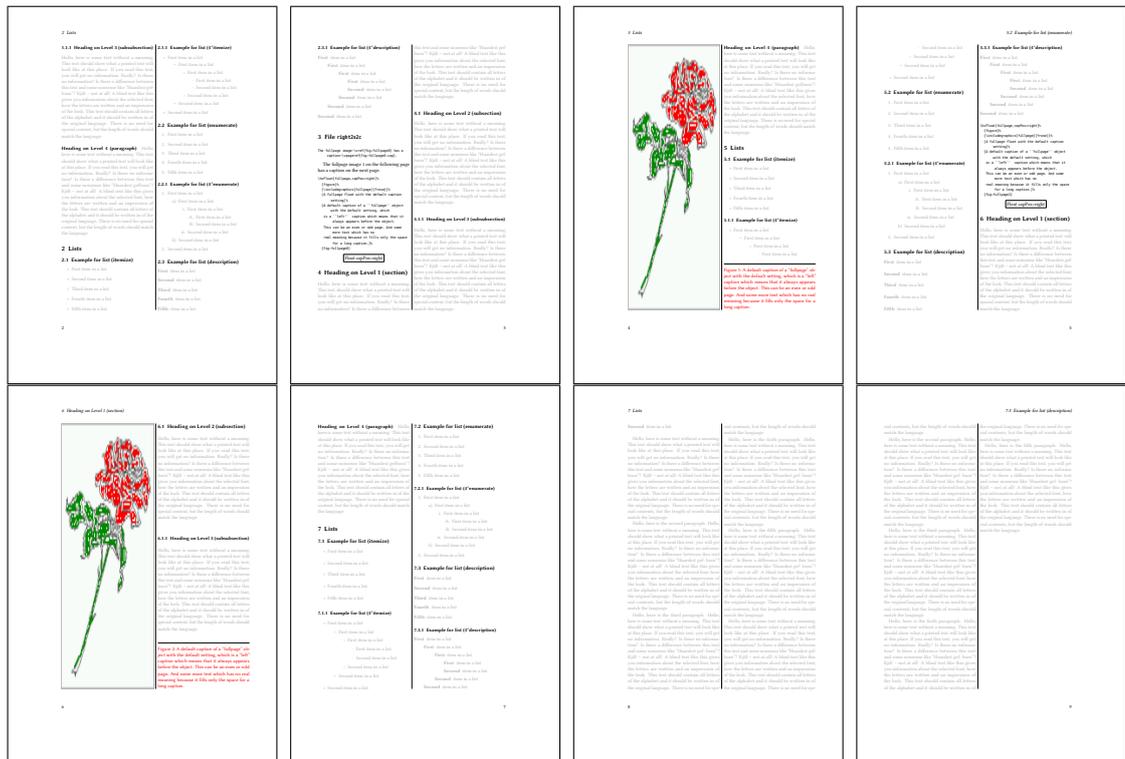


Figure 47: Output of right2s2c (pages 2–9)

19.1.2 Using capPos=evenPage — caption on an even page

There can be a problem if there is not enough space on the bottom of the even page. Then the caption will be on the next page which is an odd one. In such a case use a manually \clearpage or wait for an update of hvfloat.

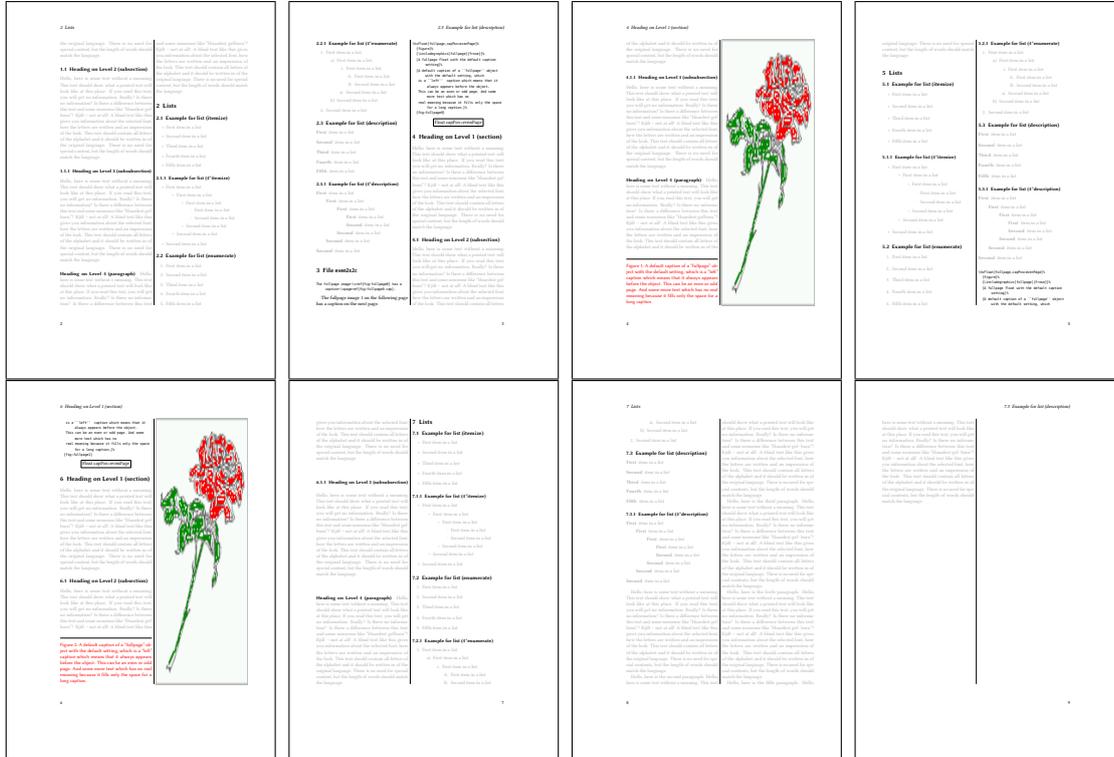


Figure 48: Output of even2s2c (pages 2–9)

19.1.3 Using capPos=oddPage — caption on an odd page

There can be a problem if there is not enough space on the bottom of the even page. Then the caption will be on the next page which is an odd one. In such a case use a manually `\clearpage` or wait for an update of `hvfloat`.

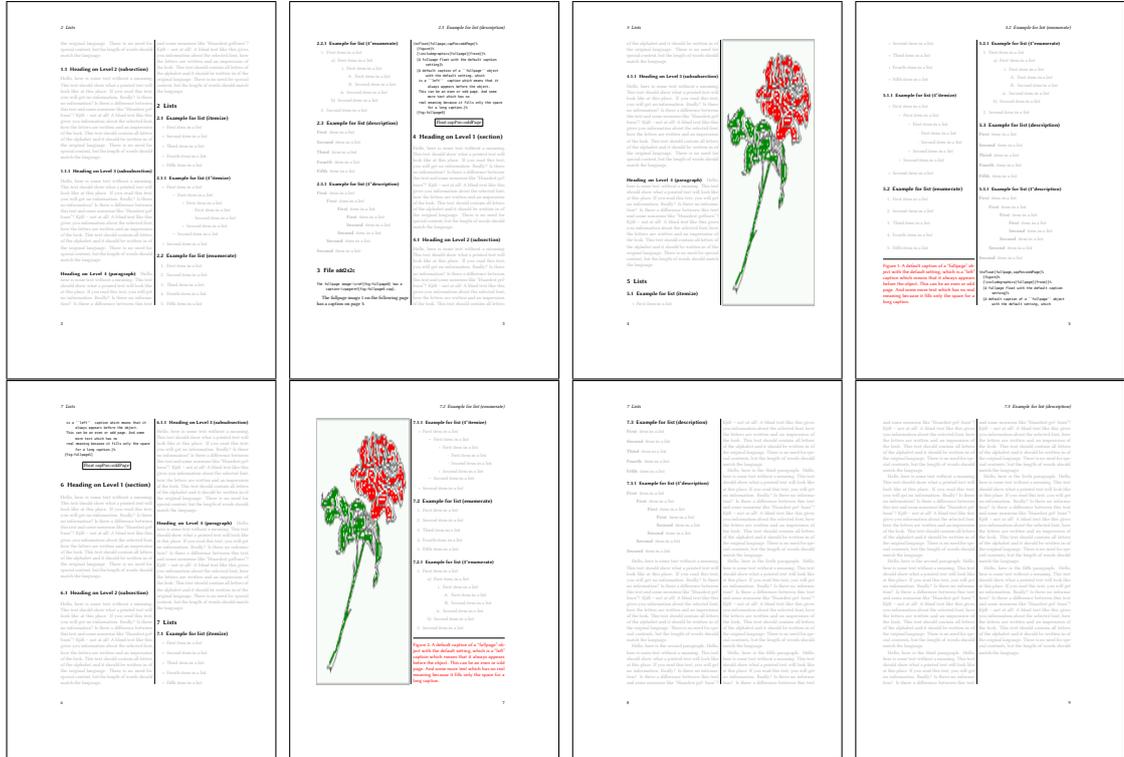


Figure 49: Output of odd2s2c (pages 2–9)

19.1.4 Using capPos=inner — caption in the inner column

The caption will be printed in the right column for an even page and in the left column for an odd page.

```

1 \hvfFloat[fullpage,capPos=inner]{figure}{\includegraphics[fullpage]{images/rose}}%
2 [A float which needs the complete column width and height.]%
3 {A Caption of a ``fullpage'' object, which follows on the left or right column.
4 This can be an even or odd page. And some more text which has no
5 real meaning because it fills only the space for a long caption.}{fig:fullpage3-2}

```

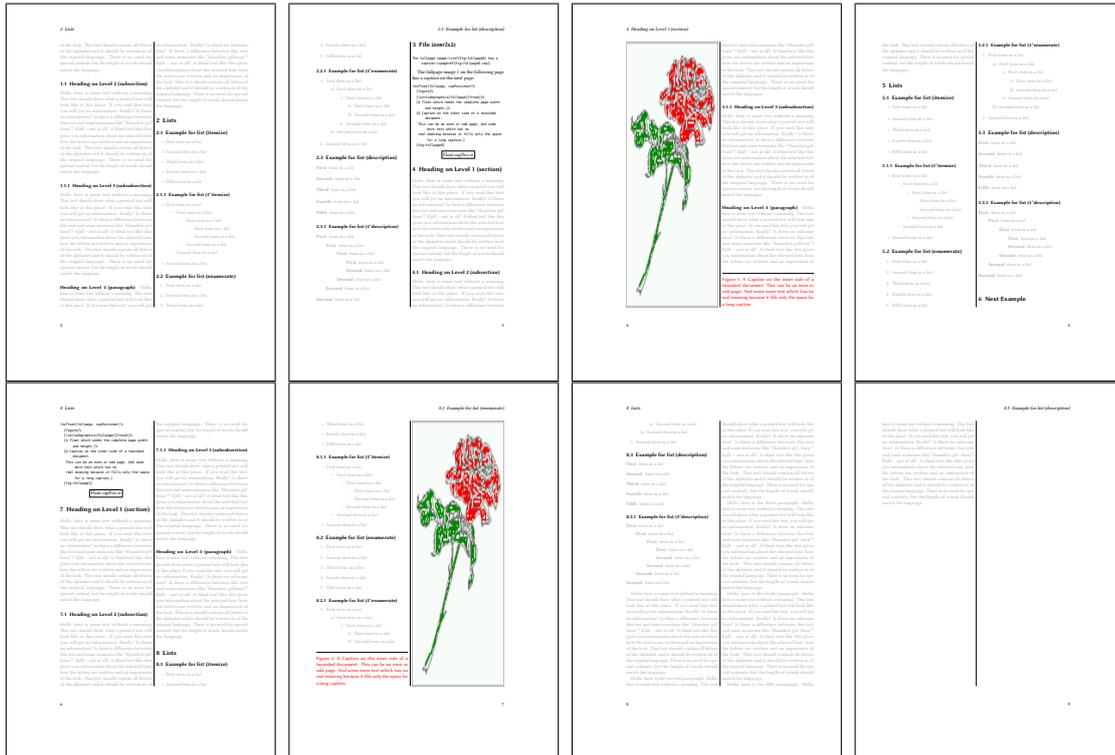


Figure 50: Output of inner2s2c (pages 2–9)

19.1.5 Using capPos=outer – caption on the outer column

The caption will be printed on the left column an odd page, the object can appear before or after this caption.

```

1 \hvfloate[fullpage, capPos=outer]{figure}%
2 {\includegraphics[fullpage]{images/rose}}%
3 [A float which needs the complete page width and height with \texttt{capPos=outer}.]%
4 {A Caption of a `fullpage' object, which has the caption position in the
5 outer page. This can be an even or odd page. And some more text which has no
6 real meaning because it fills only the space for a long caption.}{fig:fullpage2-2a}
    
```

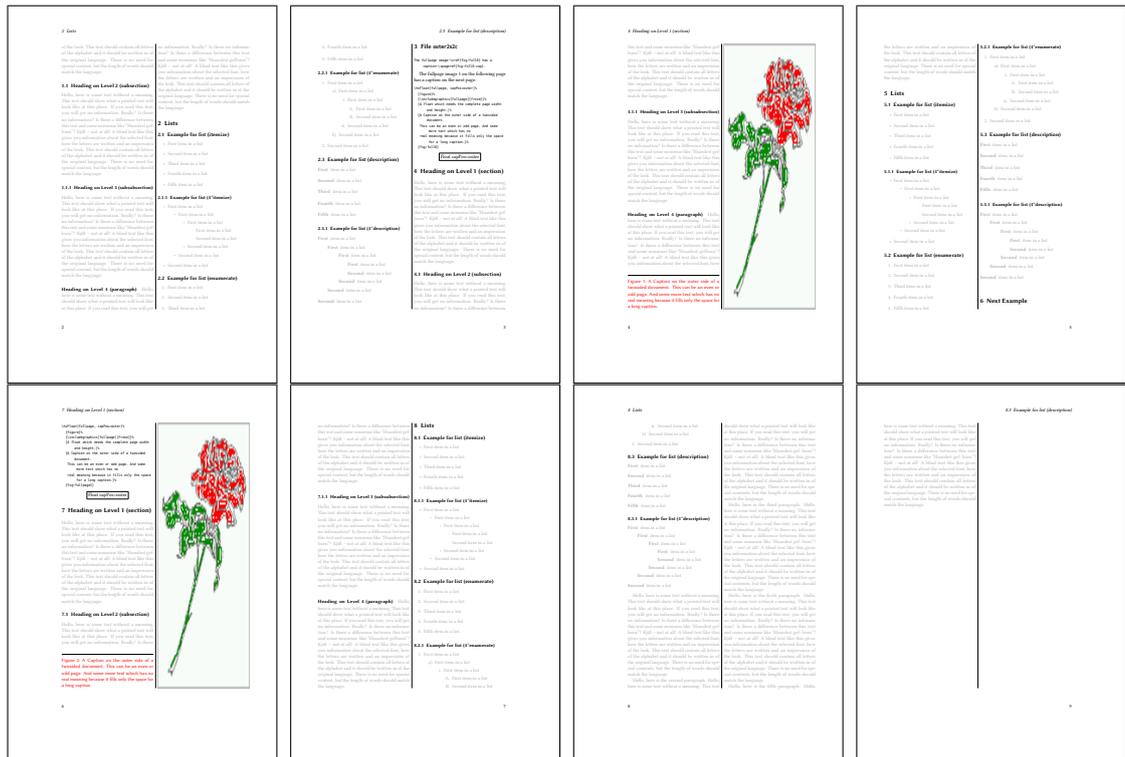


Figure 51: Output of outer2s2c (pages 2–9)

19.2 Using full page in twocolumn mode

With the star version of `\hvfloat` The object is placed over both columns, the whole page. In such a case the only useful caption position is `capPos=inner` for *inner*.

```

1 \hvfloat*[fullpage, capPos=inner]{figure}%
2 {\includegraphics[FullPage]{images/rose}}%
3 [A float which needs the complete page width and height with \texttt{capPos=outer}.]%
4 {A caption of a ``fullpage'' object in twocolumn mode: It uses the star version
5 of \textbackslash hvfloat. The object goes over both columns.}{fig:two}

```

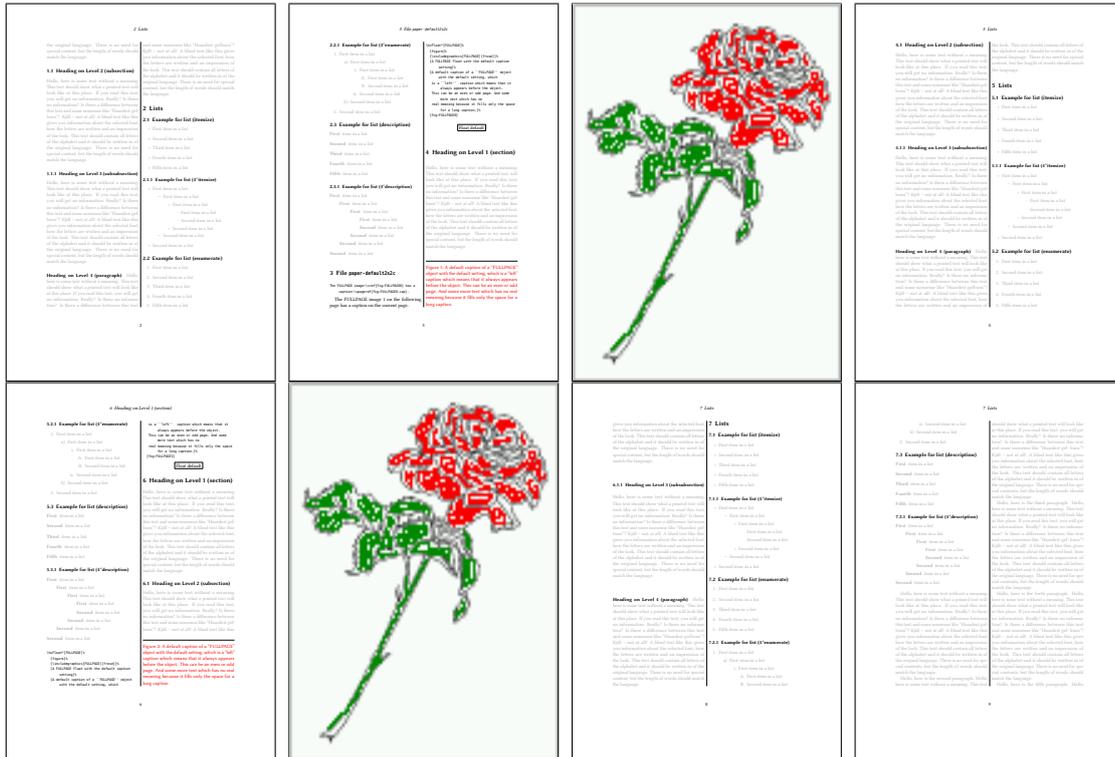


Figure 52: Output of paper-default2s2c (pages 2-9)

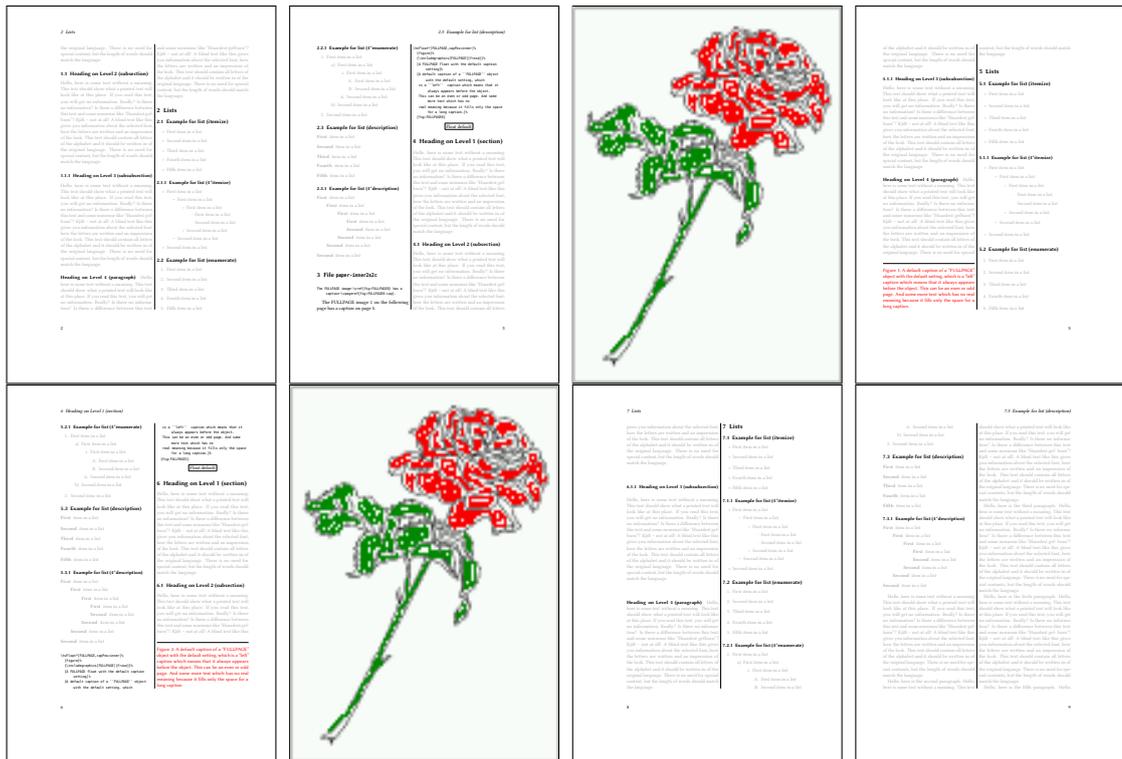


Figure 53: Output of paper-inner2s2c (pages 2–9)

19.3 Multifloats

Multifloats is the name for more than one image and/or tabular in *one* floating environment. Every image and/or tabular has its own caption, which is different to a subcaption. The + symbol defines an additional Object which will be part of the same floating environment. It's up too the user to be sure that one page or one column can hold all defined objects. Every object gets its own caption which is the reason why figures and tabulars and ... can be mixed:

```

1 \captionsetup{singlelinecheck=false}
2 \hvFloat[fullpage,multifloat,capPos=inner,vFill]%
3 +{figure}{\includegraphics[height=0.4\textheight]{images/rose}}% no 1
4 [Short caption A]%
5 {A Caption A of a ``fullpage'' object, which follows on the left or
6 right column. This can be an even or odd page. And some more text which has no
7 real meaning because it fills only the space for a long caption.}%
8 {multi:demo0}%
9 +{table}{\begin{tabular}{lr}\hline % no 2
10 Linksbündig & Rechtsbündig\\
11 L & R & \\
12 left & right & \\
13 \multicolumn{2}{c}{Multicolumn}}\hline
14 \end{tabular}}%
15 [Short Caption B]%
16 {A Caption B of a ``fullpage'' object, which follows on the left or
17 right column. This can be an even or odd page.}%
18 {}%
19 +{figure}{\includegraphics[height=0.4\textheight]{images/rose}}% no 3
20 {A Caption C of a ``fullpage'' object, which follows on the left or
21 right column.}%
22 {multi:demo1}
    
```

The page with the objects has no additional informations it holds only the figures and/or tabulars. If you want it like subfigures or subtabulars then go to section 18 on page 40. The setting `\captionsetup{singlelinecheck=false}` is needed if you want the captions always left aligned.

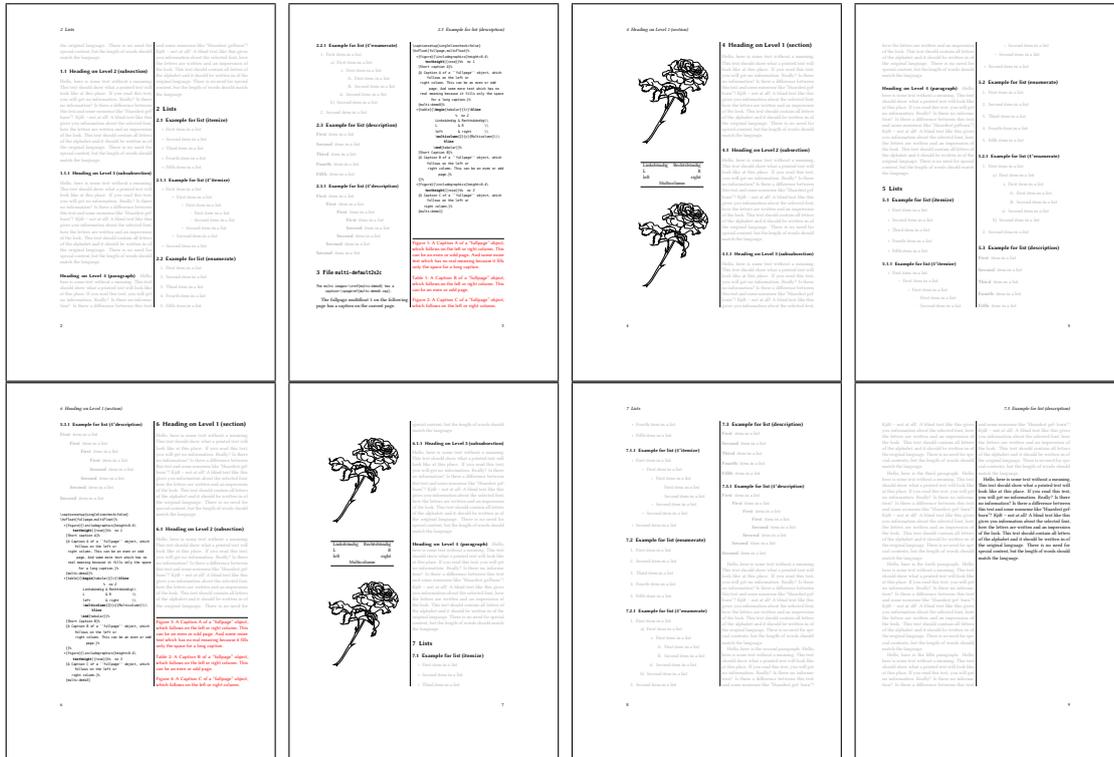


Figure 54: Output of multi-default2s2c (pages 2-9)

20 Subfloat page

A subfloat page can have only one type of floats which will have one main caption and individual subcaptions. Some arguments are ignored for a subfloat, one can leave them empty. The first line defines only the type and the main caption, the object entry is ignored! All additional lines will have the same float type, the reason why the float type entry is ignored.

```

1 \captionsetup[sub]{singlelinecheck}
2 \hvFloat[fullpage,capPos=before,objectFrame,subFloat,vFill]%
3 +{figure}{[Short main caption of the objects]% main short lsi entry
4   {The main caption of a ``fullpage'' object, which follows on the left or
5     right column. This can be an even or odd page. And some more text which has no
6     real meaning because it fills only the space for a long caption.}% main caption
7   {sub:demo00}%
8 +{{\includegraphics[height=0.28\textheight]{images/rose}}}%
9   [Short caption B]%
10  {A Caption B of a ``fullpage'' sub object.}% subcaption
11  }%
12 +{{\includegraphics[height=0.28\textheight]{images/rose}}}%
13  {A Caption C of a ``fullpage'' object, which follows on the left or right column.}%
14  {sub:demo10}
15 +{{\includegraphics[height=0.28\textheight]{images/rose}}}%
16  {A Caption D of a ``fullpage'' object}%
17  {sub:demo20}

```

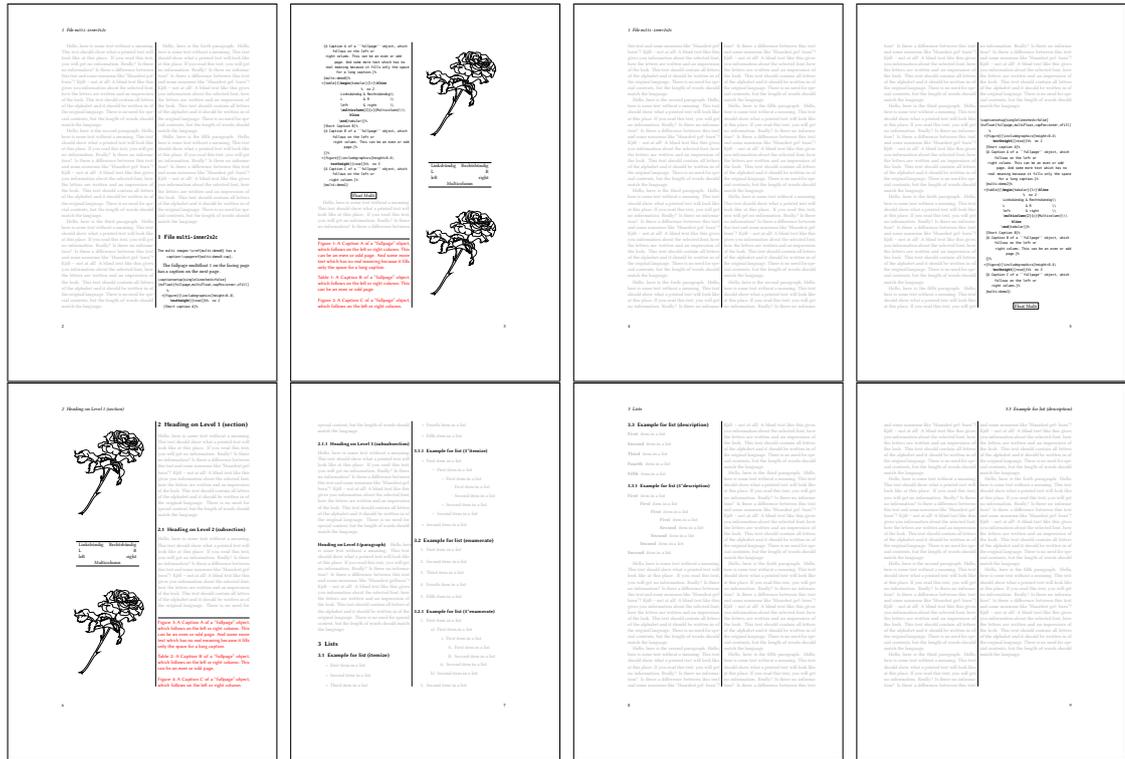


Figure 55: Output of multi-inner2s2c (pages 2-9)

The keyword `subFloat` defines the images or tabulars as subfloats. The package `subcaption` is loaded by default. For the subcaptions the `singlelinecheck` should be true (see listing).

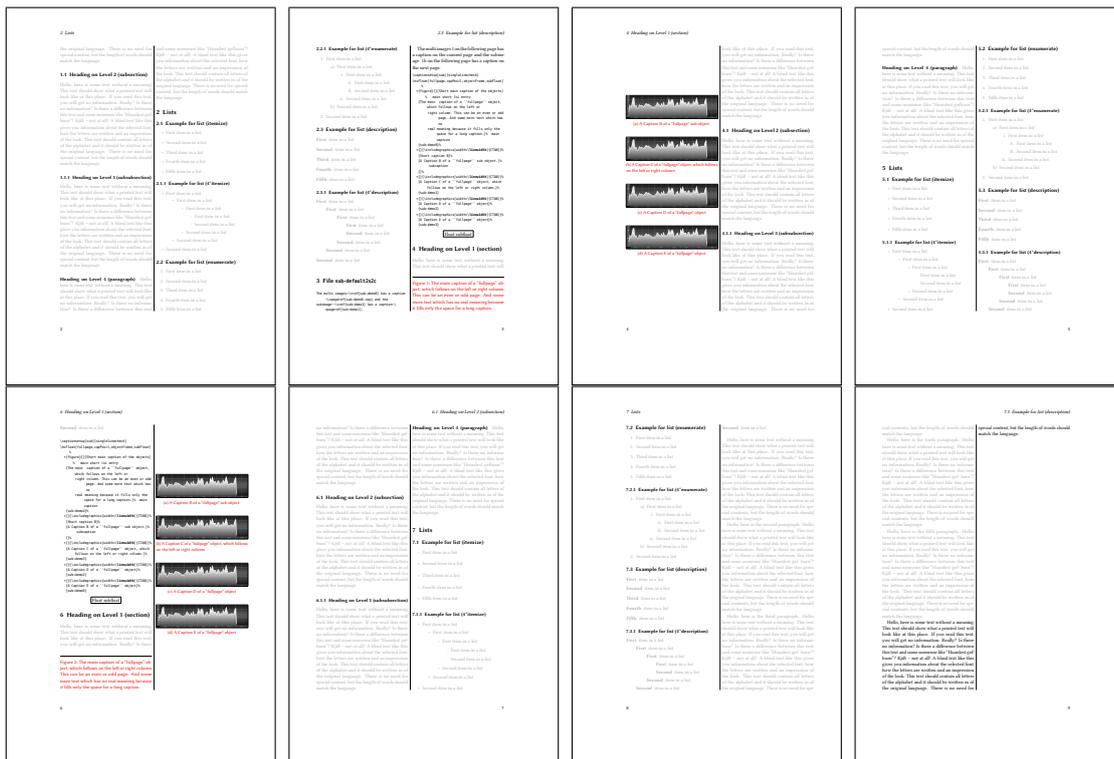


Figure 56: Output of sub-default2s2c (pages 2-9)

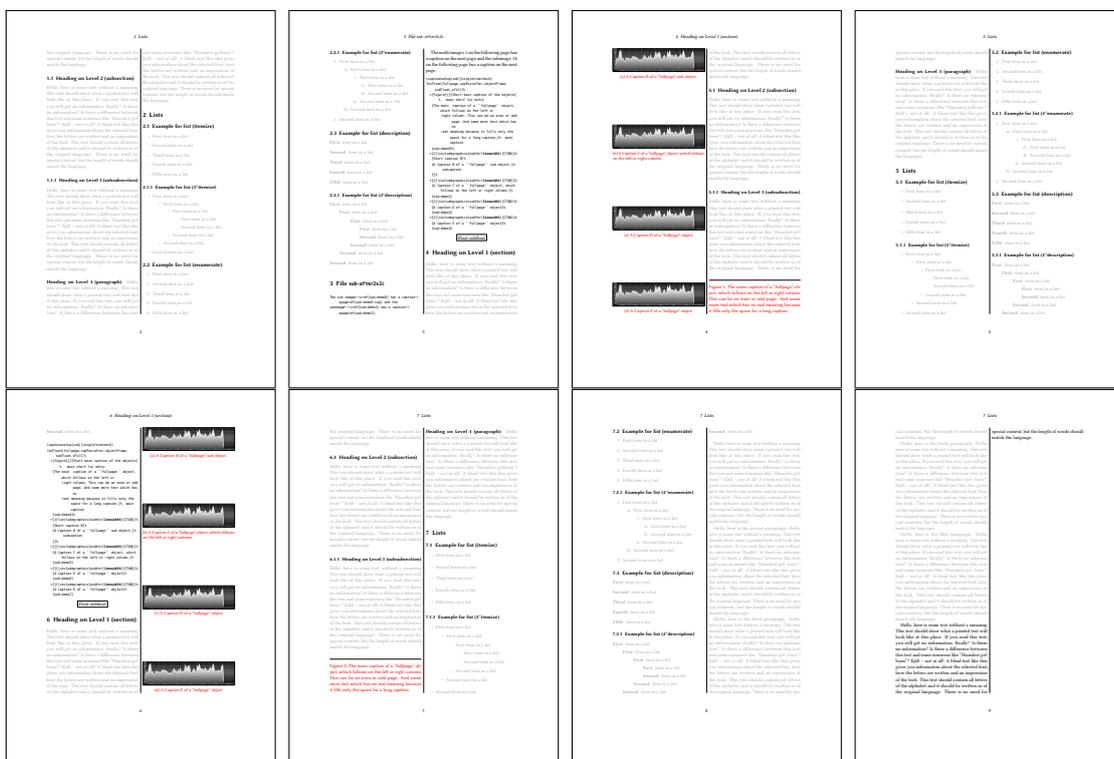


Figure 57: Output of sub-after2s2c (pages 2-9)

21 Doublepage objects – images and/or tabulars

If an image or a tabular or any other object is too big for one page, it can be split over two pages (left – right). It is obvious that this makes only sense for twoside documents. There are three optional arguments:

doublePage A splitted object with or without a caption on top of a double page, beginning in the left top text area. The user has to scale the image to be sure that the object will not be greater than $2\text{\paperwidth}-4\text{\margin}$. The caption can be rotated on the right side of the right object part or under the right part.

doublePAGE A splitted object with or without a caption on top of a double page, beginning at the left side of the paper area and top of the text area. The user has to scale the image to be sure that the object will not be greater than 2\paperwidth . The caption can only be under the right part of the object. The will be *no additional text* on the double page.

doubleFULLPAGE A splitted object with or without a caption on the right or below of a double page. The object can fill the complete double page. The user has to scale the image to be sure that the object will not be greater than 2\paperwidth . A caption will be rotated and written *over* the object, or if possible, at the right. The user has to take care for a correct text color.

21.1 doubleFULLPAGE

The scaling of the image is left to the user. If the proportion of the object doesn't fit $2\text{\paperwidth}/\text{\paperheight}$, then there can be a white part on the top or bottom of the object. A pagenumber will not be printed. In this documentation you'll find a marginnote where the following full doublepage image is defined. It appears on the the next following even page and following text will be placed *before* the object.

```

1 \hvFloat[doubleFULLPAGE,capPos=right,capAngle=90]%
2 {figure}%
3 {\includegraphics[width=2\paperwidth]{images/r+j2}}%
4 [A doublepage image with a caption on the image.]%
5 {A caption for a double-sided image that will be placed below the right-hand
6 part of the illustration. The illustration begins on the left edge of the paper.
7 No further text is placed on the pages. A short form is used for the LOF.
8 The parameter is \texttt{doubleFULLPAGE}}%
9 {fig:doubleFULLPAGE0}

```

Fig. 58

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

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Figure 58: A caption for a double-sided image that will be placed on the right-hand part of the illustration. The illustration begins on the left edge of the paper. No further text is placed on the pages. A short form is used for the LOF. The parameter is doubleFULLPAGE

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It is also possible to take a bind correction into account with e.g. `binCorr=5mm`, which reserves whitespace of 5mm in the inner margin on both pages.

```

1 \hvFloat[doubleFULLPAGE,capPos=after,bindCorr=5mm]%
2 {figure}%
3 {\includegraphics[width=2\paperwidth]{images/r+j3}}%
4 [A doublepage image with a caption on the image.]%
5 {A caption for a double-sided image that will be placed below the right-hand
6 part of the illustration. The illustration begins on the left edge of the paper.
7 No further text is placed on the pages. A short form is used for the LOF.
8 The parameter is \texttt{doubleFULLPAGE}}%
9 {fig:doubleFULLPAGE0a}

```

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Fig. 59

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Figure 59: A caption for a double-sided image that will be placed on the right-hand part of the illustration. The illustration begins on the left edge of the paper. No further text is placed on the pages. A short form is used for the LOF. The parameter is `doubleFULLPAGE`

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```

1 \hvFloat[doubleFULLPAGE,capPos=right]%
2 {figure}%
3 {\includegraphics[height=\paperheight]{images/rheinsberg-1000}}%
4 {A caption for a double-sided image that will be placed on the right-hand
5 part of the illustration. The illustration begins on the left edge of the paper.
6 No further text is placed on the pages. A short form is used for the LOF.
7 The parameter is \texttt{doubleFULLPAGE}}%
8 {fig:doubleFULLPAGE1}

```

And after the second paragraph follows the third paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

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Fig. 60





Figure 60: A caption for a double-sided image that will be placed on the right-hand part of the illustration. The illustration begins on the left edge of the paper. No further text is placed on the pages. A short form is used for the LOF. The parameter is doubleFULLPAGE

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Placing the caption on the image itself is not the best solution. With the optional arguments before and after for capPos, the caption can be placed on the bottom of the preceding or following page of the doublepage object. A givel label, e.g. foo will always point to the page with the left part of the object. Internally are two additional labels defined: foo-cap points to the caption and foo-2 points to the right part of the doublepage object.

In the following example 61 the caption is on page 70, the left image part on page 68 and the right part on page 69. In the following example 62 the caption is on page 73, the left image part on page 74 and the right part on page 75. All three labels points to the same figure or table number:

```
\ref{foo} | \ref{foo-cap} | \ref{foo-2} → 61 | 61 | 61
\pageref{foo} | \pageref{foo-cap} | \pageref{foo-2} → 68 | 70 | 69
```

```
1 \hvFloat[doubleFULLPAGE,capPos=after]%
2 {figure}%
3 {\includegraphics[doubleFULLPAGE,
4   keepaspectratio=false]{images/rheinsberg-1000}}%
5 {A caption for a double-sided image that will be placed \textbf{after}
6   the image. The image begins on the left edge of the paper.
7   No further text is placed on the pages. A short form is used for the LOF.
8   The parameter is \texttt{doubleFULLPAGE}}%
9 {foo}
```

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And after the second paragraph follows the third paragraph. Hello, here is some text

Fig. 61





without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

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Figure 61: A caption for a double-sided image that will be placed **after** the image. The image begins on the left edge of the paper. No further text is placed on the pages. A short form is used for the LOF. The parameter is `doubleFULLPAGE`

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```

1 \hvFloat[doubleFULLPAGE,capPos=before]%
2 {figure}%
3 {\includegraphics[height=\paperheight,width=2\paperwidth,
4   keepaspectratio=false]{images/rheinsberg-1000}}%
5 {A caption for a double-sided image that will be placed \textbf{before}
6   the image. The image begins on the left edge of the paper.
7   No further text is placed on the pages. A short form is used for the LOF.
8   The parameter is \texttt{doubleFULLPAGE}}%
9 {bar}

```

Fig. 62

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Figure 62: A caption for a double-sided image that will be placed **before** the image. The image begins on the left edge of the paper. No further text is placed on the pages. A short form is used for the LOF. The parameter is doubleFULLPAGE





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21.2 doublePAGE

With this option the object also starts at the left paper margin but on the top of the text area. There will be pagenumbers and a caption can be rotated on the right of the object or under it.

```

1 \hvFloat[doublePAGE]%
2 {figure}%
3 {\includegraphics[width=\dimexpr2\textwidth+2in]{images/seiser}}%
4 [A doublepage image with a caption below the right part.]%
5 {A caption for a double-sided image that will be placed below the right-hand
6 part of the illustration. The illustration begins on the left edge of the paper.
7 No further text is placed on the pages. A short form is used for the LOF.
8 The parameter is \texttt{doublePAGE}}%
9 {fig:doublePAGE0}

```

Fig. 63

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Figure 63: A caption for a double-sided image that will be placed below the right-hand part of the illustration. The illustration begins on the left edge of the paper. No further text is placed on the pages. A short form is used for the LOF. The parameter is doublePAGE

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21.3 doublePage

With this option the object also starts at the left top of the text area. There will be pagenumbers and a caption can be rotated on the right of the object or under it and the rest of the text area is filled with text.

```

1 \hvFloat[doublePage,sameHeight]%
2 {figure}%
3 {\includegraphics[doublefullPage]{images/sonne-meer}}%
4 [A doublepage image with a caption on the right side of the right part.]%
5 {A caption for a double-sided image that will be placed on the right side of the
6 right-hand part of the illustration. The illustration begins on the left edge of
7 the paper. A short form is used for the LOF.
8 The parameter is \texttt{doublePage}}%
9 {fig:doublePage@sH}

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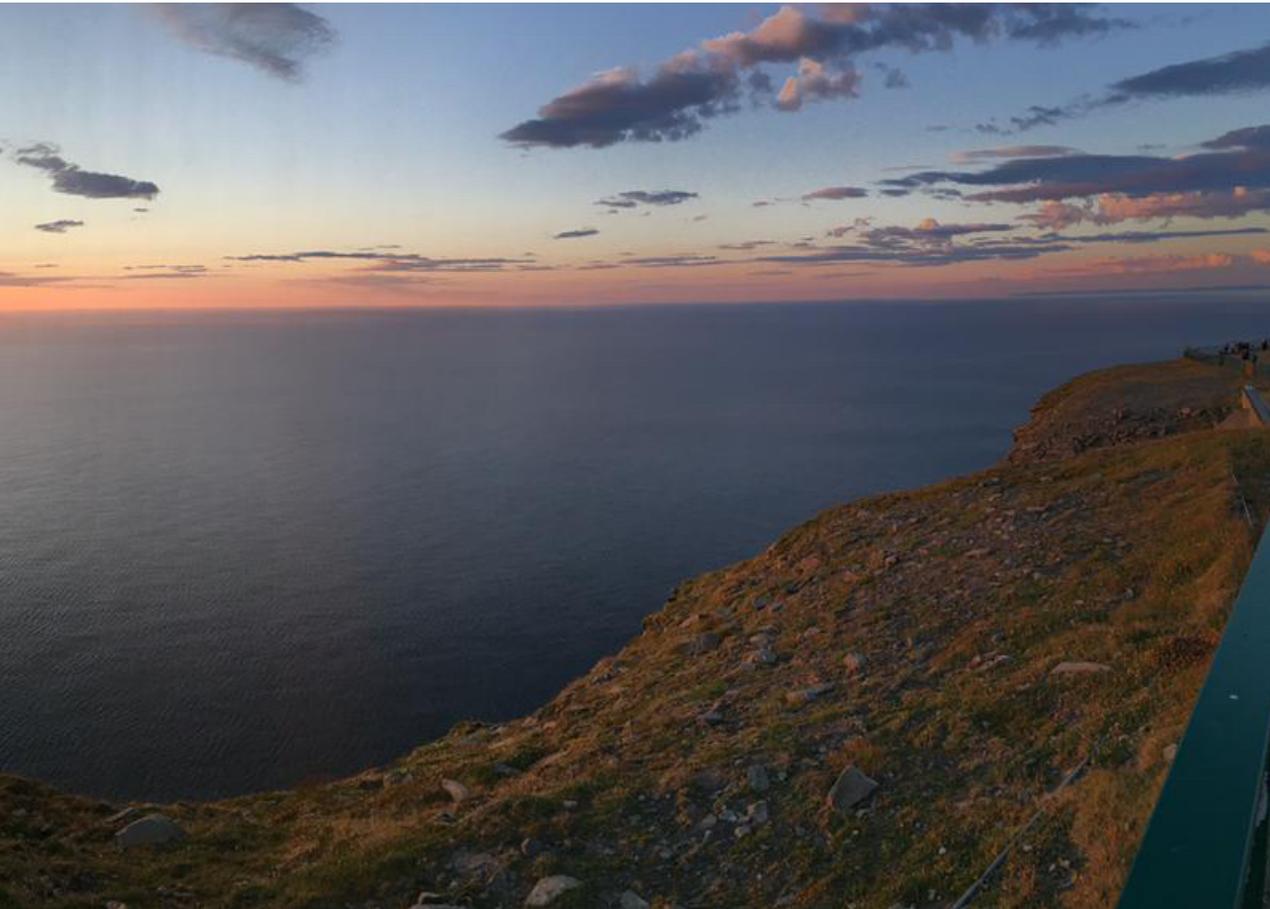


Figure 64: A caption for a double-sided image that will be placed on the right side of the right-hand part of the illustration. The illustration begins on the left edge of the paper. A short form is used for the LOF. The parameter is `doublePage`

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1 \hvFloat[doublePage,capPos=right,capVPos=top]%
2 {figure}%
3 {\includegraphics[width=2\textwidth]{images/sonne-meer}}%
4 [A doublepage image with a caption on the right side of the right part.]%
5 {A caption for a double-sided image that will be placed on the right side of the
6 right-hand part of the illustration. The illustration begins on the left edge of
7 the paper. A short form is used for the LOF.
8 The parameter is \texttt{doublePage}}%
9 {fig:doublePage1}

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Fig. 65

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Figure 65: A caption for a double-sided image that will be placed on the right side of the right-hand part of the illustration. The illustration begins on the left edge of the paper. A short form is used for the LOF. The parameter is doublePage

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1 \hvFloat[doublePage,bindCorr=inner]%
2 {figure}%
3 {\includegraphics[width=2\textwidth]{images/sonne-meer}}%
4 [A doublepage image with a caption on the right side of the right part.]%
5 {A caption for a double-sided image that will be placed on the right side of the
6 right-hand part of the illustration. The illustration begins on the left edge of
7 the paper. A short form is used for the LOF.
8 The parameter is \texttt{doublePage}}%
9 {fig:doublePage@sh2}

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Fig. 66

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Figure 66: A caption for a double-sided image that will be placed on the right side of the right-hand part of the illustration. The illustration begins on the left edge of the paper. A short form is used for the LOF. The parameter is doublePage

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21.4 Tabulars

In General there is no difference in an image or tabular or simple text. The object will be saved in a box and then clipped. If the object is a tabular one might modify the tabular if it will be split in the middle of a column. In such a case one can insert some additional horizontal space for this coloumn.

The tabular itself can be saved into the internal box `\hv0Box` or put directly as parameter into the macro.

```

1 \global\savebox\hv0Box{%
2 \begin{tabular}{l*{18}r} \toprule
3 & \textbf{1972} & \textbf{1973} & \textbf{1974} & \textbf{1975} & \textbf{1976}
4 & \textbf{1977} & \textbf{1978} & \textbf{1979} & \textbf{1980} & \textbf{1981} & \textbf{1982} & \
& \textbf{1983} & \textbf{1984} & \textbf{1985}
5 & \textbf{1986} & \textbf{1987} & \textbf{1988} & \textbf{1989}
6 \\ \midrule
7 \addlinespace[3pt]
8 Zeile 1 & 1 & 1 & 3 & 1 & 1 & 1 & 0 & 1 & 1 & 0 & 0 & 0 & 0 & 20 & 0 & 2 & 2 & 2 & 1 \\ \addlinespace[3pt]
9 Zeile 2 & 1 & 1 & 3 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 1 & 3 & 4 & 4 & 6 & 4 & 2 \\ \addlinespace[3pt]
10 Zeile 3 & 2 & 1 & 2 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 5 & 3 & 1 & 7 & 7 & 3 \\ \addlinespace[3pt]
11 Zeile 4 & 1 & 0 & 5 & 1 & 2 & 0 & 0 & 0 & 0 & 0 & 2 & 1 & 0 & 1 & 0 & 3 & 7 & 2 & 1 \\ \addlinespace[3pt]
12 Zeile 6 & 2 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 2 & 0 & 5 & 2 & 2 & 5 & 4 & 2 \\ \addlinespace[3pt]
13 Zeile 5 & 0 & 0 & 4 & 2 & 1 & 2 & 2 & 1 & 0 & 0 & 0 & 1 & 1 & 0 & 2 & 5 & 4 & 3 \\ \addlinespace[3pt]
14 Zeile 8 & 0 & 1 & 1 & 0 & 0 & 0 & 1 & 1 & 1 & 0 & 3 & 2 & 1 & 2 & 1 & 3 & 5 & 3 & 4 \\ \addlinespace[3pt]
15 Zeile 9 & 0 & 0 & 0 & 0 & 0 & 1 & 2 & 1 & 0 & 0 & 0 & 0 & 4 & 2 & 1 & 4 & 5 & 2 \\ \addlinespace[3pt]
16 Zeile10 & 0 & 1 & 3 & 0 & 1 & 0 & 1 & 0 & 0 & 1 & 1 & 0 & 1 & 1 & 1 & 4 & 4 & 1 \\ \addlinespace[3pt]
17 Zeile11 & 0 & 2 & 2 & 1 & 1 & 0 & 1 & 0 & 0 & 0 & 0 & 2 & 6 & 1 & 0 & 2 & 1 & 1 \\ \addlinespace[3pt]
18 Zeile12 & 2 & 0 & 2 & 4 & 1 & 0 & 4 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 3 \\ \addlinespace[3pt]
19 Lärm & 2 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 2 & 0 & 0 & 2 & 2 & 2 \\ \addlinespace[3pt]
20 Zeile13 & 0 & 1 & 0 & 0 & 1 & 0 & 3 & 0 & 0 & 0 & 0 & 2 & 0 & 1 & 3 & 0 & 2 \\ \addlinespace[3pt]
21 Zeile14 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 3 & 2 & 1 & 1 & 0 \\ \addlinespace[3pt]
22 Zeile15 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 4 & 0 & 0 & 3 & 1 & 1 \\ \addlinespace[3pt]
23 Zeile16 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 5 & 0 & 1 \\ \addlinespace[3pt] \
midrule
24 Artikel gesamt & 2 & 6 & 13 & 8 & 4 & 3 & 5 & 4 & 0 & 6 & 3 & 5 & 23 & 10 & 8 & 15 & 13 & 1 \\ \
25 \bottomrule
26 \end{tabular}}
27
28 \Blindtext
29
30 \hvFloat[doublePage,capPos=right,capVPos=top,floatCapSep=12pt]%
31 {table}%
32 {\usebox\hv0Box}%%%%%%%%%%
33 [A doublepage tabular with a caption on the right side of the right part.]%
34 {A caption for a double-sided tabular that will be placed on the right side of the
35 right-hand part of the illustration. The illustration begins on the left edge of
36 the paper. A short form is used for the LOF.
37 The parameter is \texttt{doublePage}}%
38 {tab:doublePage3}

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	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Zeile 1	1	3	1	1	1	0	1	1	0	0	0	0
Zeile 2	1	1	3	1	0	0	0	0	0	0	0	2
Zeile 3	2	1	2	1	0	0	0	0	0	0	0	0
Zeile 4	1	0	5	1	2	0	0	0	0	2	1	0
Zeile 6	2	1	1	0	0	0	0	0	0	1	2	0
Zeile 5	0	0	4	2	1	2	2	1	0	0	0	0
Zeile 8	0	1	1	0	0	0	1	1	0	3	2	0
Zeile 9	0	0	0	0	0	1	2	1	0	0	0	0
Zeile10	0	1	3	0	1	0	1	0	0	1	1	0
Zeile11	0	2	2	1	1	0	1	0	0	0	0	0
Zeile12	2	0	2	4	1	0	4	0	0	0	0	0
Lärm	2	3	0	0	0	0	0	0	0	0	0	1
Zeile13	0	1	0	0	1	0	3	0	0	0	0	0
Zeile14	0	1	0	0	0	0	0	0	0	0	0	0
Zeile15	0	0	0	0	0	0	0	0	0	1	0	0
Zeile16	0	0	0	0	0	1	0	0	0	0	0	0
Artikel gesamt	2	6	13	8	4	3	5	4	0	6	3	0

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33	1984	1985	1986	1987	1988	1989
0	20	0	2	2	2	1
1	3	4	4	6	4	2
1	5	3	1	7	7	3
0	1	0	3	7	2	1
0	5	2	2	5	4	2
1	1	0	2	5	4	3
1	2	1	3	5	3	4
0	4	2	1	4	5	2
0	1	1	1	4	4	1
2	6	1	0	2	1	1
0	0	0	0	1	0	3
0	2	0	0	2	2	2
0	2	0	1	3	0	2
0	3	3	2	1	1	0
0	4	0	0	3	1	1
0	0	0	3	5	0	1
5	23	10	8	15	13	1

Table 9: A caption for a double-sided tabular that will be placed on the right side of the right-hand part of the illustration. The illustration begins on the left edge of the paper. A short form is used for the LOF. The parameter is doublePage

words should match the language.

22 References to the page

With the command `\pageref` one can have a reference to the page number of a caption. For the `fullpage` option this can be the wrong page if someone wants a reference to the page where the object is set. Let's assume that we use something like

```
\hvFloatSetDefaults
\hvFloat[fullpage,capPos=evenPage]{figure}%
  {\IncludeGraphics{images/frose}}%
  [A float which needs the complete paper width and height.]%
  {A Caption of a ``fullpage'' object, which follows on the next page.
   This can be an even or odd page. The object uses the complete paper dimensions}%
  {demo:fullpage}
```

The label `demo:fullpage` is used for the *image* and not for the caption! Internally another label called `demo:fullpage-cap` is set on the caption page which can be before or behind the object (depending to the optional argument of `capPos`). For example:

The caption of figure~\ref{demo:fullpage-cap} is on page~\pageref{demo:fullpage-cap}, but the image itself is on page~\pageref{demo:fullpage}.

The caption of figure 68 is on page 97, but the image itself is on page 98. With package `varioref` it is:

24 Global float setting

With the package `\pack{varioref}` ([\url{https://ctan.org/pkg/varioref}](https://ctan.org/pkg/varioref)) one can get something like: see figure-`\vref{demo:fullpage}`, which uses a correct page number of the floating object and not the caption page number which is-`\vpageref{demo:fullpage-cap}`. The figure-`\ref{demo:fullpage}` is on page-`\pageref{demo:fullpage}` and the caption on page-`\pageref{demo:fullpage-cap}`

With the package `varioref` (<https://ctan.org/pkg/varioref>) one can get something like: see figure **68 on page 98**, which uses a correct page number of the floating object and not the caption pagenumber which is on the next page. The figure **68** is on page **98** and the caption on page **97**

23 Defining a style

With `\hvDefFloatStyle` one can define a special style to get rid of the individual setting:

```
\hvDefFloatStyle{name}{setting}
```

For example:

```
1 \hvDefFloatStyle{RightCaption}{floatPos=htb, capWidth=0.5, capPos=after,  
2                               capVPos=bottom, objectPos=center}  
3  
4 \hvFloat[style=RightCaption]{figure}{\includegraphics{images/rose}}%  
5   {Caption vertically centered right beside the float with a caption width of  
6   \texttt{0.5\textbackslash columnwidth}.}{fig:style}
```



Figure 67: Caption at bottom right beside the float with a caption width of `0.5\columnwidth`.

24 Global float setting

Instead of writing the following sequence into the preamble:

```
\makeatletter  
\renewcommand\fps@figure{tb}  
\renewcommand\fps@table{t}  
\makeatother
```

you can change the global setting of floats by loading the package `hvfloating-fps`. It allows optional package options to set the global placement:

```
\usepackage[figure=tb,table=t]{hvfloating-fps}
```

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Figure 68: A Caption of a “fullpage” object, which follows on the next page. This can be an even or odd page. The object uses the complete paper dimensions



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- inner, 14, 30, 35, 47, 49
- l, 21, 23
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25 The Package Source

```
1 %% $Id: hvfloat.sty 617 2022-10-02 14:25:10Z herbert $
2 %%
3 %%
4 %% IMPORTANT NOTICE:
5 %%
6 %% This is file `hvfloat.sty',
7 %%
8 %% Herbert Voss <hvoss@tug.org>
9 %% Copyright (C) 2003-22
10 %%
11 %% This program can be redistributed and/or modified under the terms
12 %% of the LaTeX Project Public License Distributed from CTAN archives
13 %% in directory macros/latex/base/lppl.txt.
14 %%
15 %% DESCRIPTION:
16 %% `hvfloat' offers rotating of captions and objects for floats
17 %%
18 \NeedsTeXFormat{LaTeX2e}
19 \def\fileversion{2.43}
20 \def\filedate{2022/11/07}
21 \ProvidesPackage{hvfloat}[\filedate\space \fileversion\space special floating objects (hv)]
22 \let\hvFloatFileVersion\fileversion
23 %
24 \newif\ifhv@fbox \hv@fboxfalse
25 \newif\ifhv@hyperref \hv@hyperreffalse
26 \newif\ifhv@nostfloats \hv@nostfloatsfalse
27 \newif\ifhv@tugboat \hv@tugboatfalse
28
29 \DeclareOption{fbox}{\hv@fboxtrue\setlength\fbboxsep{1pt}}
30 \DeclareOption{hyperref}{\hv@hyperreftrue}
31 \DeclareOption{nostfloats}{\hv@nostfloatstrue}
32 \DeclareOption{no-stfloats}{\hv@nostfloatstrue}
33
34 \ProcessOptions
35
36
37 \PassOptionsToPackage{hycap}{caption}
38 \RequirePackage{caption}
39 \RequirePackage{varwidth}
40 \DeclareCaptionBox{varwidth}{\varwidth[b]{#1}#2\endvarwidth}
41
42 \PassOptionsToPackage{hycap}{subcaption}
43 \RequirePackage{subcaption}
44 \RequirePackage{atbegshi}
45 \RequirePackage{picture,trimclip}
46
47 \RequirePackage{expl3,multido}
48 \RequirePackage{graphicx}
49 \RequirePackage{varwidth}
50
51 \RequirePackage{xkeyval}
52 \RequirePackage{ifoddpages}
53 \RequirePackage{afterpage}
54
55 \ifhv@hyperref
56   \RequirePackage{hyperref}
57 \fi
58
59 \ifhv@nostfloats
60 \else
61   \RequirePackage{stfloats}% for bottom floats in a twocolumn mode
62   % \RequirePackage{floatpag}% for bottom floats in a twocolumn mode
63 \fi
64 %
```

```

65 %\def\hv@thisfloatpagestyle#1{%
66 % \global\@namedef{\number\currbox @float}{\thispagestyle{#1}}\relax
67 %}
68
69 \providecommand*\LenToUnit[1]{\strip@pt\dimexpr#1*\p@/\unitlength}
70
71 \newlength\hvObjectWidth
72 \newlength\hvCapWidth
73 \newlength\hvWideWidth
74 \newlength\hvMultiFloatSkip
75 \newlength\hvMaxCapWidth
76 \newlength\hvFloatFullWidth % only for user purpose
77 \AtBeginDocument{\hvFloatFullWidth=\the\dimexpr\textwidth+\marginparwidth+\marginparsep\relax}
78
79
80 \newsavebox\hvObjectBox
81 \newsavebox\hvCaptionBox
82 \newsavebox\hvOBox
83 \newsavebox\@tempbox
84 \newsavebox\hv@caption@box
85 \newsavebox\hv@leftBox
86 \newsavebox\hv@rightBox
87
88 \newif\ifhv@capbeside \hv@capbesidefalse
89 \newif\ifhv@switchType
90
91 \def\hv@Top{top}
92 \def\hv@Bottom{bottom}
93 \def\hv@After{after}
94 \def\hv@Before{before}
95 \def\hv@Right{right}
96 \def\hv@Left{left}
97 \def\hv@Center{center}
98 \def\hv@Outer{outer}
99 \def\hv@Inner{inner}
100 \def\hv@Even{evenPage}
101 \def\hv@Odd{oddPage}
102 \def\hv@Natural{n}
103 \def\hv@LineWidth{l}
104 \def\hv@Width{w}
105 \def\hv@Height{h}
106 \def\hv@Zero{0}
107 %
108 \def\hv@figure{figure}
109 %
110 \define@key{hvSet}{floatPos}[tbp]{% LaTeX's position parameters htpb
111   \def\hvSet@floatPos{#1}%
112 }
113 \define@key{hvSet}{rotAngle}[0]{% rotates caption AND image together
114   \def\hvSet@rotAngle{#1}%
115 }
116 \define@key{hvSet}{capWidth}[n]{% (l)inewidth|(n)atural width|object (w)idth|object (h)eight|<scale
117   of \columnwidth>
118   \def\hvSet@capWidth{#1}%
119 }
120 \define@key{hvSet}{capAngle}[0]{% -360..+360, only integers
121   \def\hvSet@capAngle{#1}%
122 }
123 \define@choicekey*+{hvSet}{capPos}[\val\nr]{bottom,top,left,before,right,after,inner,outer,evenPage,
124   oddPage}[bottom]{%
125   \def\hvSet@capPos{#1}% it is relativ to the object, (e),(d) only valid for fullpage float
126   \ifcase\nr\relax
127     \hv@capbesidefalse
128   \or
129     \hv@capbesidefalse

```

```

130 \hv@capbesidetrue
131 \fi
132 }{\PackageWarning{hvfloat}{erroneous input (#1) for capPos ignored. Using bottom.}%
133 \def\hvSet@capVPos{bottom}% it is relativ to the object, (e),(d) only valid for fullpage float
134 \hv@capbesidefalse
135 }
136
137 \define@choicekey*+{hvSet}{capVPos}[\val\nr]{bottom,center,top}[center]{%
138 \def\hvSet@capVPos{#1}% it is relativ to the object
139 \ifcase\nr\relax
140 \def\hv@capVPos{b}%
141 \or
142 \def\hv@capVPos{c}%
143 \else
144 \def\hv@capVPos{t}%
145 \fi
146 }{\PackageWarning{hvfloat}{erroneous input (#1) for capVPos ignored. Using center.}%
147 \def\hvSet@capVPos{center}% it is relativ to the object
148 }
149
150 \define@choicekey*+{hvSet}{capHPos}[\val\nr]{left,center,right}[center]{%
151 \def\hvSet@capHPos{#1}%
152 \ifcase\nr\relax
153 \gdef\hv@capHPos{l}%
154 \or
155 \gdef\hv@capHPos{c}%
156 \else
157 \gdef\hv@capHPos{r}%
158 \fi
159 }{\PackageWarning{hvfloat}{erroneous input (#1) for capHPos ignored. Using center.}%
160 \def\hvSet@capHPos{center}% it is relativ to the object
161 }
162
163 \define@choicekey*+{hvSet}{objectPos}[\val\nr]{left,center,right,inner,outer}[center]{%
164 \def\hvSet@objectPos{#1}% it is relativ to the object
165 }{\PackageWarning{hvfloat}{erroneous input (#1) for objectPos ignored. Using center.}%
166 \def\hvSet@capVPos{center}% it is relativ to the object
167 }
168 \define@key{hvSet}{objectAngle}[0]{% -360..+360
169 \def\hvSet@objectAngle{#1}%
170 }
171 \define@key{hvSet}{floatCapSep}[5pt]{% a width with the unit pt
172 \def\hvSet@floatCapSep{#1}%
173 }
174 \define@key{hvSet}{multiFloatSkip}[\normalbaselineskip]{% a width with the unit pt
175 \setlength\hvMultiFloatSkip{#1}%
176 }
177 \define@boolkey{hvSet}[hv@]{useOBox}[true]{}% use of the hvOBox contents
178 \define@boolkey{hvSet}[hv@]{nonFloat}[true]{}% Do not use float environment
179 \define@boolkey{hvSet}[hv@]{onlyText}[true]{}% Write the caption only as text
180 \define@boolkey{hvSet}[hv@]{wide}[true]{}% Write the caption only as text
181 \define@boolkey{hvSet}[hv@]{twoColumnCaption}[true]\global\@nameuse{hv@twoColumnCaption#1}{% Write the
182 caption only as text
183 \define@boolkey{hvSet}[hv@]{sameHeight}[true]{\@nameuse{hv@sameHeight#1}}% Write the caption only as text
184 \define@boolkey{hvSet}[hv@]{Debug}[true]{}% give more infos in the terminal
185
186 \newif\ifhv@fullpage
187 \newif\ifhv@FULLPAGE
188 \newif\ifhv@doubleFULLPAGE
189 \newif\ifhv@doublePAGE
190 \newif\ifhv@doublePage
191 \newif\ifhv@setObjectLabel
192 \newif\ifhv@global@sameHeight
193 \newif\ifhv@forceOutput
194
195 \newlength\hvSet@bindCorrection

```

```

196 \newlength\hvSet@sepLineskip
197 \newlength\hv@leftPageObjectWidth% for doublepage images
198 \newlength\hv@tempWidthA
199 \newlength\hv@tempWidthB
200 \newlength\hv@minTextlines
201 \newlength\hv@floatCapSep
202 \newlength\hvSet@bindCorr
203
204 \define@key{hvSet}{fullpage}[true]{\global\@nameuse{hv@fullpage#1}}%
205 \define@key{hvSet}{FULLPAGE}[true]{\global\@nameuse{hv@FULLPAGE#1}}
206 \define@key{hvSet}{doubleFULLPAGE}[true]{\global\@nameuse{hv@doubleFULLPAGE#1}\hv@doublePagefalse\
hv@doublePAGEfalse}
207 \define@key{hvSet}{doublePAGE}[true]{\global\@nameuse{hv@doublePAGE#1}\hv@doublePagefalse\
hv@doubleFULLPAGEfalse}
208 \define@key{hvSet}{doublePage}[true]{\global\@nameuse{hv@doublePage#1}\hv@doublePAGEfalse\
hv@doubleFULLPAGEfalse}
209 \define@key{hvSet}{bindCorr}[0pt]{%
210   \def\hv@temp{#1}%
211   \ifx\hv@temp\hv@Inner
212     \hvSet@bindCorr=\the\dimexprlin+\oddsidemargin\relax
213   \else
214     \setlength\hvSet@bindCorr{#1}%
215   \fi
216 }
217 %\setlength\hvSet@bindCorrection{#1}}% for doublepage objects
218
219 \define@boolkey{hvSet}[hv@]{subFloat}[true]{% typeset values as subfloats
220   \ifhv@subFloat\setkeys{hvSet}{multiFloat=false}\fi%
221 }%
222 \define@boolkey{hvSet}[hv@]{multiFloat}[true]{% typeset values as continous floats
223   \ifhv@multiFloat\setkeys{hvSet}{subFloat=false}\fi
224 }%
225 \define@boolkey{hvSet}[hv@]{vFill}[true]{}% \vfill between multifold objects
226
227 \define@boolkey{hvSet}[hv@]{separatorLine}[true]{}% separator line for caption of a full page float
228 \define@key{hvSet}{sepLineskip}{\def\hv@sepLineskip{#1}}%
229 \define@key{hvSet}{minTextlines}{\setlength\hv@minTextlines{#1\baselineskip}}%
230 \define@boolkey{hvSet}[hv@]{objectFrame}[true]{}% a frame around the object with no separation
231 \define@key{hvSet}{style}{%
232   \ifundefined{hv@#1}%
233     {\errmessage{Custom style `#1' undefined}}%
234     {\begingroup
235       \edef\x{\endgroup\noexpand\setkeys{hvSet}{\@nameuse{hv@#1}}\x}% use a defined style
236     }
237 \define@key{hvSet}{capFormat}{\def\hv@caption@format{#1}}%
238 \define@key{hvSet}{subcapFormat}{\def\hv@subcaption@format{#1}}%
239 \define@boolkey{hvSet}[hv@]{forceOutput}[true]{%
240   \ifhv@forceOutput\hv@nonFloattrue\fi}% immediate output, no floating!
241
242 \def\hv@set#1{\begingroup\edef\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x}
243 \let\hvFloatSet\hv@set
244 %
245 \def\defhvstyle#1#2{\@namedef{hv@#1}{#2}}
246 \let\hvDefFloatStyle\defhvstyle % better name
247 %
248 \newcommand\setDefaults{%
249   \hv@set{%
250     floatPos=, rotAngle=0, capWidth=n, capAngle=0, objectAngle=0,
251     capPos=bottom, capVPos=center, objectPos=center, capHPos=center,
252     floatCapSep=5pt, useOBox=false,
253     onlyText=false, wide=false, fullpage=false, FULLPAGE=false,
254     doubleFULLPAGE=false, doublePage=false, doublePAGE=false,
255     multiFloat=false, subFloat=false,
256     separatorLine, objectFrame=false, multiFloatSkip=\normalbaselineskip,
257     capFormat={}, subcapFormat={}, twoColumnCaption=false,
258     sameHeight=false,
259     bindCorr=\z@, sepLineskip=0pt,

```

```

260     vFill=false, minTextlines=2,
261     forceOutput=false, nonFloat=false,
262 }%
263 }
264
265 \let\hvFloatSetDefaults\setDefaults
266 \hvFloatSetDefaults% only for first loading of the package
267
268 \providecommand\hv@typeout[1]{\ifhv@Debug\typeout{>>>> #1}\fi}
269
270 \providecommand\@tugclass{\@empty}
271 \ifx\@tugclass\@empty
272 \else
273   \hv@tugboattrue % special page handling
274   \hv@typeout{>>> we are using a TUGboat class}%
275 \fi
276
277 \newcommand\reset@special@float{%
278   \hv@set{subFloat=false,%fullpage=false,
279     multiFloat=false,%FULLPAGE=false
280 }}
281
282 \def\hv@vskip{\vspace{\hvMultiFloatSkip}}
283 %
284 \newlength\hvAboveCaptionSkip
285 \newlength\hvBelowCaptionSkip
286 \newlength\hv@dblftop
287 \newlength\hv@fptop
288 \newcount\hv@capPos
289
290 \newlength\fbboxlinewidth
291 \AtBeginDocument{%
292   \fbboxlinewidth=\the\dimexpr\linewidth-2\fbboxrule-2\fbboxsep\relax
293 }
294
295 \setlength\belowcaptionskip{\abovecaptionskip}% it is in latex.ltx = 0pt
296 \newcommand\saveCaptionSkip{%
297   \setlength{\hvAboveCaptionSkip}{\abovecaptionskip}%
298   \setlength{\hvBelowCaptionSkip}{\belowcaptionskip}%
299   \setlength{\abovecaptionskip}{0pt}%
300   \setlength{\belowcaptionskip}{0pt}%
301 }
302 \newcommand\restoreCaptionSkip{%
303   \setlength\abovecaptionskip{\hvAboveCaptionSkip}%
304   \setlength\belowcaptionskip{\hvBelowCaptionSkip}%
305 }
306
307 \newcommand\hv@set@noverticalSpace{% no space on top for a float page
308   \let\hv@dblftop\@dblftop
309   \let\hv@fptop\@fptop
310   \global\@dblftop=0\p@
311   \global\@fptop=0\p@
312 }
313
314 \newcommand\hv@reset@noverticalSpace{%
315   \global\@dblftop=\hv@dblftop
316   \global\@fptop=\hv@fptop
317 }
318
319 \providecommand\figcaption[2][{}]%
320 \providecommand\tabcaption[2][{}]%
321 \providecommand\tabcaptionbelow[2][{}]%
322 %
323 \renewcommand\figcaption[2][{}%
324   \begingroup
325   \def\@caption{figure}%
326   \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi

```

```

327 \ifx\relax#1\relax \caption{#2}\else\caption{#1}{#2}\fi
328 \endgroup}
329 \renewcommand\tabcaption[2][]{%
330 \begingroup
331 \def\@captype{table}%
332 \expandafter\captionsetup\expandafter{\hv\caption@format,position=top}%
333 \ifx\relax#1\relax \caption{#2}\else\caption{#1}{#2}\fi
334 \endgroup}
335 \renewcommand\tabcaptionbelow[2][]{%
336 \begingroup
337 \def\@captype{table}%
338 \expandafter\captionsetup\expandafter{\hv\caption@format,position=below}
339 \ifx\relax#1\relax \caption{#2}\else\caption{#1}{#2}\fi
340 \endgroup}
341
342 %
343 \newlength\hv@maxImageWidth
344 \AtBeginDocument{\setlength\hv@maxImageWidth{\columnwidth}}
345
346 \define@key{Gin}{columnwidth}[true]{%
347 \def\Gin@ewidth{\columnwidth}%
348 % \def\Gin@eheight{lex}%
349 \Gin@boolkey{true}{iso}%
350 }
351 \define@key{Gin}{fullpage}[true]{%
352 \def\Gin@ewidth{\columnwidth}%
353 \def\Gin@eheight{\textheight}%
354 \Gin@boolkey{false}{iso}%
355 }
356 \define@key{Gin}{FullPage}[true]{%
357 \def\Gin@ewidth{\textwidth}%
358 \def\Gin@eheight{\textheight}%
359 \Gin@boolkey{false}{iso}%
360 }
361 \define@key{Gin}{FULLPAGE}[true]{%
362 \def\Gin@ewidth{\paperwidth}%
363 \def\Gin@eheight{\paperheight}%
364 \Gin@boolkey{false}{iso}%
365 }
366 \define@key{Gin}{doubleFULLPAGE}[true]{%
367 \def\Gin@ewidth{2\paperwidth}%
368 \def\Gin@eheight{\paperheight}%
369 \Gin@boolkey{false}{iso}%
370 }
371 \define@key{Gin}{doublefullPage}[true]{%
372 \def\Gin@ewidth{\the\dimexpr2\paperwidth-2in-2\evensidemargin}%
373 % \def\Gin@eheight{\paperheight}%
374 \Gin@boolkey{true}{iso}%
375 }
376 \define@key{Gin}{doubleFULLPAGEbindCorr}[true]{%
377 \def\Gin@ewidth{\the\dimexpr2\paperwidth-2\hvSet@bindCorrection\relax}%
378 \def\Gin@eheight{\paperheight}%
379 \Gin@boolkey{false}{iso}%
380 }
381
382 \newcommand\IncludeGraphics[2][]{%
383 \vspace*{\the\dimexpr-lin-\voffset+\topskip-\headheight-0.5\baselineskip}%
384 \leavevmode\checkoddpage
385 \ifoddpage
386 \hspace*{\dimexpr-\oddsidemargin-\parindent-lin}%
387 \else
388 \hspace*{\dimexpr-\evensidemargin-\parindent-lin}%
389 \fi\noindent
390 \includegraphics[#1,width=\paperwidth,height=\paperheight,keepaspectratio=false]{#2}%
391 }
392
393 \newcommand\put@CaptionBox[1][0]{%

```

```

394 \ifcase#1
395   \ifhv@fbox
396     \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
397   \else
398     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
399   \fi
400 \or
401   \ifhv@fbox
402     \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
403   \else
404     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
405   \fi
406 \or
407   \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}\else\usebox{\hvCaptionBox}\fi
408 \fi
409 }
410
411 \newcommand\put@ObjectBox[1][0]{%
412   \ifcase#1
413     \ifhv@fbox
414       \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
415     \else
416       \parbox{\wd\hvObjectBox}{\ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi
417         }%
418     \fi
419   \or
420     \ifhv@fbox
421       \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
422     \else
423       \raisebox{-\height}{\ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi}%
424     \fi
425   \or
426     \ifhv@fbox
427       \fbox{\usebox{\hvObjectBox}}%
428     \else
429       % rotated object with a depth need to raise up the \depth
430       \ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\raisebox{\depth}{\usebox{\hvObjectBox}}\fi%
431     \fi
432 }
433
434 \def\drawSepLine{%
435   \par\noindent
436   \if@twocolumn
437     \ifhv@twoColumnCaption
438       \rule{\linewidth}{0.4pt}\l[-2.5ex]
439     \else
440       \rule{\columnwidth}{0.4pt}\l[-2.5ex]
441     \fi
442   \else
443     \rule{\linewidth}{0.4pt}\l[-2.5ex]
444   \fi
445   \vspace{\hv@sepLineskip}%
446 }
447
448 \newcounter{hv@tempCNTfigA}%
449 \newcounter{hv@tempCNTfigB}%
450 \newcounter{hv@tempCNTtabA}%
451 \newcounter{hv@tempCNTtabB}%
452 \newcounter{hv@pfigure}%
453 \newcounter{hv@ptable}%
454 \newcounter{subhv@pfigure}%
455 \newcounter{subhv@ptable}%
456 \newcount\hv@tempcnt
457
458 \newif\ifhv@star
459 \newif\if@hvsubstar

```

```

460 \setDefaults
461
462
463 %\newcommand*{\hvFloat}[5][+]{%
464 % [#1]: keyvalues
465 % #2: type figure | table | ...
466 % #3: float contents
467 % [#4]: short caption
468 % #5: caption
469 % #6: label
470 %
471
472
473 \def\hvFloat{\@ifnextchar*%      Main macro
474   {\global\hv@starttrue\hv@maxImageWidth=\textwidth\hvFloat@i}%
475   {\global\hv@starfalse\hv@maxImageWidth=\columnwidth\hvFloat@i*}%
476 }
477
478 \def\hvFloat@i*{\@ifnextchar[{\do@hvFloat}{\do@hvFloat[]]}
479 \def\do@hvFloat[#1]{%
480   \begingroup
481   \hvWideWidth=\the\dimexpr\columnwidth+\marginparwidth+\marginparsep\relax%
482   % \setlength\hvWideWidth{\dimexpr\textwidth+\marginparwidth+\marginparsep}%
483   % \setlength\hvWideWidth{\dimexpr\linewidth+\marginparwidth}%
484   \hv@maxImageWidth=\textwidth
485   \reset@special@float
486   \global\setcounter{hv@pfigure}{\value{figure}}%
487   \global\setcounter{hv@ptable}{\value{table}}%
488   \setcounter{hv@tempCNTfigA}{\value{figure}}%
489   \setcounter{hv@tempCNTfigB}{\value{figure}}%
490   \setcounter{hv@tempCNTtabA}{\value{table}}%
491   \setcounter{hv@tempCNTtabB}{\value{table}}%
492   \gdef\hv@save@setting{#1}% for later use after \endgroup inside figure/table env
493   \ifx\relax#1\relax\else\setkeys{hvSet}{#1}\fi
494   \ifx\hv@caption@format\@empty\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
495   \ifx\hv@subcaption@format\@empty\else
496     \expandafter
497     \captionsetup\expandafter[\expandafter s\expandafter u\expandafter b\expandafter]\expandafter
498     {\hv@subcaption@format}%
499   \fi
500   \gdef\hv@floatType{figure}% presetting
501   \@ifnextchar+{\do@multiFloat}{\hvFloat@ii[#1]}%
502 }
503
504 \ExplSyntaxOn
505
506 \def\do@multiFloat+#1#2{%
507   \clist_set:Nn\l_clist_Type{#1}%
508   \clist_set:Nn\l_clist_Object{#2}%
509   \@ifnextchar[\do@multiFloat@i{\do@multiFloat@ii}]%
510 }
511 \def\do@multiFloat@i[#1]#2#3{% l of-caption, caption, label
512   \ifx\relax#1\relax
513     \clist_set:Nn\l_clist_LofCaption{}%
514   \else
515     \clist_set:Nn\l_clist_LofCaption{#1}%
516   \fi
517   \clist_set:Nn\l_clist_Caption{#2}%
518   \ifx\relax#3\relax
519     \clist_set:Nn\l_clist_Label{}%
520   \else
521     \clist_set:Nn\l_clist_Label{#3}%
522   \fi
523   \@ifnextchar+{\do@multiFloat@ii}{}%
524 }
525 \def\do@multiFloat@ii+#1#2{%
526   \clist_put_right:Nn\l_clist_Type{#1}%

```

```

527 \clist_put_right:Nn\L_clist_Object{#2}%
528 \@ifnextchar[\do@multiFloat@iii{\do@multiFloat@iii[]}%
529 }
530
531 \def\do@multiFloat@iii[#1]#2#3{% lof-caption, caption, label
532 \ifx\relax#1\relax
533 \clist_put_right:Nn\L_clist_LofCaption{}}%
534 \else
535 \clist_put_right:Nn\L_clist_LofCaption{#1}%
536 \fi
537 \clist_put_right:Nn\L_clist_Caption{#2}%
538 \ifx\relax#3\relax
539 \clist_put_right:Nn\L_clist_Label{}}%
540 \else
541 \clist_put_right:Nn\L_clist_Label{#3}%
542 \fi
543 \@ifnextchar+\do@multiFloat@ii%
544 {\def\hvSet@CapWidth{n}%
545 \do@@@hvFloat}%
546 }
547 \ExplSyntaxOff
548
549
550 \newcount\hv@cmta
551 \newcount\hv@cmtb
552
553 \def\hvFloat@ii[#1]#2#3{% #1: key/value, #2: floatype, #3: object
554 \hv@maxImageWidth=\textwidth
555 % \ifx\relax#1\relax\else\setkeys{hvSet}{#1}\fi
556 \gdef\hv@floatType{#2}%
557 \ifx\relax#2\relax
558 \setkeys{hvSet}{nonFloat,onlyText}%
559 \xdef\hv@save@setting{\hv@save@setting,nonFloat,onlyText}% for later use after \endgroup inside
    figure/table env
560 \fi
561 % \xdef\hv@floatListOfExt{\@nameuse{ext@\hv@floatType}}%
562 \gdef\hv@floatObject{#3}%
563 \@ifnextchar[\do@@hvFloat]{\do@@hvFloat[]}%
564 }
565
566 \def\do@@hvFloat[#1]#2#3{% #1: listof caption, #2. long caption #3: label
567 \gdef\hv@shortCap{#1}%
568 \gdef\hv@longCap{#2}%
569 \gdef\hv@label{#3}%
570 \ifhv@capbeside\def\@temp{1}\else\def\@temp{0}\fi
571 \ifhv@sameHeight\global\hv@global@sameHeighttrue\else\global\hv@global@sameHeightfalse\fi
572 \global\hv@set@bindCorrection=\hv@set@bindCorr% for doublepage objects
573 \global\hv@floatCapSep=\hv@set@floatCapSep%
574 %
575 \ifhv@fullpage
576 \def\hvSet@CapWidth{n}% relative value
577 \do@@@hvFloat% fullpage with caption on other page
578 \else
579 \ifhv@FULLPAGE
580 \def\hvSet@CapWidth{n}% relative value
581 \do@@@hvFloat% fullpage with caption on other page
582 \else
583 \ifhv@doubleFULLPAGE
584 \setlength\hvCapWidth{\textheight}%
585 \expandafter\do@hvFloat@doubleFULLPAGE\@temp% fullpage with caption rotated or under on an odd
    page
586 \else
587 \ifhv@doublePAGE
588 \expandafter\do@hvFloat@doublePAGE\@temp% fullpage with caption rotated or under on an odd
    page
589 \else
590 \ifhv@doublePage

```

```

591     \expandafter\do@hvFloat@doublePage\@temp% fullpage with caption rotated or under on an odd
592         page
593     \else
594     \do@@@hvFloat
595     \fi
596 \fi
597 \fi
598 \fi
599 }
600 %
601 \def\do@@@hvFloat{% no special float page, caption and image on top of each other or side by side
602     \def\@tempa{90}%
603     \ifx\hvSet@rotAngle\@tempa
604         \setlength\hvMaxCapWidth{\textheight}%
605     \else
606         \setlength\hvMaxCapWidth{\hvWideWidth}%
607     \fi
608 %
609 % First we save the object in \hvObjectBox
610 %
611 \ifnum\hvSet@objectAngle=0 % rotate the object?
612     \ifhv@useOBox
613         \let\hvObjectBox\hvOBox
614     \else
615         \savebox\hvObjectBox{\hv@floatObject}%
616     \fi
617 \else
618     \savebox\hvObjectBox{%
619         \rotatebox{\hvSet@objectAngle}{%
620             \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi
621         }%
622     }%
623 \fi
624 \setlength\hvObjectWidth{\wd\hvObjectBox}%
625 %
626 % Now we save the caption with its defined \hvCapWidth
627 %
628 \ifx\hvSet@capWidth\hv@Width% captionwidth=objectwidth
629     \setlength\hvCapWidth{\hvObjectWidth}%
630 \else
631     \ifx\hvSet@capWidth\hv@Height% captionwidth=objectheight
632         \setlength\hvCapWidth{\ht\hvObjectBox}%
633     \else
634         \ifx\hvSet@capWidth\hv@LineWidth% captionwidth=objectheight
635             \setlength\hvCapWidth{\linewidth}%
636         \else
637             \ifx\hvSet@capWidth\hv@Natural% captionwidth=\linewidth-\objectwidth-separation
638                 \ifhv@capbeside
639                     \ifhv@wide
640                         \hvCapWidth=\the\dimexpr\hvWideWidth-\hvObjectWidth-\hv@floatCapSep\relax
641                     \else
642                         \ifhv@star
643                             \hvCapWidth=\the\dimexpr\textwidth-\hvObjectWidth-\hv@floatCapSep\relax
644                         \else
645                             \hvCapWidth=\the\dimexpr\linewidth-\hvObjectWidth-\hv@floatCapSep\relax
646                         \fi
647                     \fi
648                 \else
649                     \setlength\hvCapWidth{\columnwidth}%
650                 \fi
651             \else
652                 \ifhv@capbeside
653                     \ifhv@wide
654                         \setlength\hvCapWidth{\hvSet@capWidth\hvWideWidth}%
655                     \@tempdima=\the\dimexpr\hvWideWidth-\hvObjectWidth-\hv@floatCapSep\relax
656                 \else

```

```

657         \setlength\hvCapWidth{\hvSet@capWidth\columnwidth}%
658         \@tempdima=\the\dimexpr\columnwidth-\hvObjectWidth-\hv@floatCapSep\relax
659         \fi
660         \ifdim\hvCapWidth>\@tempdima
661             \hvCapWidth=\@tempdima
662         \fi
663         \else
664             \ifhv@wide
665                 \setlength\hvCapWidth{\hvSet@capWidth\hvWideWidth}%
666             \else
667                 \setlength\hvCapWidth{\hvSet@capWidth\columnwidth}%
668             \fi
669         \fi
670     \fi
671 \fi
672 \fi
673 \fi
674 \saveCaptionSkip% we put this space ourselves
675 \ifnum\hvSet@capAngle=0 % need rotation?
676     \savebox\hvCaptionBox{% NO rotation
677         \minipage[b]{\hvCapWidth}%% minipage, to get hyphenation
678 % \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
679         \ifhv@nonFloat
680         \ifhv@onlyText
681             \hv@longCap
682         \else
683             \ifx\hv@floatType\hv@figure
684                 \ifx\relax\hv@shortCap\relax
685                     \figcaption{\hv@longCap\ifx\hv@label\@empty\else\label{\hv@label}\fi}%
686                 \else
687                     \figcaption[\hv@shortCap]{\hv@longCap\ifx\hv@label\@empty\else\label{\hv@label}\fi}%
688                 \fi
689             \else
690                 \ifx\relax\hv@shortCap\relax
691                     \tabcaption{\hv@longCap\ifx\hv@label\@empty\else\label{\hv@label}\fi}%
692                 \else
693                     \tabcaption[\hv@shortCap]{\hv@longCap\ifx\hv@label\@empty\else\label{\hv@label}\fi}%
694                 \fi
695             \fi
696         \fi
697     \else
698         \ifhv@onlyText
699             \hv@longCap
700         \else
701             \expandafter\ifx\hv@longCap\@empty \else
702                 \let\@captype\hv@floatType
703                 \ifx\hv@shortCap\@empty\caption{\hv@longCap}\else\caption[\hv@shortCap]{\hv@longCap}\fi
704                 \ifx\hv@label\@empty\else\label{\hv@label}\fi
705             \fi
706         \fi
707     \fi
708     \endminipage
709 }% end CaptionBox without rotation
710 \else
711     \savebox\hvCaptionBox{% with Rotation
712         \rotatebox{\hvSet@capAngle}{%
713             \minipage[b]{\hvCapWidth}%% minipage, to get hyphenation
714 % \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
715             \ifhv@nonFloat
716                 \ifhv@onlyText
717                     \hv@longCap
718                 \else
719                     \ifx\hv@floatType\hv@figure
720                         \ifx\hv@shortCap\@empty \figcaption{\hv@longCap}\else\figcaption[\hv@shortCap]{\hv@longCap}\fi
721                     \else
722                         \ifx\hv@shortCap\@empty \tabcaption{\hv@longCap}\else\caption[\hv@shortCap]{\hv@longCap}\fi
723                     \fi

```

```

724 \fi
725 \else
726 \expandafter\ifx\hv@longCap\@empty \else
727 \ifhv@onlyText
728 \hv@longCap
729 \else
730 \let\@capttype\hv@floatType
731 \ifx\hv@shortCap\@empty \caption{\hv@longCap}\else\caption[\hv@shortCap]{\hv@longCap}%
732 \fi
733 \fi
734 \fi
735 \fi
736 \ifx\hv@label\@empty\else\label{\hv@label}\fi
737 \endminipage
738 }% rotatebox
739 }% \sbox
740 \fi
741 %
742 % now we have the object and the caption with the right
743 % rotated angles saved in different boxes
744 %%
745 \restoreCaptionSkip% save old values
746 % \def\fps@figure{\hvSet@floatPos}%
747 \ifx\hvSet@floatPos\@empty % use type default
748 \else
749 \namedef{fps@\hv@floatType}{\hvSet@floatPos}%
750 \fi
751 \ifhv@nonFloat
752 \noindent
753 \begingroup% Start the nonfloat part
754 \else
755 \ifhv@star
756 \ifx\hvSet@floatPos\hv@floatBottom
757 \@nameuse{\hv@floatType*}[b]% Start the floating environment *****
758 \else
759 \@nameuse{\hv@floatType*}%
760 \fi
761 \else
762 \begin{\hv@floatType}% Start the floating environment
763 \fi
764 \fi
765 \checkoddpage
766 \ifx\hvSet@objectPos\hv@Right\raggedleft\fi
767 \ifx\hvSet@objectPos\hv@Center
768 \ifhv@nonFloat\hspace*{\fill}\else\centering\fi
769 \fi
770 \ifx\hvSet@objectPos\hv@Outer
771 \ifoddpage\raggedleft\fi
772 \fi
773 \ifx\hvSet@objectPos\hv@Inner
774 \ifoddpage\else\raggedleft\fi
775 \fi
776 %
777 % to rotate object and caption together, we save all in another box
778 % the caption comes first, if its on the left or the top
779 % 0 caption left, inner and odd page, onside inner
780 % 1 caption top
781 % 2 caption right, inner and even page, onside outer
782 % 3 caption bottom
783 %
784 \ifx\hvSet@capPos\hv@Left
785 \hv@@capPos=0
786 \else
787 \ifx\hvSet@capPos\hv@Top
788 \hv@@capPos=1
789 \else
790 \ifx\hvSet@capPos\hv@Right

```

```

791 \hv@capPos=2
792 \else
793 \ifx\hvSet@capPos\hv@Bottom
794 \hv@capPos=3
795 \else
796 \ifx\hvSet@capPos\hv@Inner
797 \ifoddpageoroneside\hv@capPos=0\else\hv@capPos=2\fi
798 \else
799 \ifx\hvSet@capPos\hv@Outer
800 \ifoddpage\hv@capPos=2\else\hv@capPos=0\fi
801 % \ifoddpageoroneside\hv@capPos=2\else\hv@capPos=0\fi
802 % even page (left=0) | odd page (oneside) (right=2)
803 \else
804 \ifx\hvSet@capPos\hv@Before
805 \hv@capPos=0% same as cappos=left
806 \else
807 \ifx\hvSet@capPos\hv@After
808 \hv@capPos=2% same as capPos=right
809 \fi
810 \fi
811 \fi
812 \fi
813 \fi
814 \fi
815 \fi
816 \fi
817 %%%
818 %\typeout{>>>>>>>Pos: \the\hv@capPos}%
819 \savebox{\@tempboxa}{% ***** @tempbox start
820 \expandafter%
821 \ifcase\the\hv@capPos % 0 is LEFT START \ifcase
822 \ifx\hvSet@capVPos\hv@Center
823 \put@CaptionBox
824 \hspace{\hv@floatCapSep}% capfloatsep
825 \put@ObjectBox
826 \else
827 \ifx\hvSet@capVPos\hv@Top% caption and object at top aligned
828 \put@CaptionBox[1]%
829 \hspace{\hv@floatCapSep}% capfloatsep
830 \put@ObjectBox[1]%
831 \else% caption on bottom
832 \put@CaptionBox[2]%
833 \hspace{\hv@floatCapSep}% capfloatsep
834 \put@ObjectBox[2]%
835 \fi
836 \fi% end caption left
837 \or%I is top
838 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
839 \begin{minipage}{\wd\hvCaptionBox}%
840 \else
841 \begin{minipage}{\wd\hvObjectBox}%
842 \fi
843 \ifx\hvSet@capHPos\hv@Left% horizontal justification
844 \raggedright
845 \else
846 \ifx\hvSet@capHPos\hv@Center
847 \centering
848 \else
849 \raggedleft
850 \fi
851 \fi
852 \ifhv@fbox
853 \fbox{\usebox{\hvCaptionBox}}\{0.5\hvBelowCaptionSkip}%
854 \fbox{\usebox{\hvObjectBox}}%
855 \else
856 \usebox{\hvCaptionBox}\{0.5\hvBelowCaptionSkip}%
857 \usebox{\hvObjectBox}%

```

```

858     \fi
859     \end{minipage}%
860     \or%2 is right
861     \ifx\hvSet@capVPos\hv@Center
862         \put@ObjectBox
863     \hspace{\hv@floatCapSep}%
864     \put@CaptionBox
865     \else
866     \ifx\hvSet@capVPos\hv@Top
867         \put@ObjectBox[1]%
868         \hspace{\hv@floatCapSep}% capfloatsep
869         \put@CaptionBox[1]%
870     \else
871         \put@ObjectBox[2]% bottom
872         \hspace{\hv@floatCapSep}% capfloatsep
873         \put@CaptionBox[2]%
874     \fi
875     \fi
876     \or%3 bottom
877     \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
878         \begin{minipage}{\wd\hvCaptionBox}%
879     \else
880         \begin{minipage}{\wd\hvObjectBox}%
881     \fi
882     \ifx\hvSet@capHPos\hv@Left% horizontal justification
883         \raggedright
884     \else
885         \ifx\hvSet@capHPos\hv@Center
886             \centering
887         \else
888             \raggedleft
889         \fi
890     \fi
891     \ifhv@fbox
892         \fbox{\usebox{\hvObjectBox}}\@[0.5\hvAboveCaptionSkip]%
893         \fbox{\usebox{\hvCaptionBox}}%
894     \else
895         \ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi\@[0.5\
            hvAboveCaptionSkip]%
896         \usebox{\hvCaptionBox}%
897     \fi
898     \end{minipage}%
899     \fi% \ifcase\the\hv@capPos
900 }% End savebox Object and caption          %%%%%%%%%%% @tempboxa
901 %
902 % now we rotate the object and caption, if needed
903 %
904 \ifhv@wide
905     \ifoddpagoroneside
906         \if@twocolumn
907             \if@firstcolumn
908                 \noindent
909                 \hspace*{\dimexpr-\marginparwidth-\marginparsep}% oddpage first column
910             \fi
911         \fi
912     \else
913         \ifoddpage
914             \if@twocolumn
915                 \if@firstcolumn
916                     \noindent
917                     \hspace*{\dimexpr-\marginparwidth-\marginparsep}% oddpage first column
918                 \fi
919             \fi
920         \else% evenpage
921             \if@firstcolumn
922                 \noindent
923                 \hspace*{\dimexpr-\marginparwidth-\marginparsep}% <- for wide and left page

```

```

924     \fi
925     \fi
926     \fi
927 \fi
928 \ifx\hvSet@rotAngle\hv@Zero
929     \usebox{\@tempboxa}%
930 \else
931     \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}%
932 \fi
933 \ifhv@nonFloat
934     \ifx\hvSet@objectPos\hv@Center
935 %     \ifhv@nonFloat
936     \hspace{\fill}%
937 %     \fi
938     \fi
939 \endgroup% End the nonfloat part
940 \else
941     \ifhv@star
942     \nameuse{end\hv@floatType*}% End the floating environment
943 \else
944     \end{\hv@floatType}% End the floating environment
945 \fi
946 \fi
947 \endgroup% startet at main \hvFloat
948 }
949 %
950 \newenvironment{hvFloatEnv}[1][\textwidth]
951     {\minipage{#1}}
952     {\endminipage}
953 %
954
955 \ExplSyntaxOn
956 \let\clist@item@Nn\clist_item:Nn
957 \let\l@clist@Type\l_clist_Type
958 \let\l@clist@LofCaption\l_clist_LofCaption
959 \let\l@clist@Label\l_clist_Label
960 \let\clist@count@N\clist_count:N
961 \ExplSyntaxOff
962
963 \def\do@@@hvFloat{% special float page: caption <-> fullpage images
964     \ifx\hvSet@capPos\hv@After \global\hv@capPos=1
965     \else
966         \ifx\hvSet@capPos\hv@Even \global\hv@capPos=2
967         \else
968             \ifx\hvSet@capPos\hv@Odd \global\hv@capPos=3
969             \else
970                 \ifx\hvSet@capPos\hv@Inner \global\hv@capPos=4
971                 \else
972                     \ifx\hvSet@capPos\hv@Outer \global\hv@capPos=5
973                     \else
974                         \ifx\hvSet@capPos\hv@Right \global\hv@capPos=6% only for twocolumn mode
975                         \else
976                             \ifx\hvSet@capPos\hv@Left \global\hv@capPos=7% only for twocolumn mode
977                             \else
978                                 \global\hv@capPos=0
979                             \fi
980                         \fi
981                     \fi
982                 \fi
983             \fi
984         \fi
985     \fi
986 \checkoddpage
987 \set@caption@object{\hv@floatType}% set caption and object into a box
988 \ifcase\hv@capPos% caption before object 0-> _always_ left
989     \setBottomCaption\setPageObject
990 \or% caption after object 1-> _always_ right

```

```

991 \setPageObject\setBottomCaption
992 \or%          caption on even page 2-> left page
993 \ifoddpage
994   \afterpage{\setBottomCaption\setPageObject}%
995 \else% we are on an even page
996   \setBottomCaption\setPageObject
997 \fi
998 \or%          caption on odd page 3->right page
999 \if@twoside
1000  \if@twocolumn
1001  \ifoddpage
1002    \if@firstcolumn% on right side
1003    \setBottomCaption\setPageObject
1004  \else
1005    \afterpage{\setPageObject\setBottomCaption}% start next column
1006  \fi
1007 \else% left (even) page
1008  \if@firstcolumn
1009    \afterpage{\setPageObject\setBottomCaption}% start next column
1010  \else
1011    \setPageObject\setBottomCaption
1012  \fi
1013 \fi
1014 \else% onecolumn
1015  \ifoddpage
1016    \setPageObject\setBottomCaption
1017  \else% even page
1018    \afterpage{\setPageObject\setBottomCaption}%
1019  \fi
1020 \fi
1021 \else% oneside
1022  \if@twocolumn
1023  \ifoddpage
1024    \if@firstcolumn% on right side
1025    \setBottomCaption\setPageObject
1026  \else
1027    \setPageObject\setBottomCaption
1028  \fi
1029  \else
1030    \if@firstcolumn% on left side
1031    \afterpage{\setPageObject\setBottomCaption}%
1032  \else
1033    \setPageObject\setBottomCaption
1034  \fi
1035 \fi
1036 \else % onecolumn
1037  \ifoddpage
1038    \setBottomCaption\setPageObject
1039  \else
1040    \afterpage{\setBottomCaption\setPageObject}%
1041  \fi
1042 \fi
1043 \fi
1044 \or%          caption on the inner column 4->inner
1045 % \set@caption@object
1046 \if@twocolumn
1047  \ifoddpage
1048    \if@firstcolumn% on right side
1049    \setBottomCaption\setPageObject
1050  \else % right column on right side
1051    \setPageObject\setBottomCaption% start next firstcolumn next page
1052  \fi
1053 \else
1054  \if@firstcolumn% on left side
1055    \afterpage{\afterpage{\setBottomCaption\setPageObject}}% start next page/first column
1056  \else% left page/column
1057    \setBottomCaption\setPageObject% start on same page/column

```

```

1058     \fi
1059     \fi
1060     \else% onecolumn
1061         \setBottomCaption\setPageObject
1062     \fi
1063 \or%           caption on the outer column 5->outer
1064 %   \set@caption@object
1065     \if@twocolumn
1066         \ifoddpages
1067             \if@firstcolumn
1068                 \afterpage{\afterpage{\setBottomCaption\setPageObject}}%
1069             \else
1070                 \afterpage{\setBottomCaption\setPageObject}%
1071             \fi
1072         \else% even page (left)
1073             \if@firstcolumn
1074                 \setBottomCaption\setPageObject
1075             \else
1076 %%%           !!!! to-do: !!!!
1077             \fi
1078         \fi
1079     \else% onecolumn
1080         \setBottomCaption\setPageObject
1081     \fi
1082 \or%           caption after object on same page 6->right for twocolumn
1083     \if@twocolumn
1084         \if@firstcolumn
1085             \afterpage{\setPageObject\setBottomCaption}%
1086         \else
1087             \setPageObject\setBottomCaption
1088         \fi
1089     \else% always caption _after_ object for onecolumn
1090         \setPageObject\setBottomCaption
1091     \fi
1092 \or%           caption before object on same page 7->left for twocolumn
1093     \if@twocolumn
1094         \if@firstcolumn
1095             \setBottomCaption\setPageObject
1096         \else
1097             \afterpage{\setBottomCaption\setPageObject}%
1098         \fi
1099     \else% onecolumn -> same as before
1100         \setBottomCaption\setPageObject
1101     \fi
1102 \fi
1103 \endgroup% startet at main \hvFloat
1104 }
1105 %
1106
1107
1108 %%% ----- the doublepage obejcts -----
1109 %%% ||lin+evenside --- |lin+oddside ---||
1110 %
1111 \def\do@hvFloat@doublePage#1{% image on left and right page with caption on the right page
1112 % #1-> 0/1 caption under/right
1113 \hv@typeout{>>>doublePage: start with definitions of \hv@floatObject}%
1114 \global\hv@leftPageObjectWidth=\the\dimexpr\paperwidth-\lin-\evensidemargin-\hvSet@bindCorrection\relax
1115 \global\hv@tempWidthA=\the\dimexprlin+\oddsidemargin-\hvSet@bindCorrection\relax
1116 \xdef\hv@caption@format@temp{\hv@caption@format}% it gets lost otherwise for next afterpage
1117 \@dblfpbot=0\p@ \@plus 1fil%
1118 \global\hv@switchTypefalse
1119 \setcounter{hv@tempCNTfigA}{\value{figure}}%
1120 \setcounter{hv@tempCNTfigB}{\value{figure}}%
1121 \setcounter{hv@tempCNTtabA}{\value{table}}%
1122 \setcounter{hv@tempCNTtabB}{\value{table}}%
1123 \savebox\hvCaptionBox{% NO rotation
1124     \minipage{\textwidth}%% minipage, to get hyphenation

```

```

1125 \let\capttype\hv@floatType
1126 \caption*{\hv@longCap}%
1127 \endminipage}%
1128 \savebox\hv0objectBox{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1129 \ifnum#1=0\relax % no rotation, caption below
1130 \hv@typeout{Texthöhe: \the\textheight}%
1131 \hv@typeout{Objekthöhe: \the\ht\hv0objectBox}%
1132 \hv@typeout{Captionhöhe: \the\ht\hvCaptionBox}%
1133 \@tempdima=\dimexpr\ht\hv0objectBox+\ht\hvCaptionBox+\abovecaptionskip+\belowcaptionskip+\textfloatsep
\relax+|floatsep|relax
1134 \hv@typeout{Summe: \the@tempdima}%
1135 \ifdim\@tempdima > \dimexpr\textheight-\hv@minTextlines\relax
1136 \hv@typeout{hvfloat: switched to floatype p}%
1137 \hv@switchTypetrue
1138 \fi
1139 \fi
1140 \hv@typeout{do@hvFloat@doublePage: hv@tempWidthA=\the\hv@tempWidthA}%
1141 \ifhv@forceOutput
1142 \do@hvFloat@doublePAGECaptionRight{#1}% no cheque
1143 \else
1144 \checkoddpage
1145 \ifoddpage
1146 \if@twocolumn
1147 \if@firstcolumn
1148 \hv@typeout{do@hvFloat@doublePage: oddpage->twocolumn->firstcolumn}%
1149 \ifhv@switchType
1150 \hv@typeout{hvfloat: switched to floatype p}%
1151 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1152 \else
1153 \hv@typeout{calling do@hvFloat@doublePageCaptionRight}%
1154 %\afterpage{
1155 \afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1156 \fi
1157 \else
1158 \hv@typeout{do@hvFloat@doublePage: oddpage->twocolumn->secondcolumn}%
1159 \ifhv@tugboat
1160 \do@hvFloat@doublePageCaptionRight{#1}%
1161 \else
1162 \ifhv@switchType
1163 \do@hvFloat@doublePAGECaptionRight{#1}%
1164 \else
1165 \afterpage{\do@hvFloat@doublePageCaptionRight{#1}}%
1166 \fi
1167 \fi
1168 \fi
1169 \else
1170 \ifhv@switchType
1171 \do@hvFloat@doublePAGECaptionRight{#1}%
1172 \else
1173 \afterpage{\do@hvFloat@doublePageCaptionRight{#1}}%
1174 \fi
1175 \fi
1176 \else% we have an even page
1177 \if@twocolumn
1178 \if@firstcolumn
1179 \ifhv@switchType
1180 \afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}%
1181 \else
1182 \afterpage{\afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}}%
1183 \fi
1184 \else% second column
1185 \ifhv@switchType
1186 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1187 \else
1188 \afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1189 \fi
1190 \fi

```

```

1191 \else% onecolumn
1192 \ifhv@switchType
1193 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1194 \else
1195 \afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1196 \fi
1197 \fi
1198 \fi
1199 \let\c@fptop\hv@fptop
1200 \fi
1201 \endgroup% started at main macro \hvFloat
1202 }
1203 %
1204 \def\do@hvFloat@doublePageCaptionRight#1{% image on left and right page with caption on the right page
-----
1205 \hv@typeout{\do@hvFloat@doublePageCaptionRight->start}%
1206 \do@hvFloat@doublePageCaptionRightObjectLeft{0pt}%
1207 \afterpage{\do@hvFloat@doublePageCaptionRightObjectRight{#1}}%
1208 }
1209 %
1210 \def\do@hvFloat@doublePageCaptionRightObjectLeft#1{% left part of the object
1211 \begin{\hv@floatType*}[!t]
1212 \hv@typeout{>>>doublePage: start with left side of the object \hv@floatObject}%
1213 \hv@set@noverticalSpace
1214 \hfuzz=\maxdimen
1215 \let\c@hv@tempCNTfigA\c@figure
1216 \let\c@hv@tempCNTtabA\c@table
1217 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1218 \hv@typeout{Float position parameter is for left page: !t}%
1219 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1220 \clipbox*{0 -\depth} \hv@leftPageObjectWidth{\height}{\usebox\hvObjectBox}%
1221 \ifx\hv@label\@empty
1222 \else
1223 \ifx\hv@floatType\hv@figure
1224 \global\refstepcounter{hv@tempCNTfigA}%
1225 \else
1226 \global\refstepcounter{hv@tempCNTtabA}% before caption
1227 \fi
1228 \label{\hv@label}%
1229 \fi
1230 \ifhv@global@sameHeight
1231 \hv@typeout{text should be of same height of both pages}%
1232 \par\noindent\phantom{\parbox{\textwidth}{caption*{\hv@LongCap}}}%
1233 % \vspace{-2pt}%
1234 \fi
1235 \hv@reset@noverticalSpace
1236 \end{\hv@floatType*}%
1237 }
1238 \def\do@hvFloat@doublePageCaptionRightObjectRight#1{% right part of the object
1239 \begin{\hv@floatType*}[!t]
1240 \hv@typeout{>>>doublePage: start with right side of the object \hv@floatObject}%
1241 \hv@set@noverticalSpace
1242 \hfuzz=\maxdimen
1243 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1244 \savebox\hvObjectBox{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1245 \hv@tempWidthA=\the\dimexprlin+\oddsidemargin-\hvSet@bindCorrection\relax% FÜR DTK
1246 \hspace*{-\hv@tempWidthA}%
1247 \hv@leftPageObjectWidth=\the\dimexpr\paperwidth-lin-\evensidemargin-\hvSet@bindCorrection\relax% FÜR
FTK
1248 \savebox\hv@rightBox{\clipbox*{\hv@leftPageObjectWidth} -\depth} \width{} \height}{\usebox\hvObjectBox}%
1249 \hv@tempWidthB=\dimexpr\textwidth-\wd\hv@rightBox-\hvSet@bindCorrection+lin+\oddsidemargin-\hv@floatCapSep\relax
1250 \hv@typeout{Height of right box: \the\ht\hv@rightBox}%
1251 \hv@typeout{Depth of right box : \the\dp\hv@rightBox}%
1252 \ifdim\dp\hv@rightBox > \z@
1253 \raisebox{\depth}{\usebox\hv@rightBox}%

```

```

1254 \else
1255 \usebox\hv@rightBox
1256 \fi
1257 \c@hv@tempCNTfigB=\numexpr\c@figure-1\relax
1258 \c@hv@tempCNTtabB=\numexpr\c@table-1\relax
1259 \ifx\hv@label\@empty\else
1260 \ifx\hv@floatType\hv@figure
1261 \refstepcounter{hv@tempCNTfigB}%
1262 \else
1263 \refstepcounter{hv@tempCNTtabB}% before caption
1264 \fi
1265 \label{\hv@label-2}%
1266 \fi
1267 \ifx\hv@caption@format@temp\@empty\else
1268 \expandafter\captionsetup\expandafter{\hv@caption@format@temp}%
1269 \fi
1270 \c@figure=\numexpr\c@hv@tempCNTfigB-1\relax
1271 \c@table=\numexpr\c@hv@tempCNTtabB-1\relax
1272 \ifnum#1>\z@ % caption on the right
1273 \hv@typeout{doublePage: capAngle=\hvSet@capAngle}%
1274 \ifnum\hvSet@capAngle > \z@
1275 \hspace{\hv@floatCapSep}%
1276 \rlap{\rotatebox{\hvSet@capAngle}{\parbox[b]{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1277 \abovecaptionskip=0pt local inside parbox
1278 \belowcaptionskip=0pt local inside parbox
1279 \ifx\relax\hv@shortCap\relax
1280 \caption{\hv@longCap}%
1281 \else
1282 \caption[\hv@shortCap]{\hv@longCap}%
1283 \fi
1284 }}}%
1285 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1286 \else
1287 \hv@tempWidthB=\dimexpr\textwidth-\wd\hv@rightBox-\hvSet@bindCorrection+lin+\oddsidemargin-\hv@floatCapSep\relax
1288 \hspace{\hv@floatCapSep}%
1289 \rlap{\parbox[b][\dimexpr\ht\hv@rightBox+\dp\hv@rightBox][\hv@capVPos]{\hv@tempWidthB}{%
1290 \abovecaptionskip=0pt local inside parbox
1291 \belowcaptionskip=0pt local inside parbox
1292 \ifx\hv@shortCap\@empty
1293 \caption{\hv@longCap}%
1294 \else
1295 \caption[\hv@shortCap]{\hv@longCap}%
1296 \fi
1297 }}%
1298 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1299 \fi
1300 \else % #1 = 0 caption below
1301 \ifx\relax\hv@shortCap\relax
1302 \caption{\hv@longCap}%
1303 \else
1304 \caption[\hv@shortCap]{\hv@longCap}%
1305 \fi
1306 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1307 \fi
1308 \vspace{0pt}%
1309 \hv@reset@noverticalSpace
1310 \end{\hv@floatType*}
1311 }
1312 %
1313 \newsavebox\hv@boxLeftPage
1314 \newsavebox\hv@boxRightPage
1315 %
1316 %% ||lin+evenside --- |lin+oddside ---||
1317 %
1318
1319 \def\do@hvFloat@doublePAGE#1{% image on left and right page with caption on the right

```

```

-----
1320 % #1-> 0/1 caption under/right
1321 % \global\setlength\hv@tempWidthA{\the\dimexpr\lin+\oddsidemargin-\hvSet@bindCorrection}%
1322 % \global\setlength\hv@leftPageObjectWidth{\the\dimexpr\paperwidth-\lin-\evensidemargin-\hvSet@bindCorrection}%
1323 \expandafter\global\expandafter\savebox\expandafter\hvObjectBox\expandafter{\ifhv@use0Box\usebox{\hv0Box
} \else\hv@floatObject\fi}%
1324 \expandafter\global\expandafter\savebox\expandafter\hv@boxLeftPage\expandafter{\clipbox*{0 -\depth} \hv@leftPageObjectWidth{\height}{\usebox\hvObjectBox}}%
1325 \expandafter\global\expandafter\savebox\expandafter\hv@boxRightPage\expandafter{\clipbox*{\hv@leftPageObjectWidth} -\depth{\width}{\height}{\usebox\hvObjectBox}}%
1326 \checkoddpage
1327 \ifoddpage
1328 \hv@typeout{do@hvFloat@doublePAGE: oddpage}%
1329 \if@twocolumn
1330 \if@firstcolumn
1331 \hv@typeout{do@hvFloat@doublePAGE: ifoddpage->twocolumn->firstcolumn}%
1332 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1333 \else
1334 \hv@typeout{do@hvFloat@doublePAGE: ifoddpage->twocolumn->secondcolumn}%
1335 \do@hvFloat@doublePAGECaptionRight{#1}%
1336 \fi
1337 \else
1338 \do@hvFloat@doublePAGECaptionRight{#1}%
1339 \fi
1340 \else
1341 \hv@typeout{do@hvFloat@doublePAGE: evenpage}%
1342 \if@twocolumn
1343 \if@firstcolumn
1344 \afterpage{\afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}}%
1345 \else
1346 \afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}%
1347 \fi
1348 \else
1349 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}% onecolumn/left page
1350 \fi
1351 \fi
1352 \endgroup% startet at main macro
1353 }
1354 %
1355 \def\do@hvFloat@doublePAGECaptionRight#1{% image on left and right page with caption on the right
-----
1356 % #1-> 0/1 caption under/right
1357 \hv@typeout{do@hvFloat@doublePAGECaptionRight->start}%
1358 \afterpage{%
1359 \hfuzz=\maxdimen
1360 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1361 \ifhv@use0Box
1362 \global\let\hvObjectBox\hv0Box
1363 \else
1364 \global\savebox\hvObjectBox{\hv@floatObject}%
1365 \fi
1366 \noindent
1367 \global\hv@tempWidthA=\the\dimexpr\lin+\oddsidemargin-\hvSet@bindCorrection%
1368 \global\hv@leftPageObjectWidth=\the\dimexpr\paperwidth-\lin-\evensidemargin-\hvSet@bindCorrection%
1369 \clipbox*{0 -\depth} \hv@leftPageObjectWidth{\height}{\usebox\hvObjectBox}%
1370 \null\newpage\if@twocolumn\newpage\fi
1371 \expandafter\global\expandafter\savebox\expandafter\hvObjectBox\expandafter{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1372 \noindent
1373 \hspace*{\dimexpr-\hv@tempWidthA}%
1374 \clipbox*{\the\hv@leftPageObjectWidth} -\depth{\width}{\height}{\usebox\hvObjectBox}%
1375 \begingroup
1376 \ifnum#1>0
1377 \medskip
1378 \ifdim\dp\hvObjectBox > \z@
1379 \rotatebox{origin=c}{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%

```

```

1380         \ifx\relax\hv@shortCap\relax
1381         \captionof{\hv@floatType}{\hv@longCap}%
1382     \else
1383         \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1384     \fi
1385 }}%
1386 \ifx\hv@label\@empty\else\label{\hv@label}\fi
1387 \else
1388     \rotatebox{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1389         \ifx\relax\hv@shortCap\relax
1390         \captionof{\hv@floatType}{\hv@longCap}%
1391     \else
1392         \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1393     \fi
1394 }}%
1395 \ifx\hv@label\@empty\else\label{\hv@label}\fi
1396 \fi
1397 \else% caption not rotated
1398     \par\noindent
1399     \parbox{\textwidth}{%
1400         \ifx\relax\hv@shortCap\relax
1401         \captionof{\hv@floatType}{\hv@longCap}%
1402     \else
1403         \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1404     \fi
1405     \ifx\hv@label\@empty\else\label{\hv@label}\fi
1406 }%
1407 \fi
1408 \endgroup
1409 \newpage\if@twocolumn\newpage\fi
1410 }%
1411 }
1412 %
1413 %% ||lin=evenside --- |lin=oddside ---||
1414 %
1415 \def\do@hvFloat@doubleFULLPAGE#1{% image on left and right page with caption before/below/right/after
1416 % #1-> 0/1 caption under/right
1417 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1418 \ifx\hvSet@capPos\hv@After \global\hv@capPos=1
1419 \else
1420     \ifx\hvSet@capPos\hv@Before \global\hv@capPos=0
1421     \else
1422         \global\hv@capPos=2 % other caption type
1423     \fi\fi
1424 \checkoddpage
1425 \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvObjectBox}\else\hv@floatObject\fi}%
1426 \global\hv@tempWidthA=\dimexpr-\oddsidemargin-\lin-\parindent+\hvSet@bindCorrection% the width of the
1427     right side offset
1428 \global\hv@tempWidthB=\dimexpr\ht\hvCaptionBox+\wd\hvObjectBox+2\hvSet@bindCorrection%
1429 \global\hv@leftPageObjectWidth=\dimexpr\paperwidth-\hvSet@bindCorrection%
1430 % \savebox\hv@leftBox{\clipbox*{0 0 \the\hv@leftPageObjectWidth}{\height}{\usebox\hvObjectBox}}%
1431 % \savebox\hv@rightBox{\clipbox*{\the\hv@leftPageObjectWidth}{\depth}{\width}{\height}{\usebox\
1432     hvObjectBox}}%
1433 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1434 \ifoddpage
1435     \hv@typeout{do@hvFloat@doubleFULLPAGE: ifoddpage=true}%
1436     \ifcase\hv@capPos % =0 Caption before
1437     \hv@typeout{do@hvFloat@doubleFULLPAGE: caption before}%
1438     \if@twocolumn
1439         \hv@typeout{do@hvFloat@doubleFULLPAGE: twocolumn=true}%
1440         \ifhv@twoColumnCaption
1441             \hv@typeout{do@hvFloat@doubleFULLPAGE: twoColumnCaption=true}%
1442             \set@Normal@Bottom@Caption*
1443             \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1444         \else

```

```

1445     \afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1446     \fi
1447     \else% if@firstcolumn
1448     \set@Normal@Bottom@Caption
1449     \do@hvFloat@doubleFULLPAGE@CaptionBefore
1450     \fi
1451     \else% if@twocolumn
1452     \set@Normal@Bottom@Caption
1453     \do@hvFloat@doubleFULLPAGE@CaptionBefore
1454     \fi
1455 \or % =1 Caption after
1456 \hv@typeout{do@hvFloat@doubleFULLPAGE: caption after}%
1457 \ifhv@twoColumnCaption
1458 \hv@typeout{do@hvFloat@doubleFULLPAGE: twoColumnCaption=true}%
1459 \if@firstcolumn
1460     \hv@typeout{do@hvFloat@doubleFULLPAGE: firstcolumn=true}%
1461     \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol}%
1462     \else
1463     \hv@typeout{do@hvFloat@doubleFULLPAGE: firstcolumn=false}%
1464     \do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol
1465     \fi
1466     \else
1467     \if@twocolumn
1468     \if@firstcolumn
1469     \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter}%
1470     \else
1471     \do@hvFloat@doubleFULLPAGE@CaptionAfter
1472     \fi
1473     \else
1474     \do@hvFloat@doubleFULLPAGE@CaptionAfter
1475     \fi
1476     \fi
1477 \else% ifcase >1 all other Captions
1478 \if@twocolumn
1479 \if@firstcolumn
1480     \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}%
1481     \else
1482     \do@hvFloat@doubleFULLPAGE@CaptionOther{#1}%
1483     \fi
1484     \else % if@twocolumn
1485     \do@hvFloat@doubleFULLPAGE@CaptionOther{#1}%
1486     \fi
1487 \fi% ifcase
1488 \else% we have an even page
1489 \ifcase\hv@capPos% Before
1490 \if@twocolumn
1491 \if@firstcolumn
1492     \ifhv@twoColumnCaption
1493     \afterpage{\afterpage{\set@Normal@Bottom@Caption*\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}%
1494     \else
1495     \afterpage{\afterpage{\afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}}%
1496     \fi
1497     \else
1498     \afterpage{\afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}%
1499     \fi
1500     \else% if@twocolumn
1501     \afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1502     \fi
1503 \or % capPos after
1504 \if@twocolumn
1505 \if@firstcolumn
1506     \ifhv@twoColumnCaption
1507     \afterpage{\afterpage\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol{#1}}}%
1508     \else
1509     \afterpage{\afterpage\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter{#1}}}%

```

```

1510     \fi
1511     \else
1512       \ifhv@twoColumnCaption
1513         \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol{#1}}}%
1514       \else
1515         \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter{#1}}}%
1516       \fi
1517     \fi
1518     \else% \if@twocolumn
1519       \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter}%
1520     \fi
1521     \else % \ifcase Any other caption
1522       \if@twocolumn
1523         \if@firstcolumn
1524           \afterpage{\afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}}}%
1525         \else
1526           \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}}%
1527         \fi
1528       \else
1529         \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}%
1530       \fi
1531     \fi% \ifcase
1532     \fi% main ifoddpge
1533     \endgroup% started at main macro \hvFloat
1534 }
1535
1536 \def\set@Normal@Bottom@Caption{\@ifnextchar*\set@Normal@Bottom@CaptionStar\set@Normal@Bottom@Caption@}
1537 \def\set@Normal@Bottom@Caption@{%
1538   \begin{\hv@floatType}[!b]
1539     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1540     \ifhv@separatorLine\drawSepLine\fi
1541     % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1542     \ifhv@onlyText
1543       \hv@longCap
1544     \else
1545       \ifx\hv@shortCap\@empty
1546         \captionof{\hv@floatType}{\hv@longCap}%
1547       \else
1548         \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1549       \fi
1550     \fi
1551     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1552     \end{\hv@floatType}%
1553 }
1554 \def\set@Normal@Bottom@CaptionStar*{%
1555   \begin{\hv@floatType*}[!b]
1556     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1557     \ifhv@separatorLine\drawSepLine\fi
1558     % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1559     \ifhv@onlyText
1560       \hv@longCap
1561     \else
1562       \ifx\hv@shortCap\@empty
1563         \captionof{\hv@floatType}{\hv@longCap}%
1564       \else
1565         \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1566       \fi
1567     \fi
1568     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1569     \end{\hv@floatType*}%
1570 }
1571
1572 \def\do@hvFloat@doubleFULLPAGE@CaptionBefore{%
1573   \afterpage{%
1574     \hfuzz=\maxdimen
1575     \global\savebox{\hv@objectBox}{\ifhv@useOBox\usebox{\hv@OBox}\else\hv@floatObject\fi}%
1576     \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\lineskip

```

```

    }% no interlineskip
1577 \hspace*{\the\dimexpr-\evensidemargin-\parindent-lin}%
1578 \thispagestyle{empty}%
1579 \ifx\hv@floatType\hv@figure
1580   \global\refstepcounter{hv@tempCNTfigB}%
1581 \else
1582   \global\refstepcounter{hv@tempCNTtabB}% before caption
1583 \fi
1584 \expandafter\label\expandafter{\hv@label}%
1585 \clipbox*{0 0 \the\hv@leftPageObjectWidth{} \height}{\usebox\hvObjectBox}%
1586 \afterpage{%
1587   \if@twocolumn\newpage\null\newpage\fi
1588   \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1589   \thispagestyle{empty}%
1590   \vspace*{\the\dimexpr-lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\
    lineskip}% -0.5\paperheight+0.5\ht\hvObjectBox
1591   \hspace*{\hv@tempWidthA}%
1592   \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1593   \clipbox*{\the\hv@leftPageObjectWidth{} \dp\hvObjectBox{} \wd\hvObjectBox{} \ht\hvObjectBox}{\usebox
    \hvObjectBox}%
1594   \ifx\hv@floatType\hv@figure
1595     \global\refstepcounter{hv@tempCNTfigA}%
1596   \else
1597     \global\refstepcounter{hv@tempCNTtabA}% before caption
1598   \fi
1599   \expandafter\label\expandafter{\hv@label-2}%
1600   \newpage\if@twocolumn\null\newpage\fi
1601 }}%
1602 }
1603
1604 \newif\ifhv@temp
1605
1606 \def\do@hvFloat@doubleFULLPAGE@CaptionAfter{%
1607 \afterpage{%
1608   \hfuzz=\maxdimen
1609   \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1610   \vspace*{\the\dimexpr-lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\lineskip
    }% no interlineskip
1611   \hspace*{\the\dimexpr-\evensidemargin-\parindent-lin}%
1612   \thispagestyle{empty}%
1613   \clipbox*{0 \the\dp\hvObjectBox{} \the\hv@leftPageObjectWidth{} \the\ht\hvObjectBox}{\usebox\
    hvObjectBox}%
1614   \ifx\hv@floatType\hv@figure
1615     \refstepcounter{hv@tempCNTfigA}%
1616   \else
1617     \refstepcounter{hv@tempCNTtabA}% before caption
1618   \fi
1619   \ifx\hv@label\@empty\else\label{\hv@label}\fi
1620   \newpage\if@twocolumn\null\newpage\fi
1621   \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1622   \thispagestyle{empty}%
1623   \vspace*{\the\dimexpr-lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\
    lineskip}% -0.5\paperheight+0.5\ht\hvObjectBox
1624   \hspace*{\hv@tempWidthA}%
1625   \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1626   \clipbox*{\the\hv@leftPageObjectWidth{} \dp\hvObjectBox{} \wd\hvObjectBox{} \ht\hvObjectBox}{\usebox
    \hvObjectBox}%
1627   \ifx\hv@floatType\hv@figure
1628     \refstepcounter{hv@tempCNTfigB}%
1629   \else
1630     \refstepcounter{hv@tempCNTtabB}% before caption
1631   \fi
1632   \expandafter\label\expandafter{\hv@label-2}%
1633   \newpage\if@twocolumn\null\newpage\fi
1634   \begin{\hv@floatType}[!b]
1635     \ifhv@separatorLine\drawSepLine\fi
1636   \expandafter\captionsetup\expandafter{\hv@caption@format}%

```

```

1637     \ifhv@onlyText
1638     \hv@longCap
1639     \else
1640     \ifx\hv@shortCap\@empty
1641     \captionof{\hv@floatType}{\hv@longCap}%
1642     \else
1643     \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1644     \fi
1645     \fi
1646     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1647     \end{\hv@floatType}%
1648 }%
1649 }
1650
1651 \def\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol{%
1652 \hv@typeout{do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol: start} %
1653 \afterpage{%
1654 \hv@typeout{do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol: afterpage start} %
1655 \global\savebox{\hv@objectBox}{\ifhv@useOBox\usebox{\hv@OBox}\else\hv@floatObject\fi}%
1656 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\lineskip
1657 }% no interlineskip
1658 \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1659 \thispagestyle{empty}%
1660 \ifx\hv@floatType\hv@figure
1661 \refstepcounter{hv@tempCNTfigA}%
1662 \else
1663 \refstepcounter{hv@tempCNTtabA}% before caption
1664 \fi
1665 \ifx\hv@label\@empty\else\label{\hv@label}\fi
1666 \clipbox*{0 0 \the\hv@leftPageObjectWidth}{ \height}{\usebox{\hv@objectBox}}%
1667 \newpage\if@twocolumn\null\newpage\fi
1668 \hv@typeout{do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol: insert newpage} %
1669 \global\savebox{\hv@objectBox}{\ifhv@useOBox\usebox{\hv@OBox}\else\hv@floatObject\fi}%
1670 \thispagestyle{empty}%
1671 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\
1672 lineskip}% -0.5\paperheight+0.5\ht\hv@objectBox
1673 \hspace*{\hv@tempWidthA}%
1674 \global\savebox{\hv@objectBox}{\ifhv@useOBox\usebox{\hv@OBox}\else\hv@floatObject\fi}%
1675 \clipbox*{\the\hv@leftPageObjectWidth}{ \dp\hv@objectBox}{ \wd\hv@objectBox}{ \ht\hv@objectBox}{\usebox
1676 \hv@objectBox}}%
1677 \ifx\hv@floatType\hv@figure
1678 \refstepcounter{hv@tempCNTfigB}%
1679 \else
1680 \refstepcounter{hv@tempCNTtabB}% before caption
1681 \fi
1682 \ifx\hv@label\@empty\else\label{\hv@label-2}\fi
1683 \newpage\if@twocolumn\null\newpage\fi
1684 \begin{\hv@floatType*}[!b]
1685 \hv@twoColumnCaptiontrue
1686 \ifhv@separatorLine\drawSepLine\fi
1687 \expandafter\captionsetup\expandafter{\hv@caption@format}%
1688 \ifhv@onlyText
1689 \hv@longCap
1690 \else
1691 \ifx\hv@shortCap\@empty
1692 \captionof{\hv@floatType}{\hv@longCap}%
1693 \else
1694 \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1695 \fi
1696 \fi
1697 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1698 \end{\hv@floatType*}%
1699 }%
1700 \hv@typeout{do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol: afterpage done} %
1701 }
1702
1703 \def\do@hvFloat@doubleFULLPAGE@CaptionOther#1{%

```

```

1701 \afterpage{%
1702   \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\lineskip
      }%
      -0.5\paperheight+0.5\ht\hvObjectBox
1703   \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1704   \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1705   \thispagestyle{empty}%
1706   \hfuzz=\maxdimen
1707   \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1708   \clipbox*{0 \depth{} \hv@LeftPageObjectWidth{} \height}{\usebox{\hvObjectBox}%
1709   \ifx\hv@floatType\hv@figure
1710     \refstepcounter{hv@tempCNTfigA}%
1711   \else
1712     \refstepcounter{hv@tempCNTtabA}% before caption
1713   \fi
1714   \label{\hv@label}%
1715   \afterpage{%
1716     \if@twocolumn\newpage\if@firstcolumn\else\null\newpage\fi\fi
1717     \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1718     \thispagestyle{empty}%
1719     \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\
          lineskip}%
          -0.5\paperheight+0.5\ht\hvObjectBox
1720     \hspace*{\hv@tempWidthA}%
1721     \clipbox*{\hv@LeftPageObjectWidth{} \dp\hvObjectBox{} \wd\hvObjectBox{} \ht\hvObjectBox}{\usebox\
          hvObjectBox}%
1722     \ifx\hv@floatType\hv@figure
1723       \refstepcounter{hv@tempCNTfigB}%
1724     \else
1725       \refstepcounter{hv@tempCNTtabB}% before caption
1726     \fi
1727     \expandafter\label\expandafter{\hv@label-2}%
1728     \savebox\hvCaptionBox{\parbox{0.9\ht\hvObjectBox}{\captionof*{\hv@floatType}{\hv@longCap}}}%
1729     \ifnum#1 > 0\relax % rotation with 90°
1730 %
1731     \setlength\hv@tempWidthB{\dimexpr\ht\hvCaptionBox+\wd\hvObjectBox+2\hv@set@bindCorrection}%
1732     \ifdim\hv@tempWidthB < 2\paperwidth
1733 %
1734       \rotatebox[origin=lb]{90}{\makebox[\paperheight][c]{\parbox{0.8\ht\hvObjectBox}{%
1735         \expandafter\captionsetup\expandafter{\hv@caption@format}%
1736         \ifhv@onlyText
1737           \hv@longCap
1738         \else
1739           \ifx\hv@shortCap\@empty
1740             \captionof{\hv@floatType}{\hv@longCap}%
1741           \else
1742             \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1743           \fi
1744         \fi
1745       }}}% rotatebox
1746     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1747   \else% ifdim: no space left on page
1748     \put(-2\ht\hvCaptionBox,0.5\ht\hvObjectBox){\makebox(0,0){\rotatebox{90}{\minipage{\textwidth}\
          centering
1749     \parbox{0.8\textwidth}{%
1750       \ifhv@onlyText
1751       \hv@longCap
1752     \else
1753       \ifx\hv@shortCap\@empty
1754         \captionof{\hv@floatType}{\hv@longCap}%
1755       \else
1756         \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1757       \fi
1758     \fi
1759     }%
1760     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1761   \endminipage}}}%
1762   \fi
1763   \else% ifnum, caption not rotated, under or over the right page
1764     \hv@tempWidthA=\the\dimexpr\paperheight-\ht\hvObjectBox\relax
1765     \ifdim\hv@tempWidthA > \ht\hvCaptionBox

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1764     \else
1765         \put(\the\dimexpr1.5\paperwidth-\wd\hvObjectBox-\hvSet@bindCorrection,\the\dimexpr\ht\
           hvCaptionBox+\abovecaptionskip+\belowcaptionskip){\makebox[0pt][c]{\parbox{\textwidth}{%%
1766 %         \expandafter\captionsetup\expandafter{\hv@caption@format}%
1767         \ifhv@onlyText
1768         \hv@longCap
1769         \else
1770             \ifx\hv@shortCap\@empty
1771                 \captionof{\hv@floatType}{\hv@longCap}%
1772             \else
1773                 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1774             \fi
1775         \fi
1776     }}}%
1777     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1778     \fi
1779     \fi% end \ifnum#1>0
1780     \newpage\if@twocolumn\null\newpage\fi
1781     }%
1782 }%
1783 }
1784
1785
1786 \def\setBottomCaption{%
1787     \ifhv@twoColumnCaption
1788         \begin{\hv@floatType*}[!b]%
1789     \else
1790         \begin{\hv@floatType*}[!b]%
1791     \fi
1792     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1793     \ifhv@separatorLine\drawSepLine\fi
1794     \par
1795     \usebox\hvCaptionBox
1796     \ifhv@twoColumnCaption
1797         \end{\hv@floatType*}%
1798     \else
1799         \end{\hv@floatType}%
1800     \fi
1801 }
1802
1803 \def\setPageObject{%
1804     \ifhv@star
1805         \begin{\hv@floatType*}[p]%
1806     \else
1807         \begin{\hv@floatType*}[p]%
1808     \fi
1809     \hv@tempcnt=\@floatpenalty% suppress "float too big" message
1810     \hfuzz=\maxdimen
1811     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1812     \ifhv@FULLPAGE
1813         \@floatpenalty=\z@% no message that float too large
1814         \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep}%-0.5\baselineskip%
1815         \checkoddpage
1816         \if@twoside
1817             \ifoddpage
1818                 \hspace*{\the\dimexpr-\oddsidemargin-\parindent-\lin}%
1819             \else
1820                 \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1821             \fi
1822         \else
1823             \hspace*{\the\dimexpr-\oddsidemargin-\parindent-\lin}%
1824         \fi
1825         \@AtBeginShipoutNext{\thispagestyle{empty}}% to prevent heading/footer
1826 %         \afterpage{\AddToHookNext{shipout/after}{\thispagestyle{empty}}}%
1827         \usebox\hvObjectBox
1828     \else
1829         \usebox\hvObjectBox

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1830 \fi
1831 \ifhv@star
1832 \end{\hv@floatType*}%
1833 \else
1834 \end{\hv@floatType}%
1835 \fi
1836 \@floatpenalty=\hv@tempcnt% restore
1837 }
1838
1839 \ExplSyntaxOn
1840
1841 \def\getMultiCaptionAndLabel{%
1842 \ifhv@twoColumnCaption\hv@tempwidthA=\textwidth \else \hv@tempwidthA=\linewidth\fi
1843 \global\sbox\hvCaptionBox{\minipage[b]{\hv@tempwidthA}%
1844 \captionsetup{aboveskip=\z@, belowskip=\z@, position=below, parbox=none}%, skip=-1ex}%
1845 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1846 \parskip=-0.5\baselineskip
1847 \hv@cntb=\clist_count:N\L_clist_Type
1848 \advance\hv@cntb by \@ne
1849 \hv@cna=1
1850 \loop
1851 \edef\@captive{\clist_item:Nn\L_clist_Type{\hv@cna}}%
1852 \edef\@tempa{\clist_item:Nn\L_clist_LofCaption{\hv@cna}}%
1853 \ifx\@tempa\@empty
1854 \caption{\clist_item:Nn\L_clist_Caption{\hv@cna}}%
1855 \else
1856 \expandafter\caption\expandafter[\@tempa]{\clist_item:Nn\L_clist_Caption{\hv@cna}}%
1857 \fi
1858 \edef\@tempa{\clist_item:Nn\L_clist_Label{\hv@cna}}%
1859 \ifx\@tempa\@empty
1860 \else
1861 \expandafter\label\expandafter{\clist_item:Nn\L_clist_Label{\hv@cna}-cap}\fi
1862 \advance\hv@cna by \@ne
1863 \ifnum\hv@cna<\hv@cntb
1864 \repeat
1865 \vspace{-\baselineskip}% no vspace at the end
1866 \endminipage}%
1867 }
1868
1869 \def\getMultiObjectAndLabel{%
1870 \global\sbox\hvObjectBox{%
1871 \ifhv@vfill
1872 \minipage[b][\textheight][s]{\columnwidth}%
1873 \else
1874 \minipage{\columnwidth}%
1875 \fi
1876 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1877 \ifx\hvSet@objectPos\hv@Right\raggedleft\else
1878 \ifx\hvSet@objectPos\hv@Left\raggedleft\else
1879 \ifx\hvSet@objectPos\hv@Center\centering
1880 \fi\fi\fi
1881 \hv@cntb=\clist_count:N\L_clist_Type
1882 \advance\hv@cntb by \@ne
1883 \hv@cna=1
1884 \loop
1885 \def\@temp{\clist_item:Nn\L_clist_Object{\hv@cna}}%
1886 \ifhv@objectFrame\frame{\@temp}\else\@temp\fi
1887 \edef\@tempa{\clist_item:Nn\L_clist_Label{\hv@cna}}%
1888 \edef\@tempb{\clist_item:Nn\L_clist_Type{\hv@cna}}%
1889 \edef\@captive{\hv@p@\@tempb}%
1890 \ifx\@tempa\@empty
1891 \else
1892 \refstepcounter{\@captive}%
1893 \expandafter\label\expandafter{\clist_item:Nn\L_clist_Label{\hv@cna}}%
1894 \fi
1895 \ifnum\hv@cna<\clist_count:N\L_clist_Type\par\hv@vskip\fi
1896 \advance\hv@cna by \@ne

```

```

1897 \ifnum\hv@cmta<\hv@cmtb
1898 \ifhv@vFill\vfill\fi
1899 \repeat
1900 \endminipage}%
1901 }
1902 \def\getMultiSubCaptionAndLabel{%
1903 \global\sbbox\hvCaptionBox{%
1904 \minipage{\linewidth}%
1905 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1906 \setlength\belowcaptionskip{5pt}%
1907 \setlength\abovecaptionskip{0pt}%
1908 \xdef\@captype{\clist_item:Nn\l_clist_Type{1}}% the same for all subfloats
1909 \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{1}}%
1910 \ifx\@tempa\@empty
1911 \caption{\clist_item:Nn\l_clist_Caption{1}}%
1912 \else
1913 \expandafter\caption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{1}}%
1914 \fi
1915 \edef\@tempa{\clist_item:Nn\l_clist_Label{1}}%
1916 \ifx\@tempa\@empty\else\expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{1}-cap}\fi
1917 \endminipage}%
1918 }
1919
1920 \def\getMultiSubObjectAndLabel{%
1921 \global\sbbox\hvObjectBox{%
1922 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1923 \ifhv@vFill
1924 \minipage[b][\textheight][s]{\columnwidth}%
1925 \captionsetup{belowskip=0pt}%
1926 \else
1927 \minipage{\columnwidth}%
1928 \fi
1929 % \ifx\hv@subcaption@format\@empty\else
1930 % \expandafter
1931 % \captionsetup\expandafter[\expandafter s\expandafter u\expandafter b\expandafter]\expandafter
1932 % \hv@subcaption@format}%
1933 % \fi
1934 \ifx\hvSet@objectPos\hv@Right\raggedleft\else
1935 \ifx\hvSet@objectPos\hv@Left\raggedleft\else
1936 \ifx\hvSet@objectPos\hv@Center\centering
1937 \fi\fi\fi
1938 \hv@cmtb=\clist_count:N\l_clist_Caption
1939 \advance\hv@cmtb by \@ne
1940 \hv@cmta=2
1941 \edef\@captype{\clist_item:Nn\l_clist_Type{1}}% the same for all subfloats
1942 \ifx\@tempa\@empty
1943 \else
1944 % \refstepcounter{\@captype}%
1945 % \expandafter\label\expandafter{\@tempa}%
1946 \fi
1947 \loop
1948 \def\@temp{\clist_item:Nn\l_clist_Object{\hv@cmta}}%
1949 \ifhv@objectFrame\frame{\@temp}\else\@temp\fi
1950 \begingroup
1951 \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{\hv@cmta}}%
1952 \ifx\@tempa\@empty
1953 \subcaption{\clist_item:Nn\l_clist_Caption{\hv@cmta}}%
1954 \else
1955 \expandafter\subcaption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{\hv@cmta}}%
1956 \fi
1957 \edef\@tempa{\clist_item:Nn\l_clist_Label{\hv@cmta}}%
1958 \ifx\@tempa\@empty
1959 \else
1960 \expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{\hv@cmta}}%
1961 \fi
1962 \endgroup
1963 \ifnum\hv@cmta<\clist_count:N\l_clist_Type\par\hv@vskip\fi

```

```

1964     \advance\hv@cmta by \@ne
1965     \ifnum\hv@cmta<\hv@cmtb
1966     \ifhv@vFill\vfill\fi
1967 \repeat
1968 \edef\@tempa{\clist_item:Nn\l_clist_Label{1}}%   the main label at the end
1969 \ifx\@tempa\@empty
1970 \else
1971     \edef\@temp{\hv@p\@capttype}%
1972     \refstepcounter{\@temp}%
1973     \expandafter\label\expandafter{\@tempa}%
1974 \fi
1975 \endminipage}%
1976 }
1977 \ExplSyntaxOff
1978
1979 \def\getSingleCaptionAndLabel{%
1980 \global\sbox\hvCaptionBox{\minipage{\linewidth}%
1981 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1982 \setlength\belowcaptionskip{5pt}%
1983 \setlength\abovecaptionskip{0pt}%
1984 \ifhv@onlyText
1985 \hv@longCap
1986 \else
1987     \edef\@capttype{\hv@floatType}%
1988     \expandafter\ifx\expandafter\relax\hv@shortCap\relax
1989         \expandafter\ifx\hv@longCap\@empty \else % empty caption?
1990             \caption{\hv@longCap}%
1991         \fi
1992     \else
1993         \expandafter\ifx\hv@longCap\@empty
1994             \caption[\hv@shortCap]{}%
1995         \else
1996             \caption[\hv@shortCap]{\hv@longCap}%
1997         \fi
1998     \fi
1999 \fi
2000 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
2001 \endminipage}%
2002 }
2003
2004 \def\set@caption@object#1{%   first caption, then object #1=\hv@floatType
2005 \ifhv@multiFloat
2006     \setcounter{hv@pfigure}{\value{figure}}%
2007     \setcounter{hv@ptable}{\value{table}}%
2008     \getMultiCaptionAndLabel
2009 \else
2010 \ifhv@subFloat
2011     \setcounter{hv@pfigure}{\value{figure}}%
2012     \setcounter{hv@ptable}{\value{table}}%
2013     \getMultiSubCaptionAndLabel
2014 \else
2015     \getSingleCaptionAndLabel
2016 \fi
2017 \fi
2018 \edef\@capttype{hv@p#1}%
2019 \ifhv@multiFloat
2020     \getMultiObjectAndLabel
2021 \else
2022 \ifhv@subFloat
2023     \getMultiSubObjectAndLabel
2024 \else
2025     \global\sbox\hvObjectBox{%
2026     \refstepcounter{\@capttype}%
2027     \ifhv@objectFrame\frame{\hv@floatObject}\else\hv@floatObject\fi
2028     \expandafter\ifx\expandafter\relax\hv@label\relax
2029     \else
2030     \expandafter\label\expandafter{\hv@label}%

```

25 The Package Source

```
2031     \fi
2032   }%
2033   \fi
2034 \fi
2035 }
2036 %
2037 \endinput
```