

Package hvfloat

Controlling captions, fullpage and doublepage floats

ver 2.31

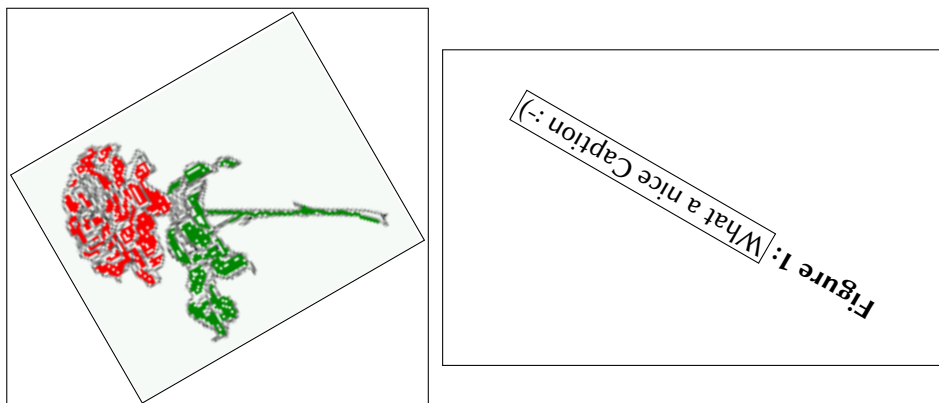
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The package hvfloat defines a macro to place objects and captions of floats in different positions with different rotating angles.

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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1 The package options

<code>fbox</code>	The objects and captions are put into a <code>\fbox</code> 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.
<code>hyperref</code>	Load package <code>hyperref</code> .
<code>nostfloats</code>	do not load package <code>stfloats</code> .

The length `\belowcaptionskip` is set by \LaTeX to 0pt and changed in `hvfloat` 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 `hvfloat` and the optional argument `hypcap` is passed to the packages `caption` and `subcaption`:

`caption`, `subcaption`, `atbegshi`, `stfloats`, `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 48 and the optional `+` is explained in section 17.3 on page 37.

`\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 `hvfloat`, 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:
\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>
floatPos	tbp	This is the same default placement setting as in standard L ^A T _E X; maybe not always the best setting.
rotAngle	0	The value for the angle if both the object and the caption should be rotated together.
capWidth	n	The width of the caption. Can be n for a natural width given by the current linewidth, w for the width of the object, h for the height of the object, or a scale factor for \columnwidth.
capAngle	0	The integer value for the angle if the caption should be rotated. Positive is counter-clockwise.
capPos	bottom	The position of the caption relative to the object. Possible values: before: <i>always</i> before (left) from the object. top: <i>always</i> on top of the object. left: <i>always</i> before (left) from the object, but on the same page in twocolumn mode. after: <i>always</i> after (right) from the object. bottom: <i>always</i> on the bottom of the object. right: <i>always</i> after (right) from the object, but on the same page in twocolumn mode. inner: in twoside mode always typeset at the inner margin. outer: in twoside mode always typeset at the outer margin. evenPage: in twoside mode with fullpage objects always on an even page. oddPage: in twoside mode with fullpage objects always on an odd page.
capVPos	center	Only used when capPos=left right; in these cases, the caption can be vertically placed at the bottom, center or top.
objectPos	center	Horizontal placement of the object relative to the document. Possible values are (l)eft, (c)enter, (r)ight.
objectAngle	0	Integer value for the angle if the object should be rotated. Positive is counter-clockwise.
floatCapSep	5pt	Additional space between the object and a left- or right-placed caption.
useOBox	false	Instead of passing the object as a parameter to \hvFloat, with useOBox=true the contents of the predefined box \hvOBox is used.
onlyText	false	The caption is printed as normal text with no entry in any list of ...
nonFloat	false	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.
wide	false	The float can use \textwidth + \marginparwidth 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
\hvFloat	command	places object and caption in different ways
hvFloatEnv	environment	places object and caption exactly Here
\figcaption	command	writes a figure caption in a non floating environment
\tabcaption	command	writes a table caption in a non floating environment
\hvFloatSetDefaults	command	sets all options to the defaults
\hvDefFloatStyle	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

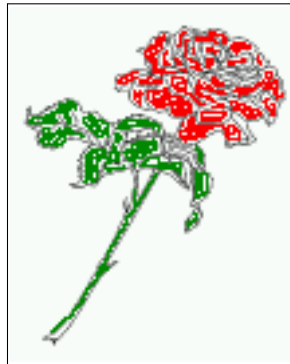


Figure 3: Default caption width setting, which is the natural width with respect to the current linewidth.

!! 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

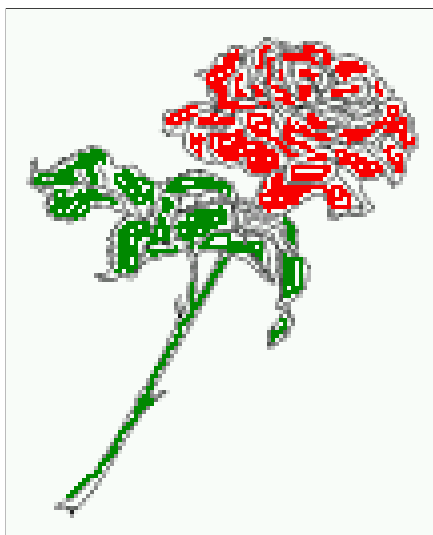


Figure 4: Caption right beside with a *natural* width, which is given by the width of the object, the separation between object and caption, and the current linewidth.

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 which is too big for this example and therefore corrected by the macro to the maximal width.

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}
```

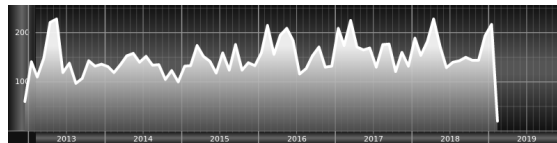


Figure 7: Caption below with a width of the given object which may be a problem if it is a very small object.

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}{\  
  includegraphics{images/rose}}%  
2 {Caption beside with a width of the given object height which may be a problem  
3 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. 9 float
capPos=right

5.2 Caption left and rotated

Code for figure 10:

```

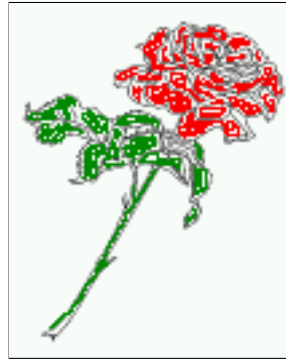
1 \hvFloat%
2   [floatPos=htb,
3     capPos=left,
4     capWidth=h,% of \columnwidth
5     capAngle=90,
6     objectFrame
7   ]{figure}{\includegraphics{images/rose}}%
8   [Centered Caption beside Object]%
9   {Caption vertically centered left beside the float with a caption width
10  of \texttt{capWidth=h},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

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

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

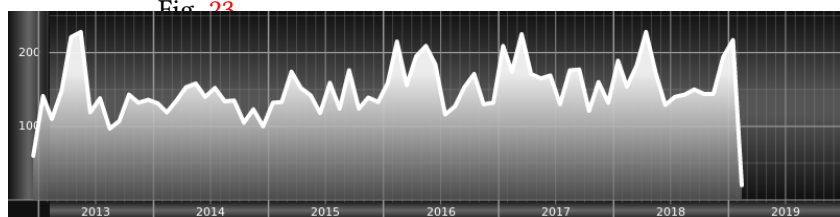


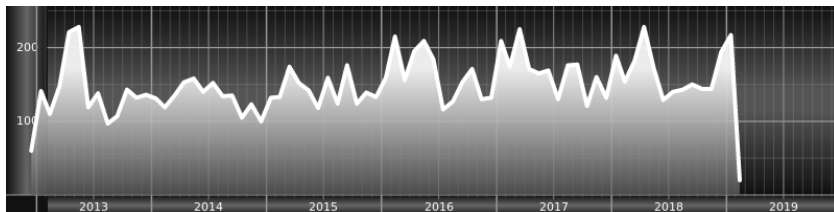
Figure 23: Caption at top right beside the float and object position left and the option `wide`.

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`.

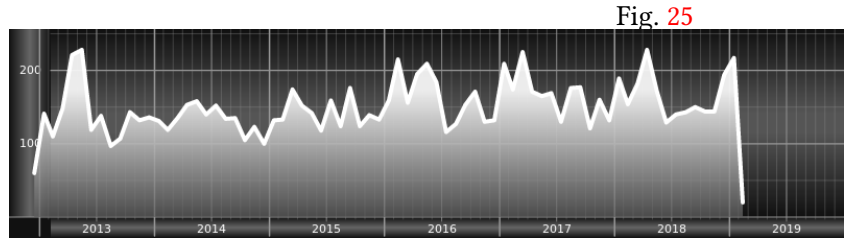


For a twosided document it will place the object always in the margin.

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.

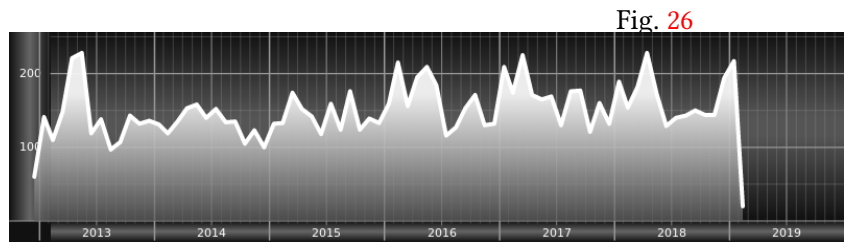


Now we set the same image with the same setting on the next page. The caption will change its side due to the setting `capPos=outer`.

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}
```

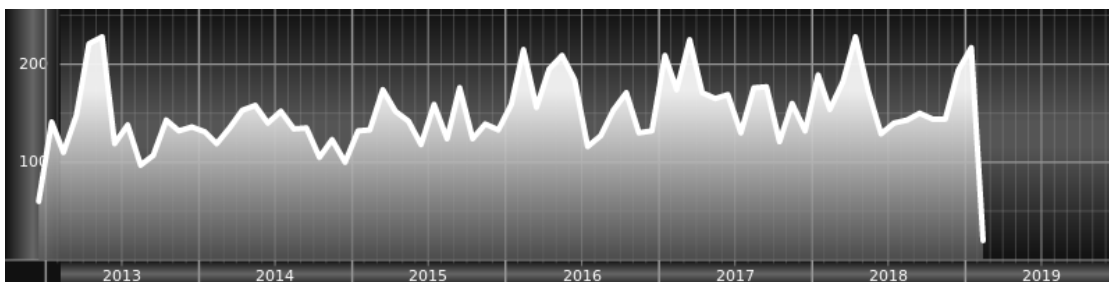


Fig. 27
Figure 27: Caption at top inner beside the float and object position right and the option wide.

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 28) 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.

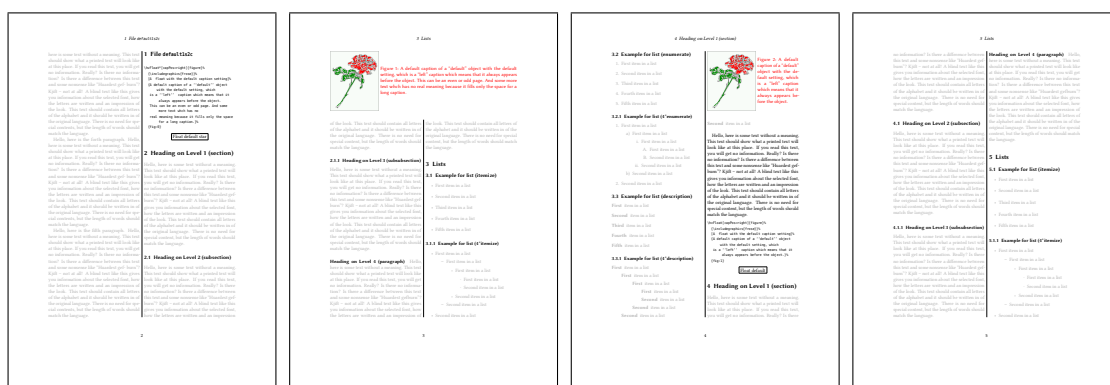


Figure 28: Output of default1s2c (pages 2–5)

12 Full Page Width in Landscape Mode

If you do not want to load the package lscap (or pdf1scape) you can use the floatPos=p option to put the image on an own page and rotated by 90 degrees (figure 29).

Code for figure 29:

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

Fig. 29

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

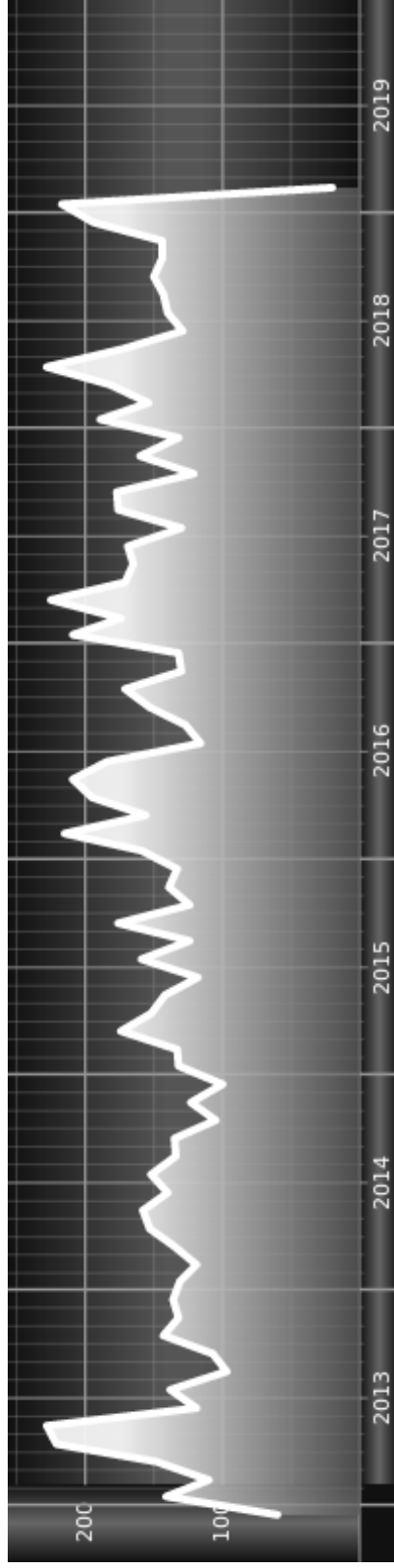


Figure 29: Caption and object in landscape mode. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense 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.

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 30:

```

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}

```

Fig. 30

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.

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.

```

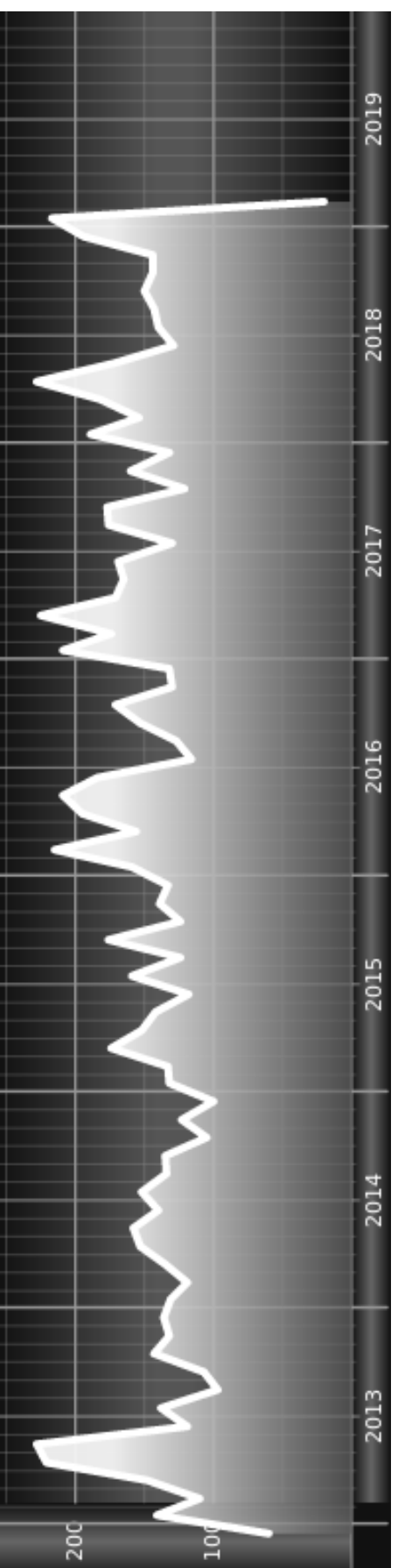
1 Some nonsense text before the following \emph{non floating} object.
2
3 \hvFloat[%
4   nonFloat,
5   capWidth=0.25,
6   capPos=right,
7   capVPos=bottom,
8   objectPos=center,
9   objectFrame,
10 ]{figure}{\includegraphics[scale=1.5]{images/rose}}%
11   [Nonfloat Captions]{%
12    Caption of a ‘‘nonfloat’’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

```

Fig. 31

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

Figure 30: 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.



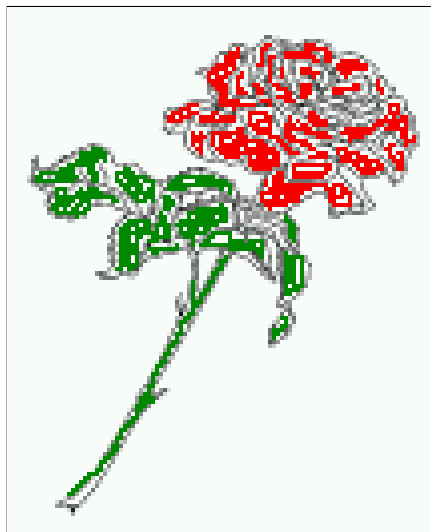


Figure 31: Caption of a “nonfloat” Object, using the nonfloat Package

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

The image 31 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 useOBox=true]{table}{}{Demonstration of the \texttt{useOBox} Parameter}{table:1}
5
6 \hvblindtext
7
8 \marginnote{Tab.-\ref{table:2}}
9 \hvFloat[%
10 floatPos=hb,
11 useOBox=true,
12 objectAngle=90,
13 capPos=right,
14 capVPos=top,
15 capWidth=0.3]{table}{}{Another demonstration of the \texttt{useOBox} Parameter}{table:2}

```

In this case leave the third parameter empty.

Table 4: Demonstration of the useOBox Parameter

Tab. 4

Name	Type	Description
\hvFloat	command	places object and caption in different ways
hvFloatEnv	environment	places object and caption exactly Here
\figcaption	command	writes a figure caption in a non floating environment
\tabcaption	command	writes a table caption in a non floating environment
\hvFloatSetDefaults	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 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}

```



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

Fig. 15

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

Table 5: Demonstration of the use0Box Parameter

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 preceeding or following page. It is possible in oneside 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]{%           \define@key{Gin}{FullPage}[true]{%
  \def\Gin@ewidth{\columnwidth}%             \def\Gin@ewidth{\textwidth}%
  \def\Gin@eheight{\textheight}%             \def\Gin@eheight{\textheight}%
  \Gin@boolkey{false}{iso}%                  \Gin@boolkey{false}{iso}%
}                                              }
\define@key{Gin}{FULLPAGE}[true]{%
  \def\Gin@ewidth{\paperwidth}%
  \def\Gin@eheight{\paperheight}%
  \Gin@boolkey{false}{iso}%
}

```

Figure 32 on the next page shows the meaning of the optional arguments fullpage, FullPage, and FULLPAGE for `\includegraphics [...]{tiger}`.

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 preceeding or following page. It is possible in oneside 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

```

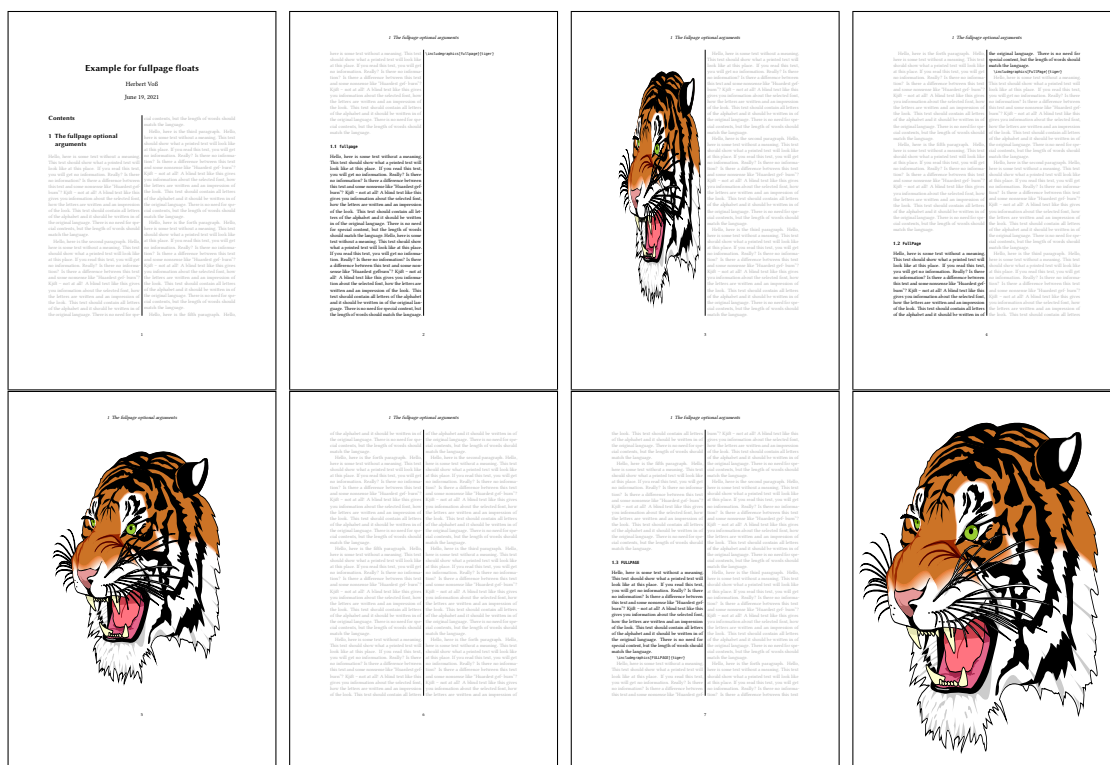


Figure 32: Output of fullpage1s2c (pages 1–8)

```

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 37.
subFloat	true false	For multiple objects with one main and more subcaptions. See section 18 on page 39.
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 oneside 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 document is typeset in a oneside mode. Figure 33 on the facing page

shows the output for a oneside 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 on the preceding page shows the valid optional arguments for a full page floating object.

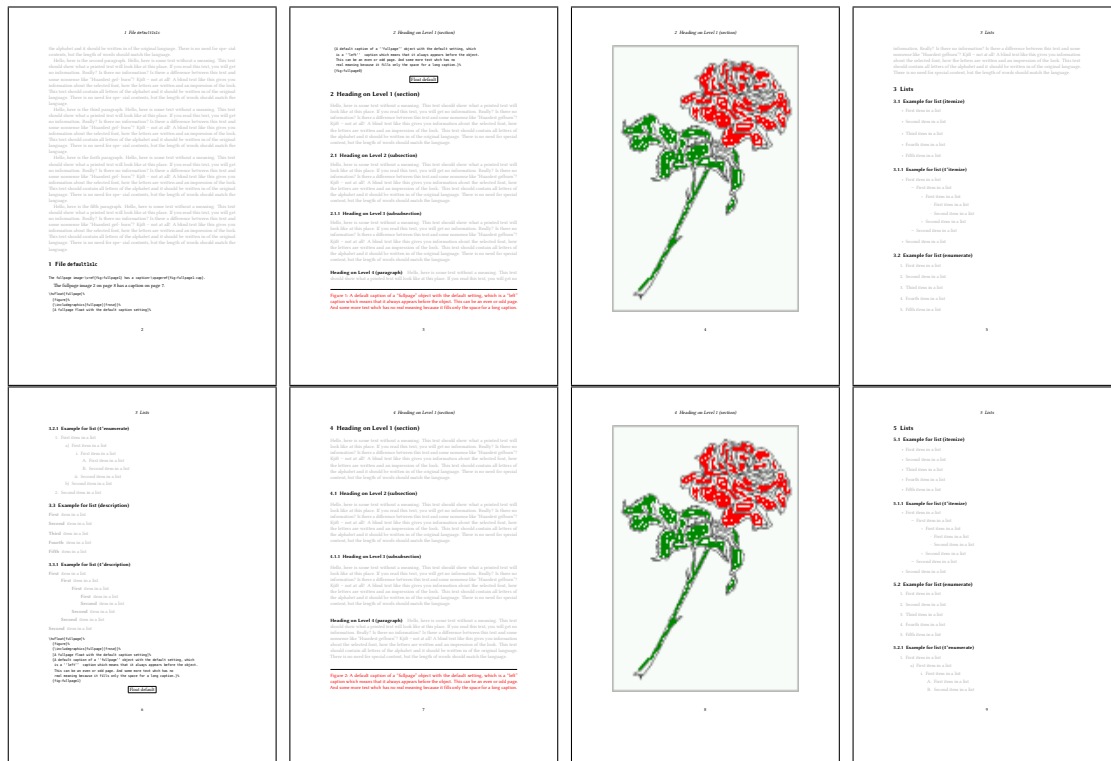


Figure 33: Output of default1s1c (pages 2–9)

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 \hvfFloat[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}

```

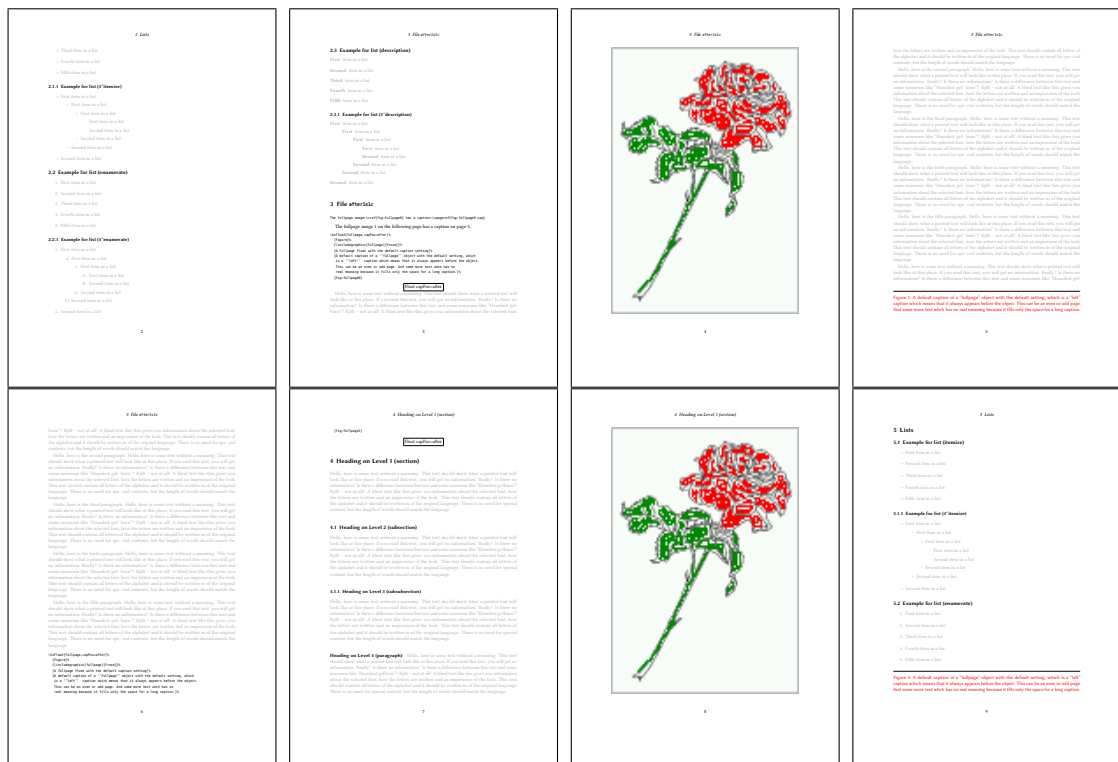


Figure 34: Output of after1s1c (pages 2–9)

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}

```

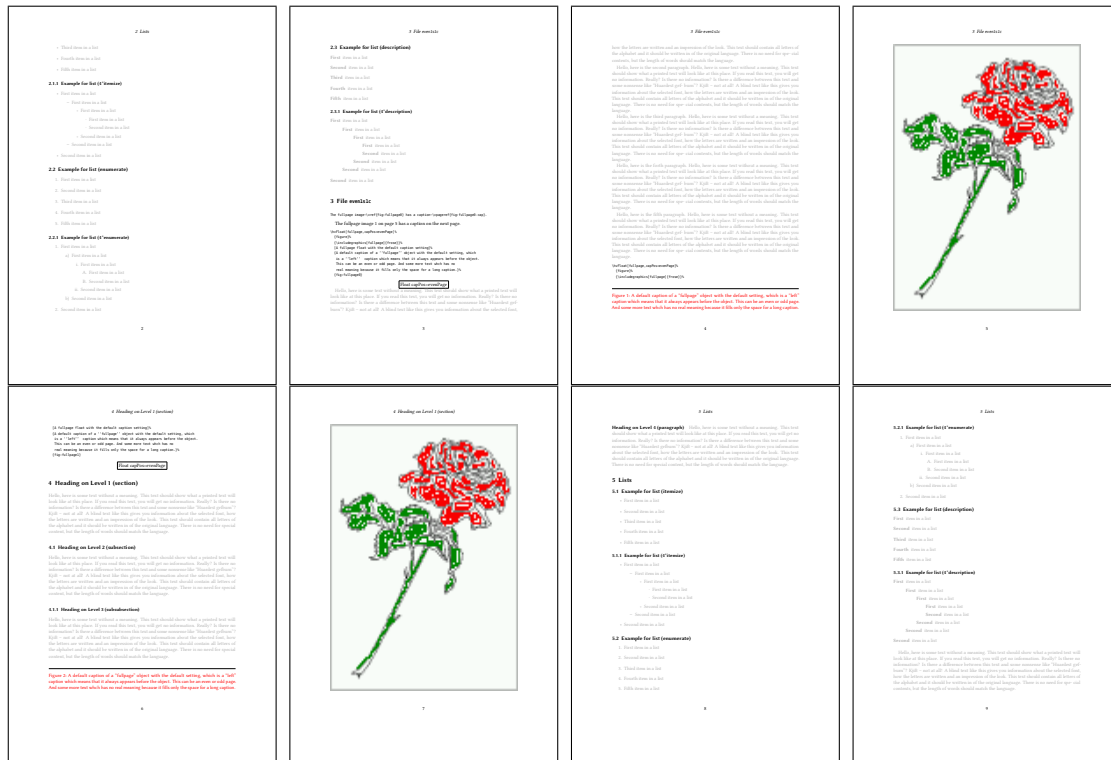


Figure 35: Output of even1s1c (pages 2–9)

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}

```

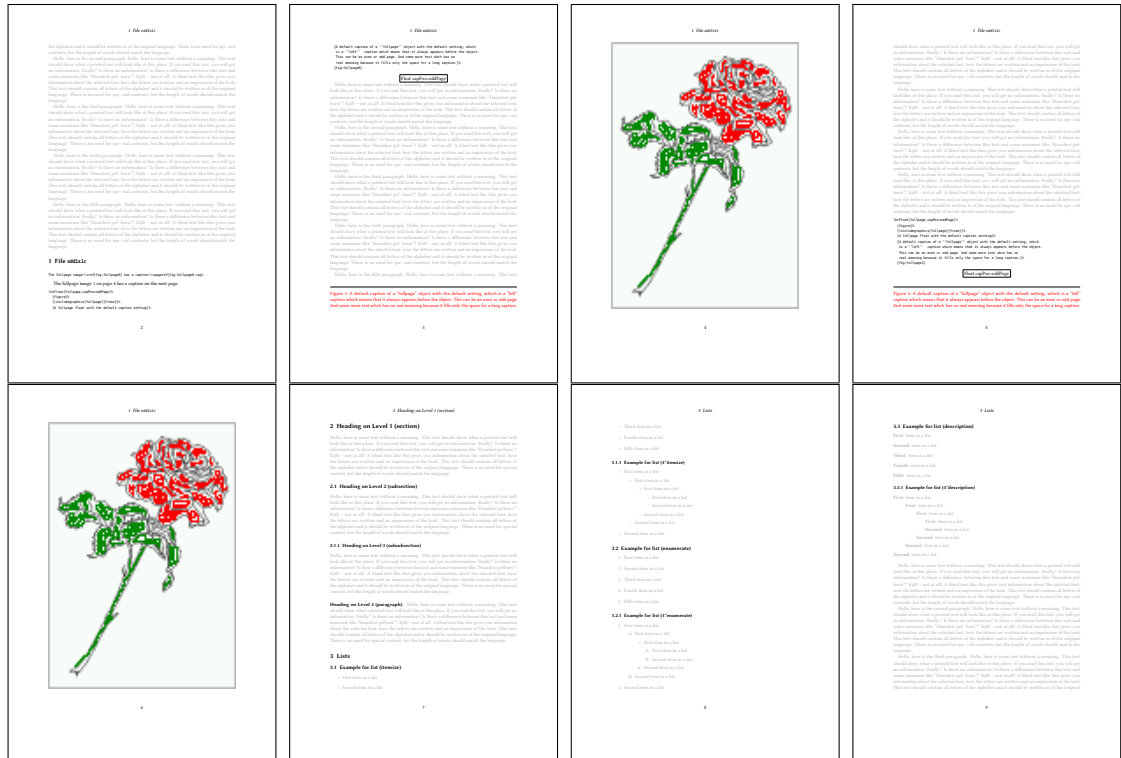


Figure 36: Output of odd1s1c (pages 2–9)

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]{froese.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}

```

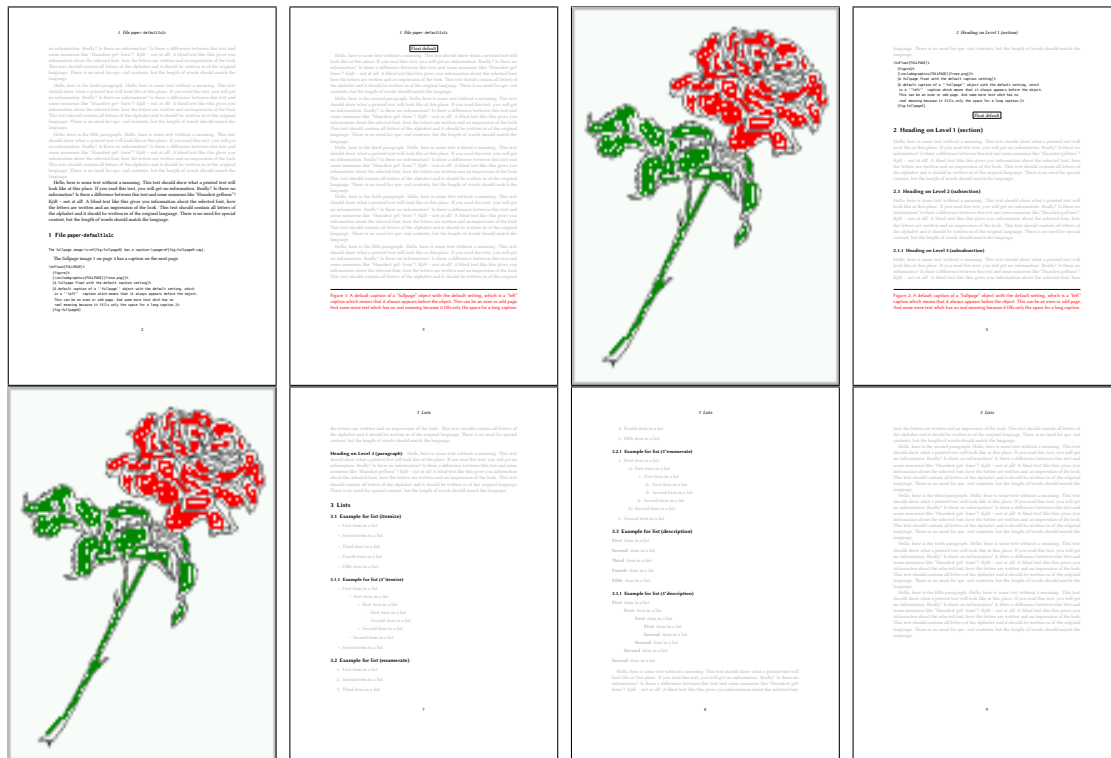


Figure 37: Output of paper-default1s1c (pages 2–9)

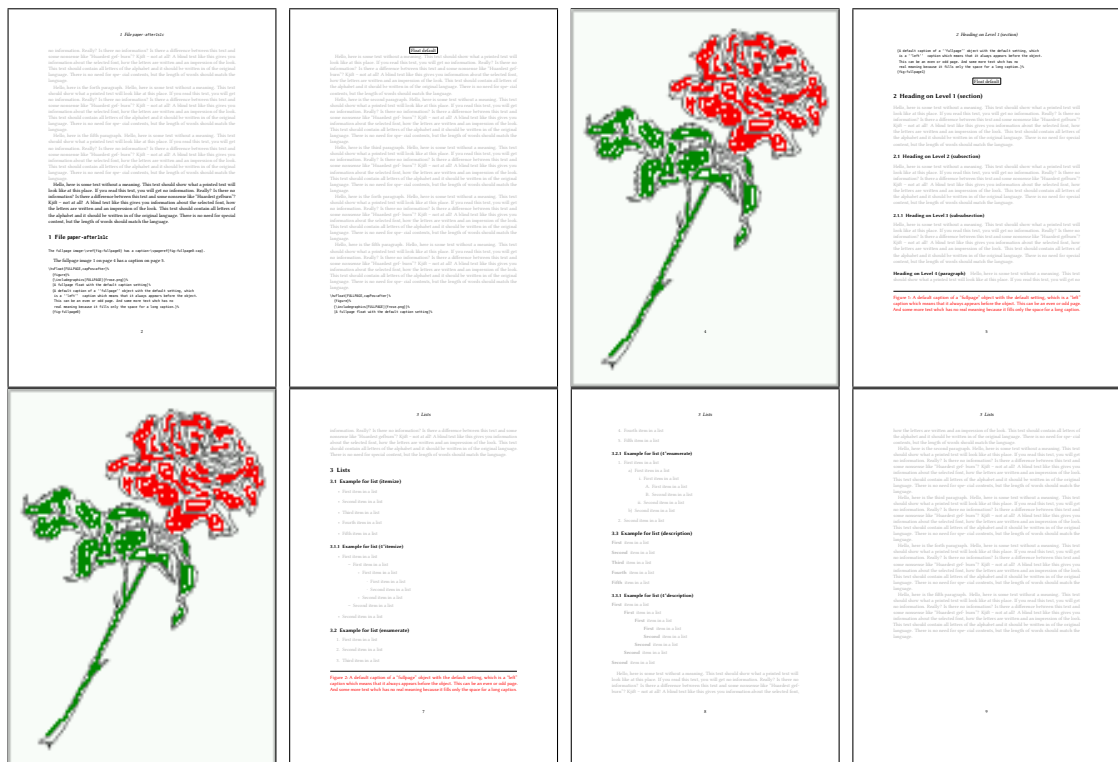


Figure 38: Output of paper-after1s1c (pages 2-9)

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 39](#). The setting `\captionsetup{singlelinecheck=false}` is needed if you want the captions always left aligned.

17 Full page objects in onecolumn mode

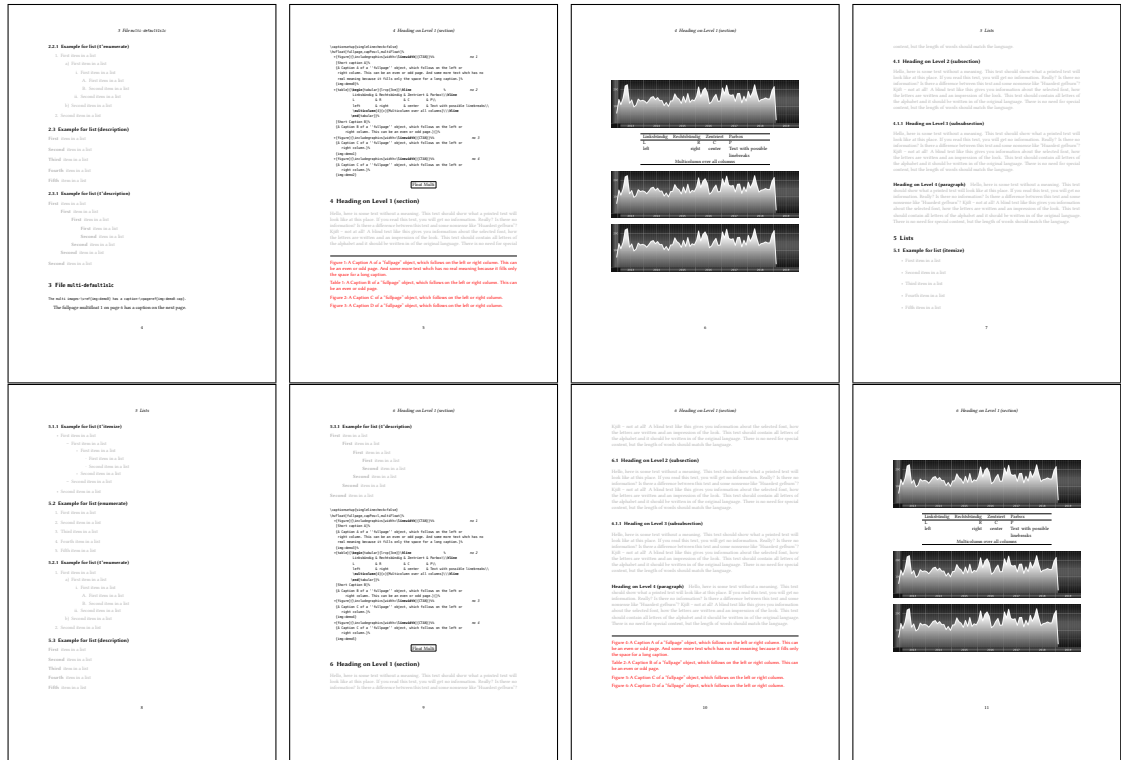


Figure 39: Output of multi-default1s1c (pages 4–11)

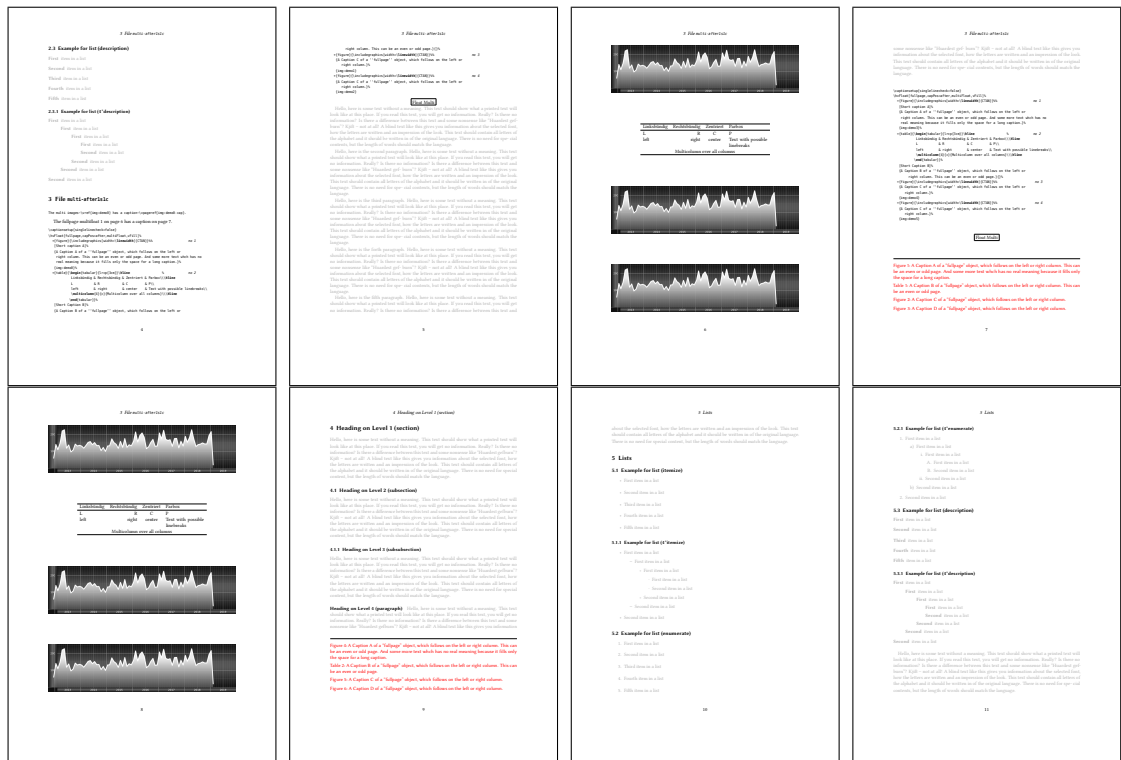


Figure 40: Output of multi-after1s1c (pages 4–11)

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 multifold 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].

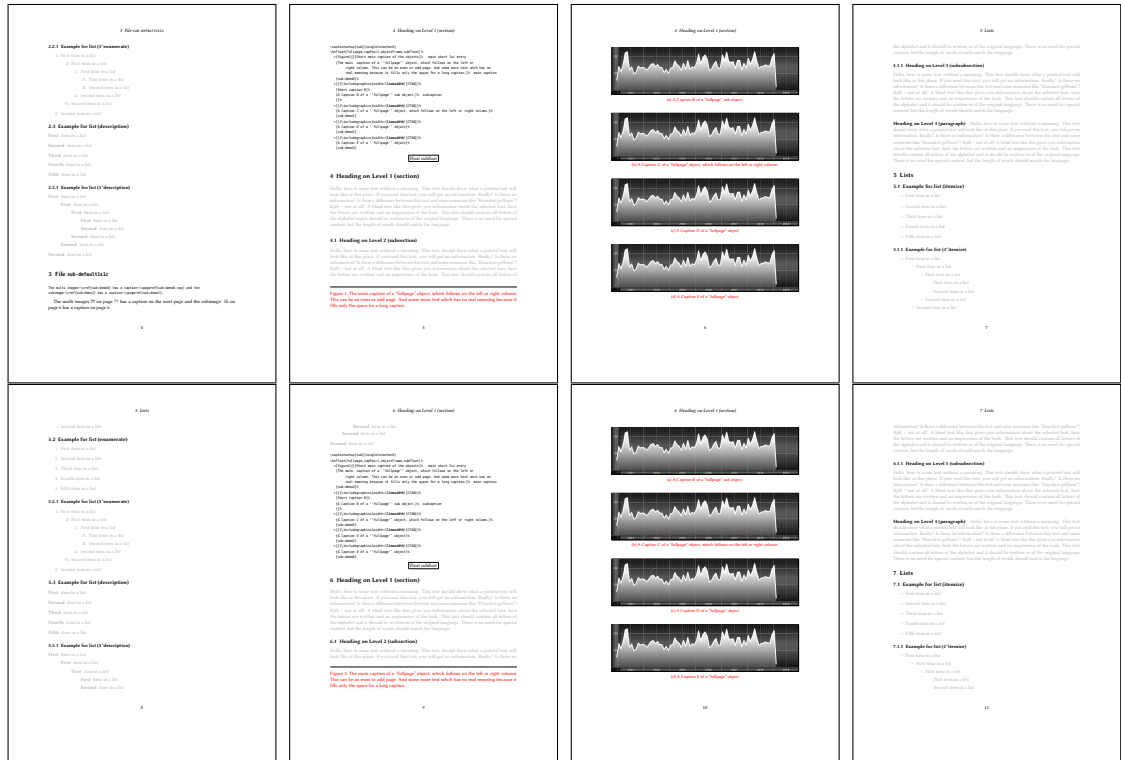


Figure 41: Output of sub-default1s1c (pages 4–11)

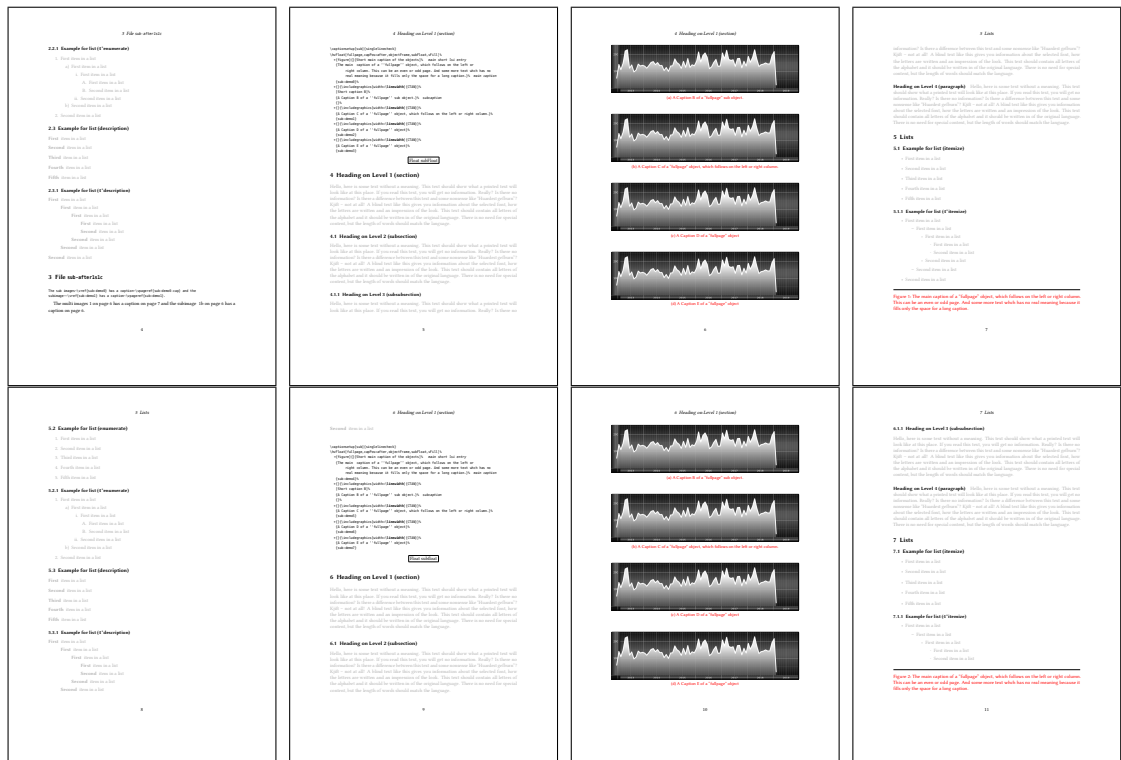


Figure 42: Output of sub-after1s1c (pages 4–11)

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 30 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 43).

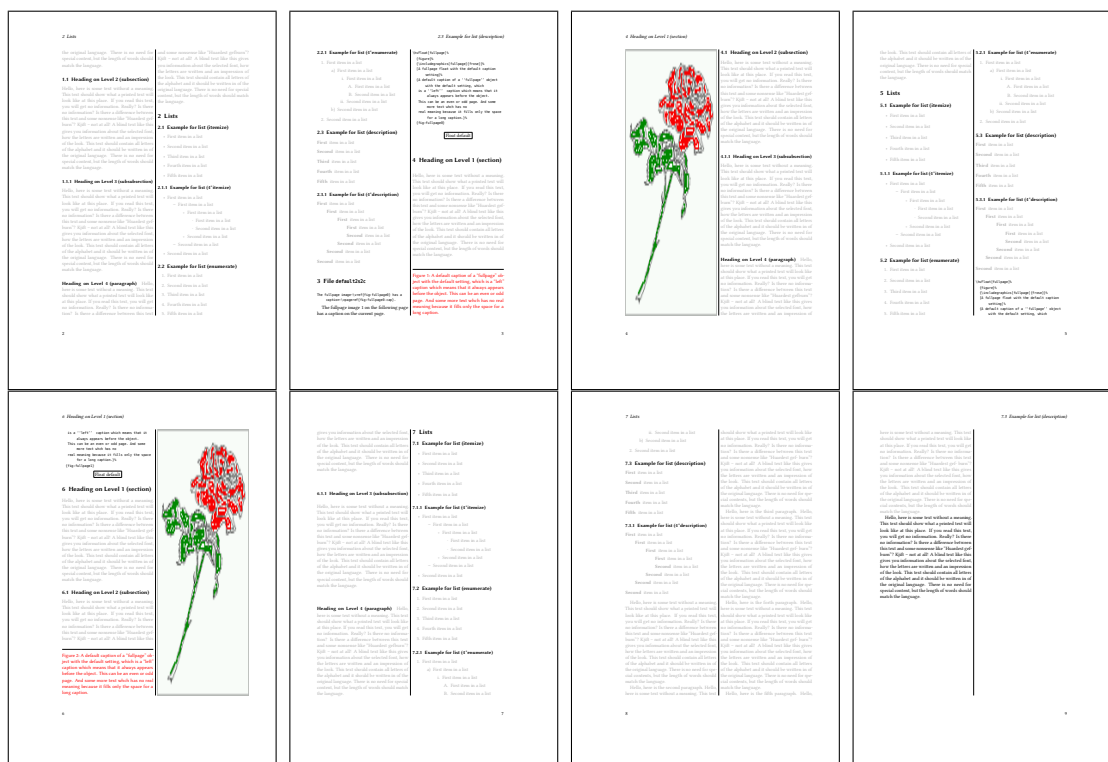


Figure 43: Output of default2s2c (pages 2–9)

```

1 \hFloat[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 43 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

19 Full page objects in twocolumn mode

object, but always on the *same page* (see Figure 44).

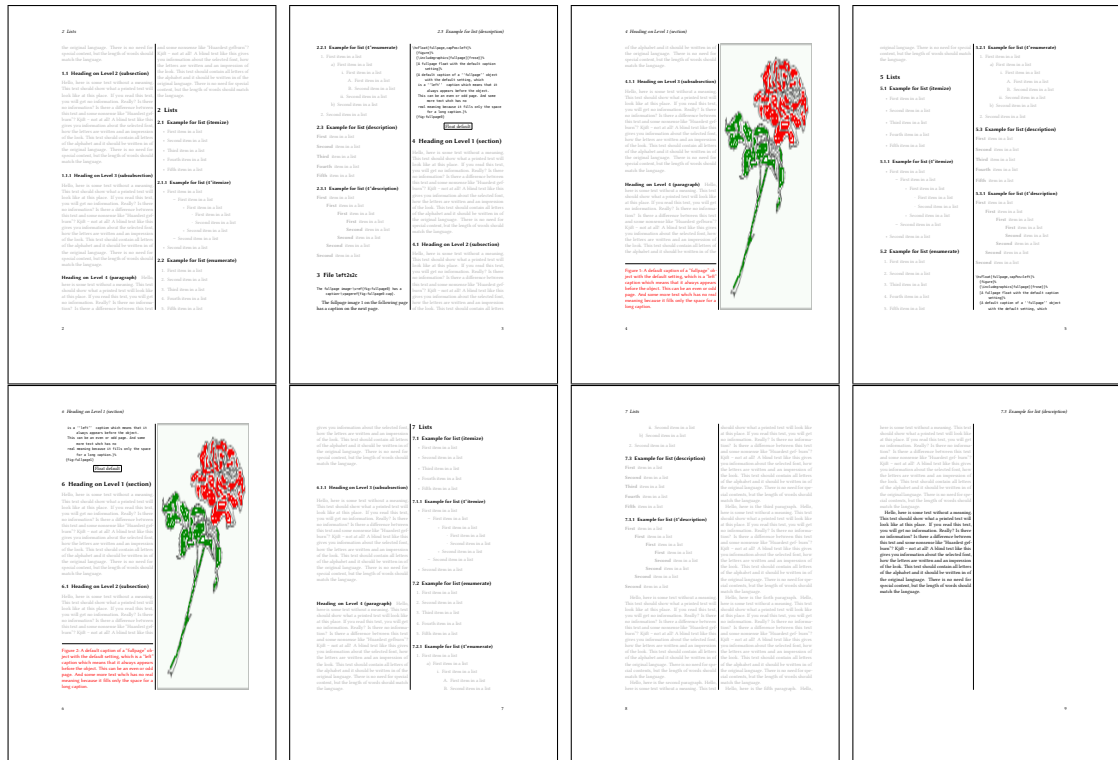


Figure 44: Output of left2s2c (pages 2–9)

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 46 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 45 on the facing 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.

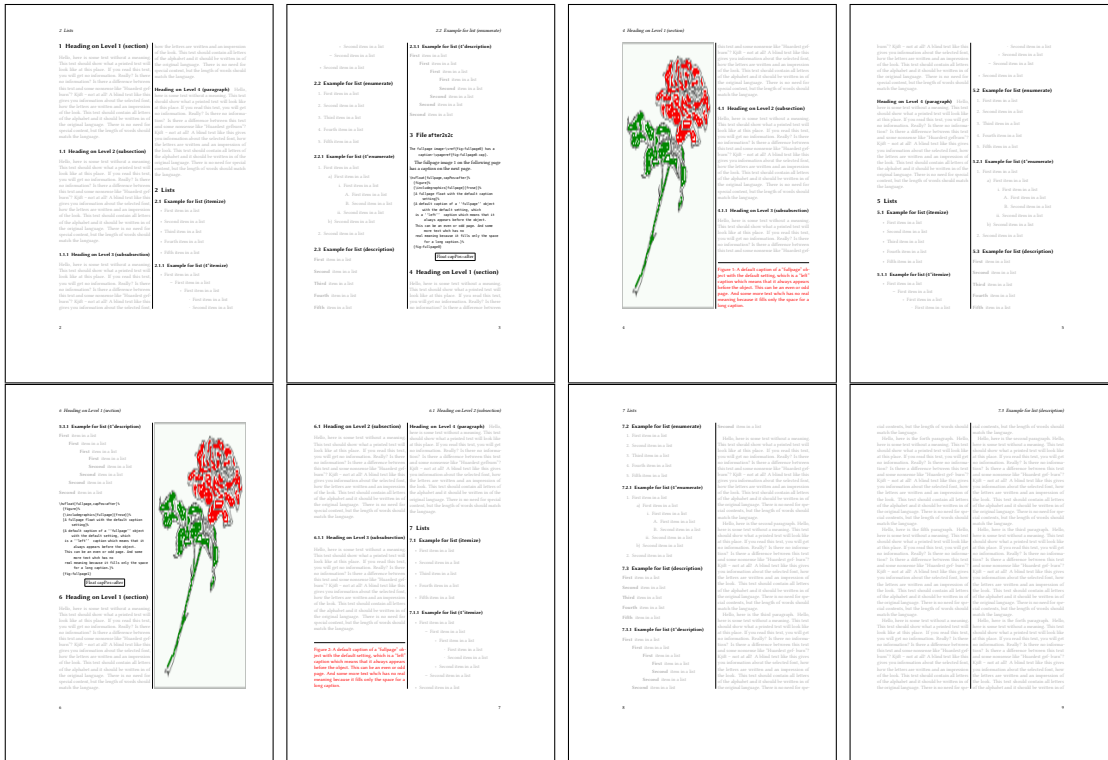


Figure 45: Output of after2s2c (pages 2–9)

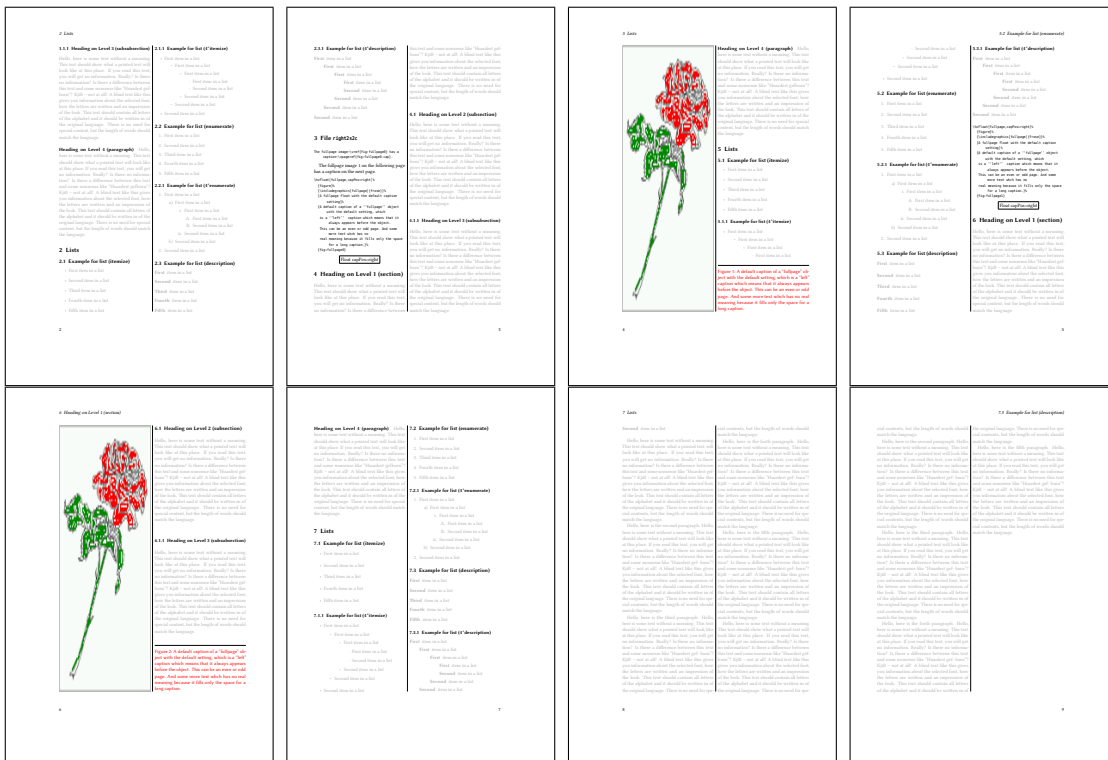


Figure 46: Output of right2s2c (pages 2–9)

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.

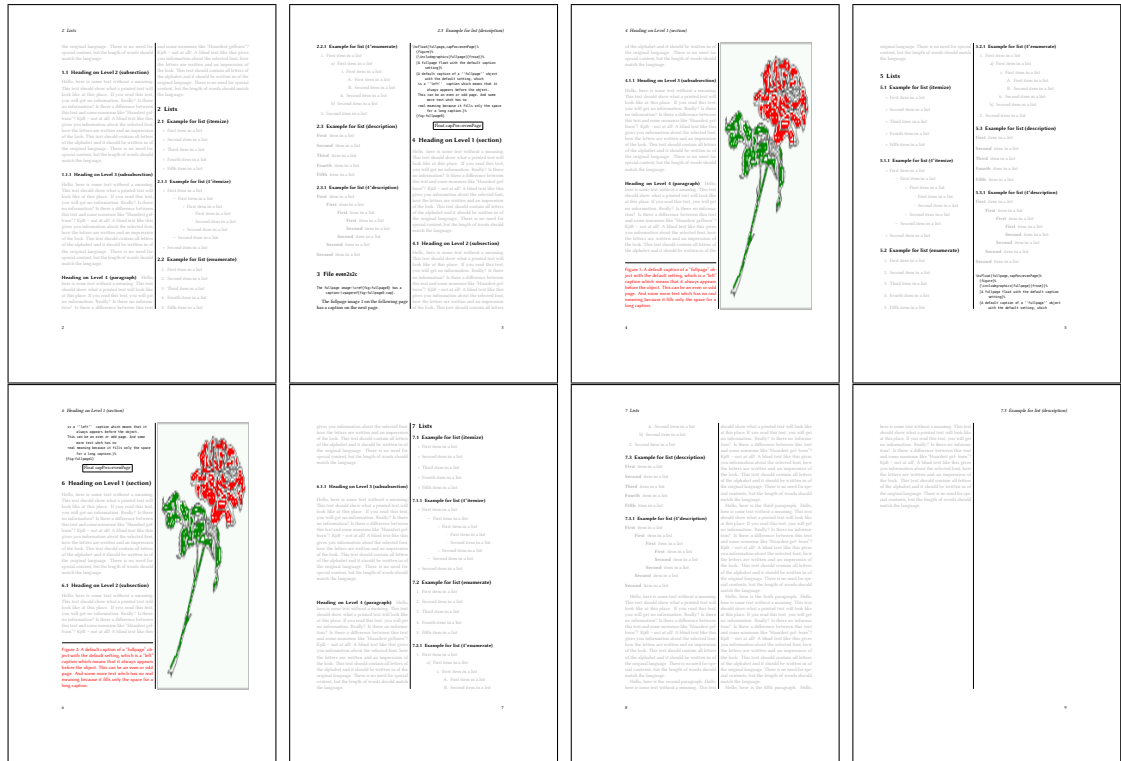


Figure 47: Output of even2s2c (pages 2–9)

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.

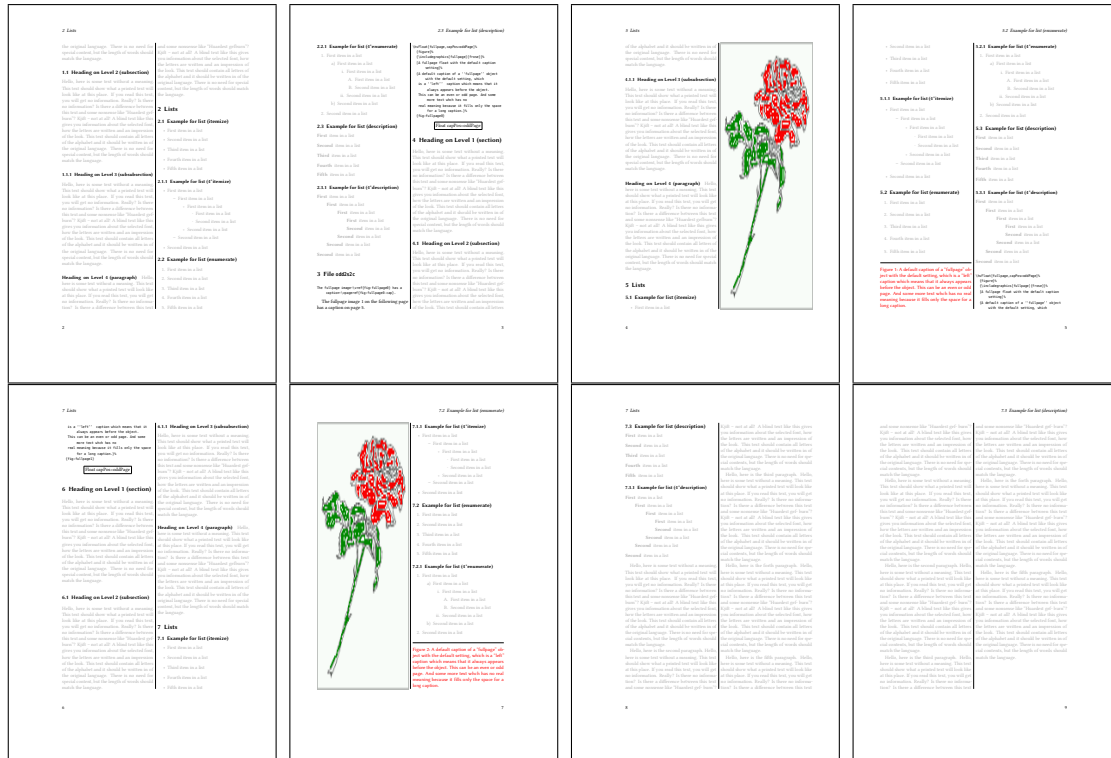


Figure 48: Output of odd2s2c (pages 2–9)

19 Full page objects in twocolumn mode

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}
```

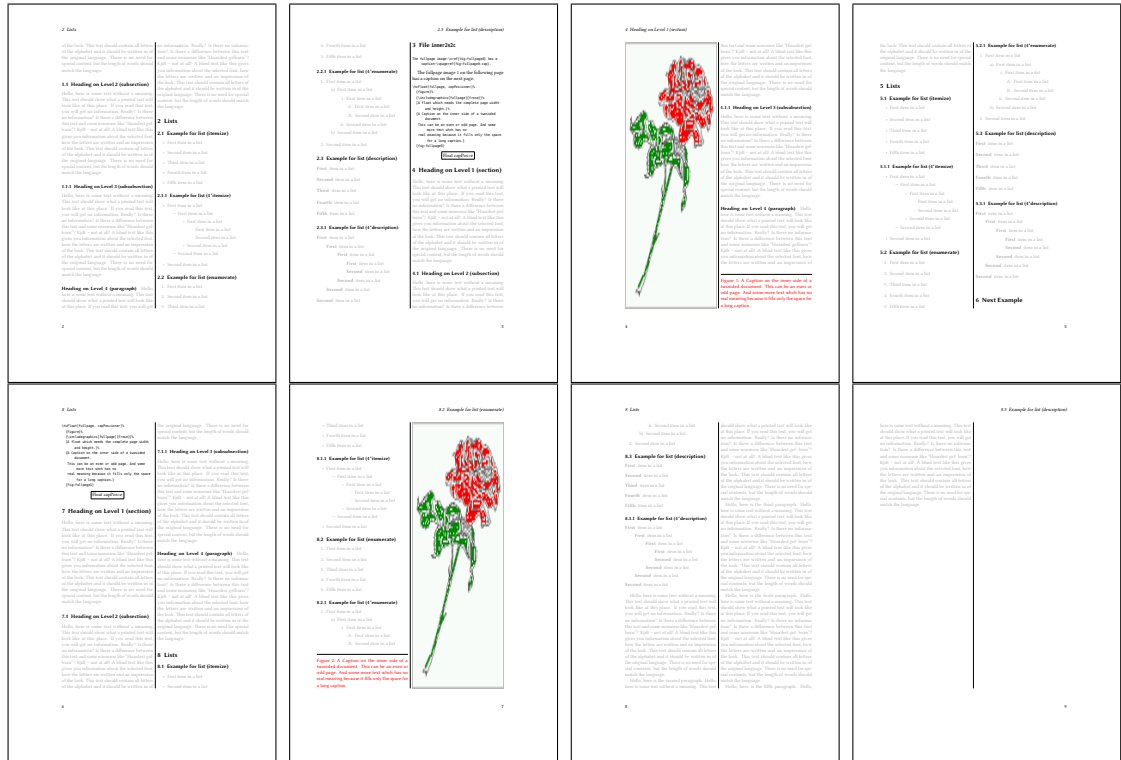


Figure 49: Output of inner2s2c (pages 2–9)

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 \hvFloat[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}

```

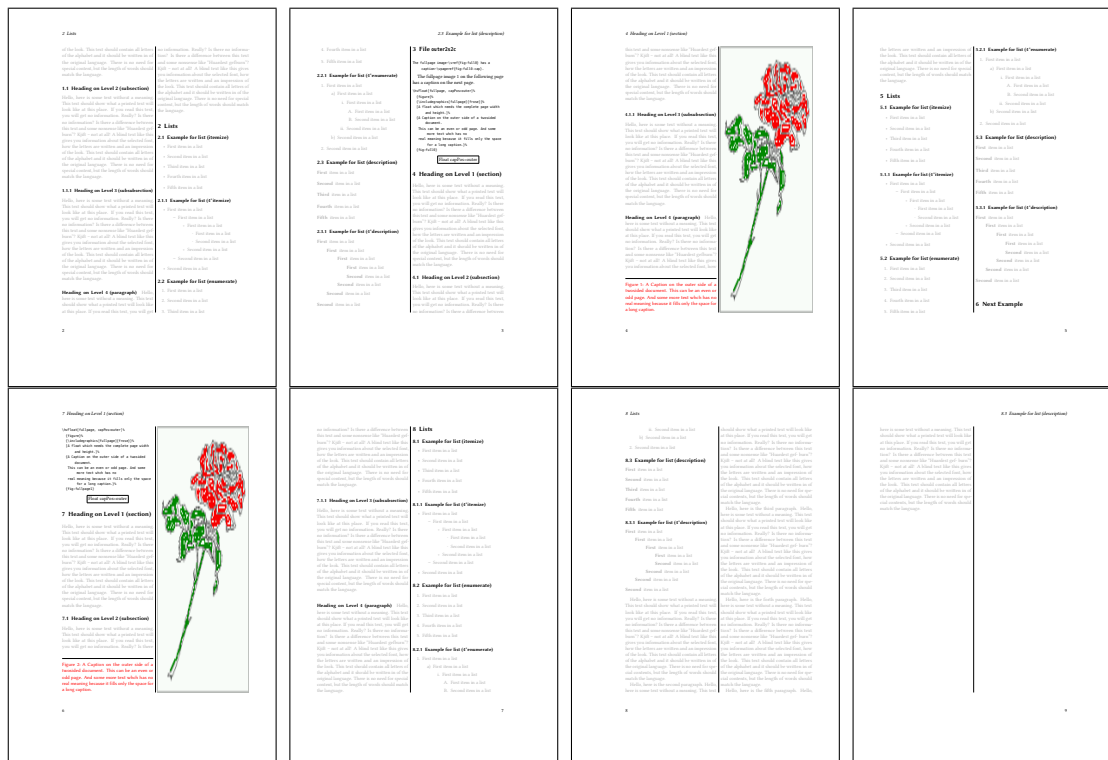


Figure 50: Output of outer2s2c (pages 2–9)

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}
```

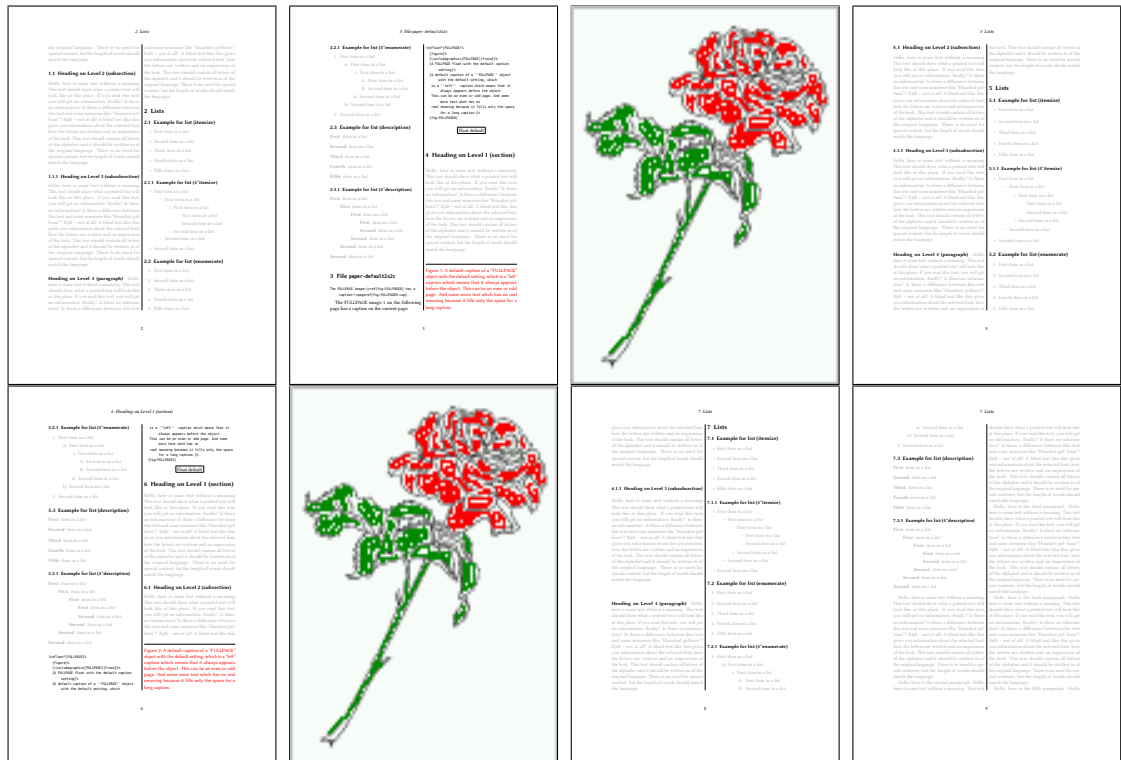


Figure 51: Output of paper-default2s2c (pages 2–9)

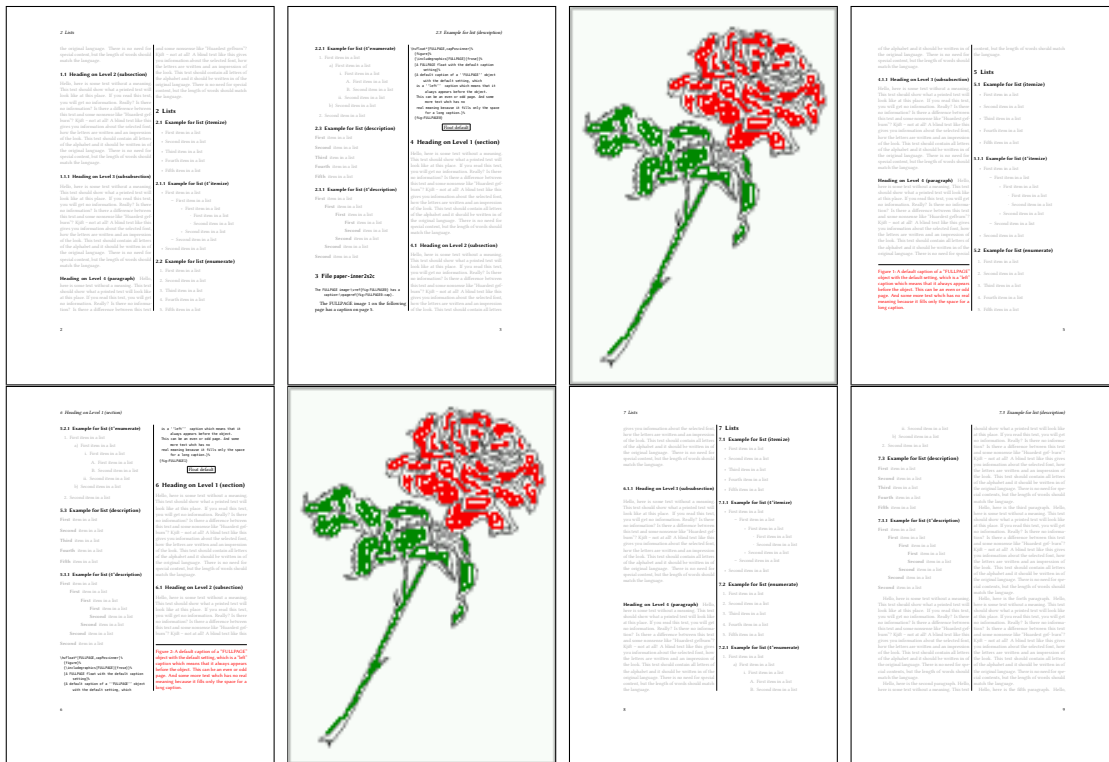


Figure 52: Output of paper-inner2s2c (pages 2-9)

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}

```

20 Subfloat page

The page with the objects has no additional informations it holds only the figures and and/or tabulars. If you want it like subfigures or subtabulars then go to section 18 on page 39. The setting `\captionsetup{singlelinecheck=false}` is needed if you want the captions always left aligned.

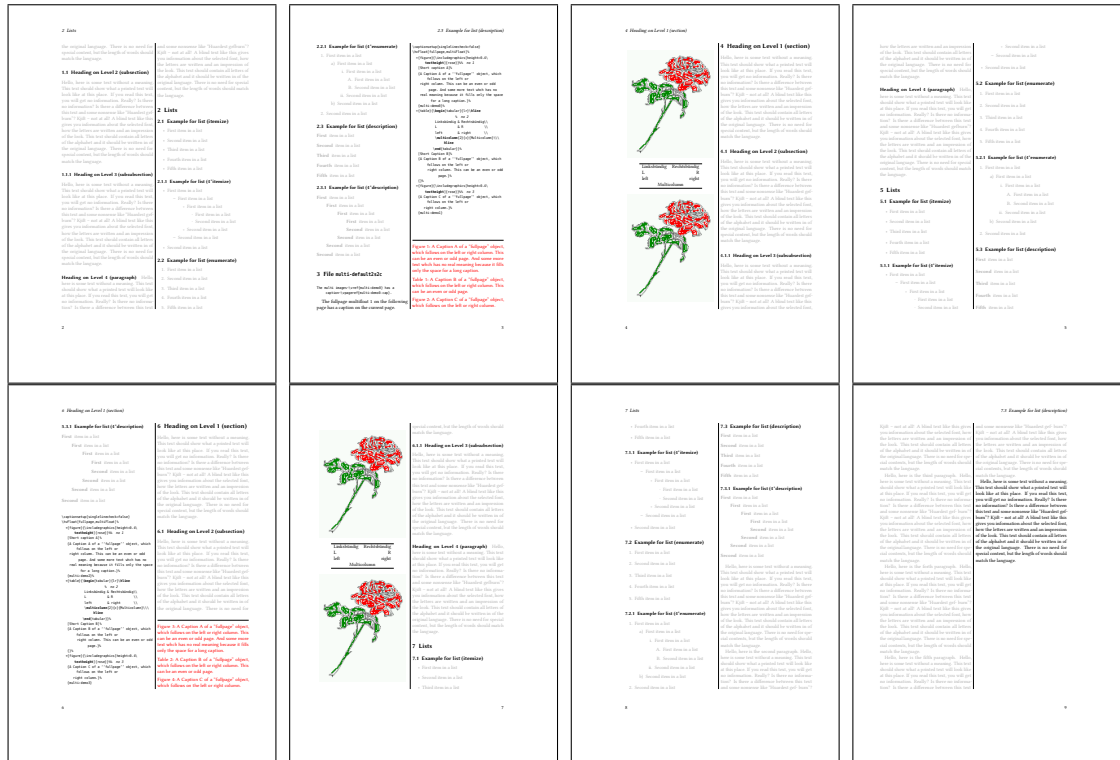


Figure 53: Output of multi-default2s2c (pages 2-9)

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 \hvfFloat[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}

```

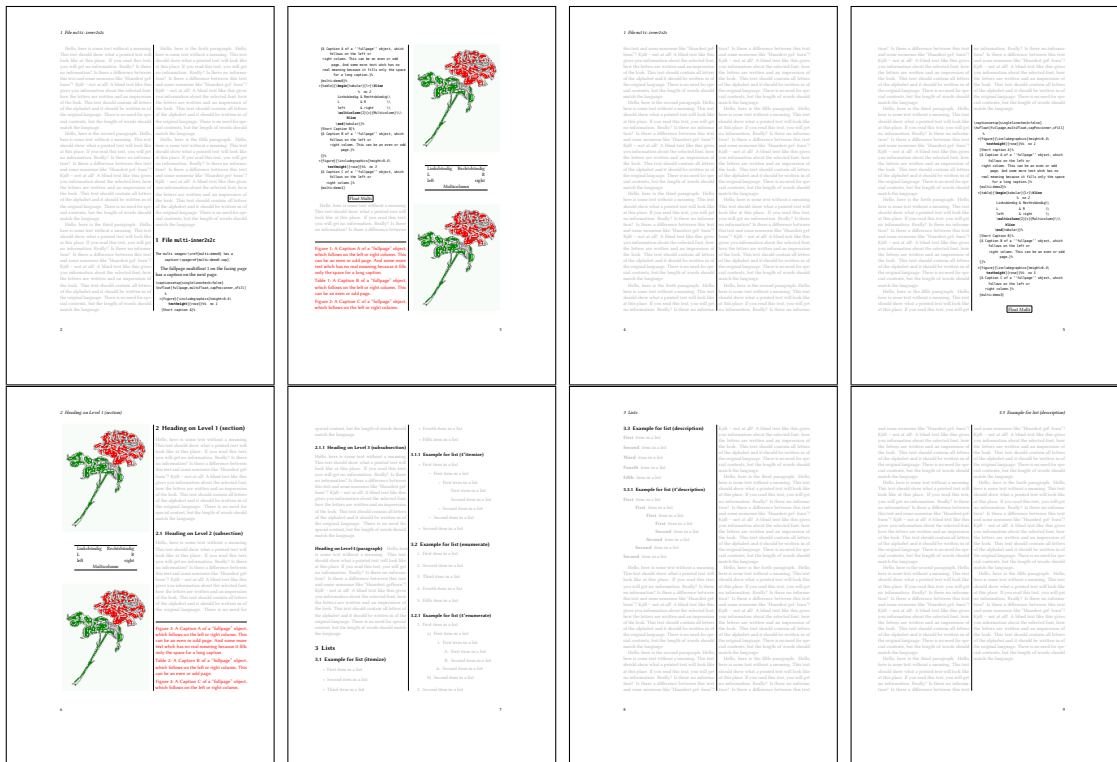


Figure 54: Output of multi-inner2s2c (pages 2-9)

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).

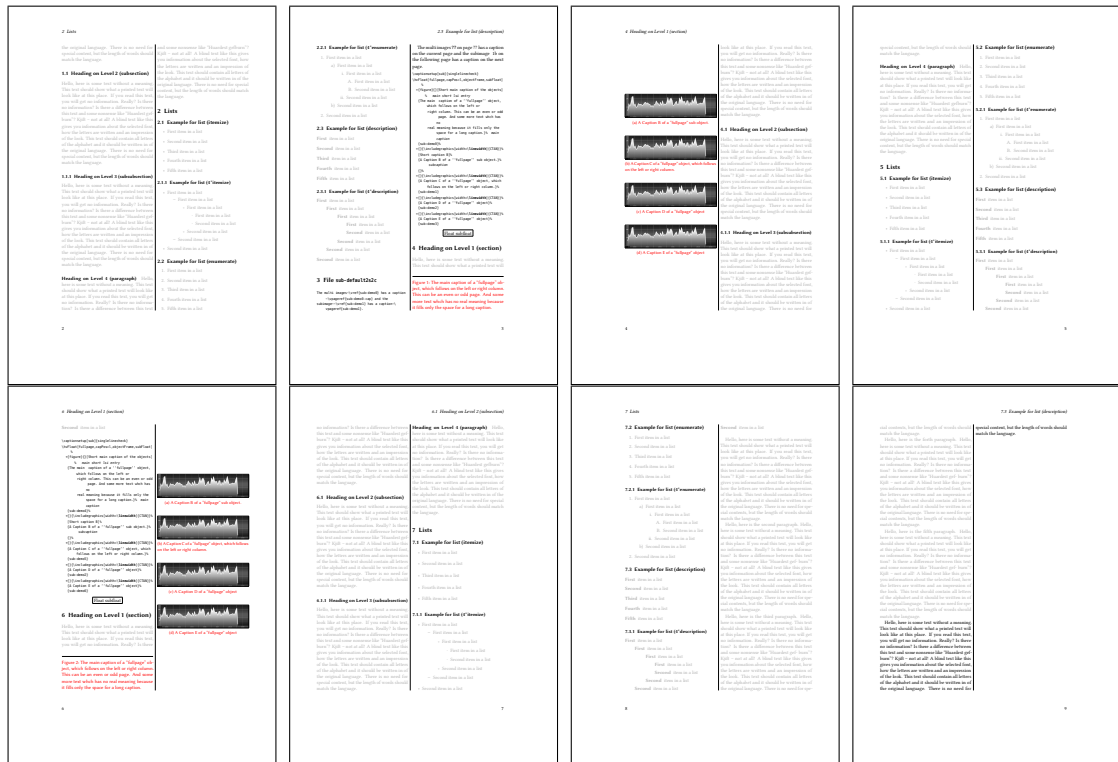


Figure 55: Output of sub-default2s2c (pages 2-9)

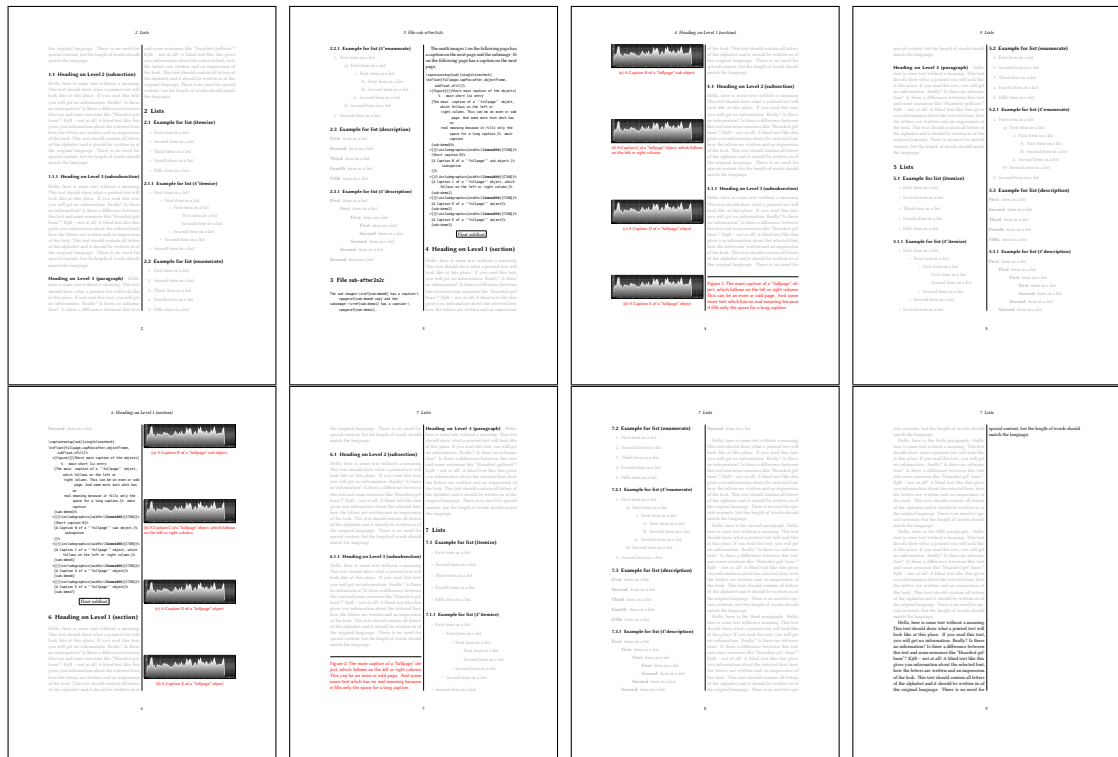


Figure 56: Output of sub-after2s2c (pages 2-9)

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 $2\backslash\text{paperwidth}-4\backslash\text{margin}$. 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 $2\backslash\text{paperwidth}$. 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 $2\backslash\text{paperwidth}$. 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[angle=90,width=2\paperwidth]{images/r+j}}%  
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}
```

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.

This is the second 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.

Fig. 57





Figure 57: 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

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.

After this fourth paragraph, we start a new paragraph sequence. 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.

This is the second 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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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=right, binCorr=5mm]%
2 {figure}%
3 {\includegraphics[angle=90, width=2\paperwidth]{images/r+j}}%
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. 58

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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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1 \hvFloat[doubleFULLPAGE,capPos=right]%
2 {figure}%
3 {\includegraphics[height=\paperheight]{images/rheinsberg}}%
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}

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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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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 follwoing example 60 the caption is on page 70, the left image part on page 68 and the right part on page 69. In the follwoing example 61 the caption is on page 71, the left image part on page 72 and the right part on page 73. All three labels points to the same figure or table number:

```
\ref{foo} | \ref{foo-cap} | \ref{foo-2} → 60 | 60 | 60
\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}}%
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}
```

Fig. 60

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Figure 60: 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}}%
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}

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Fig. 61

Figure 61: 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.

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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}

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Fig. 62





Figure 62: 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[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@sh}

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Fig. 63



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Figure 63: 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:doublePage0}

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Fig. 64

This is the second 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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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

words should match the language.

After this fourth paragraph, we start a new paragraph sequence. 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[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:doublePage0sH2}

```

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This is the second 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

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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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 & 1 & 3 & 1 & 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 & 1 & 0 & 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 & 0 & 1 & 1 & 0 & 3 & 2 & 1 & 2 & 1 & 3 & 5 & 3 & 4 \\ \addlinespace[3pt]
15 Zeile 9 & 0 & 0 & 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 & 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 & 1 \\ \addlinespace[3pt]
18 Zeile12 & 2 & 0 & 2 & 4 & 1 & 0 & 4 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 3 \\ \addlinespace[3pt]
19 Lärm & 2 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 2 & 0 & 0 & 2 & 2 & 2 \\ \addlinespace[3pt]
20 Zeile13 & 0 & 1 & 0 & 0 & 0 & 1 & 0 & 3 & 0 & 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 & 0 & 0 & 3 & 3 & 2 & 1 & 1 & 0 \\ \addlinespace[3pt]
22 Zeile15 & 0 & 0 & 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 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 5 & 0 & 1 \\ \addlinespace[3pt]
24 Artikel gesamt & 2 & 6 & 13 & 8 & 4 & 3 & 5 & 4 & 0 & 6 & 3 & 5 & 23 & 10 & 8 & 15 & 13 & 1 & 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}

```

Tab. 9

After this fourth paragraph, we start a new paragraph sequence. 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

	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	
Zeile 2	1	1	3	1	0	0	0	0	0	0	2	
Zeile 3	2	1	2	1	0	0	0	0	0	0	0	
Zeile 4	1	0	5	1	2	0	0	0	0	2	1	
Zeile 6	2	1	1	0	0	0	0	0	0	1	2	
Zeile 5	0	0	4	2	1	2	2	1	0	0	0	
Zeile 8	0	1	1	0	0	0	1	1	0	3	2	
Zeile 9	0	0	0	0	0	1	2	1	0	0	0	
Zeile10	0	1	3	0	1	0	1	0	0	1	1	
Zeile11	0	2	2	1	1	0	1	0	0	0	0	
Zeile12	2	0	2	4	1	0	4	0	0	0	0	
Lärm	2	3	0	0	0	0	0	0	0	0	1	
Zeile13	0	1	0	0	1	0	3	0	0	0	0	
Zeile14	0	1	0	0	0	0	0	0	0	0	0	
Zeile15	0	0	0	0	0	0	0	0	0	1	0	
Zeile16	0	0	0	0	0	1	0	0	0	0	0	
Artikel gesamt	2	6	13	8	4	3	5	4	0	6	3	

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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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

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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 67 is on page 94, but the image itself is on page 95. With package `varioref` it is:

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 floatinmg 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 67 on page 95, which uses a correct page number of the floating object and not the caption pagenummer which is on the next page. The figure 67 is on page 95 and the caption on page 94

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 66: 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 `hvfloa-fps`. It allows optional package options to set the global placement:

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

This is the second 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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Figure 67: 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



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.

This is the second 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.

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.

After this fourth paragraph, we start a new paragraph sequence. 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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After this fourth paragraph, we start a new paragraph sequence. 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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25 The Package Source

```

1  %% $Id: hvfloat.sty 119 2021-06-20 13:28:09Z herbert $
2  %%
3  %%
4  %% IMPORTANT NOTICE:
5  %%
6  %% This is file 'hvfloat.sty',
7  %%
8  %% Herbert Voss <hvoss@tug.org>
9  %%
10 %% This program can be redistributed and/or modified under the terms
11 %% of the LaTeX Project Public License Distributed from CTAN archives
12 %% in directory macros/latex/base/lppl.txt.
13 %%
14 %% DESCRIPTION:
15 %% 'hvfloat' offers rotating of captions and objects for floats
16 %%
17 \NeedsTeXFormat{LaTeX2e}
18 \def\fileversion{2.31}
19 \def\filedate{2021/06/26}
20 %\message{'hvfloat' v\fileversion, \filedate\space (Herbert Voss)}
21 \ProvidesPackage{hvfloat}[\filedate\space v\fileversion\space special floating objects (hv)]
22 \let\hvFloatFileVersion\fileversion
23 %
24 \newif\ifhv@fbox \hv@fboxfalse
25 \newif\ifhv@hyperref \hv@hyperreftrue
26 \newif\ifhv@nostfloats \hv@nostfloatsfalse
27 \newif\ifhv@tugboat \hv@tugboatfalse
28
29 \DeclareOption{fbox}{\hv@fboxtrue\setlength{\fboxsep}{1pt}}
30 \DeclareOption{hyperref}{\hv@hyperreftrue}
31 \DeclareOption{nostfloats}{\hv@nostfloatstrue}
32 \DeclareOption{no-stfloats}{\hv@nostfloatstrue}
33
34 \ProcessOptions
35
36
37 \PassOptionsToPackage{hypcap}{caption}
38 \RequirePackage{caption}
39 \RequirePackage{varwidth}
40 \DeclareCaptionBox{varwidth}{\varwidth[b]{#1}#2\endvarwidth}
41
42 \PassOptionsToPackage{hypcap}{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 \ifhv@nostfloats\else
59   \RequirePackage{stfloats}% for bottom floats in a twocolumn mode
60 \fi
61 %
62
63
64 \providecommand*\LenToUnit[1]{\strip@pt\dimexpr#1*\p@/\unitlength}

```

```

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

```



```

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

```

```

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

```

```

260 \else
261   \hv@tugboattrue % special page handling
262   \hv@typeout{>>> we are using a TUGboat class}%
263 \fi
264
265 \newcommand\reset@special@float{%
266   \hv@set{subFloat=false,%fullpage=false,
267     multiFloat=false,%FULLPAGE=false
268   }}
269
270 \def\hv@vskip{\vspace{\hvMultiFloatSkip}}
271
272 %
273 \newlength\hvAboveCaptionSkip
274 \newlength\hvBelowCaptionSkip
275 \newcount\hv@capPos
276
277 \newlength\fbboxlinewidth
278 \AtBeginDocument{%
279   \setlength\fbboxlinewidth{\dimexpr\linewidth-2\fbboxrule-2\fbboxsep}%
280 }
281 \setlength\belowcaptionskip{\abovecaptionskip}% it is in latex.ltx = 0pt
282 \newcommand\saveCaptionSkip{%
283   \setlength{\hvAboveCaptionSkip}{\abovecaptionskip}%
284   \setlength{\hvBelowCaptionSkip}{\belowcaptionskip}%
285   \setlength{\abovecaptionskip}{0pt}%
286   \setlength{\belowcaptionskip}{0pt}%
287 }
288 \newcommand\restoreCaptionSkip{%
289   \setlength\abovecaptionskip{\hvAboveCaptionSkip}%
290   \setlength\belowcaptionskip{\hvBelowCaptionSkip}%
291 }
292
293 \providecommand\figcaption[2][{}]{%
294 \providecommand\tabcaption[2][{}]{%
295 \providecommand\tabcaptionbelow[2][{}]{%
296 %
297 \renewcommand\figcaption[2][{}]{%
298   \begingroup
299   \def\@captype{figure}%
300   \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
301   \ifx\relax#1\relax \caption{#2}\else\caption[#1]{#2}\fi
302   \endgroup}
303 \renewcommand\tabcaption[2][{}]{%
304   \begingroup
305   \def\@captype{table}%
306   \expandafter\captionsetup\expandafter{\hv@caption@format,position=top}%
307   \ifx\relax#1\relax \caption{#2}\else\caption[#1]{#2}\fi
308   \endgroup}
309 \renewcommand\tabcaptionbelow[2][{}]{%
310   \begingroup
311   \def\@captype{table}%
312   \expandafter\captionsetup\expandafter{\hv@caption@format,position=below}%
313   \ifx\relax#1\relax \caption{#2}\else\caption[#1]{#2}\fi
314   \endgroup}
315 %
316 \newlength\hv@maxImageWidth
317 \AtBeginDocument{\hv@maxImageWidth=\columnwidth}
318
319 \define@key{Gin}{columnWidth}[true]{%
320   \def\Gin@ewidth{\columnwidth}%
321   % \def\Gin@eheight{1ex}%
322   \Gin@boolkey{true}{iso}%
323 }
324 \define@key{Gin}{fullpage}[true]{%
325   \def\Gin@ewidth{\columnwidth}%
326   \def\Gin@eheight{\textheight}%

```

```

327 \Gin@boolkey{false}{iso}%
328 }
329 \define@key{Gin}{FullPage}[true]{%
330 \def\Gin@ewidth{\textwidth}%
331 \def\Gin@eheight{\textheight}%
332 \Gin@boolkey{false}{iso}%
333 }
334 \define@key{Gin}{FULLPAGE}[true]{%
335 \def\Gin@ewidth{\paperwidth}%
336 \def\Gin@eheight{\paperheight}%
337 \Gin@boolkey{false}{iso}%
338 }
339 \define@key{Gin}{doubleFULLPAGE}[true]{%
340 \def\Gin@ewidth{2\paperwidth}%
341 \def\Gin@eheight{\paperheight}%
342 \Gin@boolkey{false}{iso}%
343 }
344 \define@key{Gin}{doubleFULLPAGEbindCorr}[true]{%
345 \def\Gin@ewidth{\the\dimexpr2\paperwidth-2\hvSet@bindCorrection\relax}%
346 \def\Gin@eheight{\paperheight}%
347 \Gin@boolkey{false}{iso}%
348 }
349
350 \newcommand\IncludeGraphics[2][{}]{%
351 \vspace*{\the\dimexpr-1in-\voffset+\topskip-\headheight-0.5\baselineskip}%
352 \leavevmode\checkoddpage
353 \ifoddpage
354 \hspace*{\dimexpr-\oddsidemargin-\parindent-1in}%
355 \else
356 \hspace*{\dimexpr-\evensidemargin-\parindent-1in}%
357 \fi\noindent
358 \includegraphics[#1,width=\paperwidth,height=\paperheight,keepaspectratio=false]{#2}%
359 }
360
361 \newcommand\put@CaptionBox[1][0]{%
362 \ifcase#1
363 \ifhv@fbox
364 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
365 \else
366 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
367 \fi
368 \or
369 \ifhv@fbox
370 \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
371 \else
372 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
373 \fi
374 \or
375 \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}\else\usebox{\hvCaptionBox}\fi
376 \fi
377 }
378
379 \newcommand\put@ObjectBox[1][0]{%
380 \ifcase#1
381 \ifhv@fbox
382 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
383 \else
384 \parbox{\wd\hvObjectBox}{\ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi
385 }%
386 \fi
387 \or
388 \ifhv@fbox
389 \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
390 \else
391 \raisebox{-\height}{\ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi}%
392 \fi
393 \or

```

```

393 \ifhv@fbox
394 \fbox{\usebox{\hvObjectBox}}%
395 \else
396 % rotated object with a depth need to raise up the \depth
397 \ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\raisebox{\depth}{\usebox{\hvObjectBox}}\fi%
398 \fi
399 \fi
400 }
401
402
403 \def\drawSepLine{%
404 \par\noindent
405 \if@twocolumn
406 \ifhv@twoColumnCaption
407 \rule{\linewidth}{0.4pt}\[-2.5ex]
408 \else
409 \rule{\columnwidth}{0.4pt}\[-2.5ex]
410 \fi
411 \else
412 \rule{\linewidth}{0.4pt}\[-2.5ex]
413 \fi
414 \vspace{\hv@sepLineskip}%
415 }
416
417 \newcounter{hv@tempCNTfigA}%
418 \newcounter{hv@tempCNTfigB}%
419 \newcounter{hv@tempCNTtabA}%
420 \newcounter{hv@tempCNTtabB}%
421 \newcounter{hv@pfigure}%
422 \newcounter{hv@ptable}%
423 \newcounter{subhv@pfigure}%
424 \newcounter{subhv@ptable}%
425
426 \newif\ifhv@star
427 \newif\if@hvsubstar
428 \setDefaults
429
430
431 %\newcommand*{\hvFloat}[5][+]{%
432 % [#1]: keyvalues
433 % #2: type figure | table | ...
434 % #3: float contents
435 % [#4]: short caption
436 % #5: caption
437 % #6: label
438 %
439
440 \def\hvFloat{\@ifnextchar*% Main macro
441 {\global\hv@startrue\hv@maxImageWidth=\textwidth\hvFloat@i}%
442 {\global\hv@starfalse\hv@maxImageWidth=\columnwidth\hvFloat@i*}%
443 }
444
445 \def\hvFloat@i*\@ifnextchar[{\do@hvFloat}{\do@hvFloat[]}}
446 \def\do@hvFloat[#1]{%
447 \begingroup
448 \setlength\hvWideWidth{\dimexpr\columnwidth+\marginparwidth+\marginparsep}%
449 % \setlength\hvWideWidth{\dimexpr\textwidth+\marginparwidth+\marginparsep}%
450 % \setlength\hvWideWidth{\dimexpr\linewidth+\marginparwidth}%
451 \hv@maxImageWidth=\textwidth
452 \reset@special@float
453 \global\setcounter{hv@pfigure}{\value{figure}}%
454 \global\setcounter{hv@ptable}{\value{table}}%
455 \setcounter{hv@tempCNTfigA}{\value{figure}}%
456 \setcounter{hv@tempCNTfigB}{\value{figure}}%
457 \setcounter{hv@tempCNTtabA}{\value{table}}%
458 \setcounter{hv@tempCNTtabB}{\value{table}}%
459 \gdef\hv@save@setting[#1]% for later use after \endgroup inside figure/table env

```



```

460 \ifx\relax#1\relax\else\setkeys{hvSet}{#1}\fi
461 \ifx\hv@caption@format\@empty\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
462 \ifx\hv@subcaption@format\@empty\else
463   \expandafter
464   \captionsetup\expandafter[\expandafter s\expandafter u\expandafter b\expandafter]\expandafter
465   {\hv@subcaption@format}%
466 \fi
467 \gdef\hv@floatType{figure}% presetting
468 \@ifnextchar+{\do@multiFloat}{\hvFloat@ii{#1}}%
469 }
470
471 \ExplSyntaxOn
472
473 \def\do@multiFloat+#1#2{%
474   \clist_set:Nn\l_clist_Type{#1}%
475   \clist_set:Nn\l_clist_Object{#2}%
476   \@ifnextchar[\do@multiFloat@i{\do@multiFloat@i[]}%
477 }
478 \def\do@multiFloat@i[#1]#2#3{% lof-caption, caption, label
479   \ifx\relax#1\relax
480     \clist_set:Nn\l_clist_LofCaption{#1}%
481   \else
482     \clist_set:Nn\l_clist_LofCaption{#1}%
483   \fi
484   \clist_set:Nn\l_clist_Caption{#2}%
485   \ifx\relax#3\relax
486     \clist_set:Nn\l_clist_Label{#3}%
487   \else
488     \clist_set:Nn\l_clist_Label{#3}%
489   \fi
490   \@ifnextchar+{\do@multiFloat@ii}{}%
491 }
492 \def\do@multiFloat@ii+#1#2{%
493   \clist_put_right:Nn\l_clist_Type{#1}%
494   \clist_put_right:Nn\l_clist_Object{#2}%
495   \@ifnextchar[\do@multiFloat@iii{\do@multiFloat@iii[]}%
496 }
497
498 \def\do@multiFloat@iii[#1]#2#3{% lof-caption, caption, label
499   \ifx\relax#1\relax
500     \clist_put_right:Nn\l_clist_LofCaption{#1}%
501   \else
502     \clist_put_right:Nn\l_clist_LofCaption{#1}%
503   \fi
504   \clist_put_right:Nn\l_clist_Caption{#2}%
505   \ifx\relax#3\relax
506     \clist_put_right:Nn\l_clist_Label{#3}%
507   \else
508     \clist_put_right:Nn\l_clist_Label{#3}%
509   \fi
510   \@ifnextchar+{\do@multiFloat@ii}%
511   {\def\hvSet@CapWidth{n}%
512     \do@@@hvFloat}%
513 }
514 \ExplSyntaxOff
515
516
517 \newcount\hv@canta
518 \newcount\hv@canta
519
520 \def\hvFloat@ii[#1]#2#3{% #1: key/value, #2: floattype, #3: object
521   \hv@maxImageWidth=\textwidth
522   % \ifx\relax#1\relax\else\setkeys{hvSet}{#1}\fi
523   \gdef\hv@floatType{#2}%
524   \ifx\relax#2\relax
525     \setkeys{hvSet}{nonFloat,onlyText}%
526   \xdef\hv@save@setting{\hv@save@setting,nonFloat,onlyText}% for later use after \endgroup inside

```

```

figure/table env
527 \fi
528 % \xdef\hv@floatListOfExt{\@nameuse{ext@\hv@floatType}}%
529 \gdef\hv@floatObject{#3}%
530 \@ifnextchar[{\do@hv@float}{\do@hv@float[]}%
531 }
532
533 \def\do@hv@float[#1]#2#3{%      #1: listof caption, #2. long caption #3: label
534 \gdef\hv@shortCap{#1}%
535 \gdef\hv@longCap{#2}%
536 \gdef\hv@label{#3}%
537 \ifhv@capbeside\def\@temp{1}\else\def\@temp{0}\fi
538 \ifhv@sameHeight\global\hv@global@sameHeighttrue\else\global\hv@global@sameHeightfalse\fi
539 \global\setlength\hv@set@bindCorrection{\hv@set@bindCorr}% for doublepage objects
540 \global\setlength\hv@floatCapSep{\hv@set@floatCapSep}%
541 %
542 \ifhv@fullpage
543 \def\hv@set@CapWidth{n}% relative value
544 \do@hv@float% fullpage with caption on other page
545 \else
546 \ifhv@FULLPAGE
547 \def\hv@set@CapWidth{n}% relative value
548 \do@hv@float% fullpage with caption on other page
549 \else
550 \ifhv@doubleFULLPAGE
551 \setlength\hv@CapWidth{\texttheight}%
552 \expandafter\do@hv@float@doubleFULLPAGE\@temp% fullpage with caption rotated or under on an odd
page
553 \else
554 \ifhv@doublePAGE
555 \expandafter\do@hv@float@doublePAGE\@temp% fullpage with caption rotated or under on an odd
page
556 \else
557 \ifhv@doublePage
558 \expandafter\do@hv@float@doublePage\@temp% fullpage with caption rotated or under on an odd
page
559 \else
560 \do@hv@float
561 \fi
562 \fi
563 \fi
564 \fi
565 \fi
566 }
567 %
568 \def\do@hv@float{% no special float page, caption and image on top of each other or side by side
569 \def\@tempa{90}%
570 \ifx\hv@set@rotAngle\@tempa
571 \setlength\hv@MaxCapWidth{\texttheight}%
572 \else
573 \setlength\hv@MaxCapWidth{\hv@wideWidth}%
574 \fi
575 %
576 % First we save the object in \hv@objectBox
577 %
578 \ifnum\hv@set@objectAngle=0 % rotate the object?
579 \ifhv@useOBox
580 \let\hv@objectBox\hv@OBox
581 \else
582 \savebox\hv@objectBox{\hv@floatObject}%
583 \fi
584 \else
585 \savebox\hv@objectBox{%
586 \rotatebox{\hv@set@objectAngle}{%
587 \ifhv@useOBox\usebox{\hv@OBox}\else\hv@floatObject\fi
588 }%
589 }%

```

```

590 \fi
591 \setlength\hvObjectWidth{\wd\hvObjectBox}%
592 %
593 % Now we save the caption with its defined \hvCapWidth
594 %
595 \ifx\hvSet@capWidth\hv@Width% captionwidth=objectwidth
596 \setlength\hvCapWidth{\hvObjectWidth}%
597 \else
598 \ifx\hvSet@capWidth\hv@Height% captionwidth=objectheight
599 \setlength\hvCapWidth{\ht\hvObjectBox}%
600 \else
601 \ifx\hvSet@capWidth\hv@Natural% captionwidth=\linewidth-\objectwidth-separation
602 \ifhv@capbeside
603 \ifhv@wide
604 \setlength\hvCapWidth{\the\dimexpr\hvWideWidth-\hvObjectWidth-\hv@floatCapSep\relax}%
605 \else
606 \ifhv@star
607 \setlength\hvCapWidth{\the\dimexpr\textwidth-\hvObjectWidth-\hv@floatCapSep\relax}%
608 \else
609 \setlength\hvCapWidth{\the\dimexpr\linewidth-\hvObjectWidth-\hv@floatCapSep\relax}%
610 \fi
611 \fi
612 \else
613 \setlength\hvCapWidth{\columnwidth}%
614 \fi
615 \else
616 \ifhv@capbeside
617 \ifhv@wide
618 \setlength\hvCapWidth{\hvSet@capWidth\hvWideWidth}%
619 \setlength\@tempdima{\the\dimexpr\hvWideWidth-\hvObjectWidth-\hv@floatCapSep\relax}%
620 \else
621 \setlength\hvCapWidth{\hvSet@capWidth\columnwidth}%
622 \setlength\@tempdima{\the\dimexpr\columnwidth-\hvObjectWidth-\hv@floatCapSep\relax}%
623 \fi
624 \ifdim\hvCapWidth>\@tempdima
625 \setlength\hvCapWidth{\@tempdima}%
626 \fi
627 \else
628 \ifhv@wide
629 \setlength\hvCapWidth{\hvSet@capWidth\hvWideWidth}%
630 \else
631 \setlength\hvCapWidth{\hvSet@capWidth\columnwidth}%
632 \fi
633 \fi
634 \fi
635 \fi
636 \fi
637 \saveCaptionSkip% we put this space ourselves
638 \ifnum\hvSet@capAngle=0 % need rotation?
639 \savebox\hvCaptionBox{% NO rotation
640 \minipage[b]{\hvCapWidth}% minipage, to get hyphenation
641 \ifhv@nonFloat
642 \ifhv@onlyText
643 \hv@longCap
644 \else
645 \ifx\hv@floatType\hv@figure
646 \ifx\relax\hv@shortCap\relax
647 \figcaption{\hv@longCap\ifx\hv@label\empty\else\label{\hv@label}\fi}%
648 \else
649 \figcaption[\hv@shortCap]{\hv@longCap\ifx\hv@label\empty\else\label{\hv@label}\fi}%
650 \fi
651 \else
652 \ifx\relax\hv@shortCap\relax
653 \tabcaption{\hv@longCap\ifx\hv@label\empty\else\label{\hv@label}\fi}%
654 \else
655 \tabcaption[\hv@shortCap]{\hv@longCap\ifx\hv@label\empty\else\label{\hv@label}\fi}%
656 \fi

```

```

657 \fi
658 \fi
659 \else
660 \ifhv@onlyText
661 \hv@longCap
662 \else
663 \let\@capttype\hv@floatType
664 \ifx\hv@shortCap\@empty\caption{\hv@longCap}\else\caption[\hv@shortCap]{\hv@longCap}\fi
665 \ifx\hv@label\@empty\else\label{\hv@label}\fi
666 \fi
667 \fi
668 \endminipage
669 }%
670 \else
671 \savebox\hvCaptionBox{% Rotation
672 \rotatebox{\hvSet@capAngle}{%
673 \minipage[b]{\hvCapWidth}% minipage, to get hyphenation
674 % \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
675 \ifhv@nonFloat
676 \ifhv@onlyText
677 \hv@longCap
678 \else
679 \ifx\hv@floatType\hv@figure
680 \ifx\hv@shortCap\@empty \figcaption{\hv@longCap}\else\figcaption[\hv@shortCap]{\hv@longCap}\fi
681 \else
682 \ifx\hv@shortCap\@empty \tabcaption{\hv@longCap}\else\tabcaption[\hv@shortCap]{\hv@longCap}\fi
683 \fi
684 \fi
685 \else
686 \ifhv@onlyText
687 \hv@longCap
688 \else
689 \let\@capttype\hv@floatType
690 \ifx\hv@shortCap\@empty \caption{\hv@longCap}\else\caption[\hv@shortCap]{\hv@longCap}%
691 \fi
692 \fi
693 \fi
694 \ifx\hv@label\@empty\else\label{\hv@label}\fi
695 \endminipage
696 }% rotatebox
697 }% \sbox
698 \fi
699 %
700 % now we have the object and the caption with the right
701 % rotated angles saved in different boxes
702 %%
703 \restoreCaptionSkip% save old values
704 % \def\fps@figure{\hvSet@floatPos}%
705 \ifx\hvSet@floatPos\@empty % use type default
706 \else
707 \namedef{\fps@\hv@floatType}{\hvSet@floatPos}%
708 \fi
709 \ifhv@nonFloat
710 \noindent
711 \beginingroup% Start the nonfloat part
712 \else
713 \ifhv@star
714 \ifx\hvSet@floatPos\hv@floatBottom
715 \nameuse{\hv@floatType*}[b]% Start the floating environment *****
716 \else
717 \nameuse{\hv@floatType*}%
718 \fi
719 \else
720 \begin{\hv@floatType}% Start the floating environment
721 \fi
722 \fi
723 \checkoddpage

```

```

724 \ifx\hvSet@objectPos\hv@Right\raggedleft\fi
725 \ifx\hvSet@objectPos\hv@Center
726 \ifhv@nonFloat\hspace*{\fill}\else\centering\fi
727 \fi
728 \ifx\hvSet@objectPos\hv@Outer
729 \ifoddpage\raggedleft\fi
730 \fi
731 \ifx\hvSet@objectPos\hv@Inner
732 \ifoddpage\else\raggedleft\fi
733 \fi
734 %
735 % to rotate object and caption together, we save all in another box
736 % the caption comes first, if its on the left or the top
737 % 0 caption left, inner and odd page, oneside inner
738 % 1 caption top
739 % 2 caption right, inner and even page, oneside outer
740 % 3 caption bottom
741 %
742 \ifx\hvSet@capPos\hv@Left
743 \hv@@capPos=0
744 \else
745 \ifx\hvSet@capPos\hv@Top
746 \hv@@capPos=1
747 \else
748 \ifx\hvSet@capPos\hv@Right
749 \hv@@capPos=2
750 \else
751 \ifx\hvSet@capPos\hv@Bottom
752 \hv@@capPos=3
753 \else
754 \ifx\hvSet@capPos\hv@Inner
755 \ifoddpageoroneside\hv@@capPos=0\else\hv@@capPos=2\fi
756 \else
757 \ifx\hvSet@capPos\hv@Outer
758 \ifoddpageoroneside\hv@@capPos=2\else\hv@@capPos=0\fi
759 \else
760 \ifx\hvSet@capPos\hv@Before
761 \hv@@capPos=0% same as capPos=right
762 \else
763 \ifx\hvSet@capPos\hv@After
764 \hv@@capPos=2% same as capPos=right
765 \fi
766 \fi
767 \fi
768 \fi
769 \fi
770 \fi
771 \fi
772 \fi
773 %%%
774 \savebox{\@tempboxa}{% ***** @tempbox start
775 \expandafter\ifcase\the\hv@@capPos% 0 is LEFT START \ifcase
776 \ifx\hvSet@capVPos\hv@Center
777 \put@CaptionBox
778 \hspace{\hv@floatCapSep}% capfloatsep
779 \put@ObjectBox
780 \else
781 \ifx\hvSet@capVPos\hv@Top% caption and object at top aligned
782 \put@CaptionBox[1]%
783 \hspace{\hv@floatCapSep}% capfloatsep
784 \put@ObjectBox[1]%
785 \else% caption on bottom
786 \put@CaptionBox[2]%
787 \hspace{\hv@floatCapSep}% capfloatsep
788 \put@ObjectBox[2]%
789 \fi
790 \fi% end caption left

```



```

791 \or%1 is top
792 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
793 \begin{minipage}{\wd\hvCaptionBox}%
794 \else
795 \begin{minipage}{\wd\hvObjectBox}%
796 \fi
797 \centering
798 \ifhv@fbox
799 \fbox{\usebox{\hvCaptionBox}}\[\[0.5\hvBelowCaptionSkip]%
800 \fbox{\usebox{\hvObjectBox}}%
801 \else
802 \usebox{\hvCaptionBox}\[\[0.5\hvBelowCaptionSkip]%
803 \usebox{\hvObjectBox}%
804 \fi
805 \end{minipage}%
806 \or%2 is right
807 \ifx\hvSet@capVPos\hv@Center
808 \put@ObjectBox
809 \hspace{\hv@floatCapSep}%
810 \put@CaptionBox
811 \else
812 \ifx\hvSet@capVPos\hv@Top
813 \put@ObjectBox[1]%
814 \hspace{\hv@floatCapSep}% capfloatsep
815 \put@CaptionBox[1]%
816 \else
817 \put@ObjectBox[2]%
818 \hspace{\hv@floatCapSep}% capfloatsep
819 \put@CaptionBox[2]%
820 \fi
821 \fi
822 \or%3 bottom
823 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
824 \begin{minipage}{\wd\hvCaptionBox}%
825 \else
826 \begin{minipage}{\wd\hvObjectBox}%
827 \fi
828 \centering
829 \ifhv@fbox
830 \fbox{\usebox{\hvObjectBox}}\[\[0.5\hvAboveCaptionSkip]%
831 \fbox{\usebox{\hvCaptionBox}}%
832 \else
833 \ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi\[\[0.5\hvAboveCaptionSkip]%
834 \usebox{\hvCaptionBox}%
835 \fi
836 \end{minipage}%
837 \fi% \ifcase\the\hv@capPos
838 }% End savebox Object and caption %%%%%%%%%%% @tempboxa
839 %
840 % now we rotate the object and caption, if needed
841 %
842 \ifhv@wide
843 \ifoddpageoroneside
844 \if@twocolumn
845 \if@firstcolumn
846 \noindent
847 \hspace*{\dimexpr-\marginparwidth-\marginparsep}% oddpage first column
848 \fi
849 \fi
850 \else
851 \ifoddpage
852 \if@twocolumn
853 \if@firstcolumn
854 \noindent
855 \hspace*{\dimexpr-\marginparwidth-\marginparsep}% oddpage first column
856 \fi

```

```

857 \fi
858 \else% evenpage
859 \if@firstcolumn
860 \noindent
861 \hspace*{\dimexpr-\marginparwidth-\marginparsep}% <- for wide and left page
862 \fi
863 \fi
864 \fi
865 \fi
866 \ifx\hvSet@rotAngle\hv@Zero
867 \usebox{\@tempboxa}%
868 \else
869 \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}%
870 \fi
871 \ifhv@nonFloat
872 \ifx\hvSet@objectPos\hv@Center
873 % \ifhv@nonFloat
874 \hspace{\fill}%
875 % \fi
876 \fi
877 \endgroup% End the nonfloat part
878 \else
879 \ifhv@star
880 \@nameuse{end\hv@floatType}% End the floating environment
881 \else
882 \end{\hv@floatType}% End the floating environment
883 \fi
884 \fi
885 \endgroup% startet at main \hvFloat
886 }
887 %
888 \newenvironment{hvFloatEnv}[1][\textwidth]
889 {\minipage{#1}}
890 {\endminipage}
891 %
892
893 \ExplSyntaxOn
894 \let\clist@item@Nn\clist_item:Nn
895 \let\l@clist@Type\l_clist_Type
896 \let\l@clist@LofCaption\l_clist_LofCaption
897 \let\l@clist@Label\l_clist_Label
898 \let\clist@count@N\clist_count:N
899 \ExplSyntaxOff
900
901 \def\do@@@hvFloat{% special float page: caption <-> fullpage images
902 \ifx\hvSet@capPos\hv@After \global\hv@@capPos=1
903 \else
904 \ifx\hvSet@capPos\hv@Even \global\hv@@capPos=2
905 \else
906 \ifx\hvSet@capPos\hv@Odd \global\hv@@capPos=3
907 \else
908 \ifx\hvSet@capPos\hv@Inner \global\hv@@capPos=4
909 \else
910 \ifx\hvSet@capPos\hv@Outer \global\hv@@capPos=5
911 \else
912 \ifx\hvSet@capPos\hv@Right \global\hv@@capPos=6% only for twocolumn mode
913 \else
914 \ifx\hvSet@capPos\hv@Left \global\hv@@capPos=7% only for twocolumn mode
915 \else
916 \global\hv@@capPos=0
917 \fi
918 \fi
919 \fi
920 \fi
921 \fi
922 \fi
923 \fi

```

```

924 \checkoddpage
925 \set@caption@object{\hv@floatType}% set caption and object into a box
926 \ifcase\hv@capPos% caption before object 0-> _always_ left
927 \setBottomCaption\setPageObject
928 \or% caption after object 1-> _always_ right
929 \setPageObject\setBottomCaption
930 \or% caption on even page 2-> left page
931 \ifoddpage
932 \afterpage{\setBottomCaption\setPageObject}%
933 \else% we are on an even page
934 \setBottomCaption\setPageObject
935 \fi
936 \or% caption on odd page 3->right page
937 \if@twoside
938 \if@twocolumn
939 \ifoddpage
940 \if@firstcolumn% on right side
941 \setBottomCaption\setPageObject
942 \else
943 \afterpage{\setPageObject\setBottomCaption}% start next column
944 \fi
945 \else% left (even) page
946 \if@firstcolumn
947 \afterpage{\setPageObject\setBottomCaption}% start next column
948 \else
949 \setPageObject\setBottomCaption
950 \fi
951 \fi
952 \else% onecolumn
953 \ifoddpage
954 \setPageObject\setBottomCaption
955 \else% even page
956 \afterpage{\setPageObject\setBottomCaption}%
957 \fi
958 \fi
959 \else% oneside
960 \if@twocolumn
961 \ifoddpage
962 \if@firstcolumn% on right side
963 \setBottomCaption\setPageObject
964 \else
965 \setPageObject\setBottomCaption
966 \fi
967 \else
968 \if@firstcolumn% on left side
969 \afterpage{\setPageObject\setBottomCaption}%
970 \else
971 \setPageObject\setBottomCaption
972 \fi
973 \fi
974 \else % onecolumn
975 \ifoddpage
976 \setBottomCaption\setPageObject
977 \else
978 \afterpage{\setBottomCaption\setPageObject}%
979 \fi
980 \fi
981 \fi
982 \or% caption on the inner column 4->inner
983 % \set@caption@object
984 \if@twocolumn
985 \ifoddpage
986 \if@firstcolumn% on right side
987 \setBottomCaption\setPageObject
988 \else % right column on right side
989 \setPageObject\setBottomCaption% start next firstcolumn next page
990 \fi

```

```

991 \else
992 \if@firstcolumn% on left side
993 \afterpage{\afterpage{\setBottomCaption\setPageObject}}% start next page/first column
994 \else% left page/column
995 \setBottomCaption\setPageObject% start on same page/column
996 \fi
997 \fi
998 \else% onecolumn
999 \setBottomCaption\setPageObject
1000 \fi
1001 \or% caption on the outer column 5->outer
1002 % \set@caption@object
1003 \if@twocolumn
1004 \ifoddpage
1005 \if@firstcolumn
1006 \afterpage{\afterpage{\setBottomCaption\setPageObject}}%
1007 \else
1008 \afterpage{\setBottomCaption\setPageObject}%
1009 \fi
1010 \else% even page (left)
1011 \if@firstcolumn
1012 \setBottomCaption\setPageObject
1013 \else
1014 %%% !!!! to-do: !!!!
1015 \fi
1016 \fi
1017 \else% onecolumn
1018 \setBottomCaption\setPageObject
1019 \fi
1020 \or% caption after object on same page 6->right for twocolumn
1021 \if@twocolumn
1022 \if@firstcolumn
1023 \afterpage{\setPageObject\setBottomCaption}%
1024 \else
1025 \setPageObject\setBottomCaption
1026 \fi
1027 \else% always caption _after_ object for onecolumn
1028 \setPageObject\setBottomCaption
1029 \fi
1030 \or% caption before object on same page 7->left for twocolumn
1031 \if@twocolumn
1032 \if@firstcolumn
1033 \setBottomCaption\setPageObject
1034 \else
1035 \afterpage{\setBottomCaption\setPageObject}%
1036 \fi
1037 \else% onecolumn -> same as before
1038 \setBottomCaption\setPageObject
1039 \fi
1040 \fi
1041 \endgroup% startet at main \hvFloat
1042 }
1043 %
1044
1045
1046 %% ----- the doublepage obejcts -----
1047 %% ||lin+evenside --- |lin+oddside ---||
1048 %
1049 \def\do@hvFloat@doublePage#1{% image on left and right page with caption on the right page
1050 % #1-> 0/1 caption under/right
1051 \global\setlength\hv@leftPageObjectWidth{\dimexpr\paperwidth-lin-\evensidemargin-\hvSet@bindCorrection}%
1052 \global\setlength\hv@tempWidthA{\the\dimexprlin+\oddsidemargin-\hvSet@bindCorrection}%
1053 \xdef\hv@caption@format@temp{\hv@caption@format}% it gets lost otherwise for next afterpage
1054 \global\hv@switchTypefalse
1055 % \endgroup% started at main macro \hvFloat
1056 \setcounter{hv@tempCNTfigA}{\value{figure}}%
1057 \setcounter{hv@tempCNTfigB}{\value{figure}}%

```

```

1058 \setcounter{hv@tempCNTtabA}{\value{table}}%
1059 \setcounter{hv@tempCNTtabB}{\value{table}}%
1060 \savebox\hvCaptionBox{% NO rotation
1061   \minipage{\textwidth}%% minipage, to get hyphenation
1062   \let\@capttype\hv@floatType
1063   \caption*{\hv@LongCap}%
1064   \endminipage}%
1065 \savebox\hvObjectBox{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1066 \ifnum#1=0\relax % no rotation, caption below
1067   \hv@typeout{Texthöhe: \the\textheight}%
1068   \hv@typeout{Objekthöhe: \the\ht\hvObjectBox}%
1069   \hv@typeout{Captionhöhe: \the\ht\hvCaptionBox}%
1070   \@tempdima=\dimexpr\ht\hvObjectBox+\ht\hvCaptionBox+\abovecaptionskip+\belowcaptionskip+\textfloatsep
1071   \relax%+\floatsep\relax
1072   \hv@typeout{Summe: \the\@tempdima}%
1073   \ifdim\@tempdima > \dimexpr\textheight-\hv@minTextlines\relax
1074     \hv@typeout{hvfloating: switched to floattype p}%
1075     \hv@switchTypeptrue
1076   \fi
1077 \fi
1078 \hv@typeout{do@hvFloat@doublePage:hv@tempWidthA=\the\hv@tempWidthA}%
1079 \checkoddpage
1080 \ifoddpage
1081   \if@twocolumn
1082     \if@firstcolumn
1083       \ifhv@switchType
1084         \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1085       \else
1086         \afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1087       \fi
1088     \else
1089       \ifhv@tugboat
1090         \do@hvFloat@doublePageCaptionRight{#1}%
1091       \else
1092         \ifhv@switchType
1093           \do@hvFloat@doublePAGECaptionRight{#1}%
1094         \else
1095           \afterpage{\do@hvFloat@doublePageCaptionRight{#1}}%
1096         \fi
1097       \fi
1098     \fi
1099   \else% we have an even page
1100     \if@twocolumn
1101       \if@firstcolumn
1102         \ifhv@switchType
1103           \afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}%
1104         \else
1105           \afterpage{\afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}}%
1106         \fi
1107       \else% second column
1108         \ifhv@switchType
1109           \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1110         \else
1111           \afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1112         \fi
1113       \fi
1114     \fi
1115   \else% onecolumn
1116     \ifhv@switchType
1117       \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1118     \else
1119       \afterpage{\do@hvFloat@doublePageCaptionRight{#1}}%
1120     \fi
1121   \fi
1122 \fi
1123 \fi

```



```

1124 \afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1125 \fi
1126 \fi
1127 \fi
1128 \let\c@fptop\hv@fptop
1129 \endgroup% started at main macro \hvFloat
1130 }
1131 %
1132 \def\do@hvFloat@doublePageCaptionRight#1{% image on left and right page with caption on the right page
-----
1133 \do@hvFloat@doublePageCaptionRightObjectLeft{0pt}%
1134 \afterpage{\do@hvFloat@doublePageCaptionRightObjectRight{#1}}%
1135 }
1136 %
1137 \def\do@hvFloat@doublePageCaptionRightObjectLeft#1{% left part of the object
1138 \begin{\hv@floatType*}[!t]
1139 \hfuzz=\maxdimen
1140 \let\c@hv@tempCNTfigA\c@figure
1141 \let\c@hv@tempCNTtabA\c@table
1142 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1143 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1144 \hv@typeout{Floatpositionsparameter: !t}%
1145 \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1146 \clipbox*{0 -\depth}{\hv@leftPageObjectWidth}{\height}{\usebox{\hvObjectBox}%
1147 \ifx\hv@label\empty
1148 \else
1149 \ifx\hv@floatType\hv@figure
1150 \global\refstepcounter{\hv@tempCNTfigA}%
1151 \else
1152 \global\refstepcounter{\hv@tempCNTtabA}% before caption
1153 \fi
1154 \label{\hv@label}%
1155 \fi
1156 \ifhv@global@sameHeight
1157 \hv@typeout{text should be of same height of both pages}%
1158 \par\phantom{\parbox{\textwidth}{\caption*{\hv@longCap}}}%
1159 % \vspace{\textfloatsep}%
1160 \fi
1161 \end{\hv@floatType*}%
1162 }
1163 \def\do@hvFloat@doublePageCaptionRightObjectRight#1{% right part of the object
1164 \begin{\hv@floatType*}[!t]
1165 \hfuzz=\maxdimen
1166 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1167 \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1168 \hspace*{-\hv@tempWidthA}%
1169 \savebox{\hv@rightBox}{\clipbox*{\hv@leftPageObjectWidth}{-\depth}{\width}{\height}}{\usebox{\hvObjectBox}}%
1170 \global\setlength{\hv@tempWidthB}{\dimexpr\textwidth-\wd\hv@rightBox-\hv@set@bindCorrection+lin+\oddsidemargin-\hv@floatCapSep\relax}%
1171 \hv@typeout{Height of right box: \the\ht\hv@rightBox}%
1172 \hv@typeout{Depth of right box : \the\dp\hv@rightBox}%
1173 \ifdim\dp\hv@rightBox > \z@
1174 \raisebox{\depth}{\usebox{\hv@rightBox}}%
1175 \else
1176 \usebox{\hv@rightBox}
1177 \fi
1178 \c@hv@tempCNTfigB=\numexpr\c@figure-1\relax
1179 \c@hv@tempCNTtabB=\numexpr\c@table-1\relax
1180 \ifx\hv@label\empty\else
1181 \ifx\hv@floatType\hv@figure
1182 \refstepcounter{\hv@tempCNTfigB}%
1183 \else
1184 \refstepcounter{\hv@tempCNTtabB}% before caption
1185 \fi
1186 \label{\hv@label-2}%
1187 \fi

```

```

1188 \ifx\hv@caption@format@temp\@empty\else
1189 \expandafter\captionsetup\expandafter{\hv@caption@format@temp}%
1190 \fi
1191 \c@figure=\numexpr\c@hv@tempCNTfigB-1\relax
1192 \c@table=\numexpr\c@hv@tempCNTtabB-1\relax
1193 \ifnum#1>\z@ % caption on the right
1194 \hv@typeout{doublePage: capAngle=\hvSet@capAngle}%
1195 \ifnum\hvSet@capAngle > \z@
1196 \hspace{\hv@floatCapSep}%
1197 \rlap{\rotatebox{\hvSet@capAngle}{\parbox[b]{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1198 \abovecaptionskip=0pt% local inside parbox
1199 \belowcaptionskip=0pt% local inside parbox
1200 \ifx\relax\hv@shortCap\relax
1201 \caption{\hv@longCap}%
1202 \else
1203 \caption[\hv@shortCap]{\hv@longCap}%
1204 \fi
1205 }}}%
1206 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1207 \else
1208 \global\setlength\hv@tempWidthB{\dimexpr\textwidth-\wd\hv@rightBox-\hvSet@bindCorrection+lin+\
1209 \oddsidemargin-\hv@floatCapSep\relax}%
1210 \hspace{\hv@floatCapSep}%
1211 \rlap{\parbox[b]{\dimexpr\ht\hv@rightBox+\dp\hv@rightBox}{\hv@capVPos}{\hv@tempWidthB}{%
1212 \abovecaptionskip=0pt% local inside parbox
1213 \belowcaptionskip=0pt% local inside parbox
1214 \ifx\hv@shortCap\@empty
1215 \caption{\hv@longCap}%
1216 \else
1217 \caption[\hv@shortCap]{\hv@longCap}%
1218 \fi
1219 }}}%
1220 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1221 \fi
1222 \else % #1 = 0 caption below
1223 \ifx\relax\hv@shortCap\relax
1224 \caption{\hv@longCap}%
1225 \else
1226 \caption[\hv@shortCap]{\hv@longCap}%
1227 \fi
1228 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1229 \fi
1230 \vspace{0pt}%
1231 \end{\hv@floatType*}
1232 %
1233 \newsavebox\hv@boxLeftPage
1234 \newsavebox\hv@boxRightPage
1235 %
1236 %% ||lin+evenside --- |lin+oddside ---||
1237 %
1238
1239 \def\do@hvFloat@doublePAGE#1{% image on left and right page with caption on the right
-----
1240 % #1-> 0/1 caption under/right
1241 \global\setlength\hv@tempWidthA{\the\dimexprlin+\oddsidemargin-\hvSet@bindCorrection}%
1242 \global\setlength\hv@leftPageObjectWidth{\the\dimexpr\paperwidth-lin-\evensidemargin-\
1243 \hvSet@bindCorrection}%
1244 \expandafter\global\expandafter\savebox\expandafter\hvObjectBox\expandafter{\ifhv@use0Box\usebox{\hv0Box
1245 } \else\hv@floatObject\fi}%
1246 \expandafter\global\expandafter\savebox\expandafter\hv@boxLeftPage\expandafter{\clipbox*{0 -\depth} \
1247 \hv@leftPageObjectWidth{ \height}{\usebox\hvObjectBox}}%
1248 \expandafter\global\expandafter\savebox\expandafter\hv@boxRightPage\expandafter{\clipbox*{\
1249 \hv@leftPageObjectWidth{ -\depth{ \width{ \height}{\usebox\hvObjectBox}}}%
1250 % \endgroup% started at main macro \hvFloat
1251 \checkoddpag
1252 \ifoddpag

```

```

1249 \if@twocolumn
1250 \if@firstcolumn
1251 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1252 \else
1253 \do@hvFloat@doublePAGECaptionRight{#1}%
1254 \fi
1255 \else
1256 \do@hvFloat@doublePAGECaptionRight{#1}%
1257 \fi
1258 \else
1259 \if@twocolumn
1260 \if@firstcolumn
1261 \afterpage{\afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}}%
1262 \else
1263 \afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}%
1264 \fi
1265 \else
1266 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1267 \fi
1268 \fi
1269 \endgroup% startet at main macro
1270 }
1271 %
1272 \def\do@hvFloat@doublePAGECaptionRight#1{% image on left and right page with caption on the right
-----
1273 % #1-> 0/1 caption under/right
1274 \afterpage{%
1275 \hfuze=\maxdimen
1276 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1277 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1278 \noindent
1279 \clipbox*{0 -\depth}{\hv@leftPageObjectWidth}{\height}{\usebox{\hvObjectBox}%
1280 \null\newpage\if@twocolumn\null\newpage\fi
1281 \expandafter\global\expandafter\savebox\expandafter{\hvObjectBox\expandafter{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1282 \noindent
1283 \hspace*{\dimexpr-\hv@tempWidthA}%
1284 \clipbox*{\the\hv@leftPageObjectWidth}{-\depth}{\width}{\height}}{\usebox{\hvObjectBox}%
1285 \begingroup
1286 \ifnum#1>0
1287 \medskip
1288 \ifdim\dp\hvObjectBox > \z@
1289 \rotatebox[origin=c]{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1290 \ifx\relax\hv@shortCap\relax
1291 \captionof{\hv@floatType}{\hv@longCap}%
1292 \else
1293 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1294 \fi
1295 }}%
1296 \ifx\hv@label\@empty\else\label{\hv@label}\fi
1297 \else
1298 \rotatebox{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1299 \ifx\relax\hv@shortCap\relax
1300 \captionof{\hv@floatType}{\hv@longCap}%
1301 \else
1302 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1303 \fi
1304 }}%
1305 \ifx\hv@label\@empty\else\label{\hv@label}\fi
1306 \fi
1307 \else% caption not rotated
1308 \par\noindent
1309 \parbox{\textwidth}{%
1310 \ifx\relax\hv@shortCap\relax
1311 \captionof{\hv@floatType}{\hv@longCap}%
1312 \else
1313 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%

```

```

1314         \fi
1315         \ifx\hv@label\@empty\else\label{\hv@label}\fi
1316     }%
1317 \fi
1318 \endgroup
1319 \newpage\if@twocolumn\null\newpage\fi
1320 }%
1321 }
1322 %
1323 %% ||lin+evenside --- |lin+oddside ---||
1324 %
1325 \def\do@hvFloat@doubleFULLPAGE#1{% image on left and right page with caption before/below/right/after
1326 % #1-> 0/1 caption under/right
1327 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1328 \ifx\hvSet@capPos\hv@After \global\hv@capPos=1
1329 \else
1330 \ifx\hvSet@capPos\hv@Before \global\hv@capPos=0
1331 \else
1332 \global\hv@capPos=2 % other caption type
1333 \fi\fi
1334 \checkoddpages
1335 \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1336 \global\setlength\hv@tempWidthA{\dimexpr-\oddsidemargin-lin-\parindent+\hvSet@bindCorrection}% the
1337 width of the right side offset
1338 \global\setlength\hv@tempWidthB{\dimexpr\ht\hvCaptionBox+\wd\hvObjectBox+2\hvSet@bindCorrection}%
1339 \global\setlength\hv@leftPageObjectWidth{\dimexpr\paperwidth-\hvSet@bindCorrection}%
1340 % \savebox\hv@leftBox{\clipbox*{0 0 \the\hv@leftPageObjectWidth}{\height}{\usebox\hvObjectBox}}%
1341 % \savebox\hv@rightBox{\clipbox*{\the\hv@leftPageObjectWidth}{\depth}{\width}{\height}{\usebox\hvObjectBox}}%
1342 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1343 \ifoddpage
1344 \ifcase\hv@capPos % =0 Caption before
1345 \if@twocolumn
1346 \ifhv@twoColumnCaption
1347 \set@Normal@Bottom@Caption*
1348 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1349 \else
1350 \afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1351 \fi
1352 \else% \if@firstcolumn
1353 \set@Normal@Bottom@Caption
1354 \do@hvFloat@doubleFULLPAGE@CaptionBefore
1355 \fi
1356 \else% \if@twocolumn
1357 \set@Normal@Bottom@Caption
1358 \do@hvFloat@doubleFULLPAGE@CaptionBefore
1359 \fi
1360 \or % =1 Caption after
1361 \ifhv@twoColumnCaption
1362 \if@firstcolumn
1363 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol}%
1364 \else
1365 \do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol
1366 \fi
1367 \else
1368 \if@twocolumn
1369 \if@firstcolumn
1370 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter}%
1371 \else
1372 \do@hvFloat@doubleFULLPAGE@CaptionAfter
1373 \fi
1374 \else
1375 \do@hvFloat@doubleFULLPAGE@CaptionAfter
1376 \fi
1377 \fi
1378 \else% \ifcase >1 all other Captions

```

```

1379 \if@twocolumn
1380 \if@firstcolumn
1381 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}%
1382 \else
1383 \do@hvFloat@doubleFULLPAGE@CaptionOther{#1}%
1384 \fi
1385 \else % \if@twocolumn
1386 \do@hvFloat@doubleFULLPAGE@CaptionOther{#1}%
1387 \fi
1388 \fi% \ifcase
1389 \else% we have an even page
1390 \ifcase\hv@capPos% Before
1391 \if@twocolumn
1392 \if@firstcolumn
1393 \ifhv@twoColumnCaption
1394 \afterpage{\afterpage\set@Normal@Bottom@Caption*\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}%
1395 \else
1396 \afterpage{\afterpage{\afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}%
1397 \fi
1398 \else
1399 \afterpage{\afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}%
1400 \fi
1401 \else% \if@twocolumn
1402 \afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1403 \fi
1404 \or % capPos after
1405 \if@twocolumn
1406 \if@firstcolumn
1407 \ifhv@twoColumnCaption
1408 \afterpage{\afterpage\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol{#1}}}%
1409 \else
1410 \afterpage{\afterpage\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter{#1}}}%
1411 \fi
1412 \else
1413 \ifhv@twoColumnCaption
1414 \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol{#1}}}%
1415 \else
1416 \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter{#1}}}%
1417 \fi
1418 \fi
1419 \else% \if@twocolumn
1420 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter}%
1421 \fi
1422 \else % \ifcase Any other caption
1423 \if@twocolumn
1424 \if@firstcolumn
1425 \afterpage{\afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}}}%
1426 \else
1427 \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}}%
1428 \fi
1429 \else
1430 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}%
1431 \fi
1432 \fi% \ifcase
1433 \fi% main ifoddpge
1434 \endgroup% started at main macro \hvFloat
1435 }
1436
1437 \def\set@Normal@Bottom@Caption{\ifnextchar*\set@Normal@Bottom@CaptionStar\set@Normal@Bottom@Caption@}
1438 \def\set@Normal@Bottom@Caption@{%
1439 \begin{\hv@floatType}[!b]
1440 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1441 \ifhv@separatorLine\drawSepLine\fi
1442 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1443 \ifx\hv@shortCap\@empty

```



```

1444 \captionof{\hv@floatType}{\hv@longCap}%
1445 \else
1446 \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1447 \fi
1448 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1449 \end{\hv@floatType}%
1450 }
1451 \def\set@Normal@Bottom@CaptionStar*{%
1452 \begin{\hv@floatType*}[!b]
1453 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1454 \ifhv@separatorLine\drawSepLine\fi
1455 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1456 \ifx\hv@shortCap\@empty
1457 \captionof{\hv@floatType}{\hv@longCap}%
1458 \else
1459 \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1460 \fi
1461 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1462 \end{\hv@floatType*}%
1463 }
1464
1465 \def\do@hvFloat@doubleFULLPAGE@CaptionBefore{%
1466 \afterpage{%
1467 \hfuzz=\maxdimen
1468 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1469 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}% no
interlineskip
1470 \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1471 \thispagestyle{empty}%
1472 \ifx\hv@floatType\hv@figure
1473 \global\refstepcounter{hv@tempCNTfigB}%
1474 \else
1475 \global\refstepcounter{hv@tempCNTtabB}% before caption
1476 \fi
1477 \expandafter\label\expandafter{\hv@label}%
1478 \clipbox*{0 0 \the\hv@leftPageObjectWidth{ } \height}{\usebox{\hvObjectBox}%
1479 \afterpage{%
1480 \if@twocolumn\newpage\null\newpage\fi
1481 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1482 \thispagestyle{empty}%
1483 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}%
-0.5\paperheight+0.5\ht\hvObjectBox
1484 \hspace*{\hv@tempWidthA}%
1485 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1486 \clipbox*{\the\hv@leftPageObjectWidth{ } \dp\hvObjectBox{ } \wd\hvObjectBox{ } \ht\hvObjectBox}{\usebox
\hvObjectBox}%
1487 \ifx\hv@floatType\hv@figure
1488 \global\refstepcounter{hv@tempCNTfigA}%
1489 \else
1490 \global\refstepcounter{hv@tempCNTtabA}% before caption
1491 \fi
1492 \expandafter\label\expandafter{\hv@label-2}%
1493 \newpage\if@twocolumn\null\newpage\fi
1494 }}%
1495 }
1496
1497 \newif\ifhv@temp
1498
1499 \def\do@hvFloat@doubleFULLPAGE@CaptionAfter{%
1500 \afterpage{%
1501 \hfuzz=\maxdimen
1502 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1503 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}% no
interlineskip
1504 \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1505 \thispagestyle{empty}%
1506 \clipbox*{0 \the\dp\hvObjectBox{ } \the\hv@leftPageObjectWidth{ } \the\ht\hvObjectBox}{\usebox\

```

```

    hvObjectBox}%
1507 \ifx\hv@floatType\hv@figure
1508   \refstepcounter{hv@tempCNTfigA}%
1509 \else
1510   \refstepcounter{hv@tempCNTtabA}%   before caption
1511 \fi
1512 \ifx\hv@label\@empty\else\label{\hv@label}\fi
1513 % \afterpage{%
1514   \newpage\if@twocolumn\null\newpage\fi
1515   \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1516   \thispagestyle{empty}%
1517   \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}%
    -0.5\paperheight+0.5\ht\hvObjectBox
1518   \hspace*{\hv@tempWidthA}%
1519   \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1520   \clipbox*{\the\hv@leftPageObjectWidth{} \dp\hvObjectBox{} \wd\hvObjectBox{} \ht\hvObjectBox}{\usebox
    \hvObjectBox}%
1521 \ifx\hv@floatType\hv@figure
1522   \refstepcounter{hv@tempCNTfigB}%
1523 \else
1524   \refstepcounter{hv@tempCNTtabB}%   before caption
1525 \fi
1526 \expandafter\label\expandafter{\hv@label-2}%
1527 \newpage\if@twocolumn\null\newpage\fi
1528 \begin{\hv@floatType}[!b]
1529   \ifhv@separatorLine\drawSepLine\fi
1530 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1531   \ifx\hv@shortCap\@empty
1532     \captionof{\hv@floatType}{\hv@longCap}%
1533   \else
1534     \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1535   \fi
1536   \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1537 \end{\hv@floatType}%
1538 }%}%
1539 }
1540
1541 \def\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol{%
1542 \afterpage{%
1543   \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1544   \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}% no
    interlineskip
1545   \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1546   \thispagestyle{empty}%
1547   \ifx\hv@floatType\hv@figure
1548     \refstepcounter{hv@tempCNTfigA}%
1549   \else
1550     \refstepcounter{hv@tempCNTtabA}%   before caption
1551   \fi
1552   \ifx\hv@label\@empty\else\label{\hv@label}\fi
1553   \clipbox*{0 0 \the\hv@leftPageObjectWidth{} \height}{\usebox\hvObjectBox}%
1554   \newpage\if@twocolumn\null\newpage\fi
1555   \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1556   \thispagestyle{empty}%
1557   \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}%
    -0.5\paperheight+0.5\ht\hvObjectBox
1558   \hspace*{\hv@tempWidthA}%
1559   \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1560   \clipbox*{\the\hv@leftPageObjectWidth{} \dp\hvObjectBox{} \wd\hvObjectBox{} \ht\hvObjectBox}{\usebox
    \hvObjectBox}%
1561   \ifx\hv@floatType\hv@figure
1562     \refstepcounter{hv@tempCNTfigB}%
1563   \else
1564     \refstepcounter{hv@tempCNTtabB}%   before caption
1565   \fi
1566   \ifx\hv@label\@empty\else\label{\hv@label-2}\fi
1567   \newpage

```

```

1568 \begin{\hv@floatType*}[!b]
1569 \hv@twoColumnCaptiontrue
1570 \ifhv@separatorLine\drawSepLine\fi
1571 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1572 \ifx\hv@shortCap\@empty
1573 \captionof{\hv@floatType}{\hv@longCap}%
1574 \else
1575 \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1576 \fi
1577 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1578 \end{\hv@floatType*}%
1579 }%
1580 }
1581
1582 \def\do@hvFloat@doubleFULLPAGE@CaptionOther#1{%
1583 \afterpage{%
1584 \hfuzz=\maxdimen
1585 \global\savebox{\hv0objectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@float0object\fi}%
1586 \thispagestyle{empty}%
1587 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}% -0.5\
    paperheight+0.5\ht\hv0objectBox
1588 \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1589 \global\savebox{\hv0objectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@float0object\fi}%
1590 \clipbox*{0 \depth}{\hv@leftPageObjectWidth}{\height}{\usebox{\hv0objectBox}}%
1591 \ifx\hv@floatType\hv@figure
1592 \refstepcounter{hv@tempCNTfigA}%
1593 \else
1594 \refstepcounter{hv@tempCNTtabA}% before caption
1595 \fi
1596 \label{\hv@label}%
1597 \afterpage{%
1598 \if@twocolumn\newpage\if@firstcolumn\else\null\newpage\fi\fi
1599 \global\savebox{\hv0objectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@float0object\fi}%
1600 \thispagestyle{empty}%
1601 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}%
    -0.5\paperheight+0.5\ht\hv0objectBox
1602 \hspace*{\hv@tempWidthA}%
1603 \clipbox*{\hv@leftPageObjectWidth}{\dp\hv0objectBox}{\wd\hv0objectBox}{\ht\hv0objectBox}{\usebox{\hv0objectBox}}%
1604 \ifx\hv@floatType\hv@figure
1605 \refstepcounter{hv@tempCNTfigB}%
1606 \else
1607 \refstepcounter{hv@tempCNTtabB}% before caption
1608 \fi
1609 \expandafter\label\expandafter{\hv@label-2}%
1610 \savebox\hvCaptionBox{\parbox{0.9\ht\hv0objectBox}{\captionof*{\hv@floatType}{\hv@longCap}}}%
1611 \ifnum#1 > 0\relax % rotation with 90°
1612 % \setlength\hv@tempWidthB{\dimexpr\ht\hvCaptionBox+\wd\hv0objectBox+2\hv@set@bindCorrection}%
1613 \ifdim\hv@tempWidthB < 2\paperwidth
1614 \rotatebox[origin=lb]{90}{\makebox[\paperheight][c]{\parbox{0.8\ht\hv0objectBox}{%
1615 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1616 \ifx\hv@shortCap\@empty
1617 \captionof{\hv@floatType}{\hv@longCap}%
1618 \else
1619 \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1620 \fi
1621 }}}% rotatebox
1622 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1623 \else% ifdim: no space left on page
1624 \put(-2\ht\hvCaptionBox,0.5\ht\hv0objectBox){\makebox(0,0){\rotatebox{90}{\minipage{\textwidth}\centering
1625 \parbox{0.8\textwidth}{%
1626 \ifx\hv@shortCap\@empty
1627 \captionof{\hv@floatType}{\hv@longCap}%
1628 \else
1629 \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1630 \fi

```

```

1631 }%
1632 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1633 \endminipage}}}%
1634 \fi
1635 \else% ifnum, caption not rotated, under or over the right page
1636 \setlength\hv@tempWidthA{\dimexpr\paperheight-\ht\hvObjectBox}%
1637 \ifdim\hv@tempWidthA > \ht\hvCaptionBox
1638 \else
1639 \put(\the\dimexpr1.5\paperwidth-\wd\hvObjectBox-\hvSet@bindCorrection,\the\dimexpr\ht\
    hvCaptionBox+\abovecaptionskip+\belowcaptionskip){\makebox[0pt][c]{\parbox{\textwidth}{%%
1640 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1641 \ifx\hv@shortCap\@empty
1642 \captionof{\hv@floatType}{\hv@longCap}%
1643 \else
1644 \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1645 \fi
1646 }}}}%
1647 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1648 \fi
1649 \fi% end \ifnum#1>0
1650 \newpage\if@twocolumn\null\newpage\fi
1651 }%
1652 }%
1653 }
1654
1655
1656 \def\setBottomCaption{%
1657 \begin{\hv@floatType}[!b]%
1658 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1659 \ifhv@separatorLine\drawSepLine\fi
1660 \par
1661 \usebox\hvCaptionBox
1662 \end{\hv@floatType}%
1663 }
1664
1665 \def\setPageObject{%
1666 \ifhv@star
1667 \begin{\hv@floatType*}[p]%
1668 \else
1669 \begin{\hv@floatType}[p]%
1670 \fi
1671 \hfuzz=\maxdimen
1672 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1673 \ifhv@FULLPAGE
1674 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep}%-0.5\baselineskip%
1675 \checkoddpage
1676 \if@twoside
1677 \ifoddpage
1678 \hspace*{\the\dimexpr-\oddsidemargin-\parindent-\lin}%
1679 \else
1680 \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1681 \fi
1682 \else
1683 \hspace*{\the\dimexpr-\oddsidemargin-\parindent-\lin}%
1684 \fi
1685 \AtBeginShipoutNext{\thispagestyle{empty}}}%
1686 \usebox\hvObjectBox
1687 \else
1688 \usebox\hvObjectBox
1689 \fi
1690 \ifhv@star
1691 \end{\hv@floatType*}%
1692 \else
1693 \end{\hv@floatType}%
1694 \fi
1695 }
1696

```

```

1697 \ExplSyntaxOn
1698
1699 \def\getMultiCaptionAndLabel{%
1700   \global\sbox\hvCaptionBox{\minipage[b]{\linewidth}%
1701     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1702   %   \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
1703     \setlength\belowcaptionskip{5pt}%
1704     \setlength\abovecaptionskip{0pt}%
1705     \hv@cntb=\clist_count:N\l_clist_Type
1706     \advance\hv@cntb by \@ne
1707     \hv@cna=1
1708     \loop
1709       \edef\@cctype{\clist_item:Nn\l_clist_Type{\hv@cna}}%
1710       \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{\hv@cna}}%
1711       \ifx\@tempa\@empty
1712         \caption{\clist_item:Nn\l_clist_Caption{\hv@cna}}%
1713       \else
1714         \expandafter\caption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{\hv@cna}}%
1715       \fi
1716       \edef\@tempa{\clist_item:Nn\l_clist_Label{\hv@cna}}%
1717       \ifx\@tempa\@empty
1718       \else
1719         \expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{\hv@cna}-cap}\fi
1720       \advance\hv@cna by \@ne
1721       \ifnum\hv@cna<\hv@cntb
1722       \repeat
1723 \endminipage}%
1724 }
1725
1726 \def\getMultiObjectAndLabel{%
1727   \global\sbox\hvObjectBox{%
1728     \ifhv@vFill
1729       \minipage[b][\textheight][s]{\columnwidth}%
1730     \else
1731       \minipage{\columnwidth}%
1732     \fi
1733     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1734   %   \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
1735     \ifx\hvSet@objectPos\hv@Right\raggedleft\else
1736       \ifx\hvSet@objectPos\hv@Left\raggedleft\else
1737       \ifx\hvSet@objectPos\hv@Center\centering
1738     \fi\fi\fi
1739     \hv@cntb=\clist_count:N\l_clist_Type
1740     \advance\hv@cntb by \@ne
1741     \hv@cna=1
1742     \loop
1743       \def\@temp{\clist_item:Nn\l_clist_Object{\hv@cna}}%
1744       \ifhv@objectFrame\frame{\@temp}\else\@temp\fi
1745       \edef\@tempa{\clist_item:Nn\l_clist_Label{\hv@cna}}%
1746       \edef\@tempb{\clist_item:Nn\l_clist_Type{\hv@cna}}%
1747       \edef\@cctype{\hv@p\@tempb}%
1748       \ifx\@tempa\@empty
1749       \else
1750         \refstepcounter{\@cctype}%
1751         \expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{\hv@cna}}%
1752       \fi
1753       \ifnum\hv@cna<\clist_count:N\l_clist_Type\par\hv@vskip\fi
1754       \advance\hv@cna by \@ne
1755       \ifnum\hv@cna<\hv@cntb
1756       \ifhv@vFill\vfill\fi
1757     \repeat
1758 \endminipage}%
1759 }
1760 \def\getMultiSubCaptionAndLabel{%
1761   \global\sbox\hvCaptionBox{\minipage{\linewidth}%
1762     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1763   %   \ifx\hv@caption@format\@empty\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi

```

```

1764 \setlength\belowcaptionskip{5pt}%
1765 \setlength\abovecaptionskip{0pt}%
1766 \xdef\@captype{\clist_item:Nn\l_clist_Type{1}}% the same for all subfloats
1767 \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{1}}%
1768 \ifx\@tempa\@empty
1769 \caption{\clist_item:Nn\l_clist_Caption{1}}%
1770 \else
1771 \expandafter\caption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{1}}%
1772 \fi
1773 \edef\@tempa{\clist_item:Nn\l_clist_Label{1}}%
1774 \ifx\@tempa\@empty\else\expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{1}-cap}\fi
1775 \endminipage}%
1776 }
1777
1778 \def\getMultiSubObjectAndLabel{%
1779 \global\sbox\hvObjectBox{%
1780 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1781 \ifhv@vFill
1782 \minipage[b][\textheight][s]{\columnwidth}%
1783 \else
1784 \minipage{\columnwidth}%
1785 \fi
1786 % \ifx\hv@subcaption@format\@empty\else
1787 % \expandafter
1788 % \captionsetup\expandafter[\expandafter s\expandafter u\expandafter b\expandafter]\expandafter
1789 % {\hv@subcaption@format}%
1790 % \fi
1791 \ifx\hvSet@objectPos\hv@Right\raggedleft\else
1792 \ifx\hvSet@objectPos\hv@Left\raggedleft\else
1793 \ifx\hvSet@objectPos\hv@Center\centering
1794 \fi\fi\fi
1795 \hv@cntb=\clist_count:N\l_clist_Caption
1796 \advance\hv@cntb by \@ne
1797 \hv@cna=2
1798 \edef\@captype{\clist_item:Nn\l_clist_Type{1}}% the same for all subfloats
1799 \ifx\@tempa\@empty
1800 \else
1801 % \refstepcounter{\@captype}%
1802 % \expandafter\label\expandafter{\@tempa}%
1803 \fi
1804 \loop
1805 \def\@temp{\clist_item:Nn\l_clist_Object{\hv@cna}}%
1806 \ifhv@objectFrame\frame{\@temp}\else\@temp\fi
1807 \begingroup
1808 \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{\hv@cna}}%
1809 \ifx\@tempa\@empty
1810 \subcaption{\clist_item:Nn\l_clist_Caption{\hv@cna}}%
1811 \else
1812 \expandafter\subcaption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{\hv@cna}}%
1813 \fi
1814 \edef\@tempa{\clist_item:Nn\l_clist_Label{\hv@cna}}%
1815 \ifx\@tempa\@empty
1816 \else
1817 \expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{\hv@cna}}%
1818 \fi
1819 \endgroup
1820 \ifnum\hv@cna<\clist_count:N\l_clist_Type\par\hv@vskip\fi
1821 \advance\hv@cna by \@ne
1822 \ifnum\hv@cna<\hv@cntb
1823 \ifhv@vFill\vfill\fi
1824 \repeat
1825 \edef\@tempa{\clist_item:Nn\l_clist_Label{1}}% the main label at the end
1826 \ifx\@tempa\@empty
1827 \else
1828 % \addtocounter{\@captype}{-1}% to get the same <object>-ref as "label"-cap
1829 \edef\@temp{\hv@p\@captype}%
1830 \refstepcounter{\@temp}%

```



```

1831 \expandafter\label\expandafter{\@tempa}%
1832 \fi
1833 \endminipage}%
1834 }
1835 \ExplSyntaxOff
1836
1837 \def\getSingleCaptionAndLabel{%
1838 \global\sbox\hvCaptionBox{\minipage{\linewidth}%
1839 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1840 \setlength\belowcaptionskip{5pt}%
1841 \setlength\abovecaptionskip{0pt}%
1842 \edef\@captype{\hv@floatType}%
1843 \expandafter\ifx\expandafter\relax\hv@shortCap\relax
1844 \caption{\hv@longCap}%
1845 \else
1846 \caption[\hv@shortCap]{\hv@longCap}%
1847 \fi
1848 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1849 \endminipage}%
1850 }
1851
1852 \def\set@caption@object#1{% first caption, then object #1=\hv@floatType
1853 \ifhv@multiFloat
1854 \setcounter{hv@pfigure}{\value{figure}}%
1855 \setcounter{hv@ptable}{\value{table}}%
1856 \getMultiCaptionAndLabel
1857 \else
1858 \ifhv@subFloat
1859 \setcounter{hv@pfigure}{\value{figure}}%
1860 \setcounter{hv@ptable}{\value{table}}%
1861 \getMultiSubCaptionAndLabel
1862 \else
1863 \getSingleCaptionAndLabel
1864 \fi
1865 \fi
1866 \edef\@captype{\hv@p#1}%
1867 \ifhv@multiFloat
1868 \getMultiObjectAndLabel
1869 \else
1870 \ifhv@subFloat
1871 \getMultiSubObjectAndLabel
1872 \else
1873 \global\sbox\hvObjectBox{%
1874 \refstepcounter{\@captype}%
1875 \ifhv@objectFrame\frame{\hv@floatObject}\else\hv@floatObject\fi
1876 \expandafter\ifx\expandafter\relax\hv@label\relax
1877 \else
1878 \expandafter\label\expandafter{\hv@label}%
1879 \fi
1880 }%
1881 \fi
1882 \fi
1883 }
1884 %
1885 \endinput

```