

Package hvfloat

Rotating and scaling of objects and captions ver 2.26

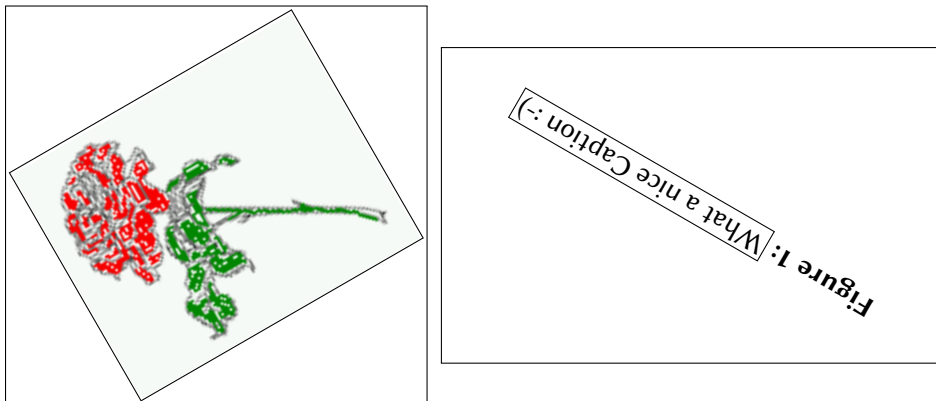
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The package hvfloat defines a macro to place objects and captions of floats in different positions with different rotating angles.

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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Thanks to Frank Mittelbach, Rolf Niepraschk

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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 24 and 19.2 on page 53 and the optional `+` is explained in section 17.3 on page 40.

`\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}
```

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.

2 The Macros and optional arguments

[...] 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 ...]%`
`{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`

Keyword	Default	Description
<code>floatPos</code>	<code>tpb</code>	This is the same default placement setting like the one from standard \LaTeX , but maybe not always the best setting.
<code>rotAngle</code>	<code>0</code>	The value for the angle if both, the object and the caption, should be rotated together.
<code>capWidth</code>	<code>n</code>	The width of the caption. Can be <code>»n«</code> like a natural width given by the current linewidth, <code>»w«</code> for the width of the object, <code>»h«</code> for the height of the object, or a scale for <code>\columnwidth</code> .
<code>capAngle</code>	<code>0</code>	The integer value for the angle if the caption should be rotated. Counted counter clockwise.
<code>capPos</code>	<code>bottom</code>	The position of the caption relative to the object. Possible values are 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 <i>same page</i> 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 <i>same page</i> 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.

Keyword	Default	Description
		oddPage: in twoside mode with fullpage objects always on an odd page.
capVPos	center	This is only important for capPos=left right. Only in this case the caption can vertically placed at the bottom, center and top.
objectPos	center	The horizontal placement of the object relative to the document. Possible values are (l) eft (c) enter (r) ight.
objectAngle	0	The integer value for the angle if the object should be rotated. Counted counter clockwise.
floatCapSep	5pt	The additional space between the object and a left or right placed caption.
use0Box	false	Instead of passing the object as parameter to the \hvFloat, the contents maybe saved in the box \hv0Box With use0Box=true the contents of this box will be used.
onlyText	false	The caption will be printed as normal text and there is no entry in the list of
nonFloat	false	The object isn't put in a floating environment. It is 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.
objectFrame	false	put a frame with no separation around the float object.
style	-	Use a defined style
capFormat	-	Define formatting options for \caption (see documentation of package caption).
subcapFormat	-	Define formatting options for \subcaption.
fullpage	false	Use a complete column in twocolumn mode.
FULLPAGE	false	Use the complete paper width/height for the object.
FullPage	false	Use the complete text area for the object.
doublePage	false	Use the textarea on a doublepage with additional text.
doublePAGE	false	Use the textarea 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.

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}
```

Code for figure 2:

Fig. 2

3 The default use of floating environments

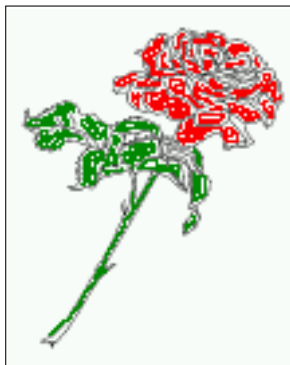


Figure 2: Without any keywords (only the fbox package option)

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

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

Code for table 3:

```
\hvFloat[capPos=top]{table}{%
\begin{tabularx}{\textwidth}{>\ttfamily}l|l|X}
\rmfamily Name & Type & Description\\ \hline
\CMD{hvFloat} & command & places object and caption in different ways\\
hvFloatEnv & environment & places object and caption exactly Here\\
\CMD{figcaption} & command & writes a figure caption in a non floating environment\\
\CMD{tabcaption} & command & writes a table caption in a non floating environment\\
\CMD{hvFloatSetDefaults} & command & sets all options to the defaults\\
\CMD{hvDefFloatStyle} & command & define a user style
\end{tabularx}}%
{With the only Option \texttt{capPos=top} to place the caption on top of the table, which is often
the default.}%
{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:

```
\hvFloat[floatPos=!htb]{figure}{\includegraphics{images/rose}}%  
  {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).

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

Fig. 4

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.

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

Fig. 5

4 Caption width

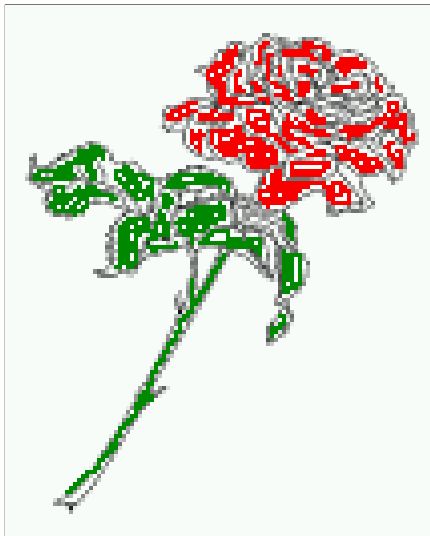


Figure 4: Caption right beside with a *natural* width, which is given by the width of the object, the separation between object and caption, and the current linewidth.



Figure 5: Caption below with a width of 0.9 of the current line width (column width), which is in this special case 376.4258pt. 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:

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

Fig. 6

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.

4.4 caption width to height of the object

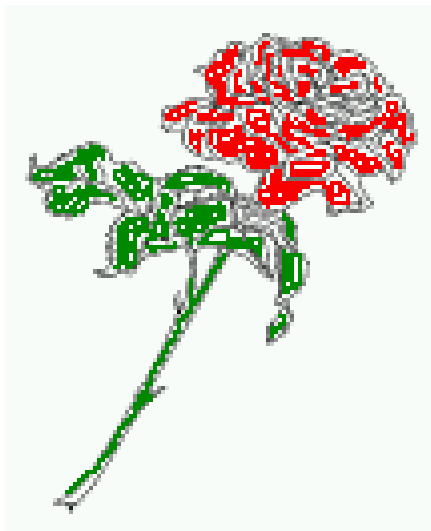


Figure 6: Caption right beside with a width setting of 0.9\linewidth which is too big for this example and therefore corrected by the macro to the maximal width.

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

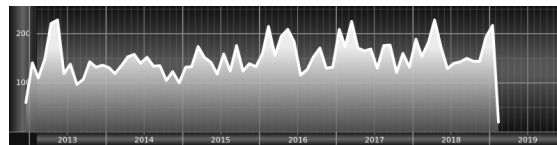


Figure 7: Caption below with a width of the given object which may be a problem if it is a very small object.

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.

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

Fig. 8

5 Caption left or right of the object

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

5 Caption left or right of the object



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

5.1 Caption right with specific length

Code for figure 9:

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

floatFig. 9
capPos=right



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.

5.2 Caption left and rotated

Code for figure 10:

```
\hvFloat%
[ floatPos=htb,
  capPos=left,
  capWidth=h,% of \columnwidth
  capAngle=90,
```

```

objectFrame
]{figure}{\includegraphics{images/rose}}}%
[Centered Caption beside Object]%
{Caption vertically centered left beside the float with a caption width
of \texttt{capWidth=h}, which is the height of the object.}{fig:2}

```

Fig. 10



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.

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:

```

\hvFloat[%
  capWidth=h,
  capPos=after,
  capAngle=180,
  objectAngle=90,
  capVPos=center,
  objectPos=center]{figure}{\frame{\includegraphics{images/rose}}}%
[Centered Caption beside Object]{%
{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.}{fig:3}

```

Fig. 11

6 Caption inner or outer

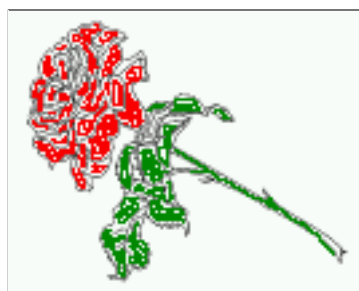


Figure 11: Caption ver-
tically centered right be-
side the float with a cap-
tion width of the height
of the image and a rota-
tion of the caption and
the object.

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:

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

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 16, an even page. We now set a `pagebreak` at the end of the second image to see if it works with *inner/outer*.

```
\hvFloat[capPos=outer]{figure}{\includegraphics{images/rose}}%
```

```
[Centered Caption on the inner side]{%
Caption set with the parameter setting \texttt{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: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 odd 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:

```
\hvFloat[%
capWidth=0.5,% of \columnwidth
capPos=inner,% ==> INNER
capAngle=0,
capVPos=bottom,
objectPos=center]{figure}{\includegraphics{images/rose}}}%
[Centered Caption beside Object]{%
```

7 Vertical Position of the Caption

Caption vertically centered right beside the float with a caption 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:

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

Fig. 16



Figure 16: Caption at bottom right beside the float

The code for figure 17:

```
\hvFloat[%
  floatPos=htb,
  capWidth=0.25,
  capPos=right,
  capVPos=top,
]{figure}{\frame{\includegraphics{images/rose}}}{Caption at top left beside the float}{fig:5}
```

Figure 17: Caption at top left beside the float

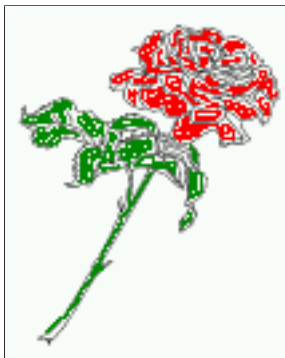


Fig. 17

The code for figure 18:

```
\hvFloat[%
  capWidth=0.25,
  capPos=right,
  capVPos=center,% the default
]{figure}{\frame{\includegraphics{images/rose}}}{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..

9 Horizontal Position of the Float

```
\hvFloat[%  
  capPos=right,  
  capFormat={labelsep=newline,justification=RaggedRight,font={small,it},labelfont=bf}  
]{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:

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

Fig. 20

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` :

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

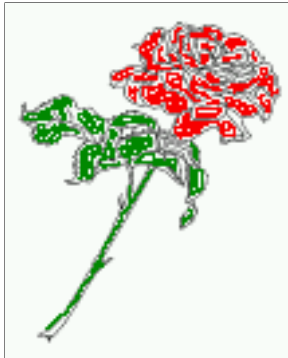
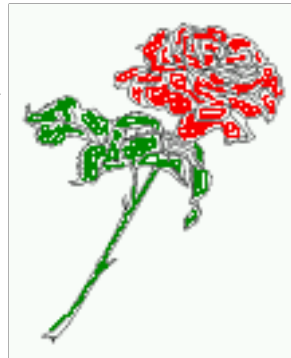


Figure 20: Caption at top right beside the float and object position left

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



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:

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

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. 22

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



10 Wide floats

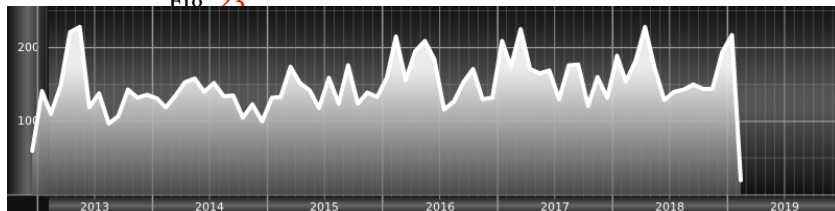
With the optional argument `wide` the width of the defined `\marginparwidth` is added to the allowed horizontal width of the float.

The code for figure 23:

```
\hvFloat[wide,
  capPos=right,
  capVPos=top,
  objectPos=left,
]{figure}{\includegraphics[width=0.75\linewidth]{images/CTAN}}{%
  Caption at top right beside the float and object position left and
  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:

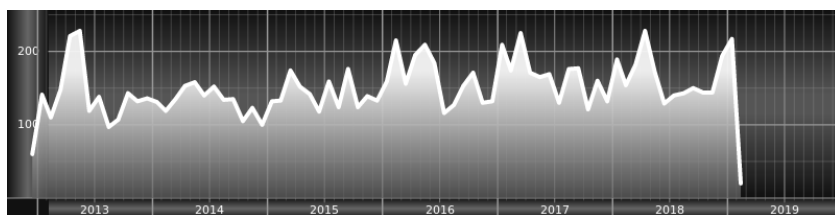
```
\hvFloat[wide,
  capPos=left,
  capVPos=top,
  objectPos=right,
]{figure}{\includegraphics[width=0.75\linewidth]{images/CTAN}}{%
  {Caption at top left beside the object and object position left and
  the option \texttt{wide}.}{fig:80}
```

Fig. 24

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

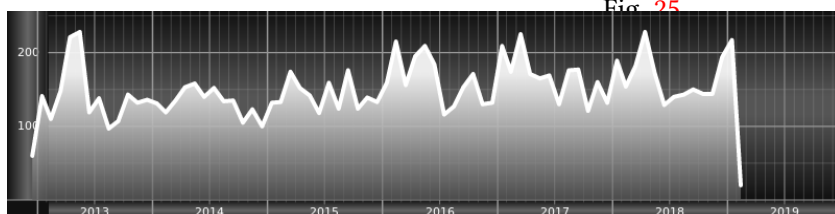
Figure 24: Caption at top left beside the object and object position left and the option wide.



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.

```
\hvFloat[wide,
    capPos=inner,
    capVPos=top,
]{figure}{\includegraphics[width=0.75\linewidth]{images/CTAN}}{%
Caption at top and inner beside the float and object position right and
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.

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

The caption can be typeset completely into the margin with:

```
\captionsetup{justification=RaggedRight}
\hvFloat[wide,
    capPos=outer,
    capVPos=top,
```

Fig. 26

12 Full Page Width in Landscape Mode

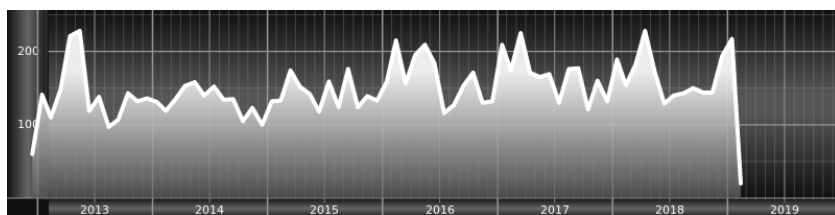
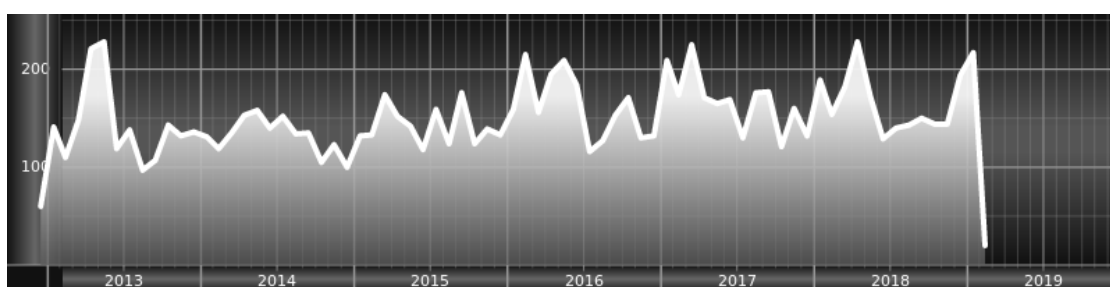


Figure 26: Caption at top inner beside the float and object position right and the option wide.

```
floatCapSep=\marginparsep,
]{figure}{\includegraphics[width=\linewidth]{images/CTAN}}{%
Caption at top inner beside the float and object position right and
the option \texttt{wide}.}{fig:812}
```

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 on the facing page) is:

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

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

12 Full Page Width in Landscape Mode

If you do not want to load the package `lscape` (or `pdflscape`) 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:

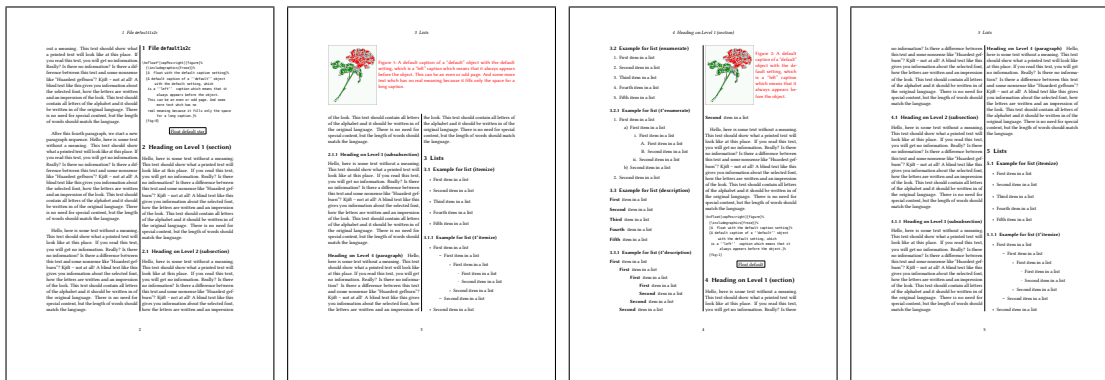


Figure 28: Output of default1s2c (pages 2 –5)

```
\hvFloat[%
floatPos=p,
capPos=bottom,
rotAngle=90,
objectPos=center,
]{figure}{\includegraphics[width=0.9\textheight]{images/CTAN}}%
[Object and Caption in landscape mode]{%
Caption and object in landscape mode. \blindtext}{fig:9}
```

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

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

The code for figure 30:

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

Fig. 29

Fig. 30

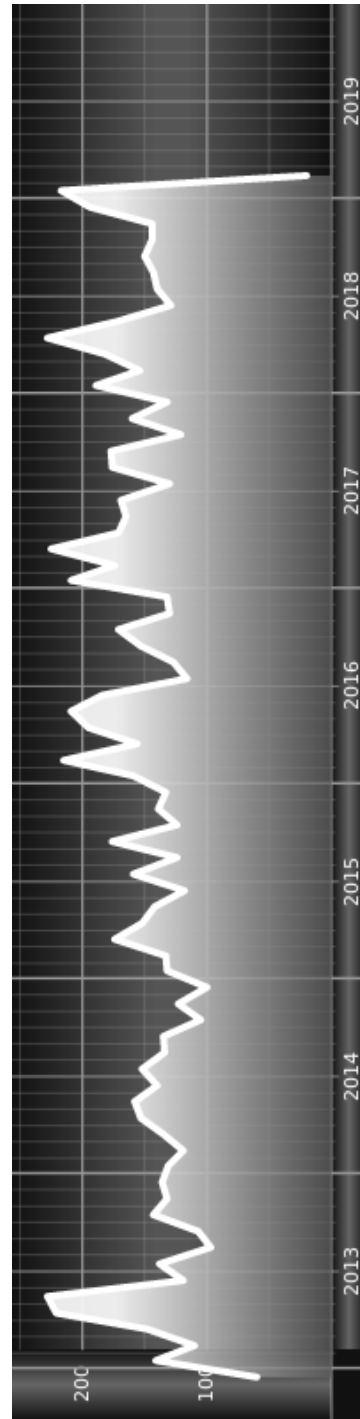
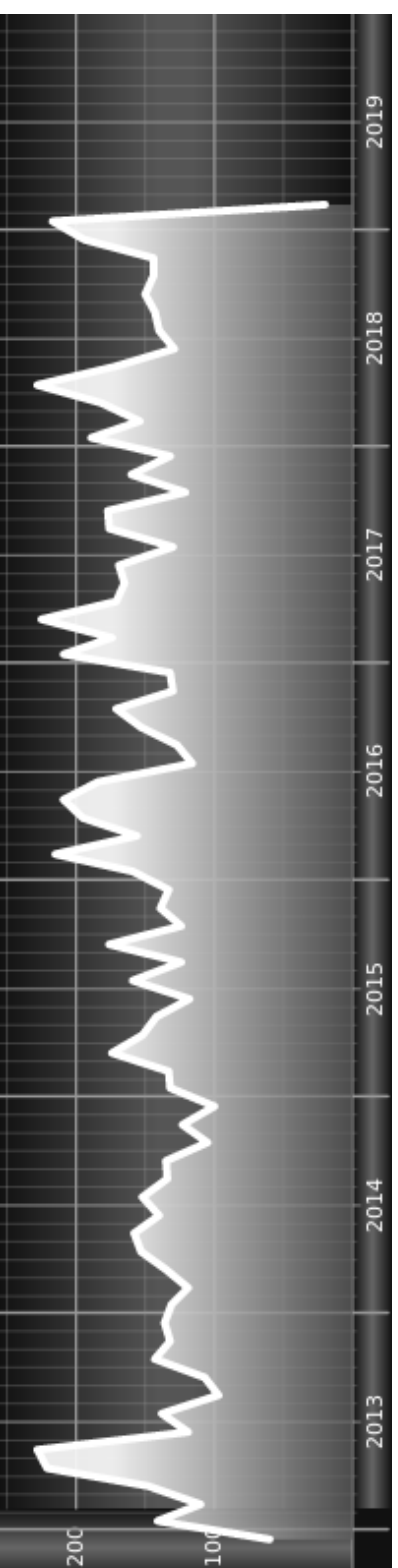


Figure 29: Caption and object in landscape mode. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense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

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.



13 The nonFloat Option

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.

Some nonsense text before the following `\emph{non floating}` object.

```
\hvFloat[%  
  nonFloat,  
  capWidth=0.25,  
  capPos=right,  
  capVPos=bottom,  
  objectPos=center,  
  objectFrame,  
{figure}{\includegraphics[scale=1.5]{images/rose}}%  
  [Nonfloat Captions]{%  
    Caption of a “nonfloat” Object, using the \texttt{nonfloat} Package}{fig:11}
```

Some nonsense text after the preceding `\emph{non floating}` object.

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

Fig. 13

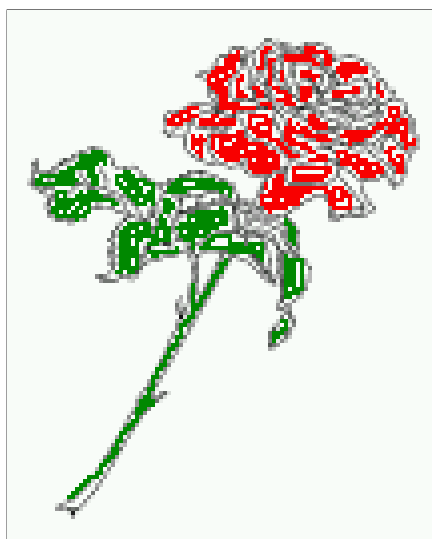


Figure 31: Caption of a “nonfloat” Object, using the nonfloat Package

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

The image 13 is exactly placed where the command `\hvFloat` appears. There are only commands for figure and table environments:

```
\newcommand{\figcaption}{\def\@capytype{figure}\caption}
\newcommand{\tabcaption}{\def\@capytype{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.

```
\savebox{\hv0Box}{%
\begin{tabular}{>{\small\ttfamily}l|l|l}\hline
\rmfamily Name      & Type      & Description\\\hline
\CMD{hvFloat}      & command   & places object and caption in different ways\\
hvFloatEnv         & environment & places object and caption exactly Here\\
\CMD{figcaption}    & command    & writes a figure caption in a non floating environment\\
```

15 Text and objects

```
\CMD{tabcaption} & command & writes a table caption in a non floating environment\\
\CMD{hvFloatSetDefaults} & command & sets all options to the defaults\\\hline
\end{tabular}%
}
```

The code for table 4 and 5 is:

```
\hvFloat[%
floatPos=!hb,
capPos=top,
use0Box=true]{table}{\texttt{use0Box} Parameter}{table:1}

\hvblindtext

\marginnote{Tab.~\ref{table:2}}
\hvFloat[%
floatPos=hb,
use0Box=true,
objectAngle=90,
capPos=right,
capVPos=top,
capWidth=0.3]{table}{\texttt{use0Box} Parameter}{table:2}
```

In this case leave the third parameter empty.

Tab. 4

Table 4: Demonstration of the use0Box Parameter

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:

```
\hvFloat[%
onlyText=true,
capAngle=90,
capPos=right,
capVPos=top,
objectFrame,
capWidth=h]{\includegraphics{images/rose}}%
```

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

```

[''\texttt{onlyText}'' Caption]{%
Demonstration of the \texttt{onlyText} Parameter, which makes it
possible to put some text beside a floating object without getting
a starting \texttt{Figure:} or \texttt{Table:}}{fig:text}

```

Fig. 15



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

16 Environment hvFloatEnv

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

```
\begin{hvFloatEnv}
\captionof{table}{A caption for a nice table}
\begin{tabular}{@{} l c r @{}}\hline
left & center & right \\
L & C & R \\
\end{tabular}
\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.

```
\begin{hvFloatEnv}[0.5\textwidth]
\captionof{table}{A caption for a nice table}
\begin{tabular}{@{} l c r @{}}\hline
left & center & right \\
L & C & R \\
\end{tabular}
\end{hvFloatEnv}
```

Table 7: A caption for a nice table

left	center	right
L	C	R

17 Full page objects in onecolumn mode

For an image or table which needs the whole space of a page the caption can be printed at the bottom of the preceding or following page. It is possible in 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]{%
  \def\Gin@ewidth{\columnwidth}%
  \def\Gin@eheight{\textheight}%
  \Gin@boolkey{false}{iso}%
}

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

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

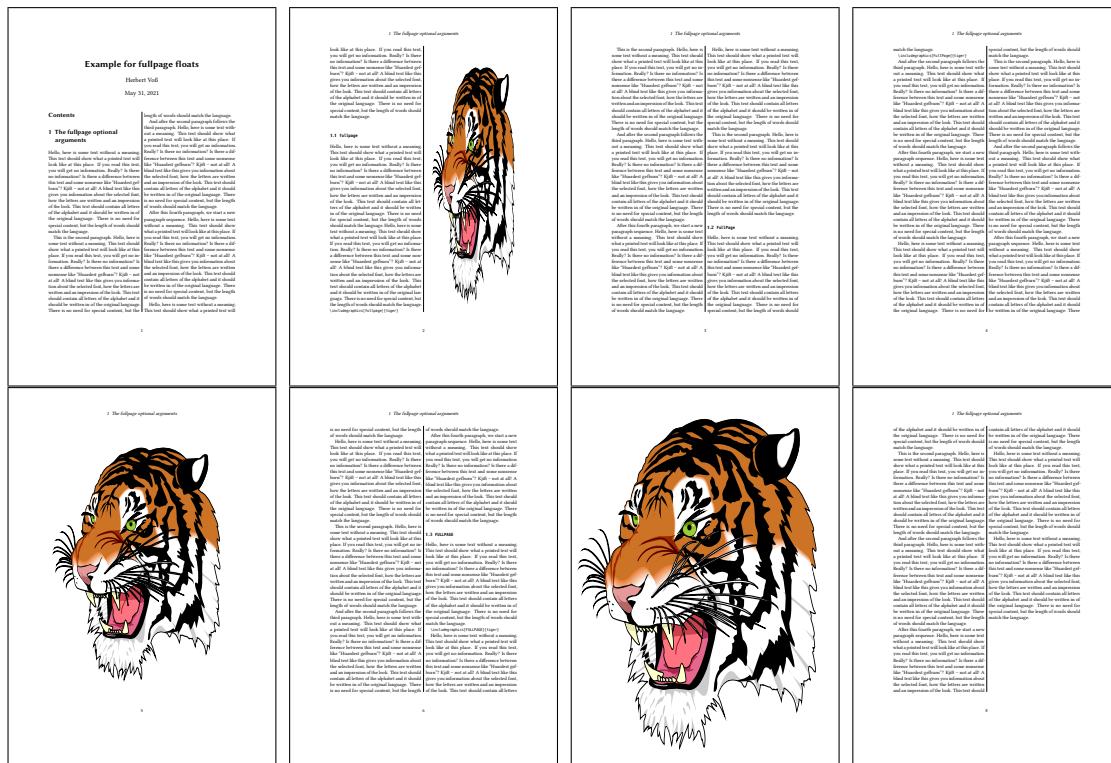


Figure 32: Output of fullpage1s2c (pages 1–8)

17.1 Using the textarea

The setting `capPos=evenPage` (even) or `capPos=oddPage` (odd) page for a document in twocolumn mode makes no real sense. For a twosided document a setting like `capPos=inner` for inner or `capPos=outer` for outer margin makes more sense. For an image or table which needs the whole space of a page the caption can be printed at the bottom of the preceeding or following page. It is possible in onese 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.

```
\hvFloat[fullpage]%
{figure}%
{\includegraphics[fullpage]{images/frose}}%
[A fullpage float with the default caption setting]%
{A default caption of a "fullpage" object with the default setting, which
 is a "left" caption which means that it always appears "before" the object.
 This can be an even or odd page. And some more text which has no
 real meaning because it fills only the space for a long caption.}%
{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 <code>pagestyle</code> is set to empty
multiFloat	true false	For multiple objects with captions for every object. See section 17.3 on page 40.
subFloat	true false	For multiple objects with one main and more subcaptions. See section 18 on page 42.
separatorLine	true	Put a line with a predefined width of 0.4pt between the text and the caption. Only valid for the keyword <code>fullpage</code> .
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 onese 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 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.

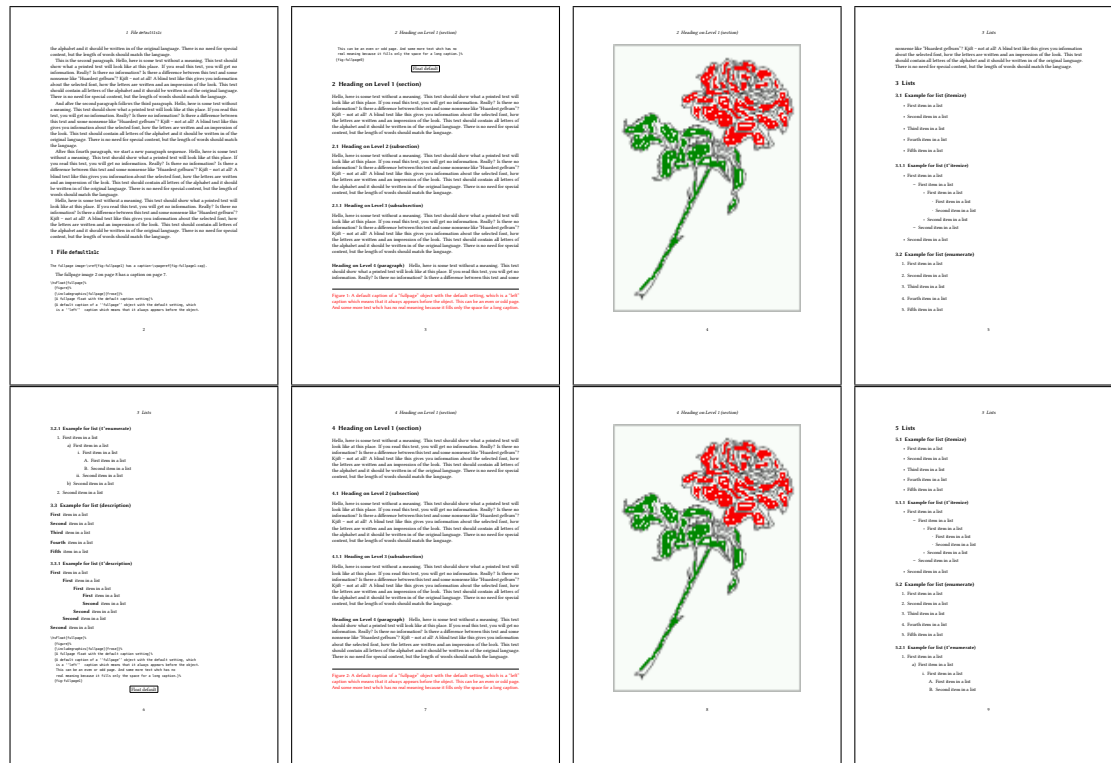


Figure 33: Output of default1s1c (pages 2–9)

17 Full page objects in onecolumn mode

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.

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

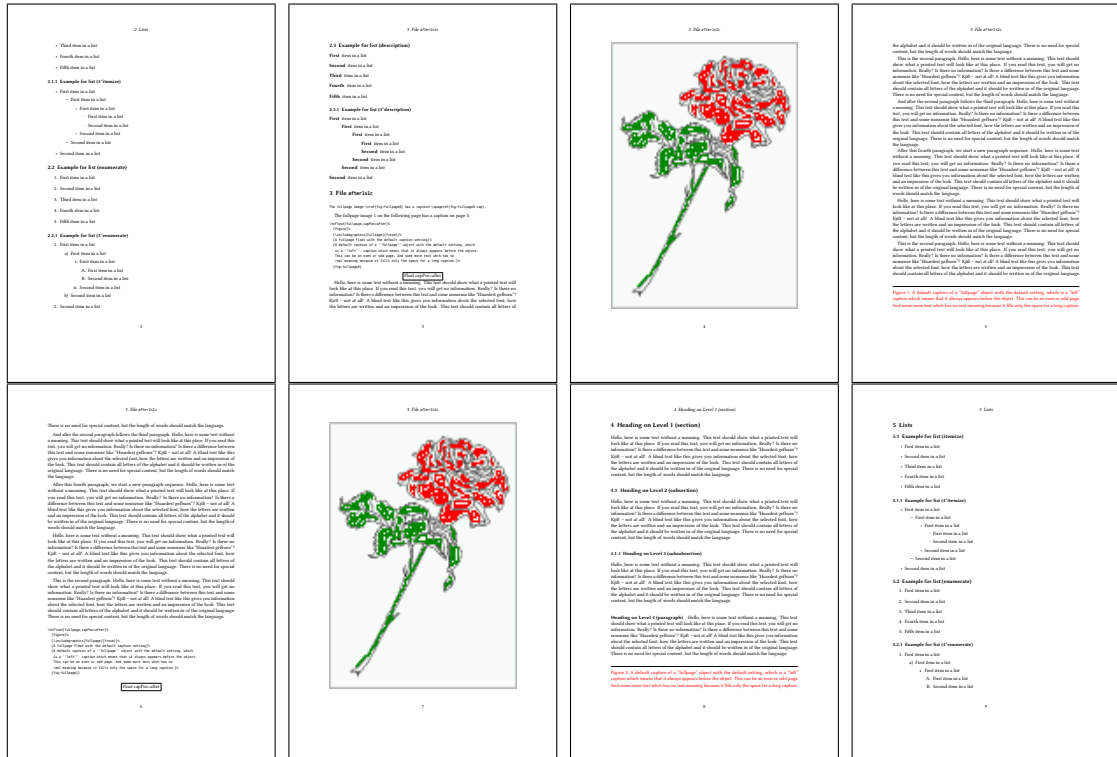


Figure 34: Output of after1s1c (pages 2–9)

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!

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

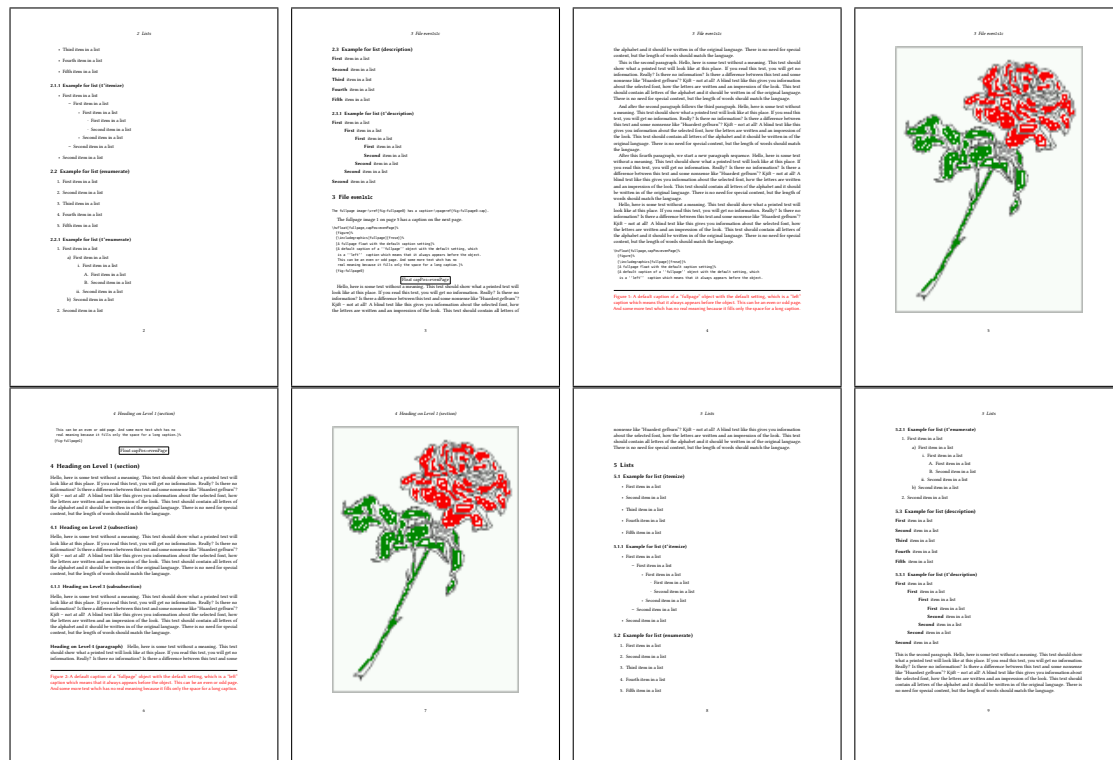


Figure 35: Output of even1s1c (pages 2–9)

17 Full page objects in onecolumn mode

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.

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

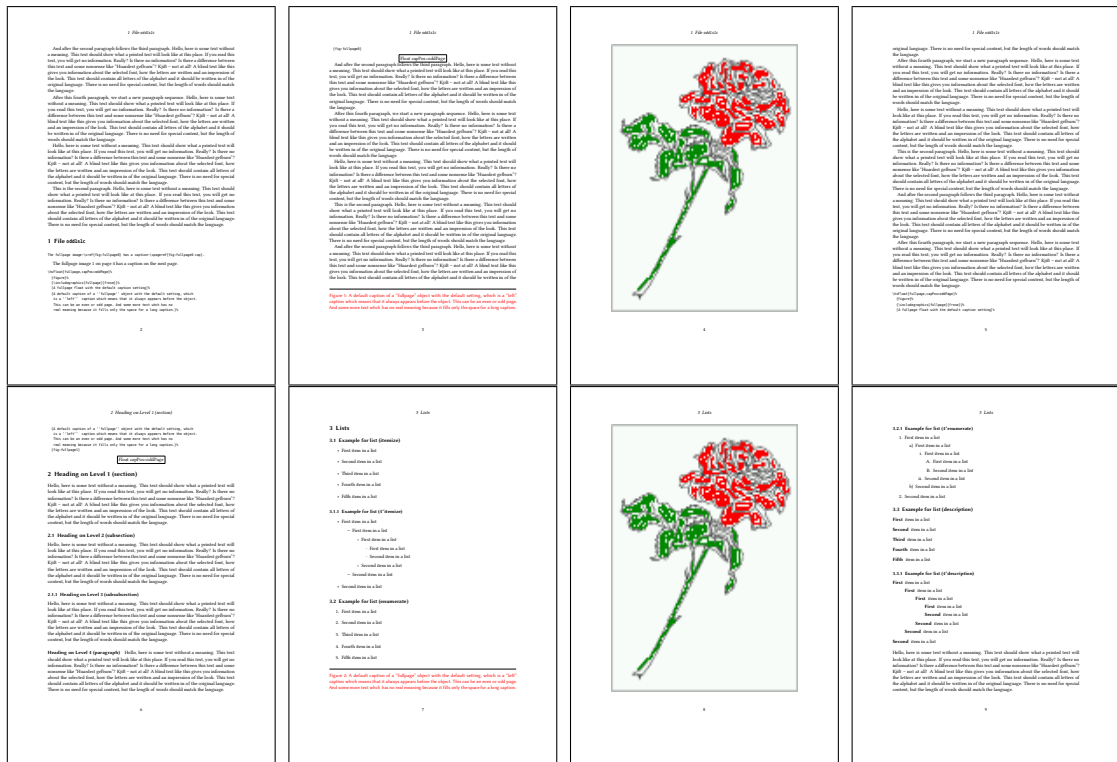


Figure 36: Output of odd1s1c (pages 2–9)

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!

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

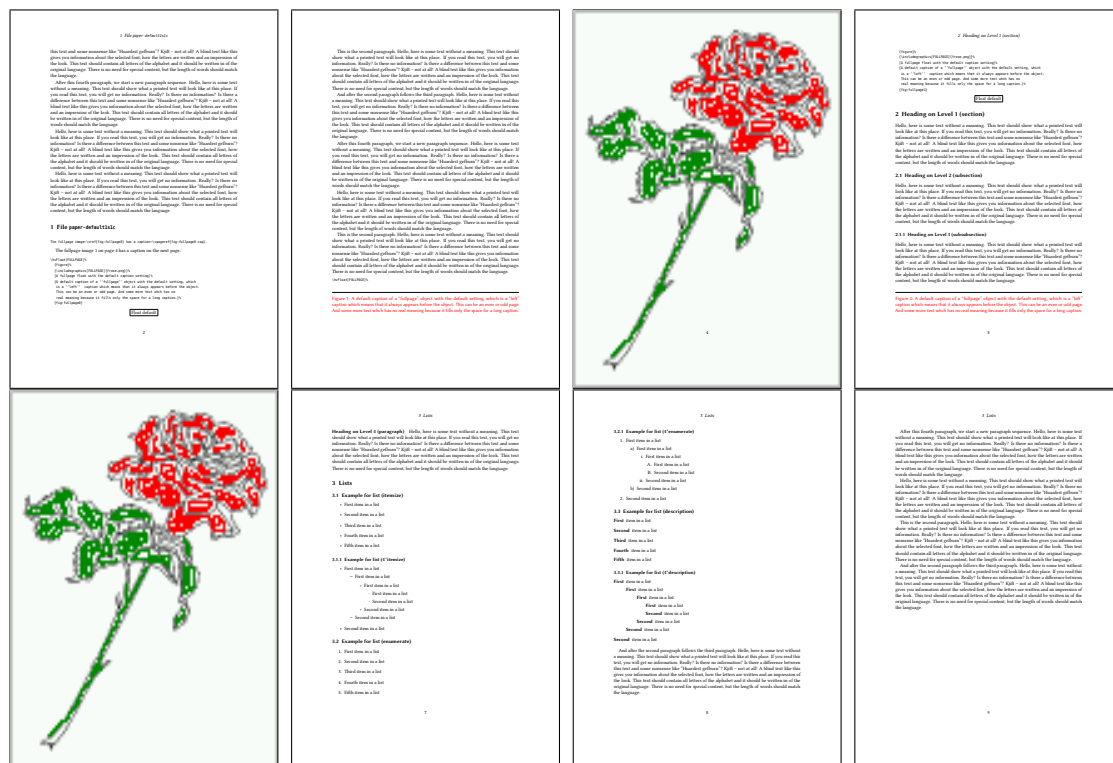


Figure 37: Output of paper-default1s1c (pages 2–9)

1. Page header effects:

Shades and some annotations like “Shades please!” “Right” and all of A. Should not be taken into consideration when the algorithm has to look for the minimum cost of the original language. There is no need for special control, but the length of words should match the language.

Shades have a same cost without a meaning. They should show what a printed text will look like at this place. If you read this text you will get no information. Really? It is more an information about the situation. There is a difference between this text and some annotations like “Shades please!” “Right” and all of A. Should not be taken into consideration when the algorithm has to look for the minimum cost of the original language. There is no need for special control, but the length of words should match the language.

Shades have a same cost without a meaning. They should show what a printed text will look like at this place. If you read this text you will get no information. Really? It is more an information about the situation. There is a difference between this text and some annotations like “Shades please!” “Right” and all of A. Should not be taken into consideration when the algorithm has to look for the minimum cost of the original language. There is no need for special control, but the length of words should match the language.

Shades have a same cost without a meaning. They should show what a printed text will look like at this place. If you read this text you will get no information. Really? It is more an information about the situation. There is a difference between this text and some annotations like “Shades please!” “Right” and all of A. Should not be taken into consideration when the algorithm has to look for the minimum cost of the original language. There is no need for special control, but the length of words should match the language.

1. Page header effects:

The original image is the following page that is captured as a page.

Shades have a same cost without a meaning. They should show what a printed text will look like at this place. If you read this text you will get no information. Really? It is more an information about the situation. There is a difference between this text and some annotations like “Shades please!” “Right” and all of A. Should not be taken into consideration when the algorithm has to look for the minimum cost of the original language. There is no need for special control, but the length of words should match the language.

1. Page header effects:

The original image is the following page that is captured as a page.

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Shades have a same cost without a meaning. They should show what a printed text will look like at this place. If you read this text you will get no information. Really? It is more an information about the situation. There is a difference between this text and some annotations like “Shades please!” “Right” and all of A. Should not be taken into consideration when the algorithm has to look for the minimum cost of the original language. There is no need for special control, but the length of words should match the language.

2. Lists

2.1. Example for List (Items):

- First item is a list
- Second item is a list
- Third item is a list
- Fourth item is a list
- Fifth item is a list

2.2. Example for List (Items):

- First item is a list
- Second item is a list
- Third item is a list
- Fourth item is a list
- Fifth item is a list

2.3. Example for List (Items):

- First item is a list
- Second item is a list
- Third item is a list
- Fourth item is a list
- Fifth item is a list

2. Lists

2.1. Example for List (Items):

- First item is a list
- Second item is a list
- Third item is a list
- Fourth item is a list
- Fifth item is a list

2.2. Example for List (Items):

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2.3. Example for List (Items):

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2. Lists

2.1. Example for List (Items):

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- Fourth item is a list
- Fifth item is a list

2.2. Example for List (Items):

- First item is a list
- Second item is a list
- Third item is a list
- Fourth item is a list
- Fifth item is a list

2.3. Example for List (Items):

- First item is a list
- Second item is a list
- Third item is a list
- Fourth item is a list
- Fifth item is a list

9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 10

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

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:

40

```

real meaning because it fills only the space for a long caption.}%
%
+{table}{\begin{tabular}{lrcp{3cm}}\hline
                                % no 2
                                Linksbündig & Rechtsbündig & Zentriert & Parbox\\\hline
                                L          & R          & C          & P\\\hline
                                left       & right      & center     & Text with possible linebreaks\\
                                \multicolumn{4}{c}{Multicolumn over all columns}\\\hline
                                \end{tabular}}%
[Short Caption B]%
{A Caption B of a "fullpage" object, which follows on the left or
right column. This can be an even or odd page.}%%
+{figure}{\includegraphics[width=\linewidth]{images/CTAN}}}% no 3
{A Caption C of a "fullpage" object, which follows on the left or
right column.}%

+{figure}{\includegraphics[width=\linewidth]{images/CTAN}}}% no 4
{A Caption C of a "fullpage" object, which follows on the left or
right column.}%


```

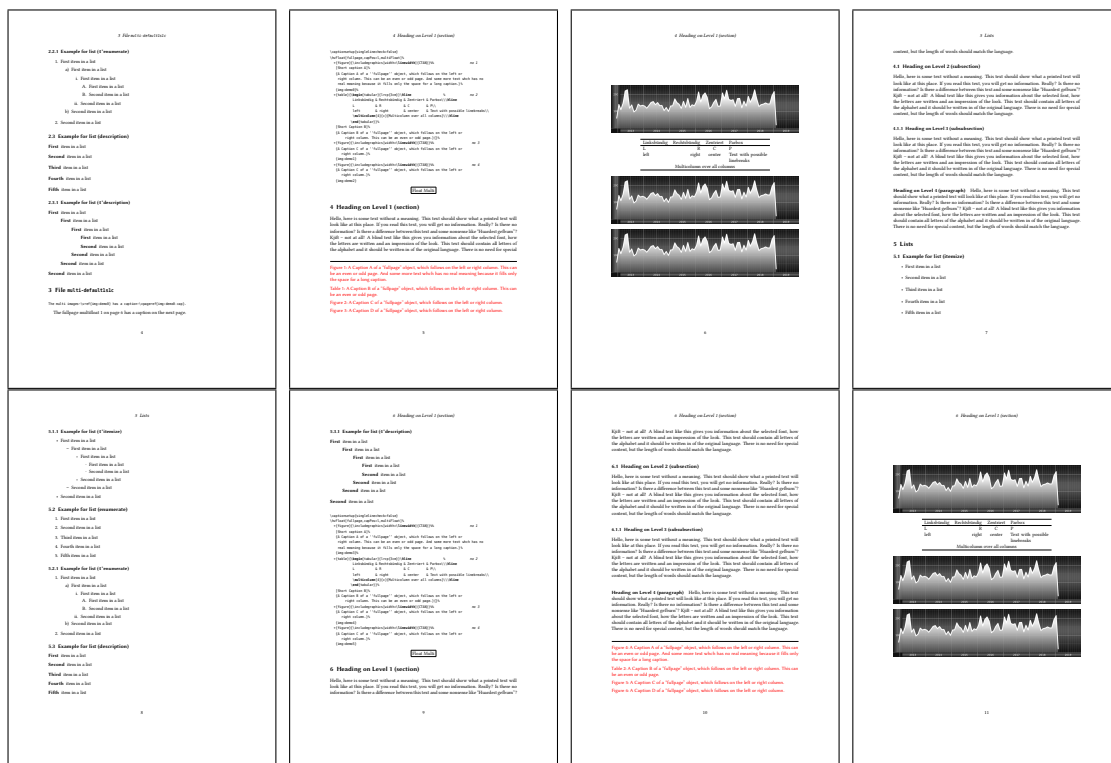


Figure 39: Output of multi-default1s1c (pages 4–11)

The page with the objects has no additional informations it holds only the figures and/or

18 Subfloat page

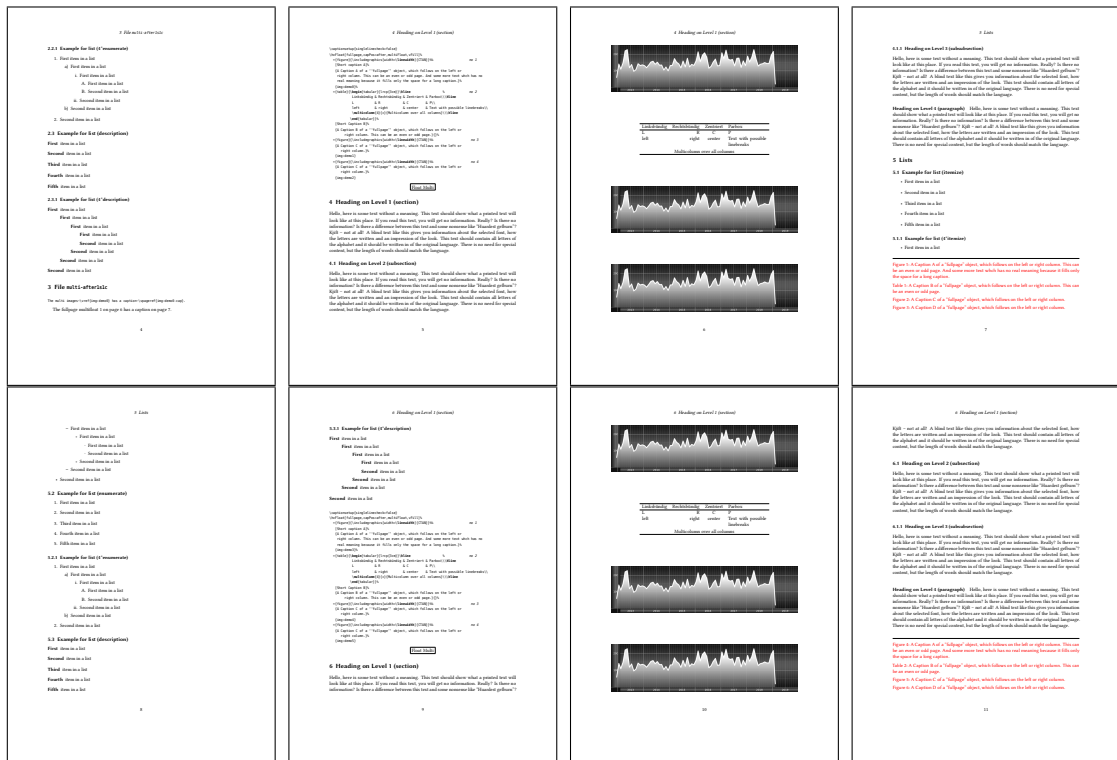


Figure 40: Output of multi-after1slc (pages 4–11)

tabulars. If you want it like subfigures or subtabulars then go to section 18. The setting `\captionsetup{singlelinecheck=false}` is needed if you want the captions always left aligned.

18 Subfloat page

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

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

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

```
\hvFloat[fullpage,capPos=before,objectFrame,subFloat,vFill]%
+{figure}{}[Short main caption of the objects]% main short lsi entry
{The main caption of a "fullpage" object, which follows on the left or
```

right column. This can be an even or odd page. And some more text which has no real meaning because it fills only the space for a long caption.}% main caption

```
{sub:demo0}%
+{{\includegraphics[width=\linewidth]{images/CTAN}}}%
[Short caption B]%
{A Caption B of a "fullpage" sub object.}% subcaption
}%
+{{\includegraphics[width=\linewidth]{images/CTAN}}}%
{A Caption C of a "fullpage" object, which follows on the left or right column.}%
{sub:demo1}
+{{\includegraphics[width=\linewidth]{images/CTAN}}}%
{A Caption D of a "fullpage" object}{sub:demo2}
+{{\includegraphics[width=\linewidth]{images/CTAN}}}%
{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].

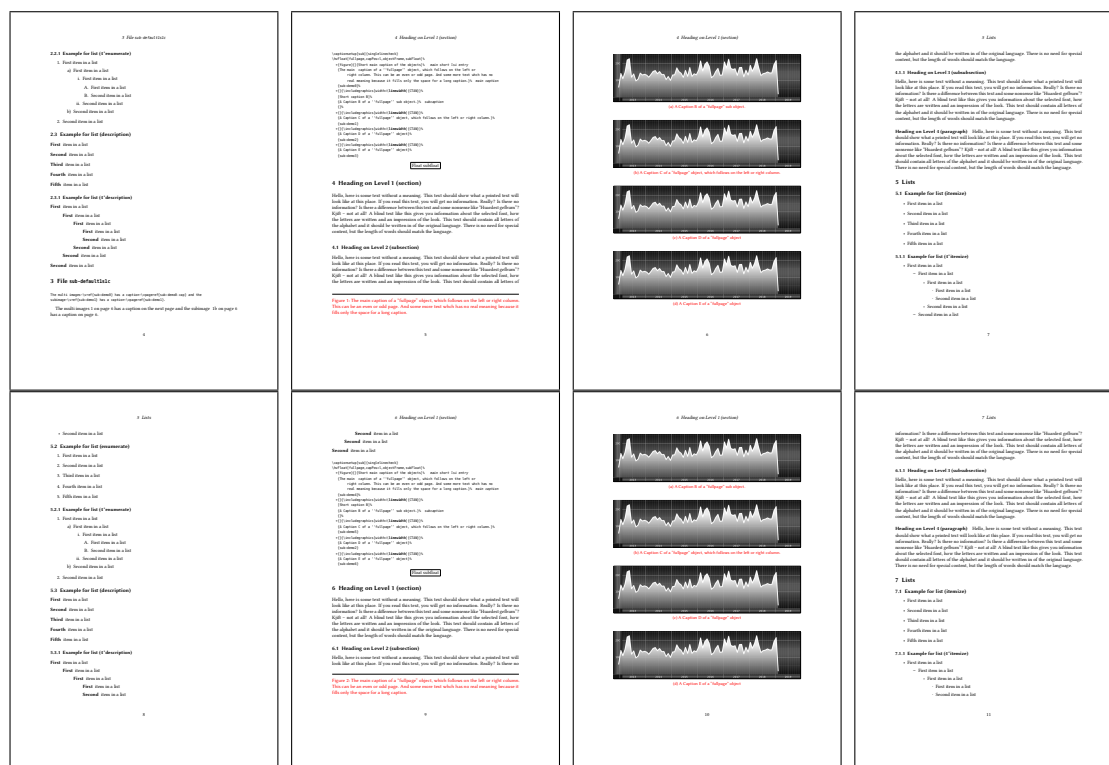


Figure 41: Output of sub-default1s1c (pages 4–11)

19 Full page objects in twocolumn mode

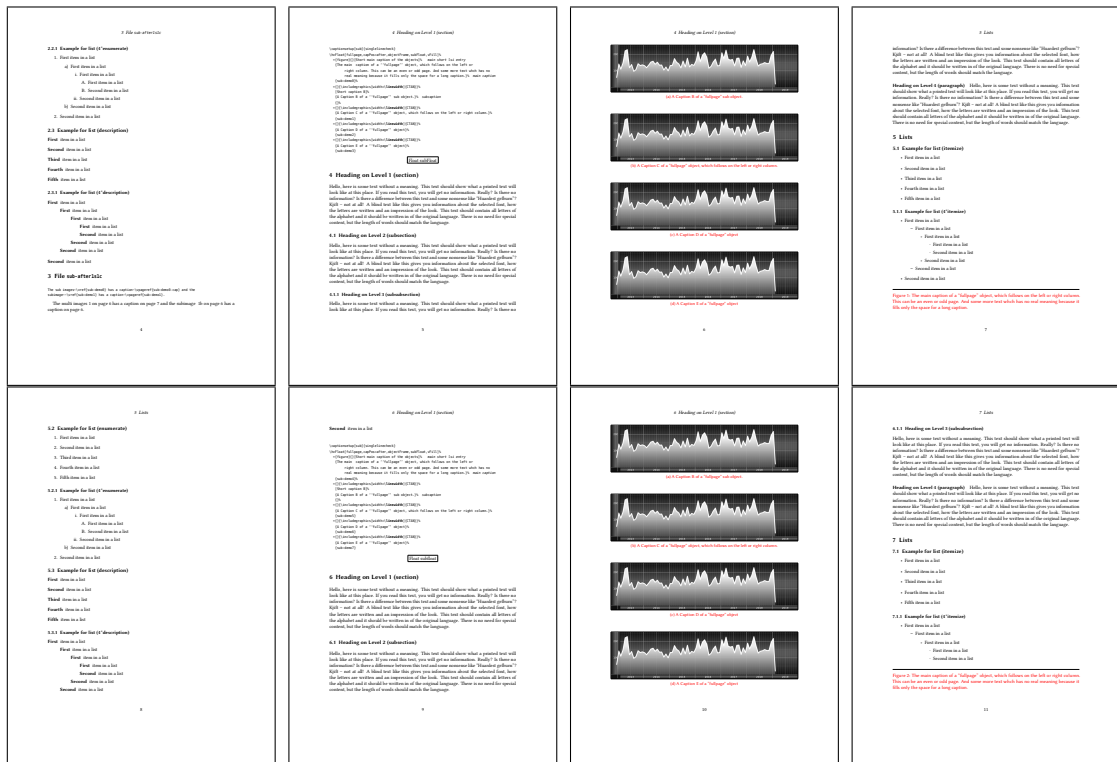


Figure 42: Output of sub-after1s1c (pages 4–11)

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 34 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 on the facing page).

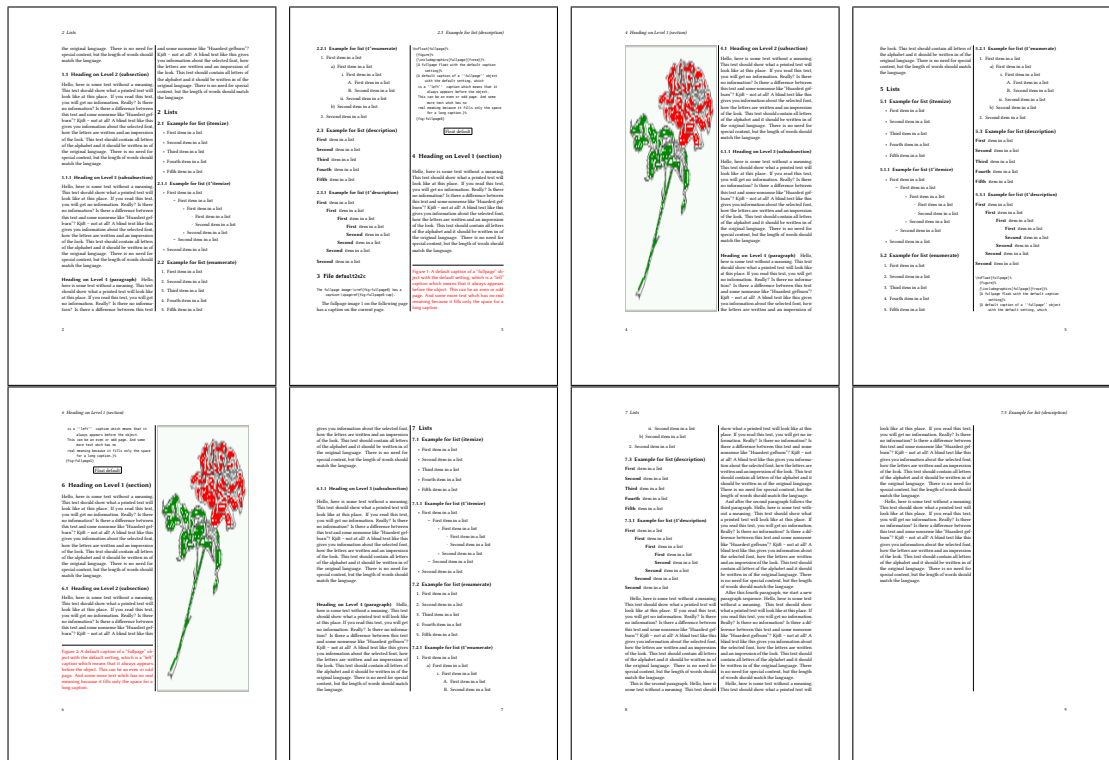


Figure 43: Output of default2s2c (pages 2–9)

```
\hvFloat[fullpage]{figure}%
{\includegraphics[width=\columnwidth,height=0.9\textheight]{images/rose}}%
[A float which needs the complete column width and height.]%
{A Caption of a "fullpage" object, which follows on the next column.
This is always the right column on an even or odd page. And some more
text which has no real meaning because it fills only the space for a long
caption.}%
{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 object, but always on the *same page* (see Figure 44 on the following page).

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 page 48)

```
\hvFloat[fullpage, capPos=after]{figure}%
{\includegraphics[fullpage]{images/rose}}%
```

19 Full page objects in twocolumn mode

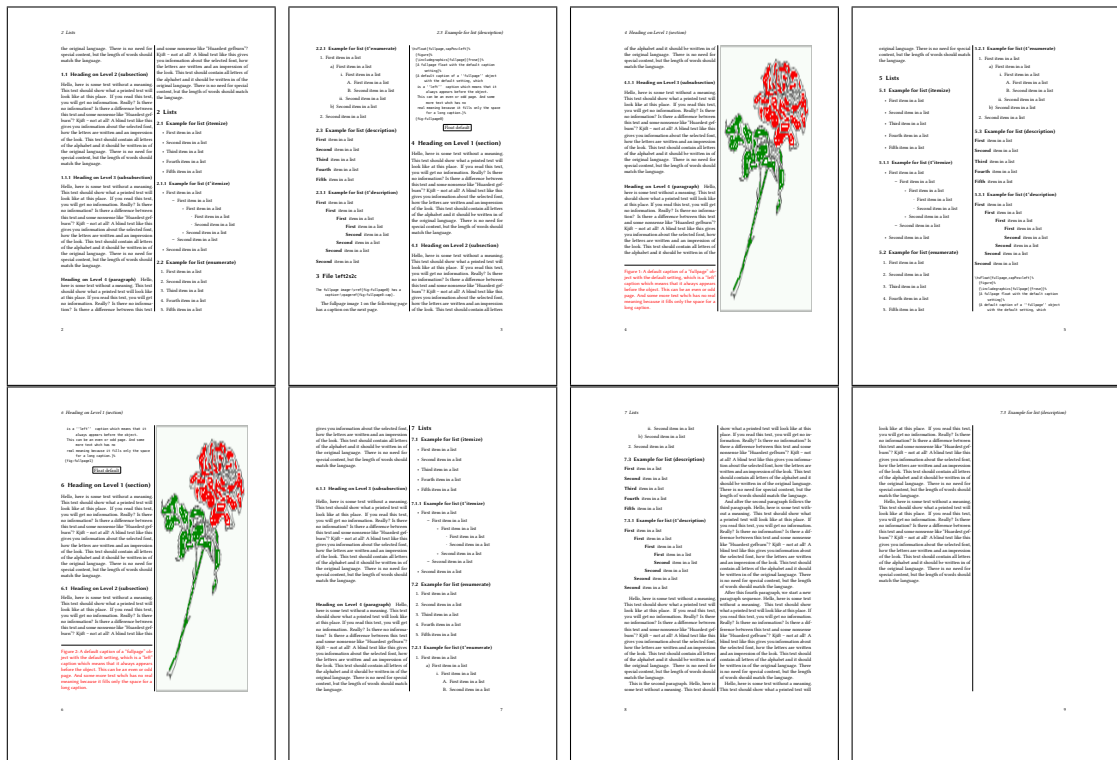


Figure 44: Output of left2s2c (pages 2–9)

[A float which needs the complete column width and height.]%
 {A Caption of a “fullpage” object, which is on the left column.
 This is always the right column on an even or odd page. And some more
 text which has no real meaning because it fills only the space for a long
 caption.}%
 {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.

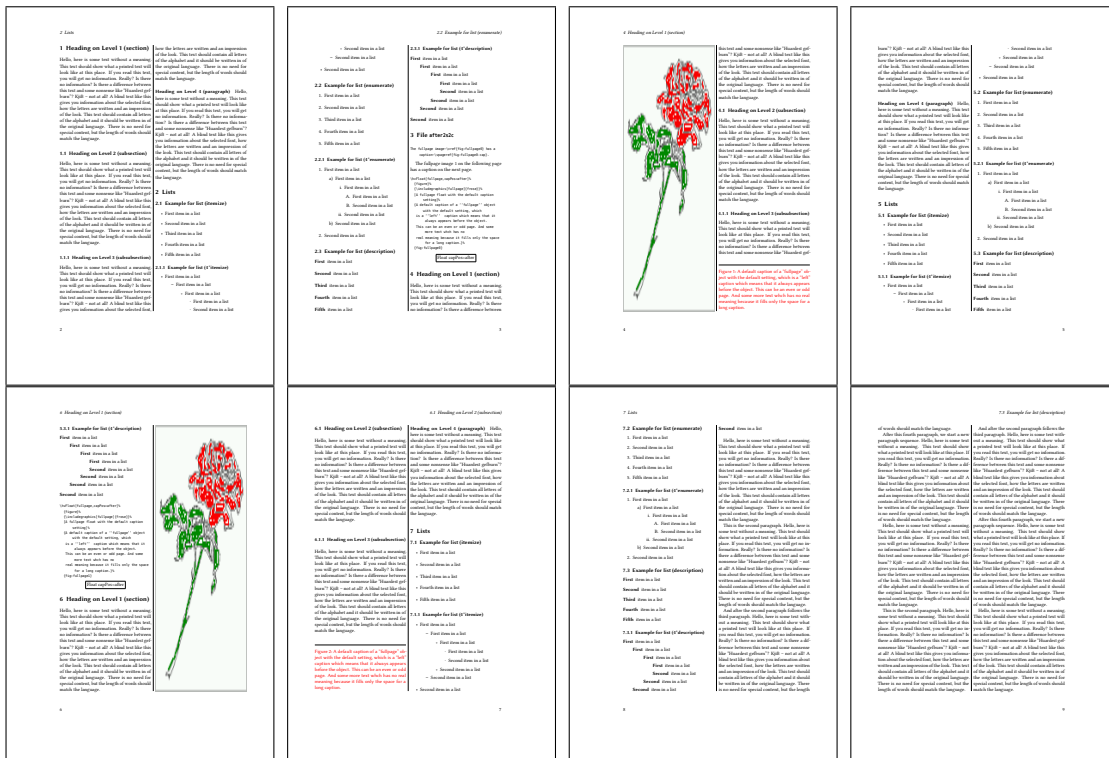


Figure 45: Output of after2s2c (pages 2–9)

19 Full page objects in twocolumn mode

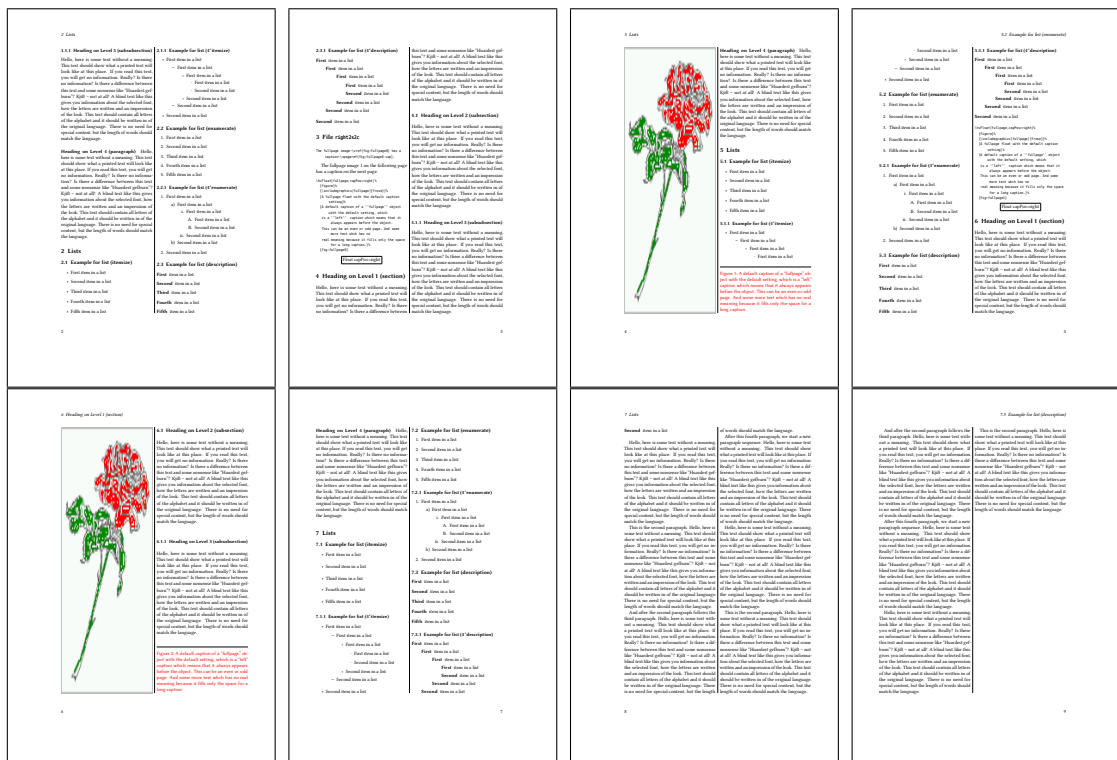


Figure 46: Output of right2s2c (pages 2–9)

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`.

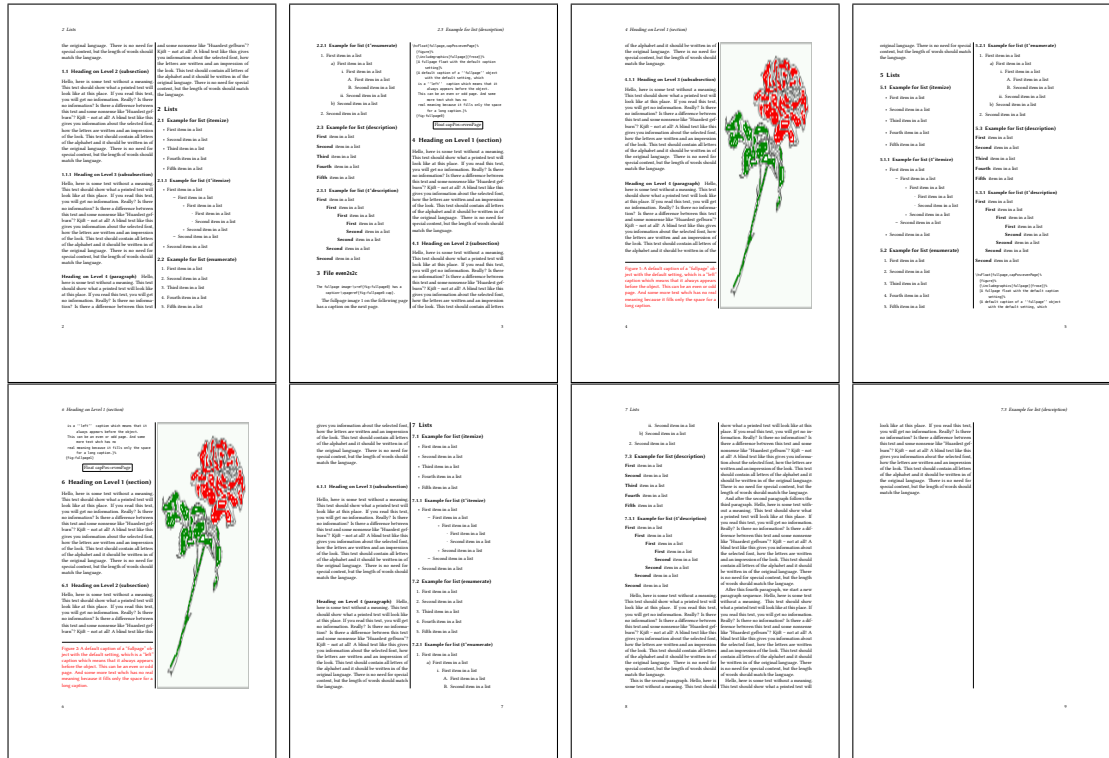


Figure 47: Output of even2s2c (pages 2–9)

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 `hvf`.

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

19.1.4 Using capPos=inner — caption in the inner column

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

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

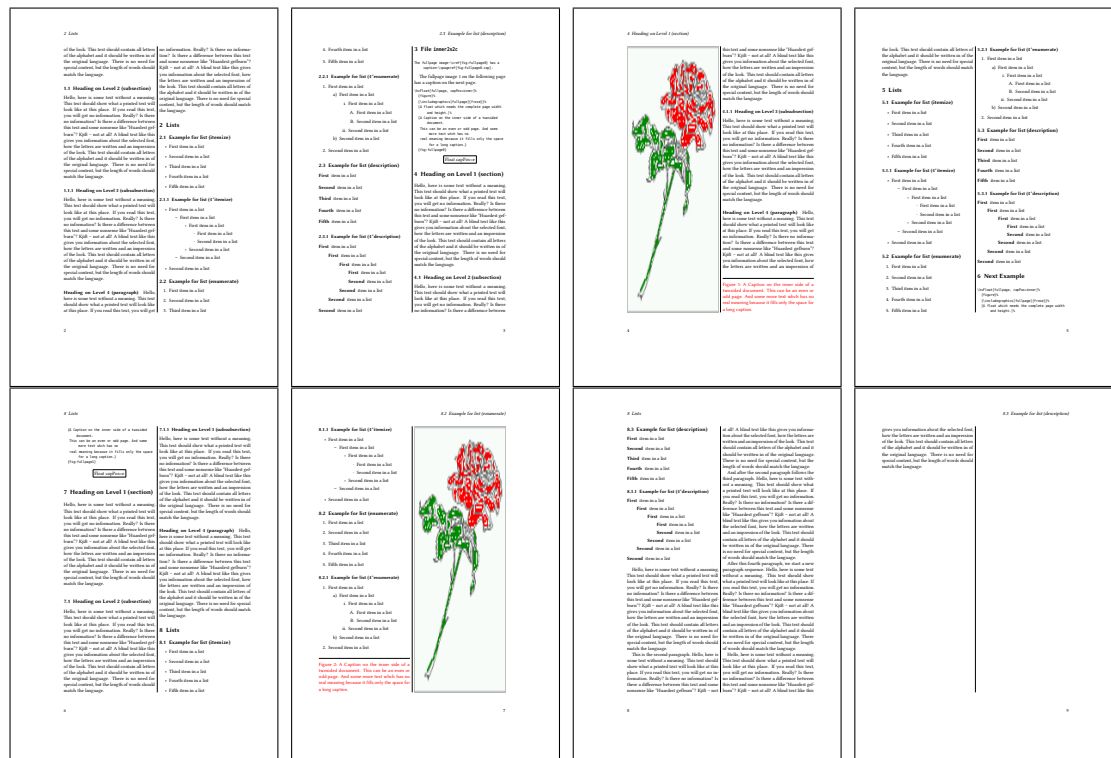


Figure 49: Output of inner2s2c (pages 2–9)

19 Full page objects in twocolumn mode

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.

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

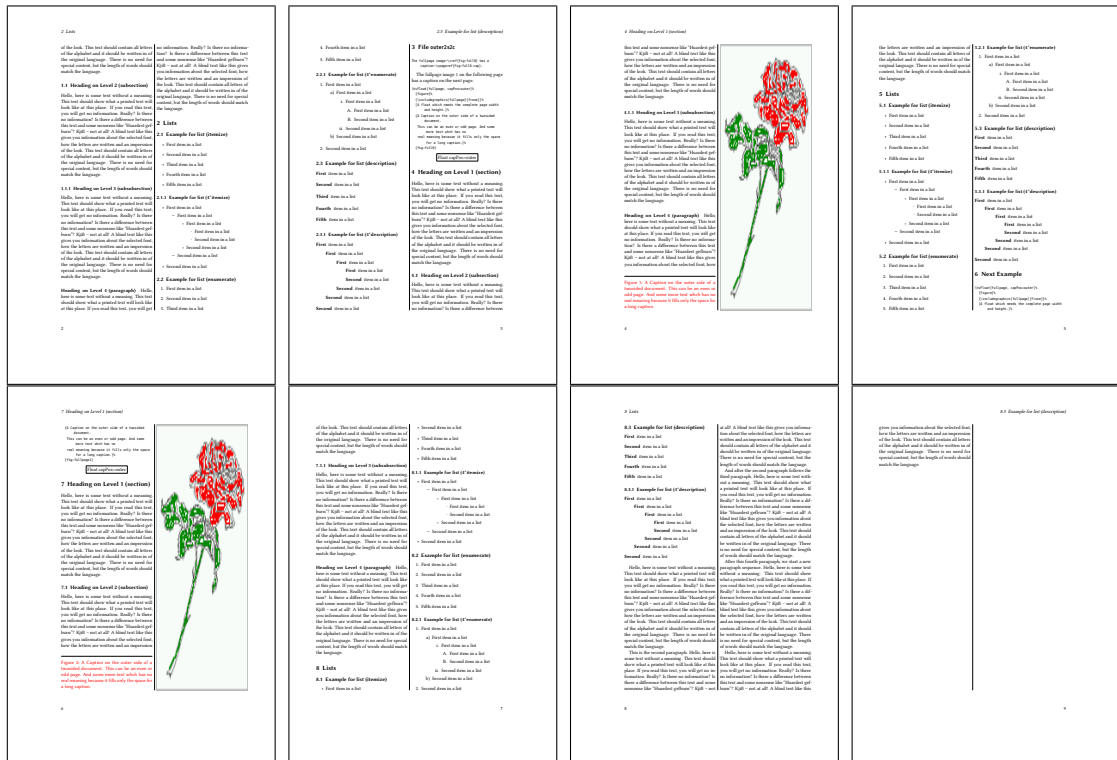


Figure 50: Output of outer2s2c (pages 2–9)

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*.

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

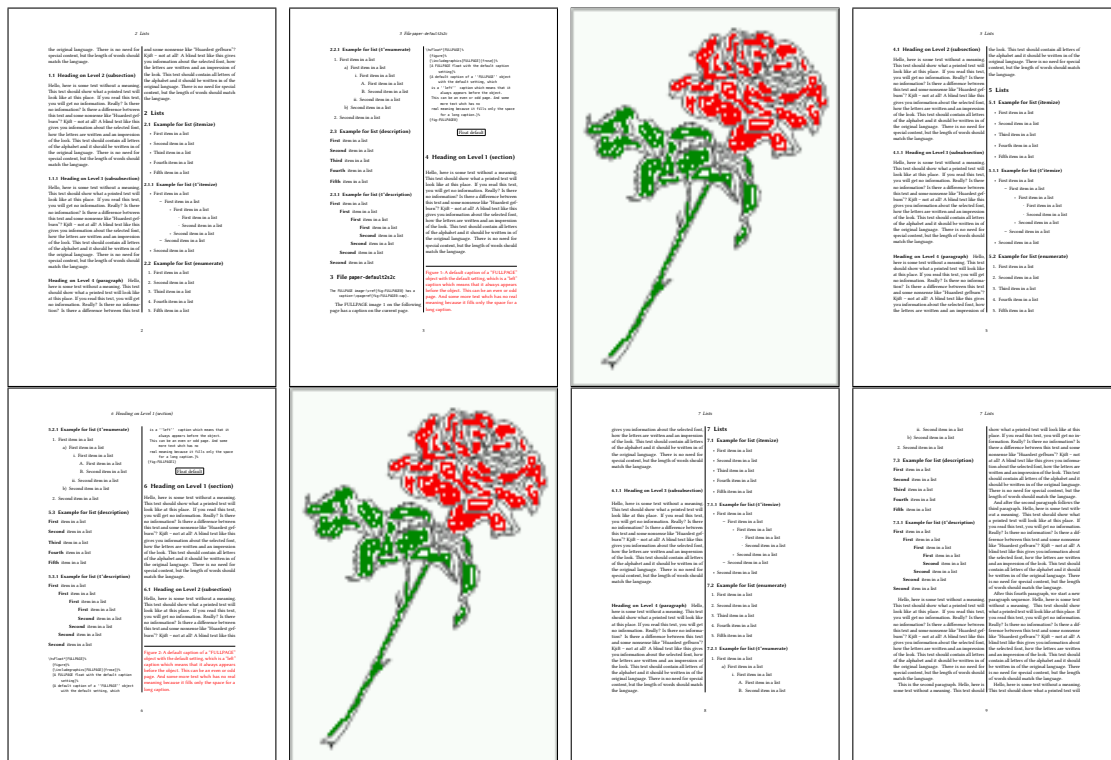


Figure 51: Output of paper-default2s2c (pages 2–9)

[illegible]

9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 10

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:

54

```

\end{tabular}}%
[Short Caption B]%
{A Caption B of a “fullpage” object, which follows on the left or
right column. This can be an even or odd page.}%
}%
+{figure}{\includegraphics[height=0.4\textheight]{images/rose}}%% no 3
{A Caption C of a “fullpage” object, which follows on the left or
right column.}%
{multi:demol}

```

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 42. The setting `\captionsetup{singlelinecheck=false}` is needed if you want the captions always left aligned.

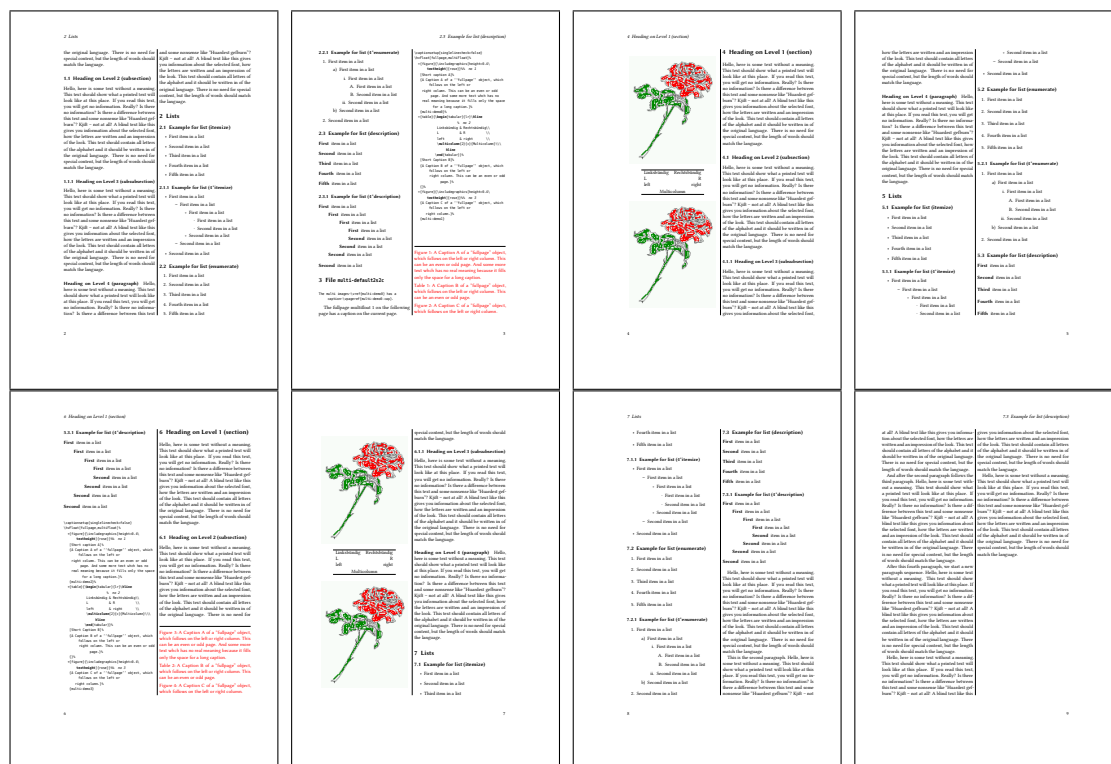


Figure 53: Output of multi-default2s2c (pages 2-9)

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.

20 Subfloat page

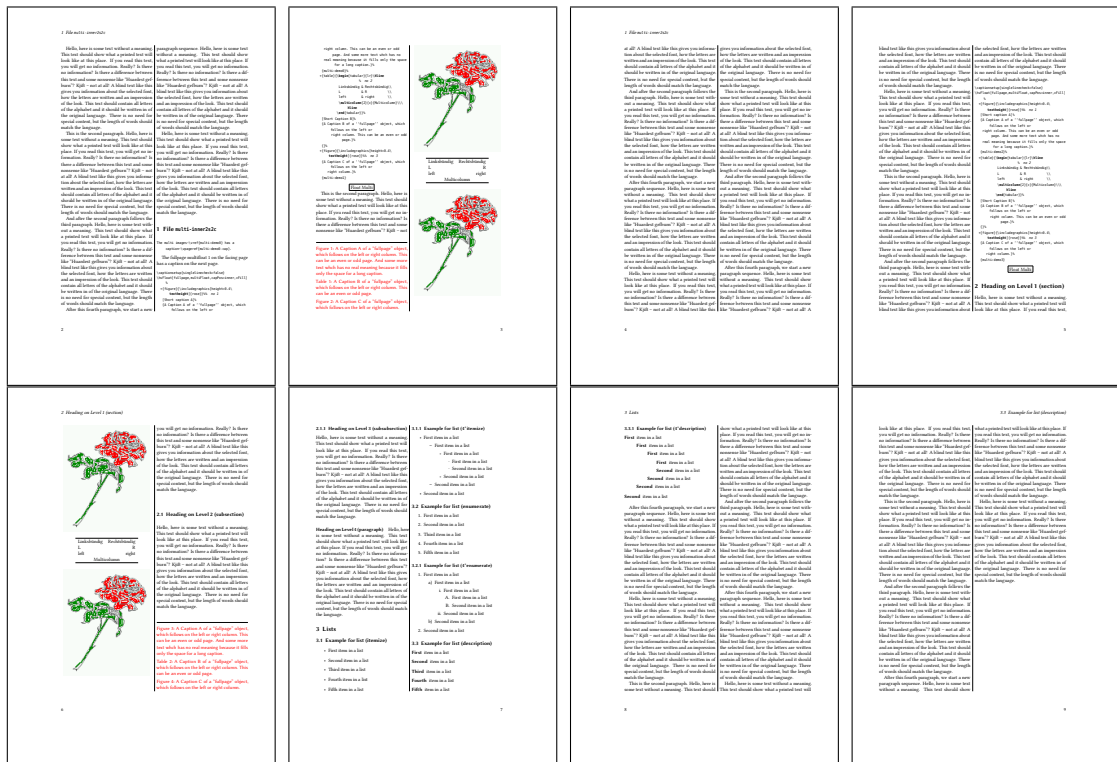


Figure 54: Output of multi-inner2s2c (pages 2-9)

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

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).

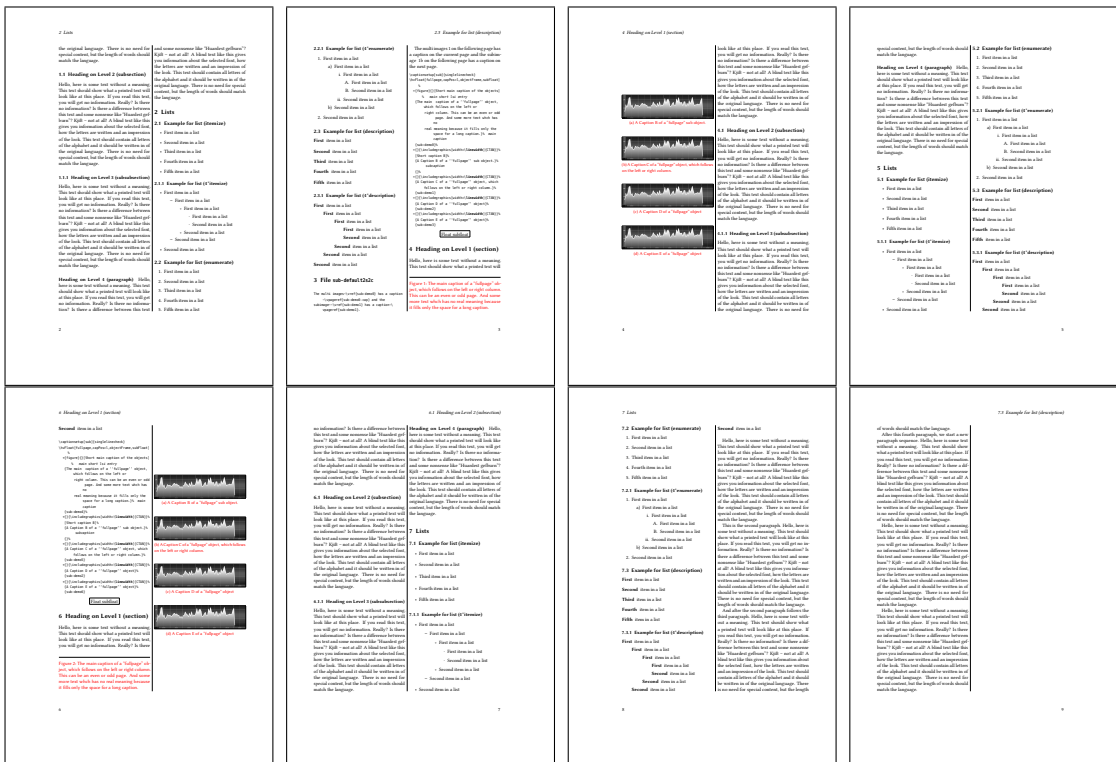


Figure 55: Output of sub-default2s2c (pages 2–9)

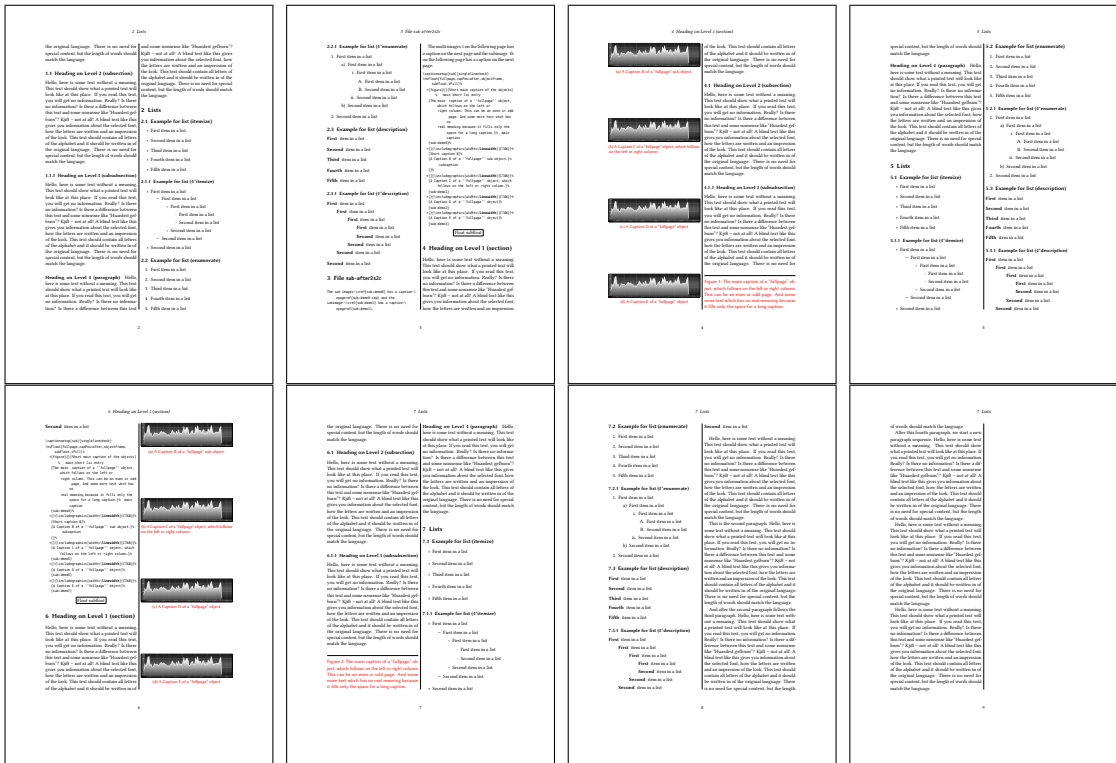


Figure 56: Output of sub-after2s2c (pages 2–9)

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.

```
\hvFloat[doubleFULLPAGE,capPos=right,capAngle=90]%
{figure}%
{\includegraphics[angle=90,width=2\paperwidth]{images/r+j}}%
[A doublepage image with a caption on the image.]%
{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 \texttt{doubleFULLPAGE}}%
{fig:doubleFULLPAGE0}
```

Fig. 57 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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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

21 Doublepage objects – images and/or tabulars

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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.

```
\hvFloat[doubleFULLPAGE,capPos=right,bindCorr=5mm]%
{figure}%
{\includegraphics[angle=90,width=2\paperwidth]{images/r+j}}%
[A doublepage image with a caption on the image.]%
{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 \texttt{doubleFULLPAGE}}%
{fig:doubleFULLPAGE0a}
```

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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Fig. 58





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

21 Doublepage objects – images and/or tabulars

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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 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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```
\hvFloat[doubleFULLPAGE,capPos=right]%
{figure}%
{\includegraphics[height=\paperheight]{images/rheinsberg}}%
{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 \texttt{doubleFULLPAGE}}%
{fig:doubleFULLPAGE1}
```

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. 59

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





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

21 Doublepage objects – images and/or tabulars

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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 74, the left image part on page 72 and the right part on page 73. In the follwoing example 61 the caption is on page 75, the left image part on page 76 and the right part on page 77. 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} → 72 | 74 | 73

\hvFloat[doubleFULLPAGE,capPos=after]%
{figure}%
{\includegraphics[doubleFULLPAGE,
  keepaspectratio=false]{images/rheinsberg}}%
{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 \texttt{doubleFULLPAGE}}%
{foo}
```

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Fig. 60





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Figure 60: 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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```
\hvFloat[doubleFULLPAGE,capPos=before]%
{figure}%
{\includegraphics[height=\paperheight,width=2\paperwidth,
  keepaspectratio=false]{images/rheinsberg}}%
{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 \texttt{doubleFULLPAGE}}%
{bar}
```

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Fig. 61

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





21 Doublepage objects – images and/or tabulars

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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.

```
\hvFloat[doublePAGE]%
{figure}%
{\includegraphics[width=\dimexpr2\textwidth+2in]{images/seiser}}%
[A doublepage image with a caption below the right part.]%
{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 \texttt{doublePAGE}}%
{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

21 Doublepage objects – images and/or tabulars

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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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.

```
\hvFloat[doublePage,capWidth=n,capPos=right]%
{figure}%
{\includegraphics[width=2\textwidth]{images/sonne-meer}}%
[A doublepage image with a caption on the right side of the right part.]%
{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 \texttt{doublePage}}%
{fig:doublePage0}
```

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

Fig. 63



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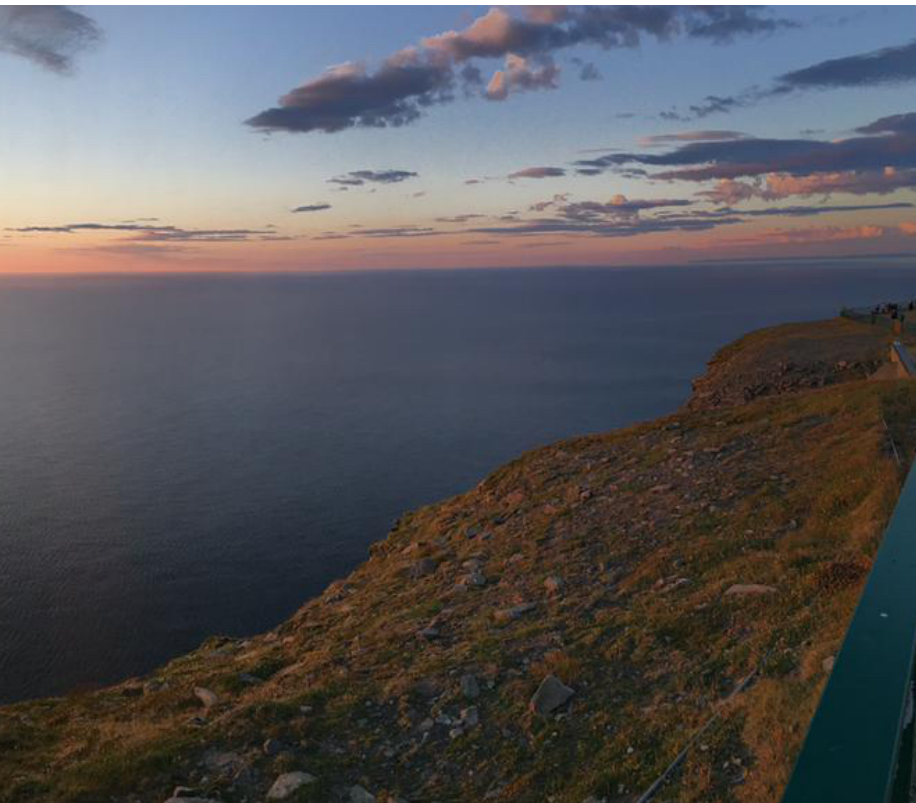


Figure 63: A caption for a double-sided image that will be placed on the right side of the right-hand part of the illustration. The illustration begins on the left edge of the paper. A short form is used for the LOF. The parameter is doublePage

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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21 Doublepage objects – images and/or tabulars

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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 column.

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

```
\global\savebox\hv0Box{%
\begin{tabular}{l*{18}r} \toprule
& \textbf{1972} & \textbf{1973} & \textbf{1974} & \textbf{1975} & \textbf{1976}
& \textbf{1977} & \textbf{1978} & \textbf{1979} & \textbf{1980} & \textbf{1981} & \textbf{1982} & \textbf{1983} & \textbf{1984} & \textbf{1985}
& \textbf{1986} & \textbf{1987} & \textbf{1988} & \textbf{1989}
\\ \midrule
\addlinespace[3pt]
Zeile 1 & 1 & 1 & 3 & 1 & 1 & 1 & 0 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 20 & 0 & 2 & 2 & 2 & 1 \\ \addlinespace[3pt]
Zeile 2 & 1 & 1 & 3 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 1 & 3 & 4 & 4 & 6 & 4 & 2 \\ \addlinespace[3pt]
Zeile 3 & 2 & 1 & 2 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 5 & 3 & 1 & 7 & 7 & 3 \\ \addlinespace[3pt]
Zeile 4 & 1 & 0 & 5 & 1 & 2 & 0 & 0 & 0 & 0 & 0 & 2 & 1 & 0 & 1 & 0 & 3 & 7 & 2 & 1 \\ \addlinespace[3pt]
Zeile 6 & 2 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 2 & 0 & 5 & 2 & 2 & 5 & 4 & 2 \\ \addlinespace[3pt]
Zeile 5 & 0 & 0 & 4 & 2 & 1 & 2 & 2 & 1 & 0 & 0 & 0 & 1 & 1 & 0 & 2 & 5 & 4 & 3 \\ \addlinespace[3pt]
Zeile 8 & 0 & 1 & 1 & 0 & 0 & 0 & 0 & 1 & 1 & 0 & 3 & 2 & 1 & 2 & 1 & 3 & 5 & 3 & 4 \\ \addlinespace[3pt]
Zeile 9 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 2 & 1 & 0 & 0 & 0 & 0 & 4 & 2 & 1 & 4 & 5 & 2 \\ \addlinespace[3pt]
Zeile10 & 0 & 1 & 3 & 0 & 1 & 0 & 1 & 0 & 0 & 0 & 1 & 1 & 0 & 1 & 1 & 1 & 4 & 4 & 1 \\ \addlinespace[3pt]
Zeile11 & 0 & 2 & 2 & 1 & 1 & 0 & 1 & 0 & 0 & 0 & 0 & 2 & 6 & 1 & 0 & 2 & 1 & 1 \\ \addlinespace[3pt]
Zeile12 & 2 & 0 & 2 & 4 & 1 & 0 & 4 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 3 \\ \addlinespace[3pt]
Lärm & 2 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 2 & 0 & 0 & 2 & 2 & 2 \\ \addlinespace[3pt]
Zeile13 & 0 & 1 & 0 & 0 & 1 & 0 & 3 & 0 & 0 & 0 & 0 & 2 & 0 & 1 & 3 & 0 & 2 \\ \addlinespace[3pt]
Zeile14 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 3 & 2 & 1 & 1 & 0 \\ \addlinespace[3pt]
Zeile15 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 4 & 0 & 0 & 3 & 1 & 1 \\ \addlinespace[3pt]
Zeile16 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 5 & 0 & 1 \\ \addlinespace[3pt] \midrule
Artikel gesamt & 2 & 6 & 13 & 8 & 4 & 3 & 5 & 4 & 0 & 6 & 3 & 5 & 23 & 10 & 8 & 15 & 13 & 1 \\
\\ \bottomrule
\end{tabular}}
```

\Blindtext

```
\hvFloat[doublePage,capWidth=n,capPos=right,capVPos=top]%
{table}%
{\usebox\hv0Box}%%%%%%%%%%
[A doublepage tabular with a caption on the right side of the right part.]%
[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 \texttt{doublePage}}%
{tab:doublePage3}
```

Tab. 9

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

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

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1984	1985	1986	1987	1988	1989
20	0	2	2	2	1
3	4	4	6	4	2
5	3	1	7	7	3
1	0	3	7	2	1
5	2	2	5	4	2
1	0	2	5	4	3
2	1	3	5	3	4
4	2	1	4	5	2
1	1	1	4	4	1
6	1	0	2	1	1
0	0	0	1	0	3
2	0	0	2	2	2
2	0	1	3	0	2
3	3	2	1	1	0
4	0	0	3	1	1
0	0	3	5	0	1
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

There is no need for special content, but the length of words should match the language.

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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

22 References to the page

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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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 refence to the page where the object is set. Let’s assume that we use something like

```
\hvfFloatSetDefaults
\hvfFloat[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 65 is on page 95, but the image itself is on page 96. 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 float 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 65 on page 96, which uses a correct page number of the floating object and not the caption pagenummer which is on page 95. The figure 65 is on page 96 and the caption on page 95

23 Defining a style

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

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

For example:

```
\hvDefFloatStyle{RightCaption}{floatPos=htb, capWidth=0.5, capPos=after, capVPos=bottom, objectPos=center}
```

```
\hvFloat[style=RightCaption]{figure}{\includegraphics{images/rose}}%
{Caption vertically centered right beside the float with a caption width of
\texttt{0.5\textbackslash columnwidth}.}{fig:style}
```

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

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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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]{hvfloat-fps}
```

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

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Figure 65: 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



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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24 *Global float setting*

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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25 The Package Source

```

1  %% $Id: hvfloat.sty 102 2021-05-29 20:08:51Z 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{2.26}
19 \def\filedate{2021/05/26}
20 \message{'hvfloat' v\fileversion, \filedate\space (Herbert Voss)}
21 \ProvidesPackage{hvfloat}[\filedate\ rotating of floating objects]
22 \let\hvFloatFileVersion\fileversion
23 %
24 \newif\ifhv@fbox \hv@fboxfalse
25 \newif\ifhv@hyperref \hv@hyperreffalse
26 \newif\ifhv@nostfloats \hv@nostfloatsfalse
27 \newif\ifhv@tugboat \hv@tugboatfalse
28
29 \DeclareOption{fbox}{\hv@fboxtrue\setlength{\fboxsep}{1pt}}
30 \DeclareOption{hyperref}{\hv@hyperreftrue}
31 \DeclareOption{nostfloats}{\hv@nostfloatstrue}
32
33 \ProcessOptions
34
35 \providecommand\tugclass{\@empty}
36 \ifx\tugclass\@empty
37 \else
38 \hv@tugboattrue % special page handling
39 \typeout{>>> we are using a TUGboat class}%
40 \fi
41
42 \PassOptionsToPackage{hypcap}{caption}
43 \RequirePackage{caption}
44 \PassOptionsToPackage{hypcap}{subcaption}
45 \RequirePackage{subcaption}
46 \RequirePackage{atbegshi}
47 \RequirePackage{picture,trimclip}
48
49 \RequirePackage{expl3,multido}
50 \RequirePackage{graphicx}
51

```

```

52 \RequirePackage{xkeyval}
53 \RequirePackage{ifoddpage}
54 \RequirePackage{afterpage}
55
56 \ifhv@hyperref
57 \RequirePackage{hyperref}
58 \fi
59 \ifhv@nostfloats\else
60 \RequirePackage{stfloats}% for bottom floats in a twocolumn mode
61 \fi
62 %
63 \providecommand*{LenToUnit}[1]{\strip@pt\dimexpr#1*\p@/\unitlength}
64
65 \newlength\hvObjectWidth
66 \newlength\hvCapWidth
67 \newlength\hvWideWidth
68 \newlength\hvMultiFloatSkip
69 \newlength\hvMaxCapWidth
70 %\newlength\hv@BottomSpace
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
84 \def\hv@Top{top}
85 \def\hv@Bottom{bottom}
86 \def\hv@After{after}
87 \def\hv@Before{before}
88 \def\hv@Right{right}
89 \def\hv@Left{left}
90 \def\hv@Center{center}
91 \def\hv@Outer{outer}
92 \def\hv@Inner{inner}
93 \def\hv@Even{evenPage}
94 \def\hv@Odd{oddPage}
95 \def\hv@Natural{n}
96 \def\hv@Width{w}
97 \def\hv@Height{h}
98 \def\hv@Zero{0}
99 %
100 \def\hv@figure{figure}
101 %
102 \define@key{hvSet}{floatPos}[tbp]{% LaTeX's position parameters http
103 \def\hvSet@floatPos{#1}%
104 }

```

25 The Package Source

```

105 \definekey{hvSet}{rotAngle}[0]{%      rotates caption AND image together
106   \def\hvSet@rotAngle{#1}%
107 }
108 \definekey{hvSet}{capWidth}[n]{%      (n)atural width|object (w)idth|object (h)eight|<scale of \columnwidth
109   >
110   \def\hvSet@capWidth{#1}%
111 }
112 \definekey{hvSet}{capAngle}[0]{%      -360..+360, only integers
113   \def\hvSet@capAngle{#1}%
114 }
115
116 \define@choicekey*+{hvSet}{capPos}{\val\nr}{bottom,top,left,before,right,after,inner,outer,evenPage,oddPage}[
117   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{hvfloa}{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     \gdef\hv@@capVPos{b}%
134   \or
135     \gdef\hv@@capVPos{c}%
136   \else
137     \gdef\hv@@capVPos{t}%
138   \fi
139 }{\PackageWarning{hvfloa}{erroneous input (#1) for capVPos ignored. Using bottom.}%
140   \def\hvSet@capVPos{center}%      it is relativ to the object
141   }
142
143 \define@choicekey*+{hvSet}{objectPos}{\val\nr}{left,center,right,inner,outer}[center]{%
144   \def\hvSet@objectPos{#1}%      it is relativ to the object
145 }{\PackageWarning{hvfloa}{erroneous input (#1) for objectPos ignored. Using center.}%
146   \def\hvSet@capVPos{center}%      it is relativ to the object
147   }
148
149 %\newif\ifhv@floatRefToObject
150 %\define@choicekey*+{hvSet}{floatRef}{\val\nr}{caption,object}[object]{%      where the LOF entry should point
151 %    to (inactive)
152 %    \ifcase\nr\relax
153 %      \hv@floatRefToObjectfalse
154 %    \else
155 %      \hv@floatRefToObjecttrue

```

```

155 % \fi
156 %}{\PackageWarning{hvfloat}{erroneous input (#1) for floatRef ignored. Using option object.}%
157 % \hv@floatRefToObjecttrue
158 % }
159
160 \define@key{hvSet}{objectAngle}[0]{% -360..+360
161 \def\hvSet@objectAngle{#1}%
162 }
163 \define@key{hvSet}{floatCapSep}[5pt]{% a width with the unit pt
164 \def\hvSet@floatCapSep{#1}%
165 }
166 \define@key{hvSet}{multiFloatSkip}{\normalbaselineskip}{% a width with the unit pt
167 \setlength\hvMultiFloatSkip{#1}%
168 }
169 \define@boolkey{hvSet}{hv@}{useOBox}[true]{}% use of the hvOBox contents
170 \define@boolkey{hvSet}{hv@}{nonFloat}[true]{}% Do not use float environment
171 \define@boolkey{hvSet}{hv@}{onlyText}[true]{}% Write the caption only as text
172 \define@boolkey{hvSet}{hv@}{wide}[true]{}% Write the caption only as text
173 \define@boolkey{hvSet}{hv@}{twoColumnCaption}[true]{% Write the caption only as text
174 % \ifhv@stfloats
175 % \global\@nameuse{hv@twoColumnCaption#1}%
176 % \else
177 % \PackageWarning{hvfloat}{Please use the package option stfloats!}%
178 % \global\hv@twoColumnCaptionfalse
179 % \fi
180 }
181 \define@boolkey{hvSet}{hv@}{Debug}[true]{}% give more infos in the terminal
182
183 \newcommand\hv@typeout[1]{\ifhv@Debug\typeout{>>>> #1}\fi}
184
185 \newif\ifhv@fullpage
186 \newif\ifhv@FULLPAGE
187 \newif\ifhv@doubleFULLPAGE
188 \newif\ifhv@doublePAGE
189 \newif\ifhv@doublePage
190 \newif\ifhv@setObjectLabel
191
192 \newlength\hvSet@bindCorrection
193 \newlength\hvSet@sepLineskip
194 \newlength\hv@leftPageObjectWidth% for doublepage images
195 \newlength\hv@tempWidthA
196 \newlength\hv@tempWidthB
197
198 \define@key{hvSet}{fullpage}[true]{\global\@nameuse{hv@fullpage#1}%
199 \define@key{hvSet}{FULLPAGE}[true]{\global\@nameuse{hv@FULLPAGE#1}}
200 \define@key{hvSet}{doubleFULLPAGE}[true]{\global\@nameuse{hv@doubleFULLPAGE#1}\hv@doublePagefalse\
    hv@doublePAGEfalse}
201 \define@key{hvSet}{doublePAGE}[true]{\global\@nameuse{hv@doublePAGE#1}\hv@doublePagefalse\
    hv@doubleFULLPAGEfalse}
202 \define@key{hvSet}{doublePage}[true]{\global\@nameuse{hv@doublePage#1}\hv@doublePAGEfalse\
    hv@doubleFULLPAGEfalse}
203 \define@key{hvSet}{bindCorr}[\z@]{\setlength\hvSet@bindCorrection{#1}% for doublepage objects
204

```

25 The Package Source

```

205 \define@boolkey{hvSet}[hv@]{subFloat}[true]{%      typeset values as subfloats
206   \ifhv@subFloat\setkeys{hvSet}{multiFloat=false}\fi
207 }%
208 \define@boolkey{hvSet}[hv@]{multiFloat}[true]{%    typeset values as continous floats
209   \ifhv@multiFloat\setkeys{hvSet}{subFloat=false}\fi
210 }%
211 \define@boolkey{hvSet}[hv@]{vFill}[true]{}%        \vfill between multifold objects
212
213 \define@boolkey{hvSet}[hv@]{separatorLine}[true]{}% separator line for caption of a full page float
214 \define@key{hvSet}{sepLineskip}{\def\hv@sepLineskip{#1}}%
215 \define@boolkey{hvSet}[hv@]{objectFrame}[true]{}%  a frame around the object with no separation
216 \define@key{hvSet}{style}{%
217   \ifundefined{hv@#1}%
218     {\errmessage{Custom style '#1' undefined}}%
219     {\beginingroup
220       \edef\x{\endgroup\noexpand\setkeys{hvSet}{\@nameuse{hv@#1}}}\x}% use a defined style
221   }
222 \define@key{hvSet}{capFormat}{\def\hv@caption@format{#1}}%
223 \define@key{hvSet}{subcapFormat}{\def\hv@subcaption@format{#1}}%
224
225 \def\hv@set#1{\beginingroup\edef\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x}
226 \let\hvFloatSet\hv@set
227 %
228 \def\defhvstyle#1#2{\@namedef{hv@#1}{#2}}
229 \let\hvDefFloatStyle\defhvstyle % better name
230 %
231 \newcommand\setDefault{%
232   \hv@set{%
233     floatPos=, rotAngle=0, capWidth=n, capAngle=0,
234     capPos=bottom, capVPos=center, objectPos=center, objectAngle=0,
235     floatCapSep=5pt, useOBox=false, nonFloat=false,
236     onlyText=false, wide=false, fullpage=false, FULLPAGE=false,
237     doubleFULLPAGE=false, doublePage=false, doublePAGE=false,
238     multiFloat=false, subFloat=false,
239     separatorLine, objectFrame=false, multiFloatSkip=\normalbaselineskip,
240     capFormat={}, subcapFormat={}, twoColumnCaption=false,
241     % floatRef=object,
242     bindCorr=\z@, sepLineskip=0pt,
243     vFill=false,
244   }%
245 }
246
247 \let\hvFloatSetDefaults\setDefault
248
249 \newcommand\reset@special@float{%
250   \hv@set{subFloat=false,%fullpage=false,
251     multiFloat=false,%FULLPAGE=false
252 }%
253
254 \def\hv@vskip{\vspace{\hvMultiFloatSkip}}
255
256 %
257 \newlength\hvAboveCaptionSkip

```

```

258 \newlength\hvBelowCaptionSkip
259 \newcount\hv@capPos
260
261 \newlength\fbboxlinewidth
262 \AtBeginDocument{%
263   \setlength\fbboxlinewidth{\dimexpr\linewidth-2\fbboxrule-2\fbboxsep}%
264 }
265 \setlength\belowcaptionskip{\abovecaptionskip}% it is in latex.ltx = 0pt
266 \newcommand\saveCaptionSkip{%
267   \setlength{\hvAboveCaptionSkip}{\abovecaptionskip}%
268   \setlength{\hvBelowCaptionSkip}{\belowcaptionskip}%
269   \setlength{\abovecaptionskip}{0pt}%
270   \setlength{\belowcaptionskip}{0pt}%
271 }
272 \newcommand\restoreCaptionSkip{%
273   \setlength\abovecaptionskip{\hvAboveCaptionSkip}%
274   \setlength\belowcaptionskip{\hvBelowCaptionSkip}%
275 }
276 %
277 \newcommand\figcaption[2][{}]{%
278   \def\@capttype{figure}%
279   \begingroup
280     \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
281     \if$#1$ \caption{#2}\else\caption[#1]{#2}\fi
282   \endgroup}
283 \newcommand\tabcaption[2][{}]{\def\@capttype{table}%
284   \begingroup
285     \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
286     \ifx\relax#1\relax \caption{#2}\else\caption[#1]{#2}\fi
287   \endgroup}
288 %
289 \newlength\hv@maxImageWidth
290 \AtBeginDocument{\hv@maxImageWidth=\columnwidth}
291
292 \define@key{Gin}{columnwidth}[true]{%
293   \def\Gin@ewidth{\columnwidth}%
294   % |def\Gin@eheight{lex}%
295   \Gin@boolkey{true}{iso}%
296 }
297 \define@key{Gin}{fullpage}[true]{%
298   \def\Gin@ewidth{\columnwidth}%
299   \def\Gin@eheight{\textheight}%
300   \Gin@boolkey{false}{iso}%
301 }
302 \define@key{Gin}{FullPage}[true]{%
303   \def\Gin@ewidth{\textwidth}%
304   \def\Gin@eheight{\textheight}%
305   \Gin@boolkey{false}{iso}%
306 }
307 \define@key{Gin}{FULLPAGE}[true]{%
308   \def\Gin@ewidth{\paperwidth}%
309   \def\Gin@eheight{\paperheight}%
310   \Gin@boolkey{false}{iso}%

```

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```

311 }
312 \define@key{Gin}{doubleFULLPAGE}[true]{%
313   \def\Gin@ewidth{2\paperwidth}%
314   \def\Gin@eheight{\paperheight}%
315   \Gin@boolkey{false}{iso}%
316 }
317 \define@key{Gin}{doubleFULLPAGEbindCorr}[true]{%
318   \def\Gin@ewidth{\the\dimexpr2\paperwidth-2\hvSet@bindCorrection\relax}%
319   \def\Gin@eheight{\paperheight}%
320   \Gin@boolkey{false}{iso}%
321 }
322
323 \newcommand\IncludeGraphics[2][0]{%
324   \vspace*{\the\dimexpr-1in-\voffset+\topskip-\headheight-0.5\baselineskip}%
325   \leavevmode\checkoddpage
326   \ifoddpage
327     \hspace*{\dimexpr-\oddsidemargin-\parindent-1in}%
328   \else
329     \hspace*{\dimexpr-\evensidemargin-\parindent-1in}%
330   \fi\noindent
331   \includegraphics[#1,width=\paperwidth,height=\paperheight,keepaspectratio=false]{#2}%
332 }
333
334 \newcommand\put@CaptionBox[1][0]{%
335   \ifcase#1
336     \ifhv@fbox
337       \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
338     \else
339       \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
340     \fi
341   \or
342     \ifhv@fbox
343       \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
344     \else
345       \raisebox{-\height}{\usebox{\hvCaptionBox}}%
346     \fi
347   \or
348     \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}\else\usebox{\hvCaptionBox}\fi
349   \fi
350 }
351
352 \newcommand\put@ObjectBox[1][0]{%
353   \ifcase#1
354     \ifhv@fbox
355       \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
356     \else
357       \parbox{\wd\hvObjectBox}{\ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi}%
358     \fi
359   \or
360     \ifhv@fbox
361       \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
362     \else
363       \raisebox{-\height}{\ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi}%

```

```

364 \fi
365 \or
366 \ifhv@fbox
367 \fbox{\usebox{\hvObjectBox}}%
368 \else
369 % rotated object with a depth need to raise up the \depth
370 \ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\raisebox{\depth}{\usebox{\hvObjectBox}}\fi%
371 \fi
372 \fi
373 }
374
375 \newcounter{hv@tempCNTfigA}%
376 \newcounter{hv@tempCNTfigB}%
377 \newcounter{hv@tempCNTtabA}%
378 \newcounter{hv@tempCNTtabB}%
379
380 \newcounter{hv@pfigure}
381 \newcounter{hv@ptable}
382 \newcounter{subhv@pfigure}
383 \newcounter{subhv@ptable}
384
385 \newif\ifhv@star
386 \newif\ifhv@substar
387 \setDefault
388
389 \def\hvFloat{\@ifnextchar*% Main macro
390 {\global\hv@starttrue\hv@maxImageWidth=\textwidth\hvFloat@i}%
391 {\global\hv@starfalse\hv@maxImageWidth=\columnwidth\hvFloat@i*}%
392 }
393
394 %\newcommand*{\hvFloat}[5][+]{%
395 % [#1]: keyvalues
396 % #2: type figure | table | ...
397 % #3: float contents
398 % [#4]: short caption
399 % #5: caption
400 % #6: label
401 %
402 \def\hvFloat@i*{\@ifnextchar[{\do@hvFloat}{\do@hvFloat[]}}
403 \def\do@hvFloat[#1]{%
404 \begingroup
405 \setlength\hvWideWidth{\dimexpr\columnwidth+\marginparwidth+\marginparsep}%
406 % \setlength\hvWideWidth{\dimexpr\textwidth+\marginparwidth+\marginparsep}%
407 % \setlength\hvWideWidth{\dimexpr\linewidth+\marginparwidth}%
408 \hv@maxImageWidth=\textwidth
409 \reset@special@float
410 \global\setcounter{hv@pfigure}{\value{figure}}%
411 \global\setcounter{hv@ptable}{\value{table}}%
412 \setcounter{hv@tempCNTfigA}{\value{figure}}%
413 \setcounter{hv@tempCNTfigB}{\value{figure}}%
414 \setcounter{hv@tempCNTtabA}{\value{table}}%
415 \setcounter{hv@tempCNTtabB}{\value{table}}%
416 \gdef\hv@save@setting{#1}%

```

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```

417 \ifx\relax#1\relax\else\setkeys{hvSet}{#1}\fi
418 \gdef\hv@floatType{figure}% presetting
419 \@ifnextchar+{\do@multiFloat}{\hvFloat@ii[#1]}%
420 }
421
422 \ExplSyntaxOn
423
424 \def\do@multiFloat+#1#2{%
425   \clist_set:Nn\l_clist_Type{#1}%
426   \clist_set:Nn\l_clist_Object{#2}%
427   \@ifnextchar[\do@multiFloat@i{\do@multiFloat@i[]}%
428 }
429 \def\do@multiFloat@i[#1]#2#3{% lof-caption, caption, label
430   \ifx\relax#1\relax
431     \clist_set:Nn\l_clist_LofCaption{#1}%
432   \else
433     \clist_set:Nn\l_clist_LofCaption{#1}%
434   \fi
435   \clist_set:Nn\l_clist_Caption{#2}%
436   \ifx\relax#3\relax
437     \clist_set:Nn\l_clist_Label{#3}%
438   \else
439     \clist_set:Nn\l_clist_Label{#3}%
440   \fi
441   \@ifnextchar+{\do@multiFloat@ii}{#3}%
442 }
443 \def\do@multiFloat@ii+#1#2{%
444   \clist_put_right:Nn\l_clist_Type{#1}%
445   \clist_put_right:Nn\l_clist_Object{#2}%
446   \@ifnextchar[\do@multiFloat@iii{\do@multiFloat@iii[]}%
447 }
448
449 \def\do@multiFloat@iii[#1]#2#3{% lof-caption, caption, label
450   \ifx\relax#1\relax
451     \clist_put_right:Nn\l_clist_LofCaption{#1}%
452   \else
453     \clist_put_right:Nn\l_clist_LofCaption{#1}%
454   \fi
455   \clist_put_right:Nn\l_clist_Caption{#2}%
456   \ifx\relax#3\relax
457     \clist_put_right:Nn\l_clist_Label{#3}%
458   \else
459     \clist_put_right:Nn\l_clist_Label{#3}%
460   \fi
461   \@ifnextchar+{\do@multiFloat@ii%
462     {\def\hvSet@CapWidth{n}%
463       \do@@@hvFloat}%
464 }
465 \ExplSyntaxOff
466
467
468
469 \def\drawSepLine{%

```

```

470 \par\noindent
471 \if@twocolumn
472 \ifhv@twoColumnCaption
473 \rule{\linewidth}{0.4pt}\[-2.5ex]
474 \else
475 \rule{\columnwidth}{0.4pt}\[-2.5ex]
476 \fi
477 \else
478 \rule{\linewidth}{0.4pt}\[-2.5ex]
479 \fi
480 \vspace{\hv@sepLineskip}%
481 }
482
483 \newcount\hv@cna
484 \newcount\hv@cna
485
486 \def\hvFloat@ii[#1]#2#3{% #1: key/value, #2: floattype, #3: object
487 \hv@maxImageWidth=\textwidth
488 \ifx\relax#1\relax\else\setkeys{hvSet}{#1}\fi
489 \gdef\hv@floatType{#2}%
490 \xdef\hv@floatListOfExt{\@nameuse{ext@\hv@floatType}}%
491 \ifx\relax#2\relax \setkeys{hvSet}{nonFloat=true}\fi
492 \gdef\hv@floatObject{#3}%
493 \@ifnextchar[{\do@hvFloat}{\do@hvFloat[]}%
494 }
495
496 \def\do@hvFloat[#1]#2#3{% #1: listof caption, #2. long caption #3: label
497 \gdef\hv@shortCap{#1}%
498 \gdef\hv@longCap{#2}%
499 \gdef\hv@label{#3}%
500 \ifhv@capbeside\def\@temp{1}\else\def\@temp{0}\fi
501 \ifhv@fullpage
502 \def\hvSet@CapWidth{n}% relative value
503 \do@@@hvFloat% fullpage with caption on other page
504 \else
505 \ifhv@FULLPAGE
506 \def\hvSet@CapWidth{n}% relative value
507 \do@@@hvFloat% fullpage with caption on other page
508 \else
509 \ifhv@doubleFULLPAGE
510 \setlength\hvCapWidth{\textheight}%
511 \expandafter\do@hvFloat@doubleFULLPAGE\@temp% fullpage with caption rotated or under on an odd page
512 \else
513 \ifhv@doublePAGE
514 \expandafter\do@hvFloat@doublePAGE\@temp% fullpage with caption rotated or under on an odd page
515 \else
516 \ifhv@doublePage
517 \expandafter\do@hvFloat@doublePage\@temp% fullpage with caption rotated or under on an odd page
518 \else
519 \do@@@hvFloat
520 \fi
521 \fi
522 \fi

```

25 The Package Source

```

523   \fi
524   \fi
525   % \global\hv@capbesidefalse
526 }
527 %
528 \def\do@@hvFloat{% no special float page, caption and image on top of each other or side by side
529   \def\@tempa{90}%
530   \ifx\hvSet@rotAngle\@tempa
531     \setlength\hvMaxCapWidth{\textheight}%
532   \else
533     \setlength\hvMaxCapWidth{\hvWideWidth}%
534   \fi
535   %
536   % First we save the object in \hvObjectBox
537   %
538   \ifnum\hvSet@objectAngle=0 % rotate the object?
539     \ifhv@useOBox
540       \let\hvObjectBox\hvOBox
541     \else
542       \savebox\hvObjectBox{\hv@floatObject}%
543     \fi
544   \else
545     \savebox\hvObjectBox{%
546       \rotatebox{\hvSet@objectAngle}{%
547         \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi
548       }%
549     }%
550   \fi
551   \setlength\hvObjectWidth{\wd\hvObjectBox}%
552   %
553   % Now we save the caption with its defined \hvCapWidth
554   %
555   \ifx\hvSet@capWidth\hv@Width% captionwidth=objectwidth
556     \setlength\hvCapWidth{\hvObjectWidth}%
557   \else
558     \ifx\hvSet@capWidth\hv@Height% captionwidth=objectheight
559       \setlength\hvCapWidth{\ht\hvObjectBox}%
560     \else
561       \ifx\hvSet@capWidth\hv@Natural% captionwidth=\linewidth-\objectwidth-separation
562         \ifhv@capbeside
563           \ifhv@wide
564             \setlength\hvCapWidth{\the\dimexpr\hvWideWidth-\hvObjectWidth-\hvSet@floatCapSep\relax}%
565           \else
566             \ifhv@star
567               \setlength\hvCapWidth{\the\dimexpr\textwidth-\hvObjectWidth-\hvSet@floatCapSep\relax}%
568             \else
569               \setlength\hvCapWidth{\the\dimexpr\linewidth-\hvObjectWidth-\hvSet@floatCapSep\relax}%
570             \fi
571           \fi
572         \else
573           \setlength\hvCapWidth{\columnwidth}%
574         \fi
575       \else

```

```

576 \ifhv@capbeside
577 \ifhv@wide
578 \setlength\hvCapWidth{\hvSet@capWidth\hvWideWidth}%
579 \setlength\@tempdima{\the\dimexpr\hvWideWidth-\hvObjectWidth-\hvSet@floatCapSep\relax}%
580 \else
581 \setlength\hvCapWidth{\hvSet@capWidth\columnwidth}%
582 \setlength\@tempdima{\the\dimexpr\columnwidth-\hvObjectWidth-\hvSet@floatCapSep\relax}%
583 \fi
584 \ifdim\hvCapWidth>\@tempdima
585 \setlength\hvCapWidth{\@tempdima}%
586 \fi
587 \else
588 \ifhv@wide
589 \setlength\hvCapWidth{\hvSet@capWidth\hvWideWidth}%
590 \else
591 \setlength\hvCapWidth{\hvSet@capWidth\columnwidth}%
592 \fi
593 \fi
594 \fi
595 \fi
596 \fi
597 \saveCaptionSkip% we put this space ourselves
598 \ifnum\hvSet@capAngle=0 % need rotation?
599 \savebox\hvCaptionBox{% NO rotation
600 \begin{minipage}[b]{\hvCapWidth}%% minipage, to get hyphenation
601 \ifx\hv@caption@format\@empty\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
602 \ifhv@nonFloat
603 \ifhv@onlyText
604 \hv@longCap
605 \else
606 \ifx\hv@floatType\hv@figure
607 \ifx\relax\hv@shortCap\relax
608 \figcaption{\hv@longCap}%
609 \else
610 \figcaption[\hv@shortCap]{\hv@longCap}%
611 \fi
612 \else
613 \ifx\relax\hv@shortCap\relax
614 \tabcaption{\hv@longCap}%
615 \else
616 \tabcaption[\hv@shortCap]{\hv@longCap}%
617 \fi
618 \fi
619 \fi
620 \else
621 \ifhv@onlyText
622 \hv@longCap
623 \else
624 \let\@capttype\hv@floatType
625 \ifx\hv@shortCap\@empty\caption{\hv@longCap}\else\caption[\hv@shortCap]{\hv@longCap}\fi
626 \fi
627 \fi
628 \ifx\hv@label\@empty\else\label{\hv@label}\fi

```

25 The Package Source

```

629     \end{minipage}%
630   }%
631   \else
632     \savebox\hvCaptionBox{%   Rotation
633       \rotatebox{\hvSet@capAngle}{%
634         \begin{minipage}[b]{\hvCapWidth}%% minipage, to get hyphenation
635         \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
636         \ifhv@nonFloat
637           \ifhv@onlyText
638             \hv@longCap
639           \else
640             \ifx\hv@floatType\hv@figure
641               \ifx\relax\hv@shortCap\relax \figcaption{\hv@longCap}\else\figcaption[\hv@shortCap]{\hv@longCap}\fi
642             \else
643               \ifx\relax\hv@shortCap\relax \tabcaption{\hv@longCap}\else\tabcaption[\hv@shortCap]{\hv@longCap}\fi
644             \fi
645           \fi
646         \else
647           \ifhv@onlyText
648             \hv@longCap
649           \else
650             \let\@captype\hv@floatType
651             \ifx\relax\hv@shortCap\relax \caption{\hv@longCap}\else\caption[\hv@shortCap]{\hv@longCap}%
652             \fi
653           \fi
654         \fi
655         \ifx\hv@label\@empty\else\label{\hv@label}\fi
656       \end{minipage}%
657     }% rotatebox
658   }% vbox
659   \fi
660   %
661   % now we have the object and the caption with the right
662   % rotated angles saved in different boxes
663   %%
664   \restoreCaptionSkip% save old values
665   % \def\fps@figure{\hvSet@floatPos}%
666   \ifx\hvSet@floatPos\@empty      % use type default
667   \else
668     \@namedef{fps@\hv@floatType}{\hvSet@floatPos}%
669   \fi
670   \ifhv@nonFloat
671     \noindent
672     \begingroup%      Start the nonfloat part
673   \else
674     \ifhv@star
675       \ifx\hvSet@floatPos\hv@floatBottom
676         \nameuse{\hv@floatType}[b]%      Start the floating environment *****
677       \else
678         \nameuse{\hv@floatType*}%
679       \fi

```

```

680     \else
681     \begin{\hv@floatType}%    Start the floating environment
682     \fi
683 \fi
684 \checkoddpage
685 \ifx\hvSet@objectPos\hv@Right\raggedleft\fi
686 \ifx\hvSet@objectPos\hv@Center
687     \ifhv@nonFloat\hspace*{\fill}\else\centering\fi
688 \fi
689 \ifx\hvSet@objectPos\hv@Outer
690     \ifoddpage\raggedleft\fi
691 \fi
692 \ifx\hvSet@objectPos\hv@Inner
693     \ifoddpage\else\raggedleft\fi
694 \fi
695 %
696 % to rotate object and caption together, we save all in another box
697 % the caption comes first, if its on the left or the top
698 % 0 caption left, inner and odd page, oneside inner
699 % 1 caption top
700 % 2 caption right, inner and even page, oneside outer
701 % 3 caption bottom
702 %
703 \ifx\hvSet@capPos\hv@Left
704     \hv@@capPos=0
705 \else
706     \ifx\hvSet@capPos\hv@Top
707         \hv@@capPos=1
708     \else
709         \ifx\hvSet@capPos\hv@Right
710             \hv@@capPos=2
711         \else
712             \ifx\hvSet@capPos\hv@Bottom
713                 \hv@@capPos=3
714             \else
715                 \ifx\hvSet@capPos\hv@Inner
716                     \ifoddpageoroneside\hv@@capPos=0\else\hv@@capPos=2\fi
717                 \else
718                     \ifx\hvSet@capPos\hv@Outer
719                         \ifoddpageoroneside\hv@@capPos=2\else\hv@@capPos=0\fi
720                     \else
721                         \ifx\hvSet@capPos\hv@Before
722                             \hv@@capPos=0% same as cappos=right
723                         \else
724                             \ifx\hvSet@capPos\hv@After
725                                 \hv@@capPos=2% same as cappos=right
726                             \fi
727                         \fi
728                     \fi
729                 \fi
730             \fi
731         \fi
732     \fi

```

25 The Package Source

```

733 \fi
734 %%%
735 \savebox{\@tempboxa}{%
736 \expandafter\ifcase\the\hv@capPos% 0 is LEFT START \ifcase
737 \ifx\hvSet@capVPos\hv@Center
738 \put@CaptionBox
739 \hspace{\hvSet@floatCapSep}% capfloatsep
740 \put@ObjectBox
741 \else
742 \ifx\hvSet@capVPos\hv@Top% caption and object at top aligned
743 \put@CaptionBox[1]%
744 \hspace{\hvSet@floatCapSep}% capfloatsep
745 \put@ObjectBox[1]%
746 \else% caption on bottom
747 \put@CaptionBox[2]%
748 \hspace{\hvSet@floatCapSep}% capfloatsep
749 \put@ObjectBox[2]%
750 \fi
751 \fi% end caption left
752 \or%1 is top
753 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
754 \begin{minipage}{\wd\hvCaptionBox}%
755 \else
756 \begin{minipage}{\wd\hvObjectBox}%
757 \fi
758 \centering
759 \ifhv@fbox
760 \fbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]%
761 \fbox{\usebox{\hvObjectBox}}%
762 \else
763 \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]%
764 \usebox{\hvObjectBox}%
765 \fi
766 \end{minipage}%
767 \or%2 is right
768 \ifx\hvSet@capVPos\hv@Center
769 \put@ObjectBox
770 \hspace{\hvSet@floatCapSep}%
771 \put@CaptionBox
772 \else
773 \ifx\hvSet@capVPos\hv@Top
774 \put@ObjectBox[1]%
775 \hspace{\hvSet@floatCapSep}% capfloatsep
776 \put@CaptionBox[1]%
777 \else
778 \put@ObjectBox[2]%
779 \hspace{\hvSet@floatCapSep}% capfloatsep
780 \put@CaptionBox[2]%
781 \fi
782 \fi
783 \or%3 bottom
784 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
785 \begin{minipage}{\wd\hvCaptionBox}%

```

```

786 \else
787 \begin{minipage}{\wd\hvObjectBox}%
788 \fi
789 \centering
790 \ifhv@fbox
791 \fbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]%
792 \fbox{\usebox{\hvCaptionBox}}%
793 \else
794 \ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi\[\hvAboveCaptionSkip]%
795 \usebox{\hvCaptionBox}%
796 \fi
797 \end{minipage}%
798 \fi% \ifcase\the\hv@capPos
799 }% End savebox Object and caption %%%%%%%%% @tempboxa
800 %
801 % now we rotate the object and caption, if needed
802 %
803 \ifhv@wide
804 \ifoddpageoroneside
805 \if@twocolumn
806 \if@firstcolumn
807 \noindent
808 \hspace*{\dimexpr-\marginparwidth-\marginparsep}% oddpage first column
809 \fi
810 \fi
811 \else
812 \ifoddpage
813 \if@twocolumn
814 \if@firstcolumn
815 \noindent
816 \hspace*{\dimexpr-\marginparwidth-\marginparsep}% oddpage first column
817 \fi
818 \fi
819 \else% evenpage
820 \if@firstcolumn
821 \noindent
822 \hspace*{\dimexpr-\marginparwidth-\marginparsep}% <- for wide and left page
823 \fi
824 \fi
825 \fi
826 \fi
827 \ifx\hvSet@rotAngle\hv@Zero
828 \usebox{\@tempboxa}%
829 \else
830 \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}%
831 \fi
832 \ifhv@nonFloat
833 \ifx\hvSet@objectPos\hv@Center
834 % \ifhv@nonFloat
835 \hspace{\fill}%
836 % \fi
837 \fi
838 \endgroup% End the nonfloat part

```

25 The Package Source

```

839 \else
840   \ifhv@star
841   \@nameuse{end\hv@floatType}% End the floating environment
842   \else
843   \end{\hv@floatType}% End the floating environment
844   \fi
845 \fi
846 \endgroup% startet at main \hvFloat
847 }
848 %
849 \newenvironment{hvFloatEnv}[1][\textwidth]
850   {\minipage{#1}\center}
851   {\endcenter\endminipage}
852 %
853
854 \ExplSyntaxOn
855 \let\clist@item@Nn\clist_item:Nn
856 \let\l@clist@Type\l_clist_Type
857 \let\l@clist@LofCaption\l_clist_LofCaption
858 \let\l@clist@Label\l_clist_Label
859 \let\clist@count@N\clist_count:N
860 \ExplSyntaxOff
861
862 \def\do@@@hvFloat{% special float page: caption <-> fullpage image
863   \ifx\hvSet@capPos\hv@After \hv@@capPos=1
864   \else
865     \ifx\hvSet@capPos\hv@Even \hv@@capPos=2
866     \else
867       \ifx\hvSet@capPos\hv@Odd \hv@@capPos=3
868       \else
869         \ifx\hvSet@capPos\hv@Inner \hv@@capPos=4
870         \else
871           \ifx\hvSet@capPos\hv@Outer \hv@@capPos=5
872           \else
873             \ifx\hvSet@capPos\hv@Right \hv@@capPos=6% only for twocolumn mode
874             \else
875               \ifx\hvSet@capPos\hv@Left \hv@@capPos=7% only for twocolumn mode
876               \else
877                 \hv@@capPos=0
878               \fi
879             \fi
880           \fi
881         \fi
882       \fi
883     \fi
884   \fi
885   \checkoddpage
886   \set@caption@object{\hv@floatType}% set caption and object into a box
887   \ifcase\hv@@capPos% caption before object 0-> _always_ left
888     \setBottomCaption\setPageObject
889   \or% caption after object 1-> _always_ right
890     \setPageObject\setBottomCaption
891   \or% caption on even page 2-> left page

```

```

892 \ifoddpage
893 \afterpage{\setBottomCaption\setPageObject}%
894 \else% we are on an even page
895 \setBottomCaption\setPageObject
896 \fi
897 \or% caption on odd page 3->right page
898 \if@twoside
899 \if@twocolumn
900 \ifoddpage
901 \if@firstcolumn% on right side
902 \setBottomCaption\setPageObject
903 \else
904 \afterpage{\setPageObject\setBottomCaption}% start next column
905 \fi
906 \else% left (even) page
907 \if@firstcolumn
908 \afterpage{\setPageObject\setBottomCaption}% start next column
909 \else
910 \setPageObject\setBottomCaption
911 \fi
912 \fi
913 \else% onecolumn
914 \ifoddpage
915 \setPageObject\setBottomCaption
916 \else% even page
917 \afterpage{\setPageObject\setBottomCaption}%
918 \fi
919 \fi
920 \else% oneside
921 \if@twocolumn
922 \ifoddpage
923 \if@firstcolumn% on right side
924 \setBottomCaption\setPageObject
925 \else
926 \setPageObject\setBottomCaption
927 \fi
928 \else
929 \if@firstcolumn% on left side
930 \afterpage{\setPageObject\setBottomCaption}%
931 \else
932 \setPageObject\setBottomCaption
933 \fi
934 \fi
935 \else % onecolumn
936 \ifoddpage
937 \setBottomCaption\setPageObject
938 \else
939 \afterpage{\setBottomCaption\setPageObject}%
940 \fi
941 \fi
942 \fi
943 \or% caption on the inner column 4->inner
944 % \set@caption@object

```

25 The Package Source

```

945 \if@twocolumn
946 \ifoddpage
947 \if@firstcolumn% on right side
948 \setBottomCaption\setPageObject
949 \else % right column on right side
950 \setPageObject\setBottomCaption% start next firstcolumn next page
951 \fi
952 \else
953 \if@firstcolumn% on left side
954 \afterpage{\afterpage{\setBottomCaption\setPageObject}}% start next page/first column
955 \else% left page/column
956 \setBottomCaption\setPageObject% start on same page/column
957 \fi
958 \fi
959 \else% onecolumn
960 \setBottomCaption\setPageObject
961 \fi
962 \or% caption on the outer column 5->outer
963 % \set@caption@object
964 \if@twocolumn
965 \ifoddpage
966 \if@firstcolumn
967 \afterpage{\afterpage{\setBottomCaption\setPageObject}}%
968 \else
969 \afterpage{\setBottomCaption\setPageObject}%
970 \fi
971 \else% even page (left)
972 \if@firstcolumn
973 \setBottomCaption\setPageObject
974 \else
975 %%% !!!! to-do: !!!!
976 \fi
977 \fi
978 \else% onecolumn
979 \setBottomCaption\setPageObject
980 \fi
981 \or% caption after object on same page 6->right for twocolumn
982 \if@twocolumn
983 \if@firstcolumn
984 \afterpage{\setPageObject\setBottomCaption}%
985 \else
986 \setPageObject\setBottomCaption
987 \fi
988 \else% always caption _after_ object for onecolumn
989 \setPageObject\setBottomCaption
990 \fi
991 \or% caption before object on same page 7->left for twocolumn
992 \if@twocolumn
993 \if@firstcolumn
994 \setBottomCaption\setPageObject
995 \else
996 \afterpage{\setBottomCaption\setPageObject}%
997 \fi

```

```

998     \else%          onecolumn -> same as before
999     \setBottomCaption\setPageObject
1000     \fi
1001 \fi
1002 \endgroup% startet at main \hvFloat
1003 }
1004 %
1005 %% ----- the doublepage obejcts -----
1006 %% ||lin+evenside --- |lin+oddside --- ||
1007 %
1008 \def\do@hvFloat@doublePage#1{% image on left and right page with caption on the right page
1009 % #1-> 0/1 caption under/right
1010 \global\setlength\hv@leftPageObjectWidth{\dimexpr\paperwidth-lin-\evensidemargin-\hvSet@bindCorrection}%
1011 \global\setlength\hv@tempWidthA{\the\dimexpr-lin-\oddsidemargin+\hvSet@bindCorrection}%
1012 \xdef\hv@capAngle{\hvSet@capAngle}%
1013 \checkoddpag
1014 \ifoddpag
1015     \if@twocolumn
1016         \if@firstcolumn
1017             \afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1018         \else
1019             \ifhv@tugboat
1020                 \do@hvFloat@doublePageCaptionRight{#1}%
1021             \else
1022                 \afterpage{\do@hvFloat@doublePageCaptionRight{#1}}%
1023             \fi
1024         \fi
1025     \else
1026         \afterpage{\do@hvFloat@doublePageCaptionRight{#1}}%
1027     \fi
1028 \else
1029     \if@twocolumn
1030         \if@firstcolumn
1031             \afterpage{\afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}}%
1032         \else
1033             \afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1034         \fi
1035     \else
1036         \afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1037     \fi
1038 \fi
1039 \endgroup% started at main macro \hvFloat
1040 }
1041 %
1042 \def\do@hvFloat@doublePageCaptionRight#1{% image on left and right page with caption on the right page
1043 -----
1044 \let\hv@fptop\c@fptop
1045 \global\setlength{\@fptop}{0pt}%
1046 \let\hv@c@dbltopnumber\c@dbltopnumber
1047 \setcounter{totalnumber}{0}%
1048 \setcounter{dbltopnumber}{0}%
1049 \def\dblfloatpagefraction{0.5}%
1050 \begin{\hv@floatType*}[!thb]

```

25 The Package Source

```

1050 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1051 \clipbox*{0 -\depth}{\hv@leftPageObjectWidth}{\height}{\usebox{\hvObjectBox}%
1052 \ifx\hv@label\@empty
1053 \else
1054 \ifx\hv@floatType\hv@figure
1055 \refstepcounter{hv@tempCNTfigA}%
1056 \else
1057 \refstepcounter{hv@tempCNTtabA}% before caption
1058 \fi
1059 \label{\hv@label}%
1060 \fi
1061 \end{\hv@floatType*}%
1062 \afterpage{%
1063 \begin{\hv@floatType*}[!thb]
1064 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1065 \hspace*{\hv@tempWidthA}%
1066 \noindent
1067 \savebox{\hv@rightBox}{\clipbox*{\hv@leftPageObjectWidth}{-\depth}{\width}{\height}}{\usebox{\hvObjectBox}}%
1068 \global\setlength{\hv@tempWidthB}{\the\dimexpr\textwidth-\wd\hv@rightBox-\hv@tempWidthA-\marginparsep}%
1069 \parbox[\hv@capVPos]{\the\wd\hv@rightBox}{%
1070 \vspace{0pt}%
1071 \raisebox{\depth}{\usebox{\hv@rightBox}}%
1072 }%
1073 \ifx\hv@label\@empty\else
1074 \ifx\hv@floatType\hv@figure
1075 \global\refstepcounter{hv@tempCNTfigB}%
1076 \else
1077 \global\refstepcounter{hv@tempCNTtabB}% before caption
1078 \fi
1079 \label{\hv@label-2}%
1080 \fi
1081 \ifnum#1>0 % caption on the right
1082 % \medskip
1083 \ifnum\hv@capAngle > 0
1084 \ifdim\dp\hvObjectBox > \z@
1085 \rotatebox[origin=c]{\hv@capAngle}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1086 \ifx\relax\hv@shortCap\relax
1087 \captionof{\hv@floatType}{\hv@longCap}%
1088 \else
1089 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1090 \fi
1091 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1092 }}%
1093 \else
1094 \rotatebox[origin=c]{\hv@capAngle}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1095 \ifx\relax\hv@shortCap\relax
1096 \captionof{\hv@floatType}{\hv@longCap}%
1097 \else
1098 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1099 \fi
1100 }}%
1101 \ifx\relax\hv@label\relax\else\label{\hv@label-cap}\fi

```

```

1102 % \fi
1103 \else
1104 \hspace{\marginparsep}%
1105 \parbox[\hv@capVPos]{\hv@tempWidthB}{%
1106 \vspace{0pt}%
1107 \ifx\hv@shortCap\@empty
1108 \captionof{\hv@floatType}{\hv@longCap\ifx\hv@label\@empty\else\label{\hv@label-cap}\fi}%
1109 \else
1110 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}
1111 \fi
1112 }%
1113 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1114 \fi
1115 \else % #1 = 0 caption below
1116 \ifx\relax\hv@shortCap\relax
1117 \captionof{\hv@floatType}{\hv@longCap}%
1118 \else
1119 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1120 \fi
1121 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1122 \fi
1123 \end{\hv@floatType*}%
1124 }%
1125 \let\c@topnumber\hv@c@topnumber
1126 \let\c@fptop\hv@fptop
1127 }
1128 %
1129 \newsavebox\hv@boxLeftPage
1130 \newsavebox\hv@boxRightPage
1131 %
1132 %% ||lin+evenside --- |lin+oddside ---||
1133 %
1134 \newif\ifhv@save@twocolumn
1135
1136 \def\do@hvFloat@doublePAGE#1{% image on left and right page with caption on the right
1137 -----
1138 % #1-> 0/1 caption under/right
1139 \global\setlength\hv@tempWidthA{\the\dimexprlin+\oddsidemargin-\hv@Set@bindCorrection+\parindent}%
1140 \global\setlength\hv@leftPageObjectWidth{\the\dimexpr\paperwidth-lin-\evensidemargin-\hv@Set@bindCorrection}
1141 %
1142 \expandafter\global\expandafter\savebox\expandafter\hvObjectBox\expandafter{\ifhv@use0Box\usebox{\hv0Box}\
1143 \else\hv@floatObject\fi}%
1144 \expandafter\global\expandafter\savebox\expandafter\hv@boxLeftPage\expandafter{\clipbox*{0 -\depth}{ \
1145 \hv@leftPageObjectWidth}{ \height}{\usebox\hvObjectBox}}%
1146 \expandafter\global\expandafter\savebox\expandafter\hv@boxRightPage\expandafter{\clipbox*{\
1147 \hv@leftPageObjectWidth}{ -\depth}{ \width}{ \height}{\usebox\hvObjectBox}}%
1148 \checkoddpag
1149 \ifoddpag
1150 \if@twocolumn
1151 \if@firstcolumn
1152 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1153 \else
1154 \do@hvFloat@doublePAGECaptionRight{#1}%

```

25 The Package Source

```

1150     \fi
1151   \else
1152     \do@hvFloat@doublePAGECaptionRight{#1}%
1153   \fi
1154 \else
1155   \if@twocolumn
1156     \if@firstcolumn
1157       \afterpage{\afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}}%
1158     \else
1159       \afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}%
1160     \fi
1161   \else
1162     \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1163   \fi
1164 \fi
1165 \endgroup
1166 }
1167 %
1168 \def\do@hvFloat@doublePAGECaptionRight#1{% image on left and right page with caption on the right
1169   -----
1170   % #1-> 0/1 caption under/right
1171   \afterpage{%
1172     \noindent
1173     \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1174     \clipbox*{0 -\depth}{\hv@leftPageObjectWidth}{\height}{\usebox{\hvObjectBox}%
1175     \newpage\if@twocolumn\null\newpage\fi
1176     \expandafter\global\expandafter\savebox\expandafter{\hvObjectBox\expandafter{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1177     \hspace*{-\dimexpr\hv@tempWidthA}%
1178     \noindent
1179     \clipbox*{\the\hv@leftPageObjectWidth}{-\depth}{\width}{\height}{\usebox{\hvObjectBox}%
1180     \ifnum#1>0
1181       \medskip
1182       \ifdim\dp\hvObjectBox > \z@
1183         \rotatebox[origin=c]{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1184           \ifx\relax\hv@shortCap\relax
1185             \captionof{\hv@floatType}{\hv@longCap}%
1186           \else
1187             \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1188           \fi
1189         }}%
1190       \ifx\hv@label\@empty\else\label{\hv@label}\fi
1191     \else
1192       \rotatebox{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1193         \ifx\relax\hv@shortCap\relax
1194           \captionof{\hv@floatType}{\hv@longCap}%
1195         \else
1196           \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1197         \fi
1198       }}%
1199       \ifx\hv@label\@empty\else\label{\hv@label}\fi
1200     \fi
  
```

```

1201     \ifx\relax\hv@shortCap\relax
1202     \captionof{\hv@floatType}{\hv@longCap}%
1203     \else
1204     \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1205     \fi
1206     \ifx\hv@label\@empty\else\label{\hv@label}\fi
1207 \fi
1208 \newpage\if@twocolumn\newpage\fi
1209 }%
1210 }
1211 %
1212 %% ||lin+evenside --- |lin+oddside ---||
1213 %
1214 \def\do@hvFloat@doubleFULLPAGE#1{% image on left and right page with caption before/below/right/after
1215 % #1-> 0/1 caption under/right
1216 \ifx\hvSet@capPos\hv@After \hv@@capPos=1
1217 \else
1218 \ifx\hvSet@capPos\hv@Before \hv@@capPos=0
1219 \else
1220 \hv@@capPos=2 % other caption type
1221 \fi\fi
1222 \checkoddpage
1223 \global\savebox{\hv0objectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1224 \global\setlength\hv@tempWidthA{\dimexpr-\oddsidemargin-lin-\parindent+\hvSet@bindCorrection}% the width
1225 of the right side offset
1226 \global\setlength\hv@tempWidthB{\dimexpr\ht\hvCaptionBox+\wd\hv0objectBox+2\hvSet@bindCorrection}%
1227 \global\setlength\hv@leftPageObjectWidth{\dimexpr\paperwidth-\hvSet@bindCorrection}%
1228 % |savebox\hv@leftBox{\clipbox*{0 0 \the\hv@leftPageObjectWidth}{ \height}{\usebox\hv0objectBox}}%
1229 % |savebox\hv@rightBox{\clipbox*{\the\hv@leftPageObjectWidth}{ \depth}{ \width}{ \height}{\usebox\hv0objectBox}}%
1230 \expandafter\captionsetup\expandafter{\hv@caption@format}%
1231 \ifoddpage
1232 \ifcase\hv@@capPos % =0 Caption before
1233 \if@twocolumn
1234 \if@firstcolumn
1235 \ifhv@twoColumnCaption
1236 \set@Normal@Bottom@Caption*
1237 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1238 \else
1239 \afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1240 \fi
1241 \else% \if@firstcolumn
1242 \set@Normal@Bottom@Caption
1243 \do@hvFloat@doubleFULLPAGE@CaptionBefore
1244 \fi
1245 \else% \if@twocolumn
1246 \set@Normal@Bottom@Caption
1247 \do@hvFloat@doubleFULLPAGE@CaptionBefore
1248 \fi
1249 \or % =1 Caption after
1250 \ifhv@twoColumnCaption
1251 \if@firstcolumn
1252 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol}%

```

25 The Package Source

```

1252     \else
1253       \do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol
1254     \fi
1255   \else
1256     \if@twocolumn
1257       \if@firstcolumn
1258         \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter}%
1259       \else
1260         \do@hvFloat@doubleFULLPAGE@CaptionAfter
1261       \fi
1262     \else
1263       \do@hvFloat@doubleFULLPAGE@CaptionAfter
1264     \fi
1265   \fi
1266 \else% \ifcase >1 all other Captions
1267   \if@twocolumn
1268     \if@firstcolumn
1269       \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}%
1270     \else
1271       \do@hvFloat@doubleFULLPAGE@CaptionOther{#1}%
1272     \fi
1273   \else % \if@twocolumn
1274     \do@hvFloat@doubleFULLPAGE@CaptionOther{#1}%
1275   \fi
1276 \fi% \ifcase
1277 \else% we have an even page
1278 \ifcase\hv@capPos% Before
1279   \if@twocolumn
1280     \if@firstcolumn
1281       \ifhv@twoColumnCaption
1282         \afterpage{\afterpage\set@Normal@Bottom@Caption*\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}%
1283       \else
1284         \afterpage{\afterpage{\afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}%
1285       \fi
1286     \else
1287       \afterpage{\afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}%
1288     \fi
1289   \else% \if@twocolumn
1290     \afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1291   \fi
1292 \or % capPos after
1293   \if@twocolumn
1294     \if@firstcolumn
1295       \ifhv@twoColumnCaption
1296         \afterpage{\afterpage\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol{#1}}}%
1297       \else
1298         \afterpage{\afterpage\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter{#1}}}%
1299       \fi
1300     \else
1301       \ifhv@twoColumnCaption
1302         \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol{#1}}}%

```

```

1303         \else
1304         \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter{#1}}}%
1305         \fi
1306     \fi
1307 \else% \if@twocolumn
1308     \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter}%
1309     \fi
1310 \else% \ifcase Any other caption
1311     \if@twocolumn
1312     \if@firstcolumn
1313     \afterpage{\afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}}}%
1314     \else
1315     \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}}%
1316     \fi
1317 \else
1318     \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}%
1319     \fi
1320 \fi% \ifcase
1321 \fi% main ifoddpge
1322 \endgroup% started at main macro \hvFloat
1323 }
1324
1325 \def\set@Normal@Bottom@Caption{\@ifnextchar*\set@Normal@Bottom@CaptionStar\set@Normal@Bottom@Caption@}
1326 \def\set@Normal@Bottom@Caption@{%
1327     \begin{\hv@floatType}[!b]
1328     \ifhv@separatorLine\drawSepLine\fi
1329     \expandafter\captionsetup\expandafter{\hv@caption@format}%
1330     \ifx\relax\hv@shortCap\relax
1331     \captionof{\hv@floatType}{\hv@longCap}%
1332     \else
1333     \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1334     \fi
1335     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1336     \end{\hv@floatType}%
1337 }
1338 \def\set@Normal@Bottom@CaptionStar*{%
1339     \begin{\hv@floatType*}[!b]
1340     \ifhv@separatorLine\drawSepLine\fi
1341     \expandafter\captionsetup\expandafter{\hv@caption@format}%
1342     \ifx\relax\hv@shortCap\relax
1343     \captionof{\hv@floatType}{\hv@longCap}%
1344     \else
1345     \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1346     \fi
1347     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1348     \end{\hv@floatType*}%
1349 }
1350
1351
1352 \def\do@hvFloat@doubleFULLPAGE@CaptionBefore{%
1353 % \setcounter{hv@tempCNTfigA}{\value{figure}}%
1354 % \setcounter{hv@tempCNTfigB}{\value{figure}}%
1355 % \setcounter{hv@tempCNTtabA}{\value{table}}%

```

25 The Package Source

```

1356 % \setcounter{hv@tempCNTtabB}{\value{table}}%
1357 \afterpage{%
1358   \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1359   \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}% no
       interlineskip
1360   \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1361   \thispagestyle{empty}%
1362   \ifx\hv@floatType\hv@figure
1363     \global\refstepcounter{hv@tempCNTfigB}%
1364   \else
1365     \global\refstepcounter{hv@tempCNTtabB}% before caption
1366   \fi
1367   \expandafter\label\expandafter{\hv@label}%
1368   \clipbox*{0 0 \the\hv@leftPageObjectWidth{ } \height}{\usebox{\hvObjectBox}%
1369 \afterpage{%
1370   \if@twocolumn\newpage\null\newpage\fi
1371   \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1372   \thispagestyle{empty}%
1373   \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}% -0.5\
       paperheight+0.5\ht\hvObjectBox
1374   \hspace*{\hv@tempWidthA}%
1375   \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1376   \clipbox*{\the\hv@leftPageObjectWidth{ } \dp\hvObjectBox{ } \wd\hvObjectBox{ } \ht\hvObjectBox}{\usebox\
       hvObjectBox}%
1377   \ifx\hv@floatType\hv@figure
1378     \global\refstepcounter{hv@tempCNTfigA}%
1379   \else
1380     \global\refstepcounter{hv@tempCNTtabA}% before caption
1381   \fi
1382   \expandafter\label\expandafter{\hv@label-2}%
1383   \newpage\if@twocolumn\null\newpage\fi
1384 }}%
1385 }
1386
1387 \newif\ifhv@temp
1388
1389 \def\do@hvFloat@doubleFULLPAGE@CaptionAfter{%
1390   \afterpage{%
1391     \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1392     \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}% no
       interlineskip
1393     \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1394     \thispagestyle{empty}%
1395     \clipbox*{0 \the\dp\hvObjectBox{ } \the\hv@leftPageObjectWidth{ } \the\ht\hvObjectBox}{\usebox{\hvObjectBox}
       %
1396     \ifx\hv@floatType\hv@figure
1397       \refstepcounter{hv@tempCNTfigA}%
1398     \else
1399       \refstepcounter{hv@tempCNTtabA}% before caption
1400     \fi
1401     \ifx\hv@label\@empty\else\label{\hv@label}\fi
1402   % \afterpage{%
1403     \newpage\if@twocolumn\null\newpage\fi

```

```

1404 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1405 \thispagestyle{empty}%
1406 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}% -0.5\
    paperheight+0.5\ht\hvObjectBox
1407 \hspace*{\hv@tempwidthA}%
1408 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1409 \clipbox*{\the\hv@leftPageObjectWidth{} \dp\hvObjectBox{} \wd\hvObjectBox{} \ht\hvObjectBox}{\usebox\
    hvObjectBox}%
1410 \ifx\hv@floatType\hv@figure
1411 \refstepcounter{hv@tempCNTfigB}%
1412 \else
1413 \refstepcounter{hv@tempCNTtabB}% before caption
1414 \fi
1415 \expandafter\label\expandafter{\hv@label-2}%
1416 \newpage\if@twocolumn\null\newpage\fi
1417 \begin{\hv@floatType}[!b]
1418 \ifhv@separatorLine\drawSepLine\fi
1419 \expandafter\captionsetup\expandafter{\hv@caption@format}%
1420 \ifx\relax\hv@shortCap\relax
1421 \captionof{\hv@floatType}{\hv@longCap}%
1422 \else
1423 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1424 \fi
1425 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1426 \end{\hv@floatType}%
1427 }%}%
1428 }
1429
1430 \def\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol{%
1431 \afterpage{%
1432 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1433 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}% no
    interlineskip
1434 \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1435 \thispagestyle{empty}%
1436 \ifx\hv@floatType\hv@figure
1437 \refstepcounter{hv@tempCNTfigA}%
1438 \else
1439 \refstepcounter{hv@tempCNTtabA}% before caption
1440 \fi
1441 \ifx\hv@label\@empty\else\label{\hv@label}\fi
1442 \clipbox*{0 0 \the\hv@leftPageObjectWidth{} \height}{\usebox\hvObjectBox}%
1443 \newpage\if@twocolumn\null\newpage\fi
1444 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1445 \thispagestyle{empty}%
1446 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}% -0.5\
    paperheight+0.5\ht\hvObjectBox
1447 \hspace*{\hv@tempwidthA}%
1448 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1449 \clipbox*{\the\hv@leftPageObjectWidth{} \dp\hvObjectBox{} \wd\hvObjectBox{} \ht\hvObjectBox}{\usebox\
    hvObjectBox}%
1450 \ifx\hv@floatType\hv@figure
1451 \refstepcounter{hv@tempCNTfigB}%

```

```

1452 \else
1453 \refstepcounter{hv@tempCNTtabB}% before caption
1454 \fi
1455 \ifx\hv@label\@empty\else\label{\hv@label-2}\fi
1456 \newpage
1457 \begin{\hv@floatType*}[!b]
1458 \hv@twoColumnCaptiontrue
1459 \ifhv@separatorLine\drawSepLine\fi
1460 \expandafter\captionsetup\expandafter{\hv@caption@format}%
1461 \ifx\relax\hv@shortCap\relax
1462 \captionof{\hv@floatType}{\hv@longCap}%
1463 \else
1464 \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1465 \fi
1466 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1467 \end{\hv@floatType*}%
1468 }%
1469 }
1470
1471 \def\do@hvFloat@doubleFULLPAGE@CaptionOther#1{%
1472 \afterpage{%
1473 \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1474 \thispagestyle{empty}%
1475 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}% -0.5\
    paperheight+0.5\ht\hvObjectBox
1476 \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1477 \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1478 \clipbox*{0 \depth}{\hv@leftPageObjectWidth}{\height}{\usebox{\hvObjectBox}%
1479 \ifx\hv@floatType\hv@figure
1480 \refstepcounter{hv@tempCNTfigA}%
1481 \else
1482 \refstepcounter{hv@tempCNTtabA}% before caption
1483 \fi
1484 \label{\hv@label}%
1485 \afterpage{%
1486 \if@twoColumn\newpage\if@firstcolumn\else\null\newpage\fi\fi
1487 \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1488 \thispagestyle{empty}%
1489 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}% -0.5\
    paperheight+0.5\ht\hvObjectBox
1490 \hspace*{\hv@tempWidthA}%
1491 \clipbox*{\hv@leftPageObjectWidth}{\dp\hvObjectBox}{\wd\hvObjectBox}{\ht\hvObjectBox}{\usebox\
    hvObjectBox}%
1492 \ifx\hv@floatType\hv@figure
1493 \refstepcounter{hv@tempCNTfigB}%
1494 \else
1495 \refstepcounter{hv@tempCNTtabB}% before caption
1496 \fi
1497 \expandafter\label\expandafter{\hv@label-2}%
1498 \savebox\hvCaptionBox{\parbox{0.9\ht\hvObjectBox}{\captionof*{\hv@floatType}{\hv@longCap}}}%
1499 \ifnum#1 > 0\relax % rotation with 90°
1500 % \setlength\hv@tempWidthB{\dimexpr\ht\hvCaptionBox+\wd\hvObjectBox+2\hvSet@bindCorrection}%
1501 \ifdim\hv@tempWidthB < 2\paperwidth

```

```

1502 \rotatebox[origin=lb]{90}{\makebox[\paperheight][c]{\parbox{0.8\ht\hvObjectBox}{%
1503 \expandafter\captionsetup\expandafter{\hv@caption@format}%
1504 \ifx\relax\hv@shortCap\relax
1505 \captionof{\hv@floatType}{\hv@longCap}%
1506 \else
1507 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1508 \fi
1509 }}}% rotatebox
1510 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1511 \else% ifdim: no space left on page
1512 \put(-2\ht\hvCaptionBox,0.5\ht\hvObjectBox){\makebox(0,0){\rotatebox{90}{\minipage{\textwidth}\
centering
1513 \parbox{0.8\textwidth}{%
1514 \ifx\relax\hv@shortCap\relax
1515 \captionof{\hv@floatType}{\hv@longCap}%
1516 \else
1517 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1518 \fi
1519 }%
1520 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1521 \endminipage}}}%
1522 \fi
1523 \else% ifnum, caption not rotated, under or over the right page
1524 \setlength\hv@tempWidthA{\dimexpr\paperheight-\ht\hvObjectBox}%
1525 \ifdim\hv@tempWidthA > \ht\hvCaptionBox
1526 \else
1527 \put(\the\dimexpr1.5\paperwidth-\wd\hvObjectBox-\hvSet@bindCorrection,\the\dimexpr\ht\hvCaptionBox
+abovcaptionskip+belowcaptionskip){\makebox[0pt][c]{\parbox{\textwidth}{%%
1528 \expandafter\captionsetup\expandafter{\hv@caption@format}%
1529 \ifx\relax\hv@shortCap\relax
1530 \captionof{\hv@floatType}{\hv@longCap}%
1531 \else
1532 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1533 \fi
1534 }}}%
1535 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1536 \fi
1537 \fi% end \ifnum#1>0
1538 \newpage\if@twocolumn\newpage\fi
1539 }%
1540 }%
1541 }
1542
1543
1544 \def\setBottomCaption{%
1545 \begin{\hv@floatType}[!b]%
1546 \ifhv@separatorLine\drawSepLine\fi
1547 \par
1548 \usebox\hvCaptionBox
1549 \end{\hv@floatType}%
1550 }
1551
1552 \def\setPageObject{%

```

25 The Package Source

```

1553 \ifhv@star
1554   \begin{\hv@floatType*}[p]%
1555 \else
1556   \begin{\hv@floatType}[p]%
1557 \fi
1558 \ifhv@FULLPAGE
1559   \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep}%-0.5\baselineskip%
1560   \checkoddpage
1561   \if@twoside
1562     \ifoddpage
1563       \hspace*{\the\dimexpr-\oddsidemargin-\parindent-\lin}%
1564     \else
1565       \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1566     \fi
1567 \else
1568   \hspace*{\the\dimexpr-\oddsidemargin-\parindent-\lin}%
1569 \fi
1570 \AtBeginShipoutNext{\thispagestyle{empty}}%
1571 \usebox\hvObjectBox%
1572 \else
1573   \usebox\hvObjectBox
1574 \fi
1575 \ifhv@star
1576   \end{\hv@floatType*}%
1577 \else
1578   \end{\hv@floatType}%
1579 \fi
1580 }
1581
1582 \ExplSyntaxOn
1583
1584 \def\getMultiCaptionAndLabel{%
1585   \global\sbox\hvCaptionBox{\minipage[b]{\linewidth}%
1586     \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
1587     \setlength\belowcaptionskip{5pt}%
1588     \setlength\abovecaptionskip{0pt}%
1589     \hv@cntb=\clist_count:N\l_clist_Type
1590     \advance\hv@cntb by \@ne
1591     \hv@cmta=1
1592     \loop
1593       \edef\@captype{\clist_item:Nn\l_clist_Type{\hv@cmta}}%
1594       \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{\hv@cmta}}%
1595       \ifx\@tempa\empty
1596         \caption{\clist_item:Nn\l_clist_Caption{\hv@cmta}}%
1597       \else
1598         \expandafter\caption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{\hv@cmta}}%
1599       \fi
1600       \edef\@tempa{\clist_item:Nn\l_clist_Label{\hv@cmta}}%
1601       \ifx\@tempa\empty
1602       \else
1603         \expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{\hv@cmta}-cap}\fi
1604       \advance\hv@cmta by \@ne
1605     \ifnum\hv@cmta<\hv@cntb

```

```

1606     \repeat
1607 \endminipage}%
1608 }
1609
1610 \def\getMultiObjectAndLabel{%
1611 \global\setbox\hvObjectBox{%
1612   \ifhv@vFill
1613     \minipage[b][\textheight][s]{\columnwidth}%
1614   \else
1615     \minipage{\columnwidth}%
1616   \fi
1617   \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
1618   \ifx\hvSet@objectPos\hv@Right\raggedleft\else
1619     \ifx\hvSet@objectPos\hv@Left\raggedleft\else
1620       \ifx\hvSet@objectPos\hv@Center\centering
1621     \fi\fi\fi
1622   \hv@cntb=\clist_count:N\l_clist_Type
1623   \advance\hv@cntb by \@ne
1624   \hv@cнта=1
1625   \loop
1626     \def\@tempa{\clist_item:Nn\l_clist_Object{\hv@cнта}}%
1627     \ifhv@objectFrame\frame{\@tempa}\else\@tempa\fi
1628     \edef\@tempa{\clist_item:Nn\l_clist_Label{\hv@cнта}}%
1629     \edef\@tempb{\clist_item:Nn\l_clist_Type{\hv@cнта}}%
1630     \edef\@capttype{\hv@p\@tempb}%
1631     \ifx\@tempa\@empty
1632     \else
1633       \refstepcounter{\@capttype}%
1634       \expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{\hv@cнта}}%
1635     \fi
1636     \ifnum\hv@cнта<\clist_count:N\l_clist_Type\par\hv@vskip\fi
1637     \advance\hv@cнта by \@ne
1638   \ifnum\hv@cнта<\hv@cntb
1639     \ifhv@vFill\vfill\fi
1640   \repeat
1641 \endminipage}%
1642 }
1643
1644 \def\getMultiSubCaptionAndLabel{%
1645 \global\setbox\hvCaptionBox{\minipage{\linewidth}%
1646   \ifx\hv@caption@format\@empty\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
1647   \setlength\belowcaptionskip{5pt}%
1648   \setlength\abovecaptionskip{0pt}%
1649   \xdef\@capttype{\clist_item:Nn\l_clist_Type{1}}% the same for all subfloats
1650   \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{1}}%
1651   \ifx\@tempa\@empty
1652     \caption{\clist_item:Nn\l_clist_Caption{1}}%
1653   \else
1654     \expandafter\caption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{1}}%
1655   \fi
1656   \edef\@tempa{\clist_item:Nn\l_clist_Label{1}}%
1657   \ifx\@tempa\@empty\else\expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{1}-cap}\fi
1658 \endminipage}%

```

```

1659 }
1660
1661 \def\getMultiSubObjectAndLabel{%
1662   \global\sbox\hvObjectBox{%
1663     \ifhv@vFill
1664       \minipage[b][\textheight][s]{\columnwidth}%
1665     \else
1666       \minipage{\columnwidth}%
1667     \fi
1668     \ifx\hv@subcaption@format\@empty\else
1669       \expandafter
1670       \captionsetup\expandafter[\expandafter s\expandafter u\expandafter b\expandafter]\expandafter
1671       {\hv@subcaption@format}%
1672     \fi
1673     \ifx\hvSet@objectPos\hv@Right\raggedleft\else
1674       \ifx\hvSet@objectPos\hv@Left\raggedleft\else
1675         \ifx\hvSet@objectPos\hv@Center\centering
1676       \fi\fi\fi
1677     \hv@cntb=\clist_count:N\l_clist_Caption
1678     \advance\hv@cntb by \@ne
1679     \hv@cmta=2
1680     \edef\@captype{\clist_item:Nn\l_clist_Type{1}}% the same for all subfloats
1681     \loop
1682       \def\@temp{\clist_item:Nn\l_clist_Object{\hv@cmta}}%
1683       \ifhv@objectFrame\frame{\@temp}\else\@temp\fi
1684       \begingroup
1685       \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{\hv@cmta}}%
1686       \ifx\@tempa\@empty
1687         \subcaption{\clist_item:Nn\l_clist_Caption{\hv@cmta}}%
1688       \else
1689         \expandafter\subcaption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{\hv@cmta}}%
1690       \fi
1691       \edef\@tempa{\clist_item:Nn\l_clist_Label{\hv@cmta}}%
1692       \ifx\@tempa\@empty
1693       \else
1694         \expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{\hv@cmta}}%
1695       \fi
1696       \endgroup
1697       \ifnum\hv@cmta<\clist_count:N\l_clist_Type\par\hv@vskip\fi
1698       \advance\hv@cmta by \@ne
1699       \ifnum\hv@cmta<\hv@cntb
1700       \ifhv@vFill\vfill\fi
1701     \repeat
1702     \edef\@tempa{\clist_item:Nn\l_clist_Label{1}}% the main label at the end
1703     \ifx\@tempa\@empty
1704     \else
1705       \addtocounter{\@captype}{-1}% to get the same <object>-ref as "label"-cap
1706       \refstepcounter{\@captype}%
1707       \expandafter\label\expandafter{\@tempa}%
1708     \fi
1709   \endminipage}%
1710 }
1711 \ExplSyntaxOff

```

```

1712
1713 \def\getSingleCaptionAndLabel{%
1714   \global\sbox\hvCaptionBox{\minipage{\linewidth}%
1715     \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
1716     \setlength\belowcaptionskip{5pt}%
1717     \setlength\abovecaptionskip{0pt}%
1718     \edef\@capttype{\hv@floatType}%
1719     \expandafter\ifx\expandafter\relax\hv@shortCap\relax
1720       \caption{\hv@longCap}%
1721     \else
1722       \caption[\hv@shortCap]{\hv@longCap}%
1723     \fi
1724     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1725   \endminipage}%
1726 }
1727
1728 \def\set@caption@object#1{% first caption, then object #1=\hv@floatType
1729   \ifhv@multiFloat
1730     \getMultiCaptionAndLabel
1731   \else
1732     \ifhv@subFloat
1733       \getMultiSubCaptionAndLabel
1734     \else
1735       \getSingleCaptionAndLabel
1736     \fi
1737   \fi
1738   \edef\@capttype{\hv@p#1}%
1739   \ifhv@multiFloat
1740     \getMultiObjectAndLabel
1741   \else
1742     \ifhv@subFloat
1743       \getMultiSubObjectAndLabel
1744     \else
1745       \global\sbox\hvObjectBox{%
1746         \refstepcounter{\@capttype}%
1747         \ifhv@objectFrame\frame{\hv@floatObject}\else\hv@floatObject\fi
1748         \expandafter\ifx\expandafter\relax\hv@label\relax
1749           \else
1750             \expandafter\label\expandafter{\hv@label}%
1751           \fi
1752       }%
1753     \fi
1754   \fi
1755 }
1756 %
1757 \endinput

```