

Package hvfloat

Controlling captions, fullpage and doublepage floats

ver 2.30

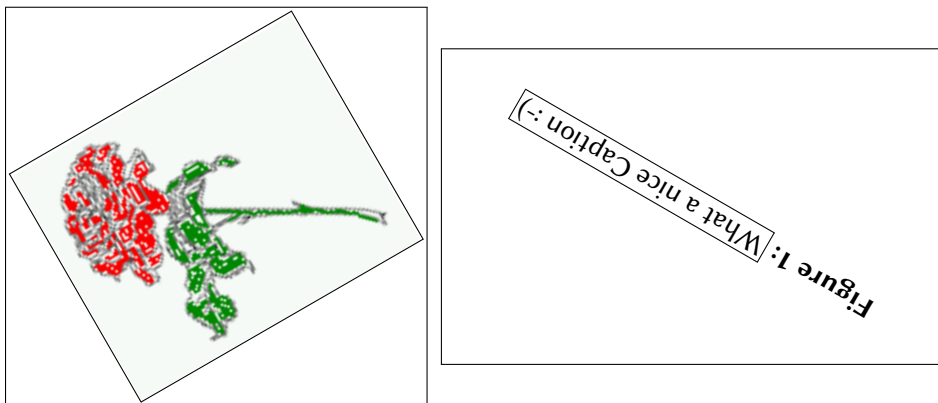
Herbert Voß*

June 20, 2021

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!



*hvoss@tug.org

Thanks to Karl Berry, Frank Mittelbach, Rolf Niepraschk

Contents

| | | |
|-----------|--|-----------|
| 1 | The package options | 7 |
| 2 | The Macros and optional arguments | 7 |
| 3 | The default use of floating environments | 9 |
| 4 | Caption width | 11 |
| 4.1 | Default – natural width | 11 |
| 4.2 | Relative linewidth | 11 |
| 4.3 | Identical object and caption width | 12 |
| 4.4 | caption width to height of the object | 13 |
| 5 | Caption left or right of the object | 13 |
| 5.1 | Caption right with specific length | 14 |
| 5.2 | Caption left and rotated | 14 |
| 6 | Caption inner or outer | 16 |
| 7 | Vertical Position of the Caption | 18 |
| 8 | Caption format | 19 |
| 9 | Horizontal Position of the Float | 20 |
| 10 | Wide floats | 22 |
| 11 | The star version <code>\hvFloat*</code> | 24 |
| 12 | Full Page Width in Landscape Mode | 24 |
| 13 | The <code>nonFloat</code> Option | 28 |
| 14 | Tabulars as Objects | 29 |
| 15 | Text and objects | 30 |
| 16 | Environment <code>hvFloatEnv</code> | 32 |
| 17 | Full page objects in onecolumn mode | 33 |
| 17.1 | Using the <code>textarea</code> | 34 |
| 17.1.1 | Using the default or <code>capPos=before</code> | 34 |
| 17.1.2 | Using <code>capPos=after</code> | 36 |
| 17.1.3 | Using <code>capPos=evenPage</code> — caption on an even page | 37 |
| 17.1.4 | Using <code>capPos=oddPage</code> — caption on an odd page | 38 |

| | | |
|-----------|---|------------|
| 17.1.5 | Using capPos=inner or capPos=outer — caption on the inner or outer side | 38 |
| 17.2 | Using the paper size | 39 |
| 17.3 | Multifloats | 40 |
| 18 | Subfloat page | 42 |
| 19 | Full page objects in twocolumn mode | 44 |
| 19.1 | Default setting | 44 |
| 19.1.1 | Using capPos=after | 45 |
| 19.1.2 | Using capPos=evenPage — caption on an even page | 49 |
| 19.1.3 | Using capPos=oddPage — caption on an odd page | 50 |
| 19.1.4 | Using capPos=inner — caption in the inner column | 51 |
| 19.1.5 | Using capPos=outer — caption on the outer column | 52 |
| 19.2 | Using full page in twocolumn mode | 53 |
| 19.3 | Multifloats | 54 |
| 20 | Subfloat page | 55 |
| 21 | Doublepage objects – images and/or tabulars | 58 |
| 21.1 | doubleFULLPAGE | 58 |
| 21.2 | doublePAGE | 79 |
| 21.3 | doublePage | 83 |
| 21.4 | Tabulars | 92 |
| 22 | References to the page | 96 |
| 23 | Defining a style | 98 |
| 24 | Global float setting | 100 |
| 25 | The Package Source | 109 |

List of Tables

| | | |
|---|---|----|
| 1 | The Caption without sense ... | 7 |
| 2 | The optional keywords for the macro \hvFloat | 8 |
| 3 | With the only Option capPos=top to place the caption on top of the table, which is often the default. | 10 |
| 4 | Demonstration of the use0Box Parameter | 30 |
| 5 | Demonstration of the use0Box Parameter | 31 |
| 6 | A caption for a nice table | 32 |
| 7 | A caption for a nice table | 32 |
| 8 | Valid optional arguments for a full page object. | 34 |
| 9 | A doublepage tabular with a caption on the right side of the right part. | 97 |

List of Figures

| | | |
|----|--|----|
| 1 | What a nice Caption :-) | 1 |
| 2 | Without any keywords (only the fbox package option) | 10 |
| 3 | Default caption width setting, which is the natural width with respect to the current linewidth. | 11 |
| 4 | Caption right beside with a <i>natural</i> width, which is given by the width of the object, the separation between object and caption, and the current linewidth. | 12 |
| 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. | 12 |
| 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. | 13 |
| 7 | Caption below with a width of the given object which may be a problem if it is a very small object. | 13 |
| 8 | Caption beside with a width of the given object height which may be a problem if it is a very small object. | 14 |
| 9 | Caption beside object and vertically centered | 14 |
| 10 | Centered Caption beside Object | 15 |
| 11 | Caption vertically centered right beside the float with a caption width of the height of the image and a rotation of the caption and the object. | 16 |
| 12 | Centered Caption on the inner side | 16 |
| 13 | Centered Caption on the inner side | 17 |
| 14 | Centered Caption beside Object | 17 |
| 15 | Centered Caption beside Object | 18 |
| 16 | Caption at bottom right beside the float | 18 |
| 17 | Caption at top left beside the float | 19 |
| 18 | Caption centered right beside the float | 19 |

| | | |
|----|--|----|
| 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. | 20 |
| 20 | Caption at top right beside the float and object position left | 21 |
| 21 | Caption at top right beside the float and object position left | 21 |
| 22 | Caption at top left beside the float and object position right | 22 |
| 23 | Caption at top right beside the float and object position left and the option wide. | 22 |
| 24 | Caption at top left beside the object and object position left and the option wide. | 23 |
| 25 | Caption at top and inner beside the float and object position right and the option wide. | 23 |
| 26 | Caption at top inner beside the float and object position right and the option wide. | 24 |
| 27 | Caption at top inner beside the float and object position right and the option wide. | 24 |
| 28 | Output of default1s2c (pages 2–5) | 25 |
| 29 | Object and Caption in landscape mode | 26 |
| 30 | Rotated Caption in Landscape | 27 |
| 31 | Nonfloat Captions | 29 |
| 32 | Output of fullpage1s2c (pages 1–8) | 33 |
| 33 | Output of default1s1c (pages 2–9) | 35 |
| 34 | Output of after1s1c (pages 2–9) | 36 |
| 35 | Output of even1s1c (pages 2–9) | 37 |
| 36 | Output of odd1s1c (pages 2–9) | 38 |
| 37 | Output of paper-default1s1c (pages 2–9) | 39 |
| 38 | Output of paper-after1s1c (pages 2–9) | 40 |
| 39 | Output of multi-default1s1c (pages 4–11) | 41 |
| 40 | Output of multi-after1s1c (pages 4–11) | 42 |
| 41 | Output of sub-default1s1c (pages 4–11) | 43 |
| 42 | Output of sub-after1s1c (pages 4–11) | 44 |
| 43 | Output of default2s2c (pages 2–9) | 45 |
| 44 | Output of left2s2c (pages 2–9) | 46 |
| 45 | Output of after2s2c (pages 2–9) | 47 |
| 46 | Output of right2s2c (pages 2–9) | 48 |
| 47 | Output of even2s2c (pages 2–9) | 49 |
| 48 | Output of odd2s2c (pages 2–9) | 50 |
| 49 | Output of inner2s2c (pages 2–9) | 51 |
| 50 | Output of outer2s2c (pages 2–9) | 52 |
| 51 | Output of paper-default2s2c (pages 2–9) | 53 |
| 52 | Output of paper-inner2s2c (pages 2–9) | 54 |
| 53 | Output of multi-default2s2c (pages 2–9) | 55 |

List of Figures

| | | |
|----|---|-----|
| 54 | Output of multi-inner2s2c (pages 2-9) | 56 |
| 55 | Output of sub-default2s2c (pages 2-9) | 57 |
| 56 | Output of sub-after2s2c (pages 2-9) | 57 |
| 57 | A doublepage image with a caption on the image. | 61 |
| 58 | A doublepage image with a caption on the image. | 65 |
| 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 | 69 |
| 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 . . . | 74 |
| 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 . . . | 75 |
| 62 | A doublepage image with a caption below the right part. | 81 |
| 63 | A doublepage image with a caption on the right side of the right part. | 85 |
| 64 | A doublepage image with a caption on the right side of the right part. | 89 |
| 65 | A doublepage image with a caption on the right side of the right part. | 93 |
| 66 | Caption at bottom right beside the float with a caption width of 0.5\columnwidth. | 98 |
| 67 | A float which needs the complete paper width and height. | 102 |

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

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

Table 1: A Caption without any sense and any object

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

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

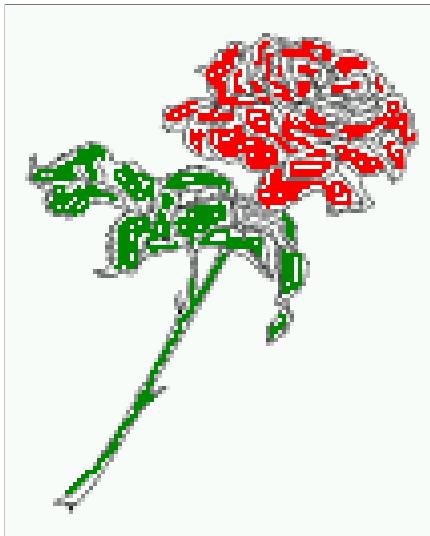


Figure 4: Caption right beside with a *natural* width, which is given by the width of the object, the separation between object and caption, and the current linewidth.



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\textbackslash 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}
```

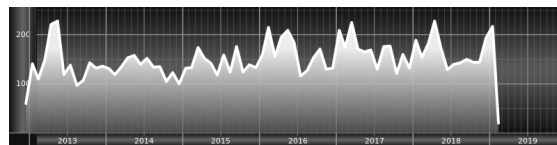


Figure 7: Caption below with a width of the given object which may be a problem if it is a very small object.

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` :

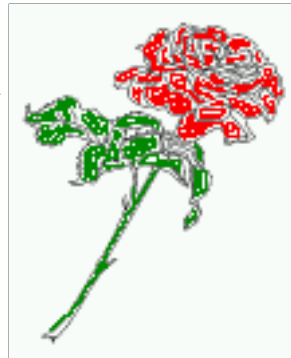
Fig. 21

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

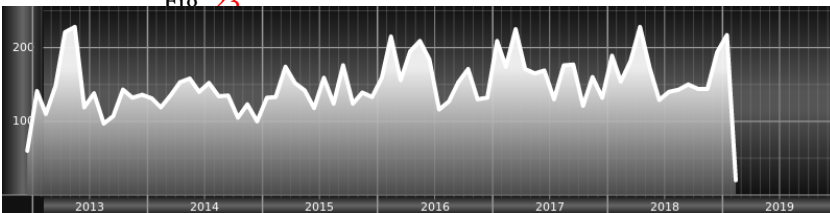
With the optional argument `wide` the width of the defined `\marginparwidth` is added to the allowed horizontal width of the float.

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

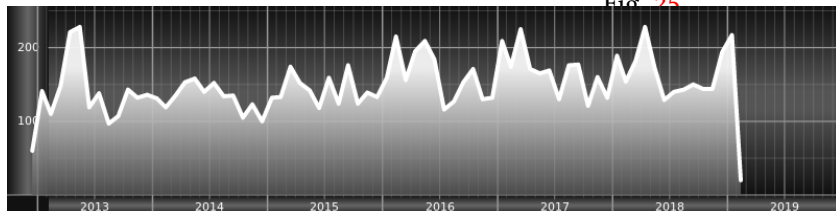
Figure 24: Caption at top left beside the object and object position left and the option wide.



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

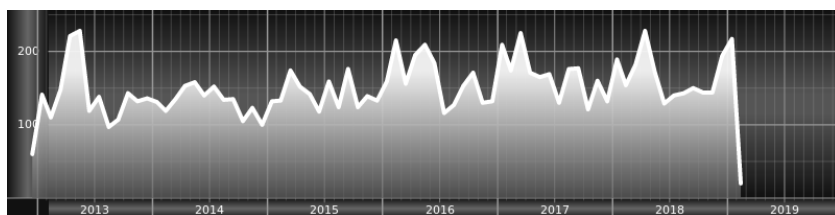
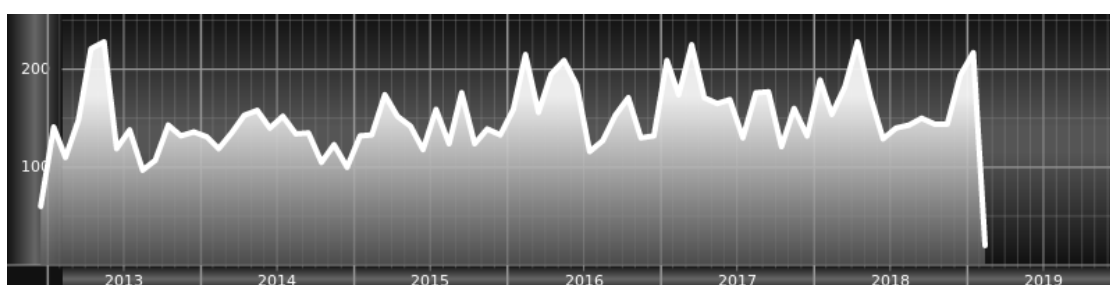


Figure 26: Caption at top inner beside the float and object position right and the option wide.

```
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:

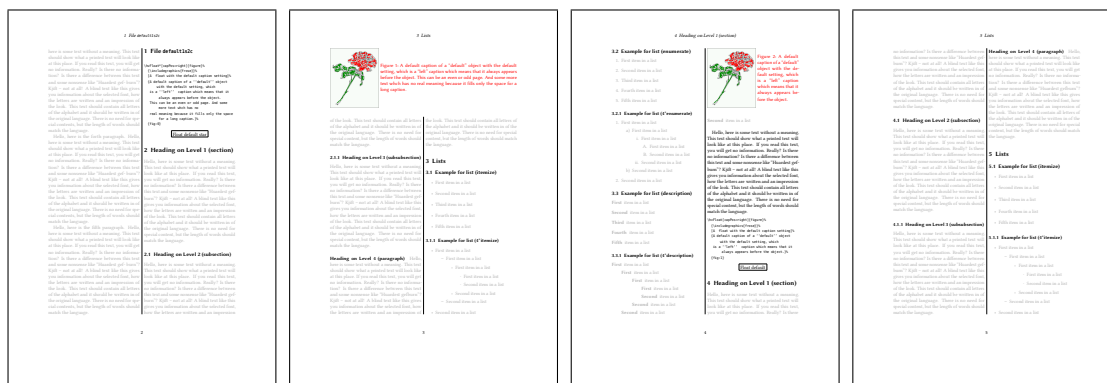


Figure 28: Output of default1s2c (pages 2–5)

```
\hvfFloat[%
    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:

```
\hvfFloat[%
    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

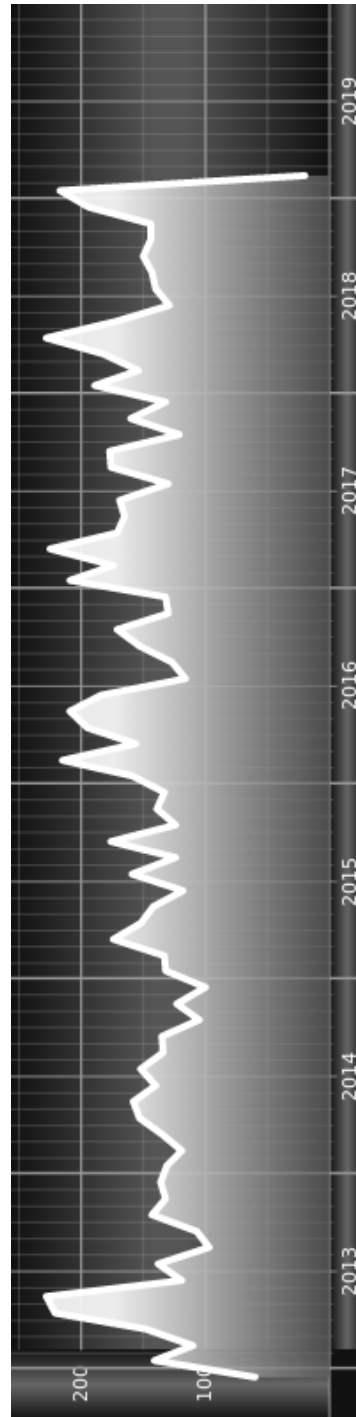
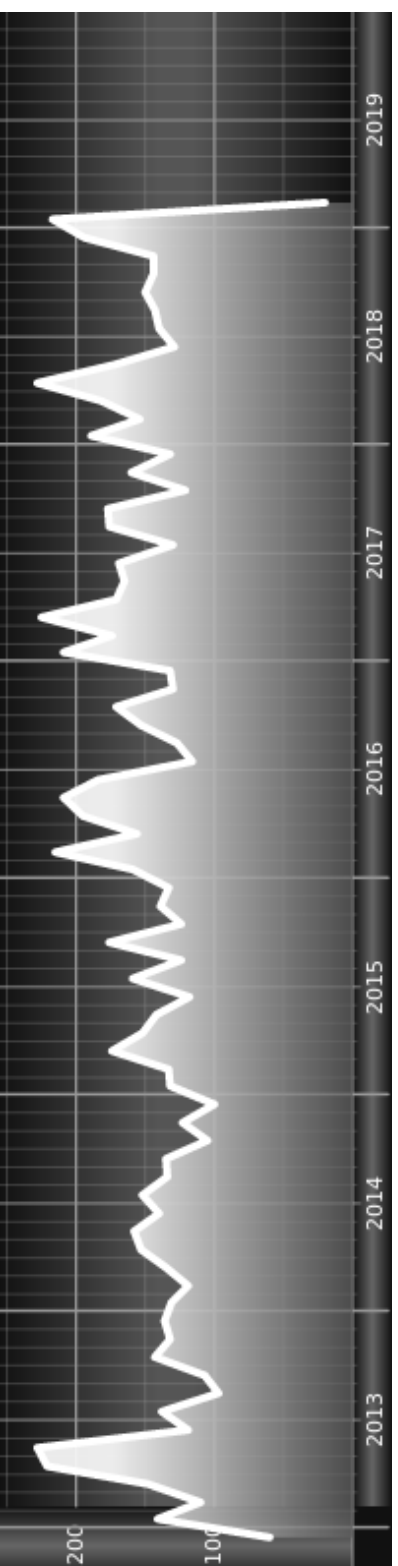


Figure 29: Caption and object in landscape mode. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense 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. 31

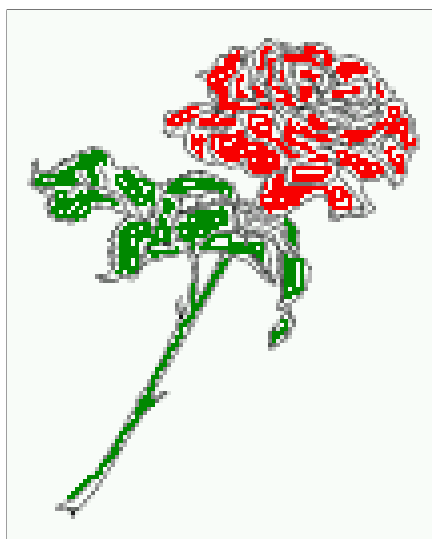


Figure 31: Caption of a “nonfloat” Object, using the nonfloat Package

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

The image 31 is exactly placed where the command `\hvFloat` appears. There are only commands for figure and table environments:

```
\newcommand{\figcaption}{\def\@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}%
}%
\define@key{Gin}{FullPage}[true]{%
  \def\Gin@ewidth{\textwidth}%
  \def\Gin@eheight{\textheight}%
  \Gin@boolkey{false}{iso}%
}%
}
```

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

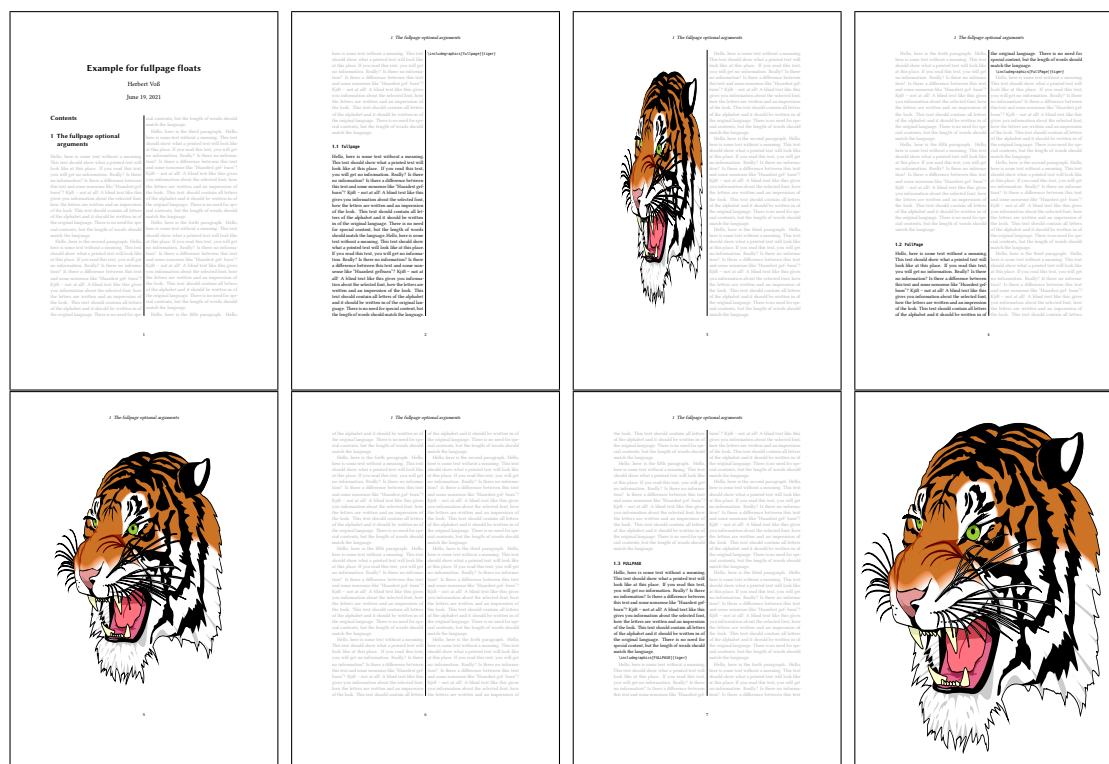


Figure 32: Output of fullpage1s2c (pages 1–8)

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.

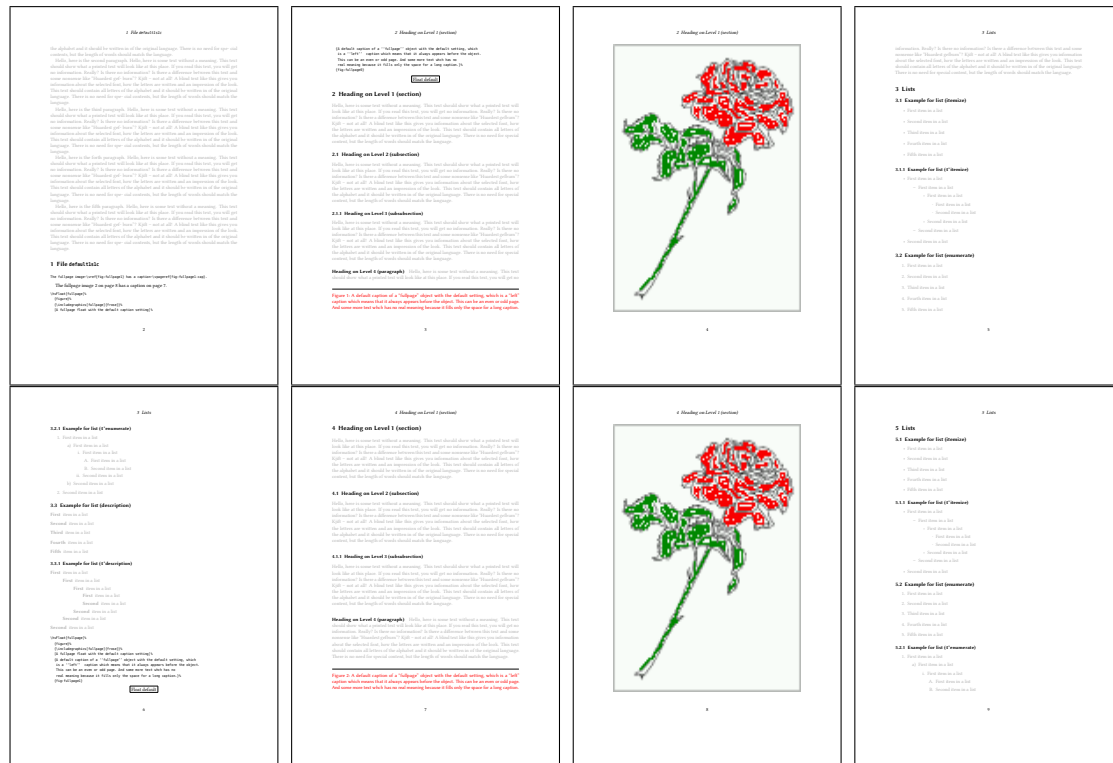


Figure 33: Output of default1s1c (pages 2–9)

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.

```
\hvfloate[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}}
```

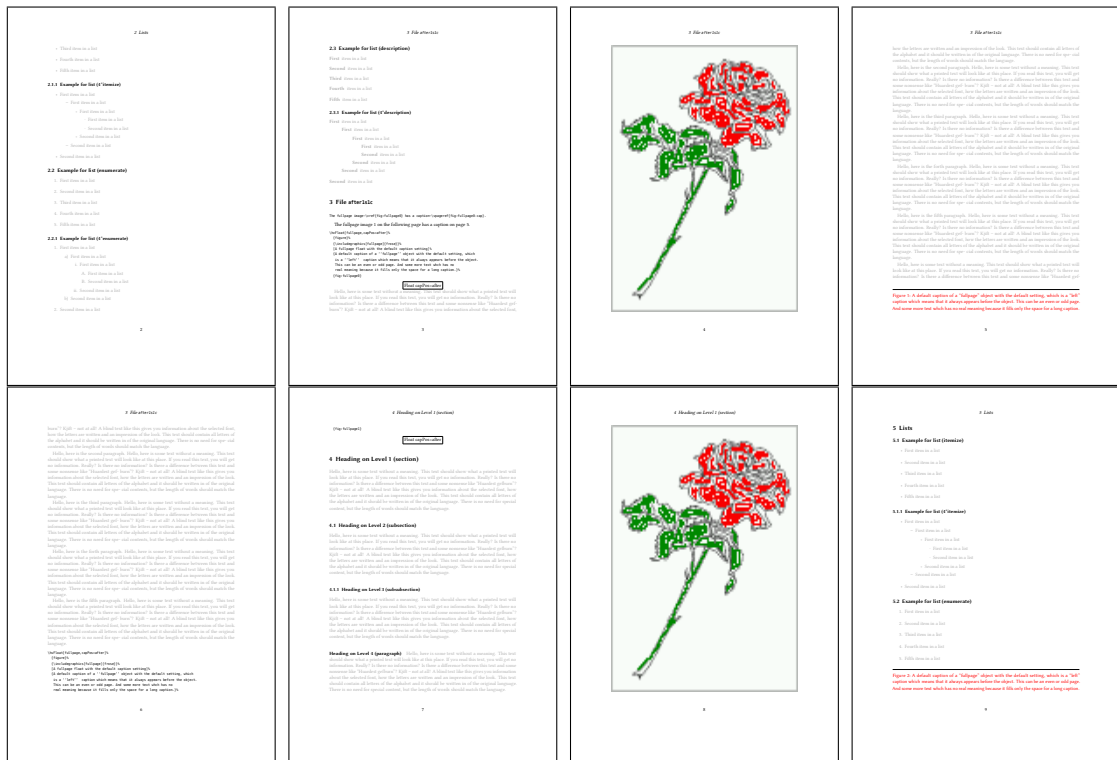


Figure 34: Output of after1s1c (pages 2–9)

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!

```
\hvfloa[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}
```

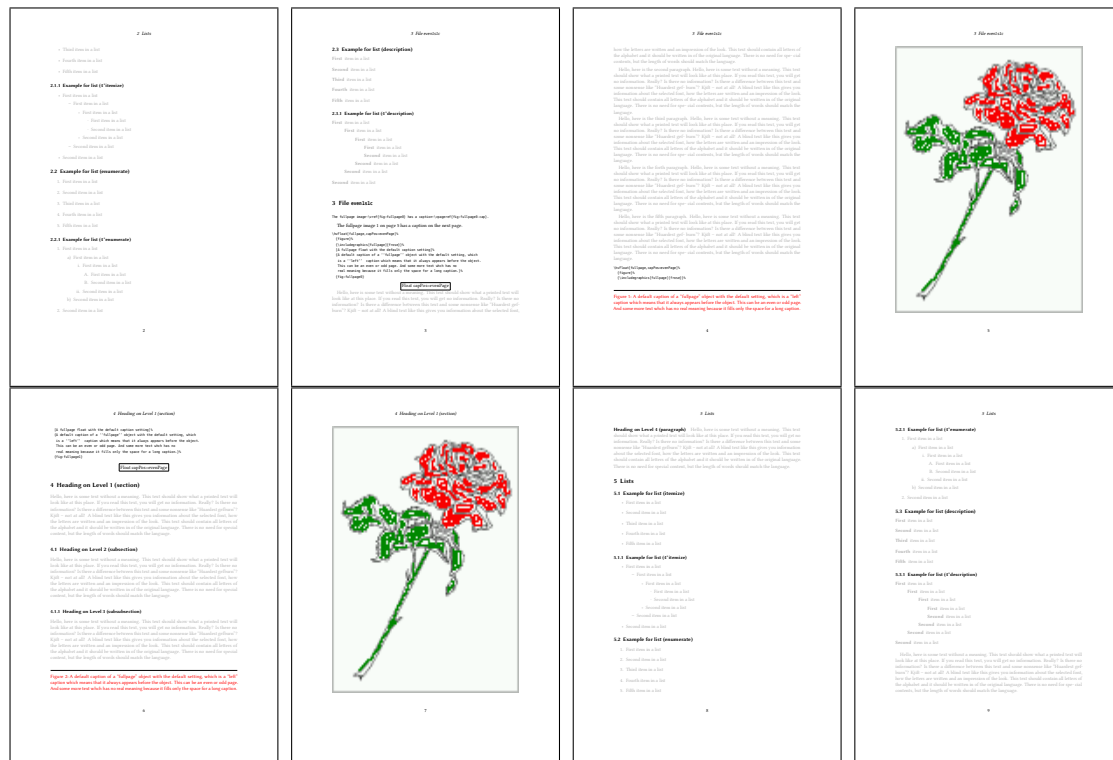


Figure 35: Output of even1s1c (pages 2–9)

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.

```
\hvfloa[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}
```

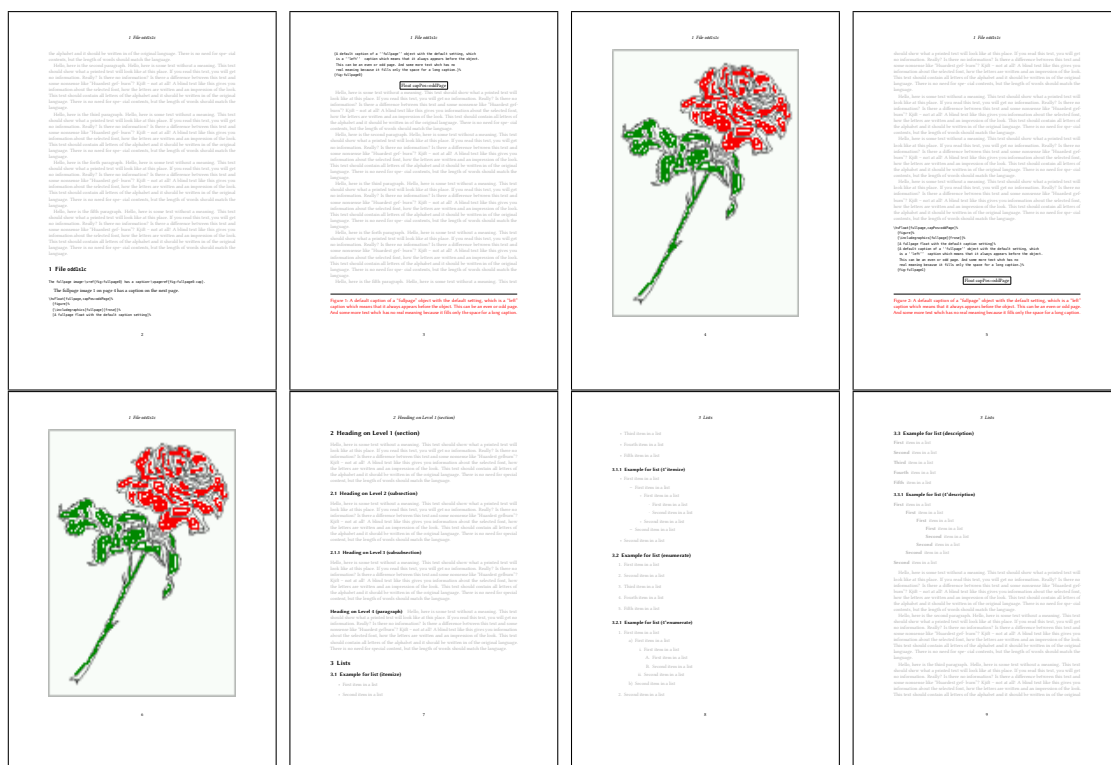


Figure 36: Output of odd1s1c (pages 2–9)

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}
```

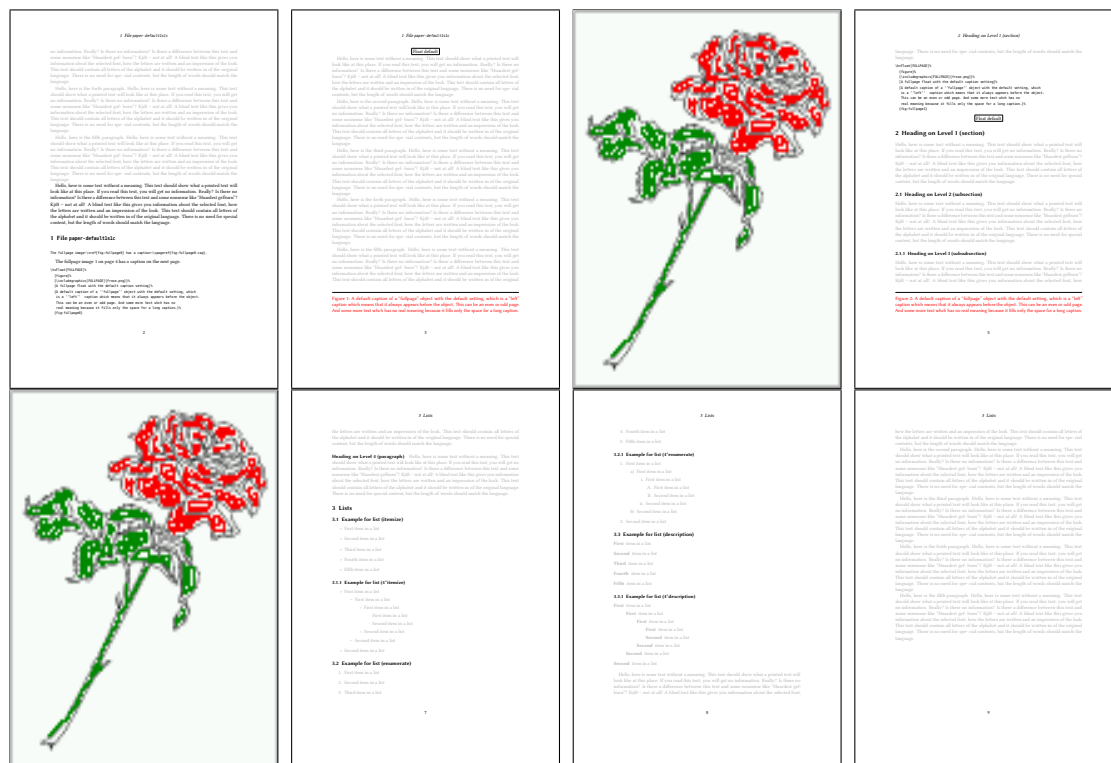


Figure 37: Output of paper-default1s1c (pages 2–9)

17 Full page objects in onecolumn mode

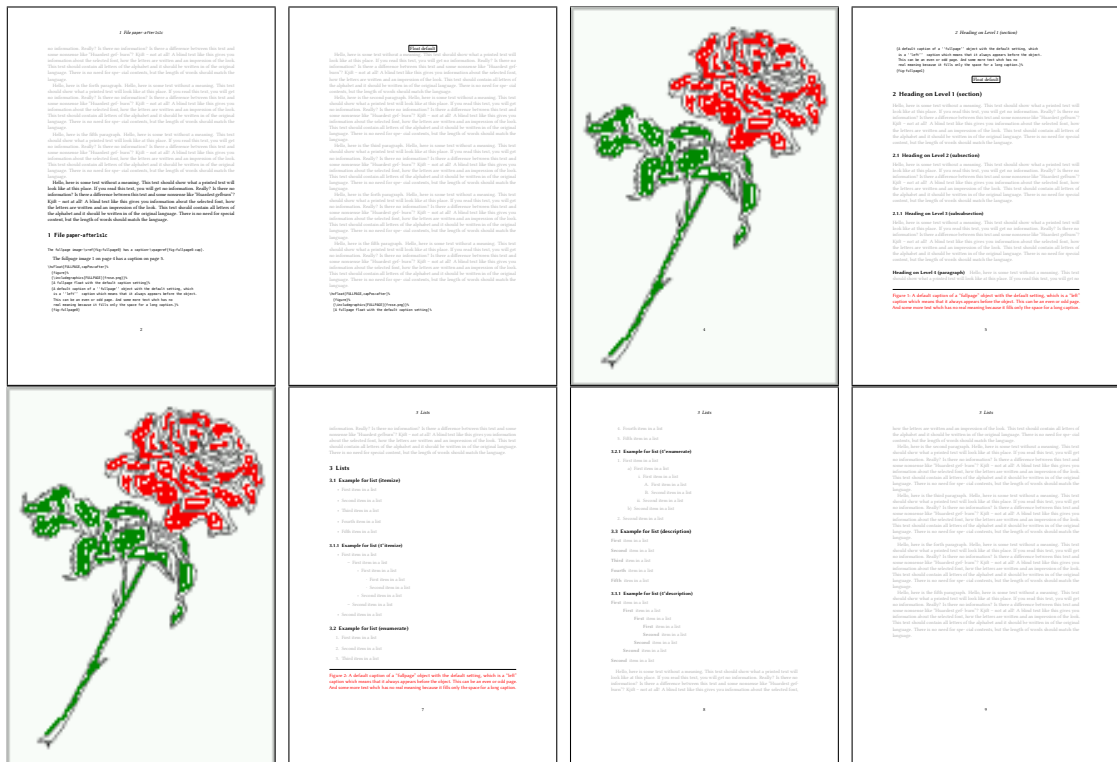


Figure 38: Output of paper-after1s1c (pages 2–9)

17.3 Multifloats

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

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

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

```
\captionsetup{singlelinecheck=false}
\hvFloat[fullpage,capPos=before,multiFloat,vFill]%
+{figure}{\includegraphics[width=\linewidth]{images/CTAN}}% no 1
[Short caption A]%
{A Caption A 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.}%


```

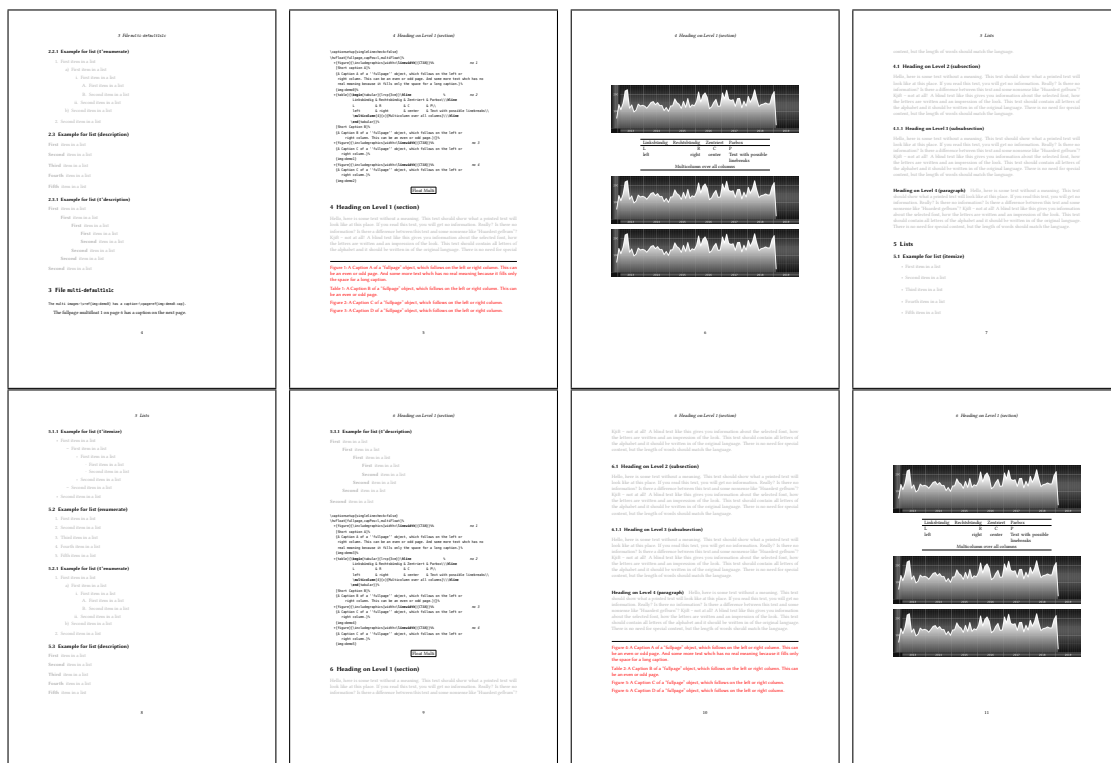


Figure 39: Output of multi-default1s1c (pages 4–11)

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

18 Subfloat page

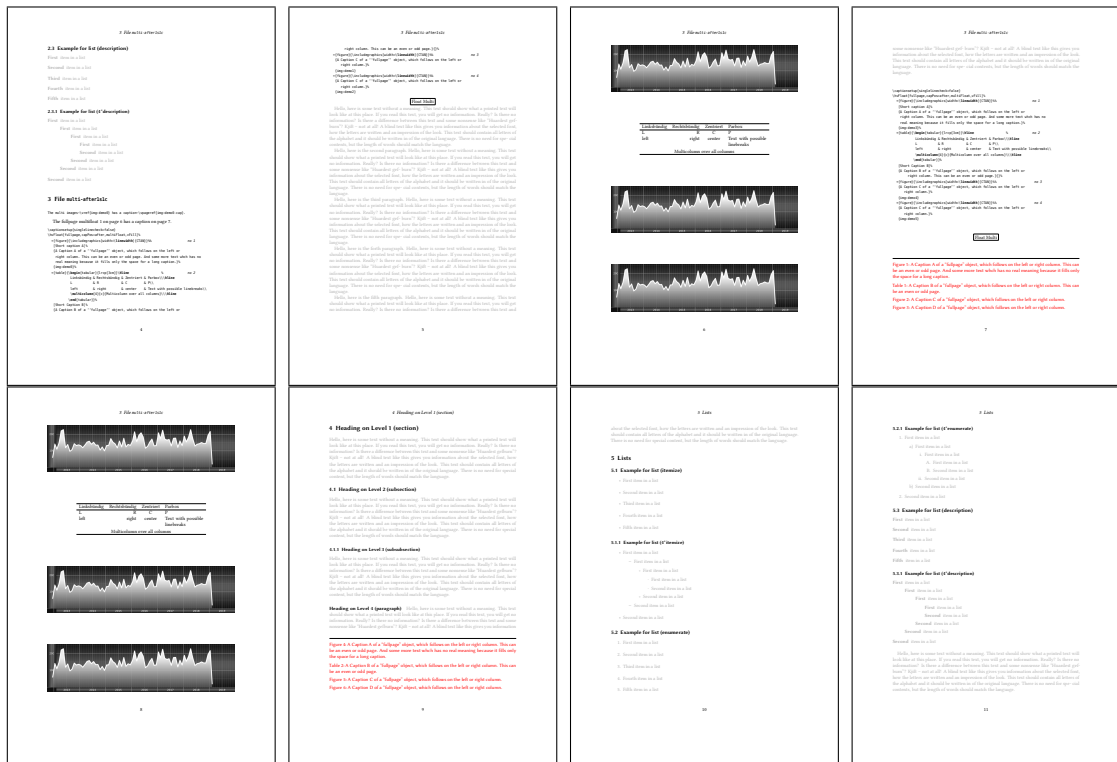


Figure 40: Output of multi-after1s1c (pages 4–11)

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]`.

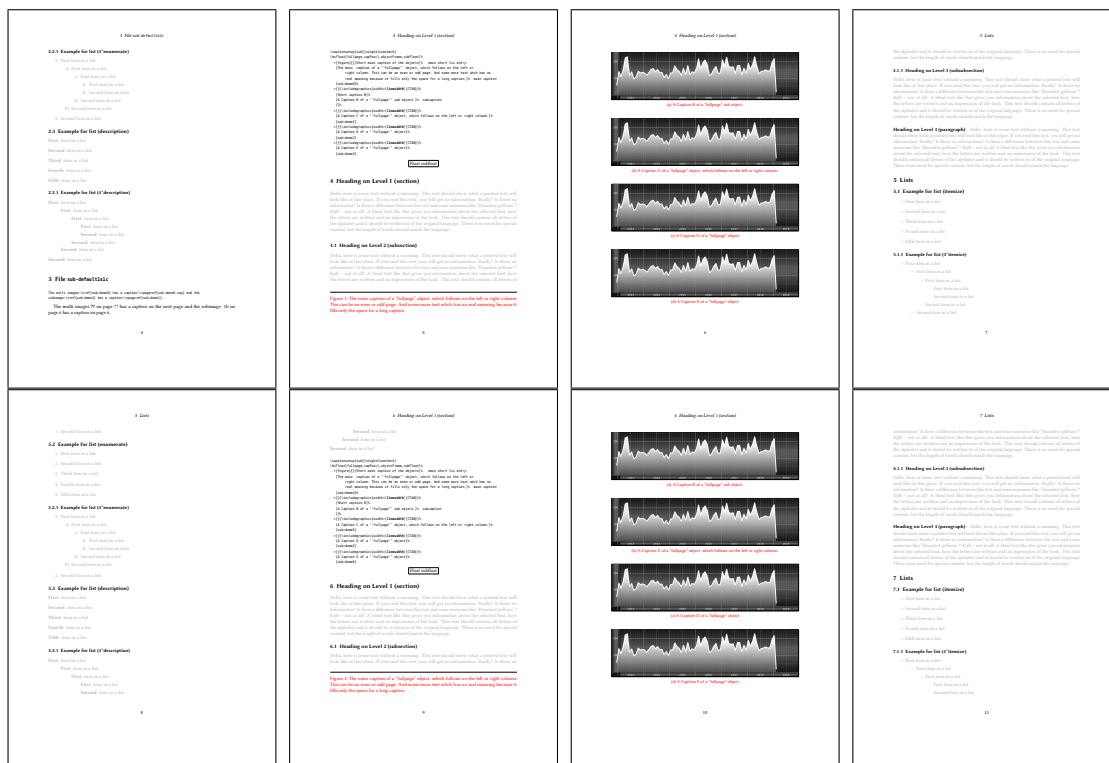


Figure 41: Output of `sub-default1s1c` (pages 4–11)

19 Full page objects in twocolumn mode

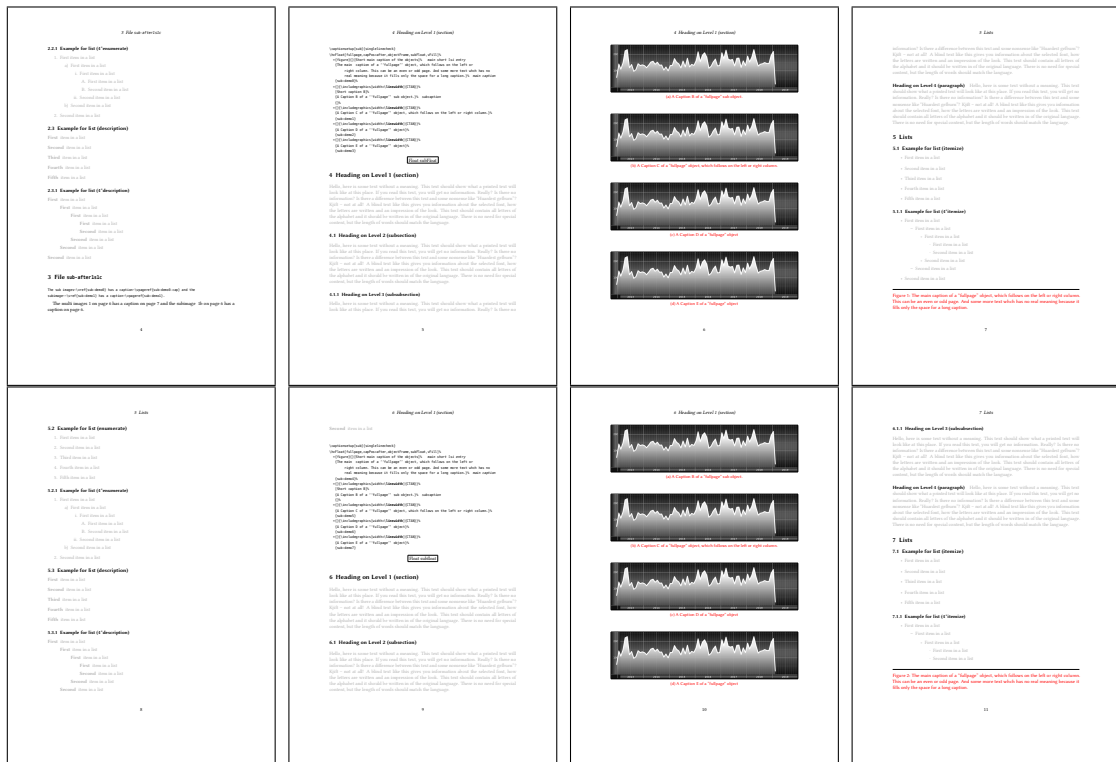


Figure 42: Output of sub-after1s1c (pages 4–11)

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).

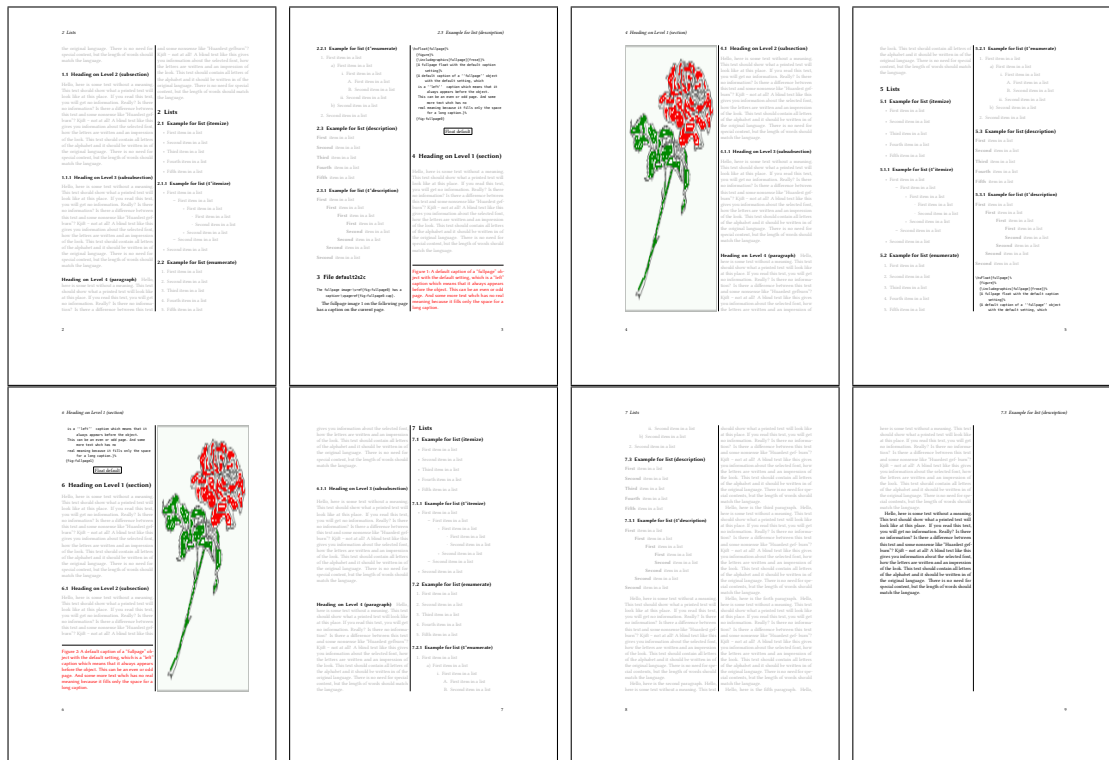


Figure 43: Output of default2s2c (pages 2–9)

```
\hvFloat[fullpage]{figure}%
{\includegraphics[width=\columnwidth,height=0.9\textheight]{images/frose}}%
[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}
```

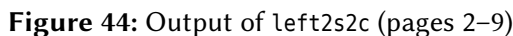
The example 43 shows that the caption and the object can be on different pages. If you do not like this behaviour, then use the setting `capPos=left`, which puts the caption before the object, but always on the *same page* (see Figure 44 on the following page).

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}}%
```

46



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.

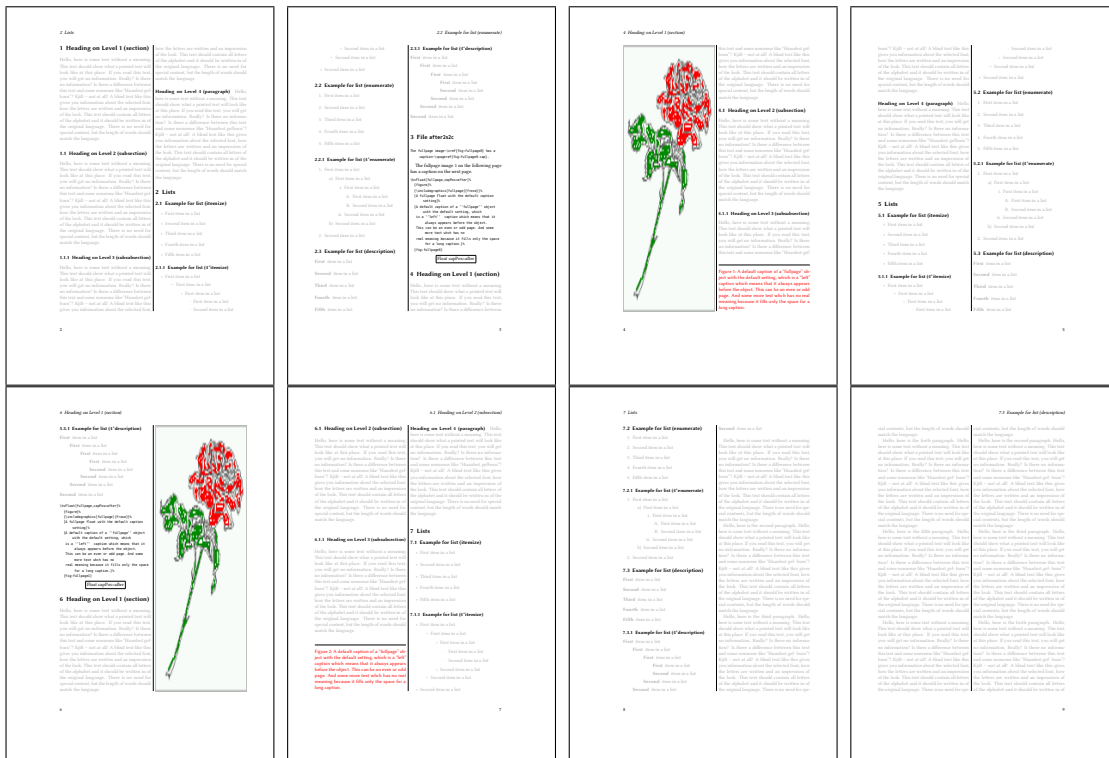


Figure 45: Output of after2s2c (pages 2–9)

19 Full page objects in twocolumn mode

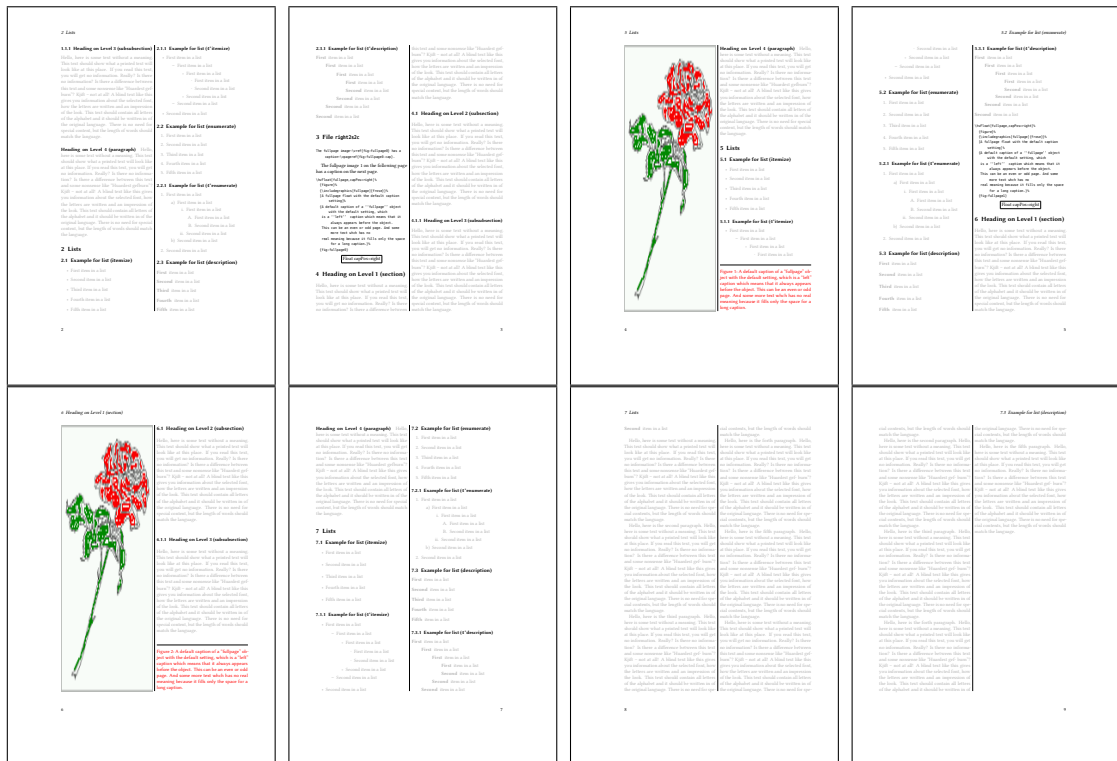


Figure 46: Output of right2s2c (pages 2–9)

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.

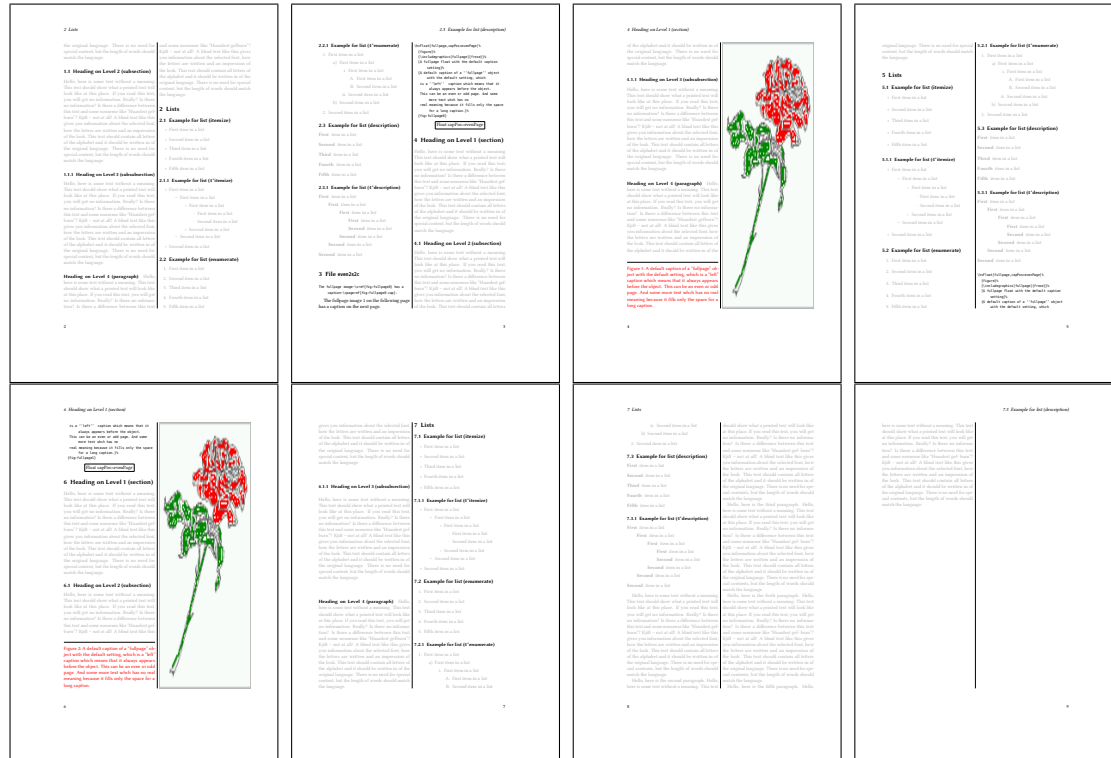


Figure 47: Output of even2s2c (pages 2–9)

19 Full page objects in twocolumn mode

19.1.3 Using capPos=oddPage — caption on an odd page

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

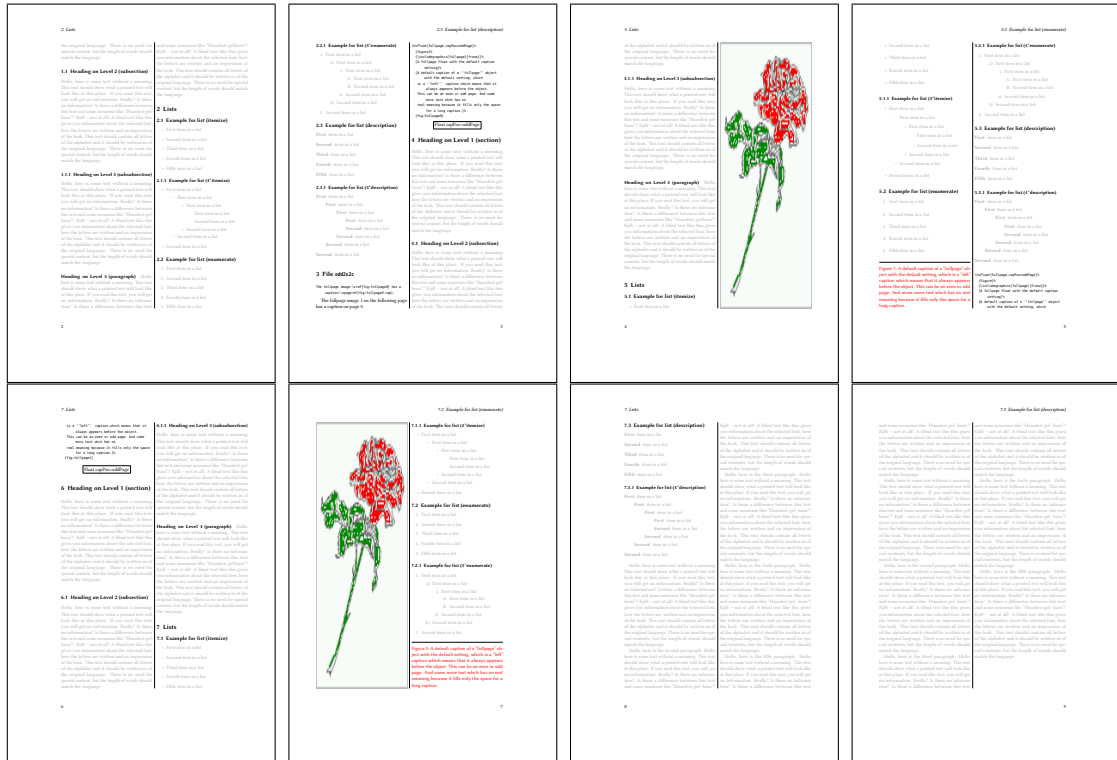


Figure 48: Output of odd2s2c (pages 2–9)

19.1.4 Using capPos=inner — caption in the inner column

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

```
\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}
```

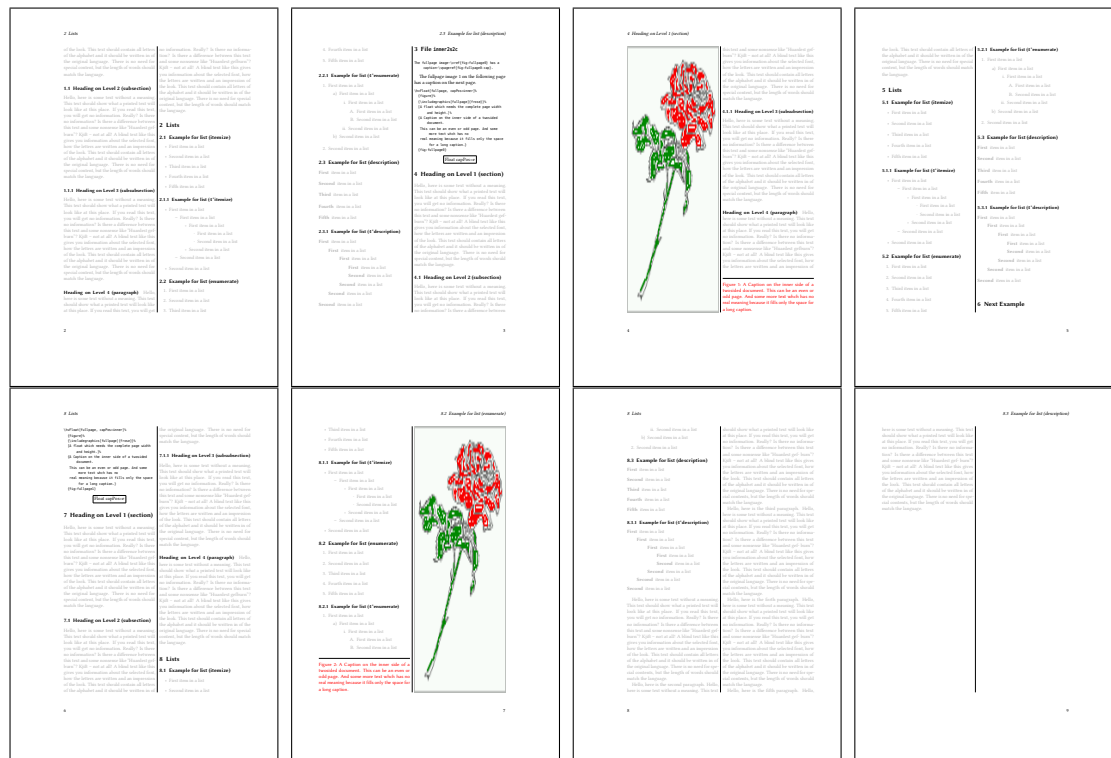


Figure 49: Output of inner2s2c (pages 2–9)

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.

```
\hvfloa[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}
```

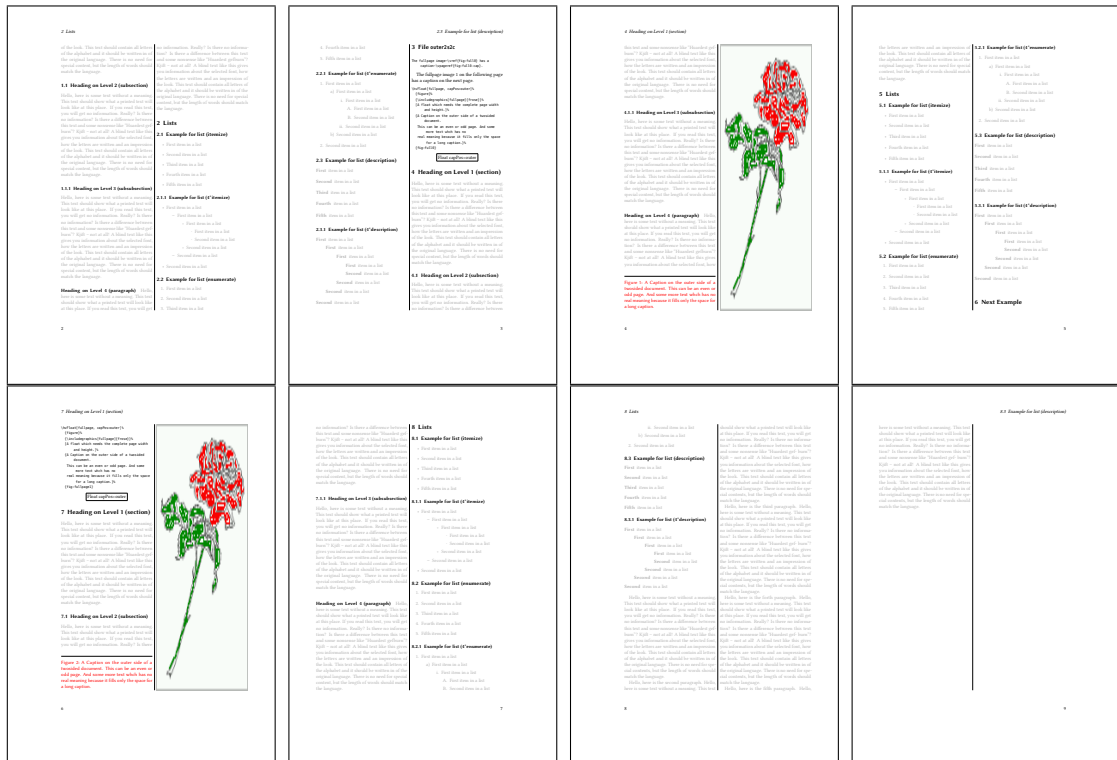


Figure 50: Output of outer2s2c (pages 2–9)

19.2 Using full page in twocolumn mode

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

```
\hvfloa*[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 hvfloa. The object goes over both columns.}{fig:two}
```

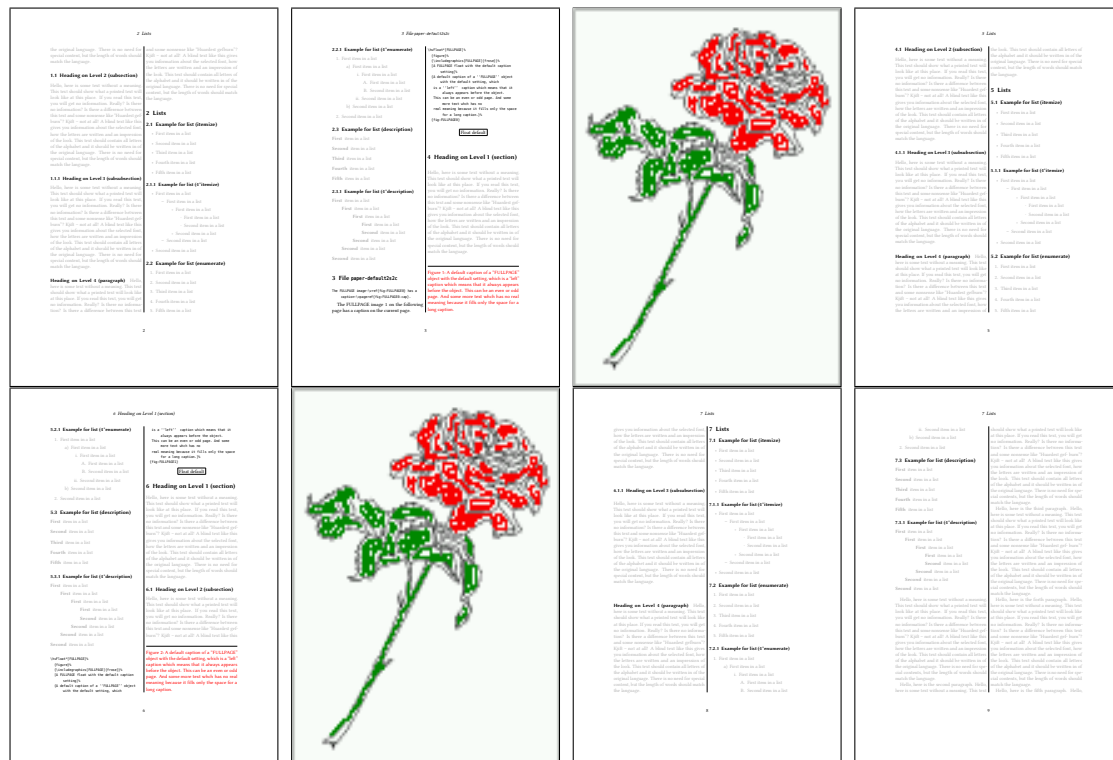


Figure 51: Output of paper-default2s2c (pages 2–9)

19 Full page objects in twocolumn mode

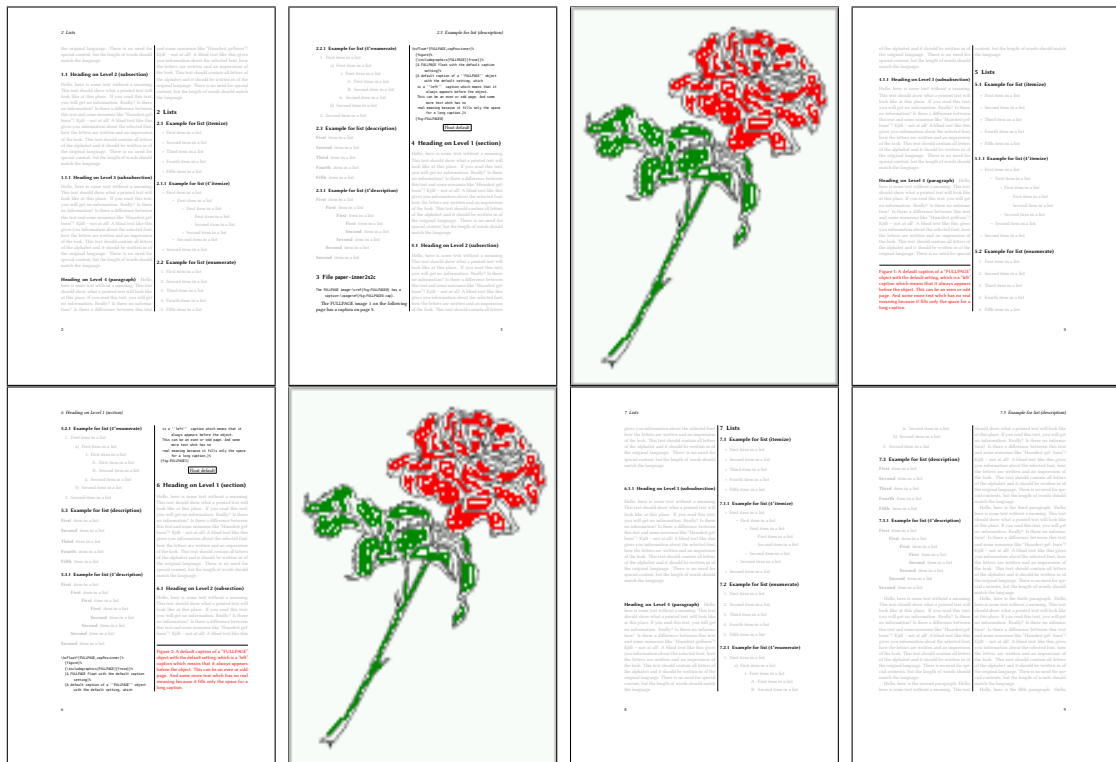


Figure 52: Output of paper-inner2s2c (pages 2–9)

19.3 Multifloats

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

```
\captionsetup{singlelinecheck=false}
\hvFloat[fullpage,multiFloat,capPos=inner,vFill]%
+{figure}{\includegraphics[height=0.4\textheight]{images/rose}}%% no 1
[Short caption A]%
{A Caption A 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.}%
{multi:demo0}%
+{table}{\begin{tabular}{lr}\hline                                % no 2
  Linksbündig & Rechtsbündig\\
  L            & R              \\
  left         & right          \\
\multicolumn{2}{c}{Multicolumn}}\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[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.

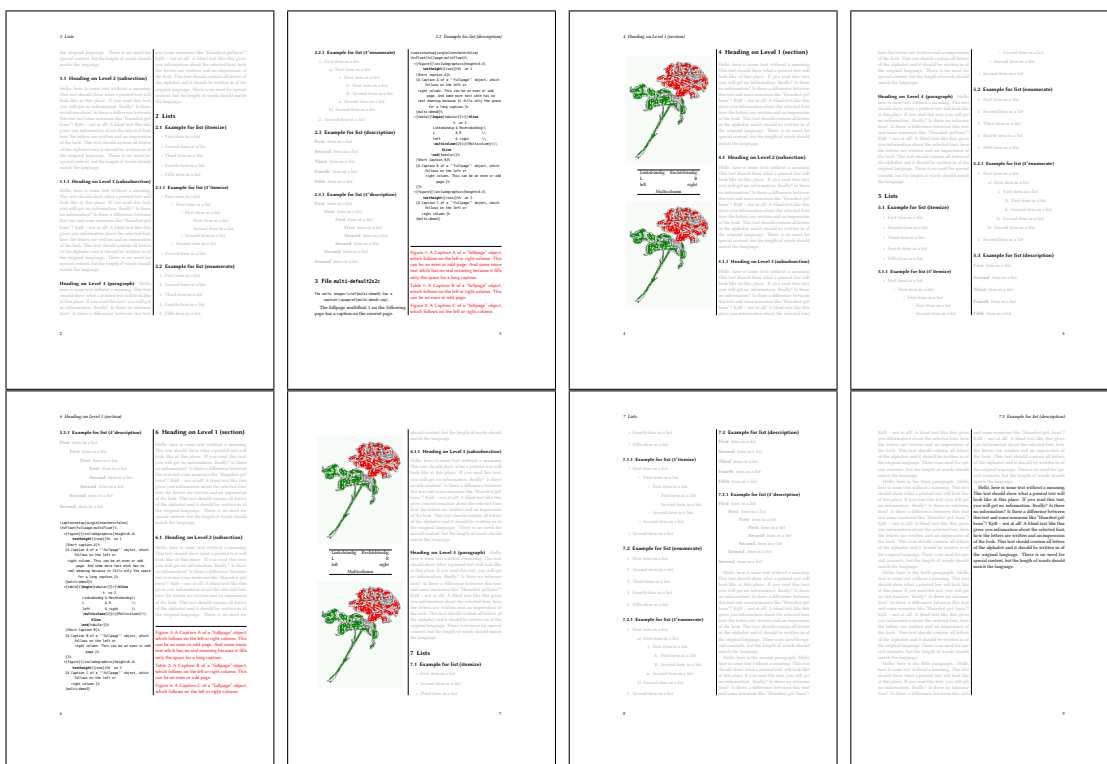


Figure 53: Output of multi-default2s2c (pages 2-9)

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.

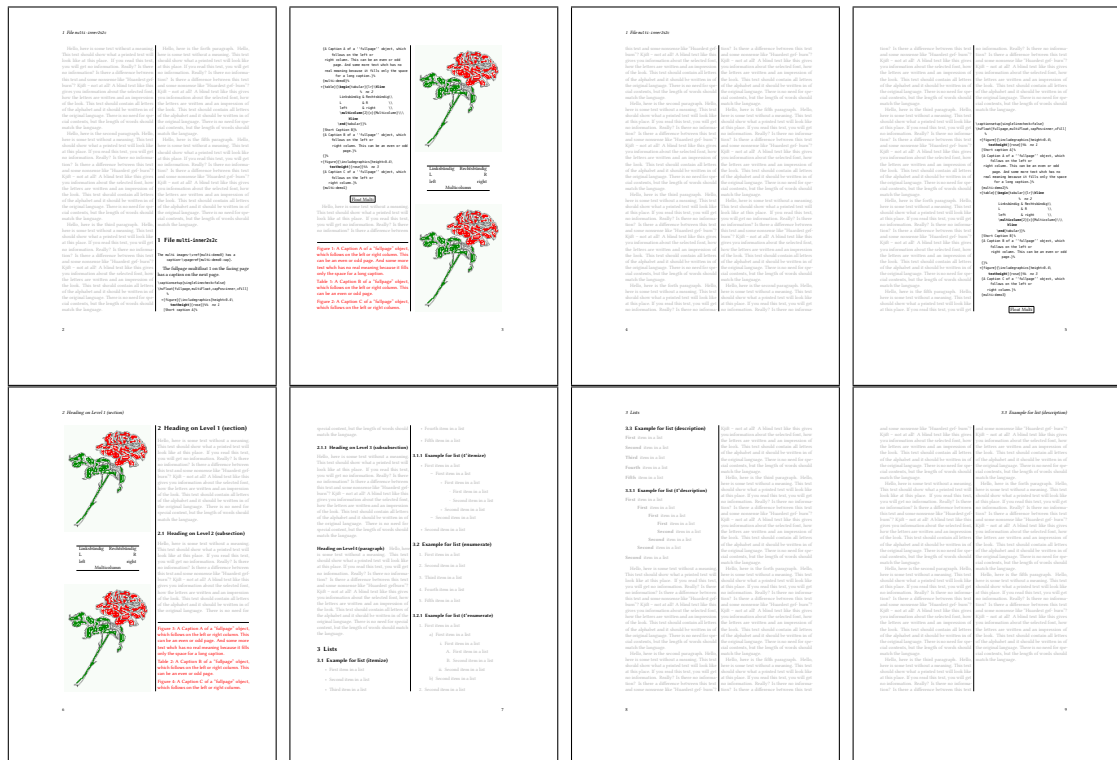


Figure 54: Output of multi-inner2s2c (pages 2-9)

```

\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).

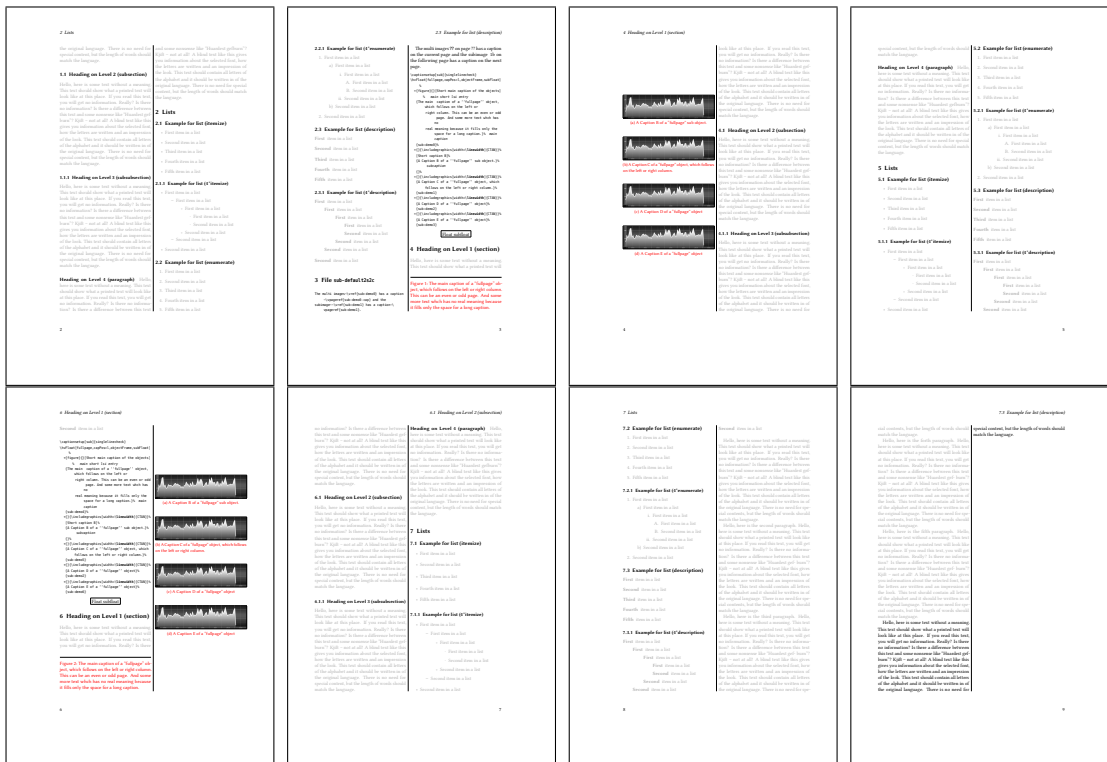


Figure 55: Output of sub-default2s2c (pages 2–9)

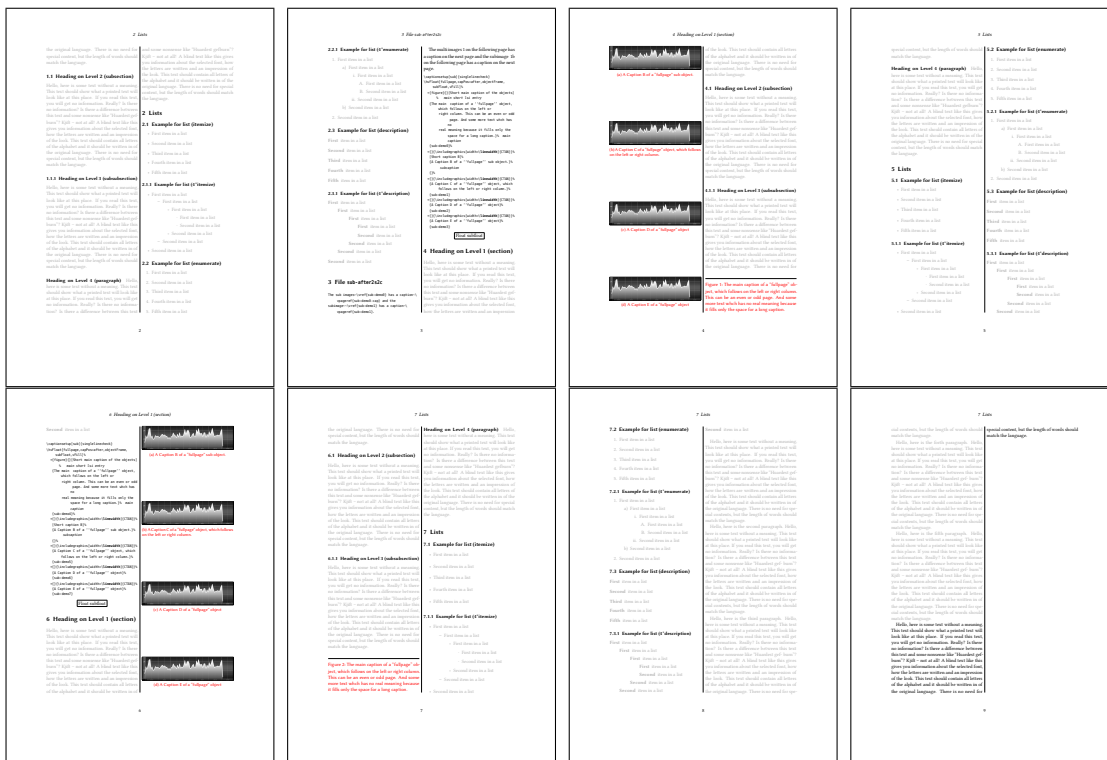


Figure 56: Output of sub-after2s2c (pages 2–9)

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.

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





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

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.

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

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

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

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

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

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.

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.

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

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

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.

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.

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[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

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

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

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

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

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

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.

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}
```

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

Fig. 60





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.

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

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

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.

```
\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}
```

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

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





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

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

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

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

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

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

words should match the language.

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

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

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.

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}
```

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.

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.

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.

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.

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,sameHeight]%
{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:doublePage0sH}
```

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



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

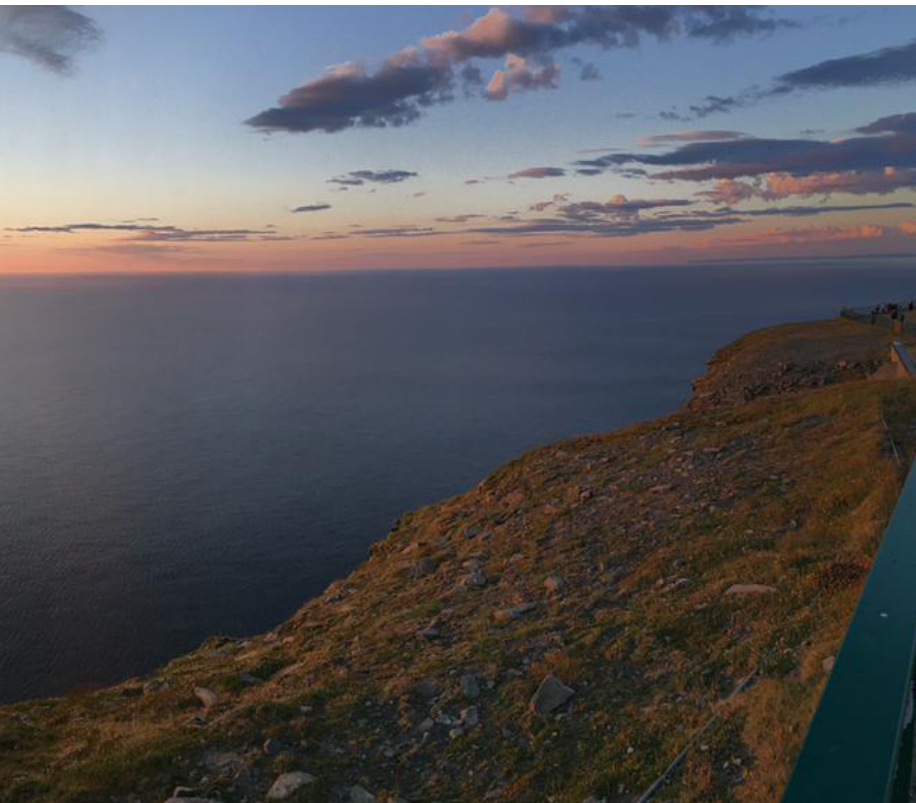


Figure 63: A caption for a double-sided image that will be placed on the right side of the right-hand part of the illustration. The illustration begins on the left edge of the paper. A short form is used for the LOF. The parameter is doublePage

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.

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

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

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

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

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[doublePage,capPos=right,capVPos=top]%
{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}
```

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.

Fig. 64

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.

And after the second paragraph follows the third paragraph. Hello, here is some text without



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

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

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

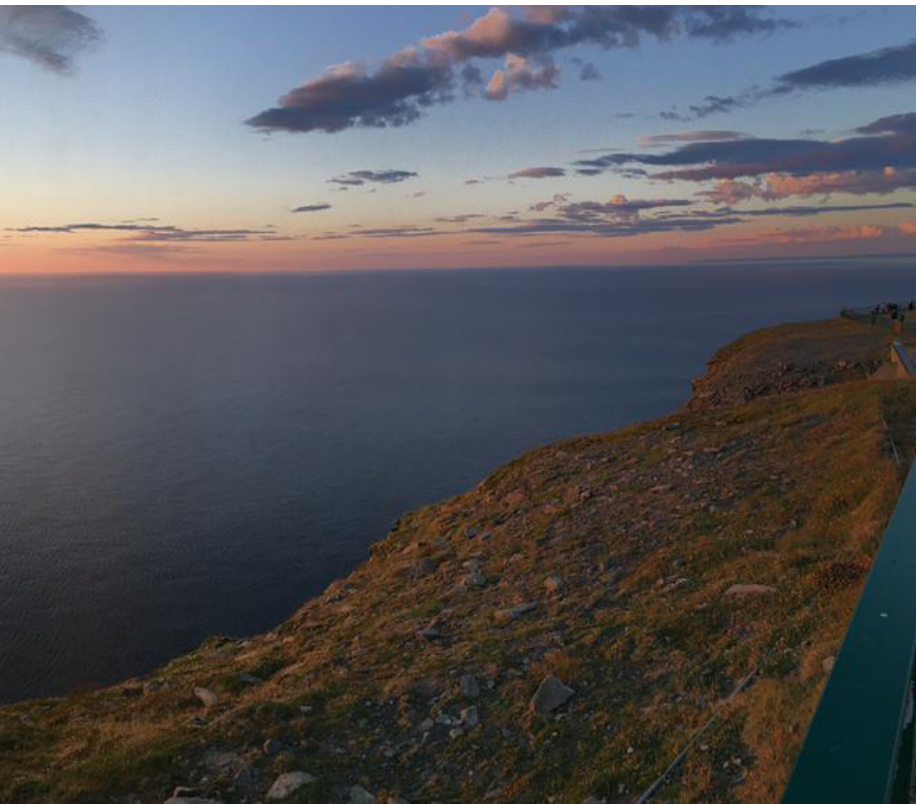


Figure 64: A caption for a double-sided image that will be placed on the right side of the right-hand part of the illustration. The illustration begins on the left edge of the paper. A short form is used for the LOF. The parameter is doublePage

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

21 Doublepage objects – images and/or tabulars

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.

```
\hvFloat[doublePage,bindCorr=inner]%  
  {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:doublePage0sH2}
```

Fig. 65 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.

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.

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.

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.

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



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

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 & 3 & 1 & 1 & 1 & 0 & 1 & 1 & 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]
```


21 Doublepage objects – images and/or tabulars

```

Zeile 8 & 0 & 1 & 1 & 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 & 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 & 1 & 0 & 2 & 0 & 0 & 2 & 2 & 2\\addlinespace[3pt]
Zeile13 & 0 & 1 & 0 & 0 & 1 & 0 & 3 & 0 & 0 & 0 & 0 & 0 & 2 & 0 & 1 & 3 & 0 & 2\\addlinespace[3pt]
Zeile14 & 0 & 1 & 0 & 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 & 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,capPos=right,capVPos=top,floatCapSep=12pt]%
{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 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.

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

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

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

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

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

22 References to the page

| | 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 |

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.

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

```
\hvFloatSetDefaults
```


| 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

```
\hvFloat[fullpage,capPos=evenPage]{figure}%
```

```
{\IncludeGraphics{images/frose}}%
```

```
[A float which needs the complete paper width and height.]%
```

```
{A Caption of a ‘‘fullpage’’ object, which follows on the next page.
```

```
This can be an even or odd page. The object uses the complete paper dimensions}%
```

```
{demo:fullpage}
```

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

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

The caption of figure 67 is on page 102, but the image itself is on page 103. With package varioref it is:

23 Defining a style

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

With the package `varioref` (<https://ctan.org/pkg/varioref>) one can get something like: see figure 67 on page 103, which uses a correct page number of the floating object and not the caption pagenumbr which is on page 102. The figure 67 is on page 103 and the caption on page 102

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}
```



Figure 66: Caption at bottom right beside the float with a caption width of `0.5\columnwidth`.

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.

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

24 Global float setting

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.

24 Global float setting

Instead of writing the following sequence into the preamble:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

This is the second paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information

Figure 67: A Caption of a “fullpage” object, which follows on the next page. This can be an even or odd page. The object uses the complete paper dimensions



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.

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.

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.

Index

A

\abovecaptionskip (skip), 7
\addtolength, 7
after (value), 8, 34, 36, 45f, 71
afterpage (package), 7
atbegshi (package), 7

B

before (value), 8, 13, 34f, 44, 71
\belowcaptionskip (skip), 7
bottom (value), 8f

C

capAngle (keyword), 8
capFormat (keyword), 9, 19
capPos (keyword), 8, 16, 20, 23, 34–38, 44ff, 49–53, 71, 97
capVPos (keyword), 9
capWidth (keyword), 8, 11ff
caption (package), 9, 19
\caption, 9
caption (package), 7
\caption, 19
caption (package), 7
\captionof, 32
\captionsetup, 19, 42f, 55
center (value), 9
\clearpage, 49f
\columnwidth (length), 11

D

doubleFULLPAGE (keyword), 9, 58
doublePAGE (keyword), 9, 58, 79
doublePage (keyword), 9, 58, 83

E

evenPage (value), 8, 34, 37, 49
expl3 (package), 7

F

FULLPAGE (keyword), 9, 33f, 39
false (value), 42, 55

\fbox, 7

fbox (package option), 7
\figcaption, 7, 10, 30f
figure (environment), 9, 11, 29
float (package), 29
floatCapSep (keyword), 9
\floatCapSep (length), 20
floatCapSep (keyword), 11, 20
floatPos (keyword), 8, 24
\frame, 11
FullPage (keyword), 9, 33
fullpage (keyword), 9, 33f, 96

G

graphicx (package), 7

H

h (value), 13
\hvDefFloatStyle, 8, 10, 98
\hvFloat, 7, 9f, 19, 29ff, 40, 42
\hvFloat*, 24
hvFloatEnv (environment), 10, 32
\hvFloatSet, 7
\hvFloatSetDefaults, 7, 10, 30f
\hvOBox, 29, 93
hvfloat (package), 7, 49f
\hvfloat, 39, 53
hvfloat (package), 7, 33
hvfloat-fps (package), 100
hypcap (package option), 7
hyperref (package), 7
hyperref (package option), 7

I

ifoddpaper (package), 7
\includegraphics, 39
\includgraphics, 33
inner (value), 8, 16, 34, 38, 51, 53

K

Keyword
- capPos, 16, 20, 23, 34–38, 44ff, 49–53

- capWidth, 12f
- floatPos, 24
- objectPos, 20, 25
- singlelinecheck, 42, 55

L

- l (value), 25
- left (value), 8, 13, 20, 34, 45
- \linewidth (length), 12
- \listoffigures, 7
- lscape (package), 24

M

- \marginparwidth (length), 9, 22
- multiFloat (keyword), 34
- multido (package), 7

N

- nonFloat (keyword), 7, 9, 28
- nonfloat (package), 28
- nonfloat (keyword), 30
- nostfloats (package option), 7

O

- objectAngle (keyword), 9
- objectFrame (keyword), 9, 11
- objectPos (keyword), 9, 20, 25
- oddPage (value), 9, 34, 38, 50
- onecolumn, 38
- oneside, 34
- onlyText (keyword), 9, 30
- outer (value), 8, 16, 23, 34, 38, 52

P

- p (value), 24
- \pageref, 96
- \paperheight (length), 39
- \paperwidth (length), 39
- pdflscape (package), 24

R

- right (value), 8, 46
- rotAngle (keyword), 8
- \rotatebox, 15

S

- separatorLine (keyword), 34
- \setlength, 7
- singlelinecheck (keyword), 42f, 55f
- stfloats (package), 7
- style (keyword), 9
- subFloat (keyword), 34, 43, 56
- subcapFormat (keyword), 9, 19
- subcaption (package), 7, 56
- \subcaption, 9, 19
- subcaption (package), 7, 43
- \subcaptionsetup, 19

T

- \tabcaption, 7, 10, 30f
- \tabcaptionbelow, 7
- table (environment), 9, 11, 29
- \textwidth (length), 9, 32
- top (value), 8f
- twocolumn (package option), 34, 44
- twocolumn, 24, 34, 44
- twoside (package option), 37, 44
- twoside, 16

U

- useOBox (keyword), 9, 29

V

- vFill (keyword), 9
- Value
 - after, 36, 45f
 - before, 34f, 44
 - evenPage, 34, 37, 49
 - false, 42, 55
 - h, 13
 - inner, 16, 34, 38, 51, 53
 - l, 25
 - left, 20, 34, 45
 - oddPage, 34, 38, 50
 - outer, 16, 23, 34, 38, 52
 - p, 24
 - right, 46
 - w, 12
- varioref (package), 97f

Index

`\vfill`, 9

W

`w` (value), 12

`wide` (keyword), 9, 11, 22

X

`xkeyval` (package), 7

25 The Package Source

```
1 %% $Id: hvfloat.sty 118 2021-06-19 19:31:50Z 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{2.30}
19 \def\filedate{2021/06/19}
20 %\message{'hvfloat' v\fileversion, \filedate\space (Herbert Voss)}
21 \ProvidesPackage{hvfloat}[\filedate\space v\fileversion\space special floating objects (hv)]
22 \let\hvFloatFileVersion\fileversion
23 %
24 \newif\ifhv@fbox \hv@fboxfalse
25 \newif\ifhv@hyperref \hv@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 \DeclareOption{no-stfloats}{\hv@nostfloatstrue}
33
34 \ProcessOptions
35
36
37 \PassOptionsToPackage{hypcap}{caption}
38 \RequirePackage{caption}
39 \RequirePackage{varwidth}
40 \DeclareCaptionBox{varwidth}{\varwidth[b]{#1}#2\endvarwidth}
41
42 \PassOptionsToPackage{hypcap}{subcaption}
43 \RequirePackage{subcaption}
44 \RequirePackage{atbegshi}
45 \RequirePackage{picture,trimclip}
46
47 \RequirePackage{expl3,multido}
48 \RequirePackage{graphicx}
49 \RequirePackage{varwidth}
50
51 \RequirePackage{xkeyval}
```

25 The Package Source

```

52 \RequirePackage{ifoddpage}
53 \RequirePackage{afterpage}
54
55 \ifhv@hyperref
56   \RequirePackage{hyperref}
57 \fi
58 \ifhv@nostfloats\else
59   \RequirePackage{stfloats}% for bottom floats in a twocolumn mode
60 \fi
61 %
62
63
64 \providecommand*\LenToUnit[1]{\strip@pt\dimexpr#1*\p@/\unitlength}
65
66 \newlength\hvObjectWidth
67 \newlength\hvCapWidth
68 \newlength\hvWideWidth
69 \newlength\hvMultiFloatSkip
70 \newlength\hvMaxCapWidth
71 %\AtBeginDocument{%
72 %   \setlength\hv@BottomSpace{\dimexpr\paperheight-1in-\topmargin-\headheight-\headsep-\textheight}}
73
74 \newsavebox\hvObjectBox
75 \newsavebox\hvCaptionBox
76 \newsavebox\hvOBox
77 \newsavebox\@tempbox
78 \newsavebox\hv@caption@box
79 \newsavebox\hv@leftBox
80 \newsavebox\hv@rightBox
81
82 \newif\ifhv@capbeside \hv@capbesidefalse
83 \newif\ifhv@switchType
84
85 \def\hv@Top{top}
86 \def\hv@Bottom{bottom}
87 \def\hv@After{after}
88 \def\hv@Before{before}
89 \def\hv@Right{right}
90 \def\hv@Left{left}
91 \def\hv@Center{center}
92 \def\hv@Outer{outer}
93 \def\hv@Inner{inner}
94 \def\hv@Even{evenPage}
95 \def\hv@Odd{oddPage}
96 \def\hv@Natural{n}
97 \def\hv@Width{w}
98 \def\hv@Height{h}
99 \def\hv@Zero{0}
100 %
101 \def\hv@figure{figure}
102 %
103 \definekey{hvSet}{floatPos}[tbp]{% LaTeX's position parameters http
104   \def\hvSet@floatPos{#1}%

```

```

105 }
106 \define@key{hvSet}{rotAngle}[0]{%      rotates caption AND image together
107   \def\hvSet@rotAngle{#1}%
108 }
109 \define@key{hvSet}{capWidth}[n]{%      (n)atural width|object (w)idth|object (h)eight|<scale of \columnwidth
110   >
111   \def\hvSet@capWidth{#1}%
112 }
113 \define@key{hvSet}{capAngle}[0]{%      -360..+360, only integers
114   \def\hvSet@capAngle{#1}%
115 }
116 \define@choicekey*+{hvSet}{capPos}[\val\nr]{bottom,top,left,before,right,after,inner,outer,evenPage,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{hvfloating}{erroneous input (#1) for capPos ignored. Using bottom.}}%
127 \def\hvSet@capPos{bottom}%      it is relativ to the object, (e),(d) only valid for fullpage float
128   \hv@capbesidefalse
129 }
130 \define@choicekey*+{hvSet}{capVPos}[\val\nr]{bottom,center,top}[center]{%
131   \def\hvSet@capVPos{#1}%      it is relativ to the object
132   \ifcase\nr\relax
133     \def\hv@capVPos{b}%
134   \or
135     \def\hv@capVPos{c}%
136   \else
137     \def\hv@capVPos{t}%
138   \fi
139 }{\PackageWarning{hvfloating}{erroneous input (#1) for capVPos ignored. Using center.}}%
140 \def\hvSet@capVPos{center}%      it is relativ to the object
141   }
142 }
143 \define@choicekey*+{hvSet}{allHPos}[\val\nr]{left,center,right}[center]{%
144   \def\hvSet@allHPos{#1}%
145   \ifcase\nr\relax
146     \gdef\hv@@allHPos{l}%
147   \or
148     \gdef\hv@@allHPos{c}%
149   \else
150     \gdef\hv@@allHPos{r}%
151   \fi
152 }{\PackageWarning{hvfloating}{erroneous input (#1) for allHPos ignored. Using center.}}%
153 \def\hvSet@capVPos{center}%      it is relativ to the object
154   }
155 }

```


25 The Package Source

```

156 \define@choicekey*+{hvSet}{objectPos}{\val\nr}{left,center,right,inner,outer}[center]{%
157   \def\hvSet@objectPos{#1}%           it is relativ to the object
158 }{\PackageWarning{hvfloat}{erroneous input (#1) for objectPos ignored. Using center.}%
159   \def\hvSet@capVPos{center}%        it is relativ to the object
160 }
161 \define@key{hvSet}{objectAngle}[0]{%   -360...+360
162   \def\hvSet@objectAngle{#1}%
163 }
164 \define@key{hvSet}{floatCapSep}[5pt]{% a width with the unit pt
165   \def\hvSet@floatCapSep{#1}%
166 }
167 \define@key{hvSet}{multiFloatSkip}{\normalbaselineskip}{% a width with the unit pt
168   \setlength\hvMultiFloatSkip{#1}%
169 }
170 \define@boolkey{hvSet}[hv@]{useOBox}[true]{}% use of the hvOBox contents
171 \define@boolkey{hvSet}[hv@]{nonFloat}[true]{}% Do not use float environment
172 \define@boolkey{hvSet}[hv@]{onlyText}[true]{}% Write the caption only as text
173 \define@boolkey{hvSet}[hv@]{wide}[true]{}% Write the caption only as text
174 \define@boolkey{hvSet}[hv@]{twoColumnCaption}[true]{\global\@nameuse{hv@twoColumnCaption#1}}{% Write the
    caption only as text
175 \define@boolkey{hvSet}[hv@]{sameHeight}[true]{\@nameuse{hv@sameHeight#1}}{% Write the caption only as text
176 \define@boolkey{hvSet}[hv@]{Debug}[true]{}% give more infos in the terminal
177
178
179 \newif\ifhv@fullpage
180 \newif\ifhv@FULLPAGE
181 \newif\ifhv@doubleFULLPAGE
182 \newif\ifhv@doublePAGE
183 \newif\ifhv@doublePage
184 \newif\ifhv@setObjectLabel
185 \newif\ifhv@global@sameHeight
186
187 \newlength\hvSet@bindCorrection
188 \newlength\hvSet@sepLineskip
189 \newlength\hv@leftPageObjectWidth% for doublepage images
190 \newlength\hv@tempWidthA
191 \newlength\hv@tempWidthB
192 \newlength\hv@minTextlines
193 \newlength\hv@floatCapSep
194 \newlength\hvSet@bindCorr
195
196 \define@key{hvSet}{fullpage}[true]{\global\@nameuse{hv@fullpage#1}}%
197 \define@key{hvSet}{FULLPAGE}[true]{\global\@nameuse{hv@FULLPAGE#1}}
198 \define@key{hvSet}{doubleFULLPAGE}[true]{\global\@nameuse{hv@doubleFULLPAGE#1}\hv@doublePagefalse\
    hv@doublePAGEfalse}
199 \define@key{hvSet}{doublePAGE}[true]{\global\@nameuse{hv@doublePAGE#1}\hv@doublePagefalse\
    hv@doubleFULLPAGEfalse}
200 \define@key{hvSet}{doublePage}[true]{\global\@nameuse{hv@doublePage#1}\hv@doublePAGEfalse\
    hv@doubleFULLPAGEfalse}
201 \define@key{hvSet}{bindCorr}[0]{%
202   \def\hv@temp{#1}%
203   \ifx\hv@temp\hv@Inner
204     \setlength\hvSet@bindCorr{\dimexprlin+\oddsidemargin}%

```

```

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

```

25 The Package Source

```

258 \providecommand\tugclass{\@empty}
259 \ifx\tugclass\@empty
260 \else
261 \hv\tugboattrue % special page handling
262 \hv@typeout{>>> we are using a TUGboat class}%
263 \fi
264
265 \newcommand\reset@special@float{%
266 \hv@set{subFloat=false,%fullpage=false,
267 multiFloat=false,%FULLPAGE=false
268 }}
269
270 \def\hv@vskip{\vspace{\hvMultiFloatSkip}}
271
272 %
273 \newlength\hvAboveCaptionSkip
274 \newlength\hvBelowCaptionSkip
275 \newcount\hv@capPos
276
277 \newlength\fbboxlinewidth
278 \AtBeginDocument{%
279 \setlength\fbboxlinewidth{\dimexpr\linewidth-2\fbboxrule-2\fbboxsep}%
280 }
281 \setlength\belowcaptionskip{\abovecaptionskip}% it is in latex.ltx = 0pt
282 \newcommand\saveCaptionSkip{%
283 \setlength{\hvAboveCaptionSkip}{\abovecaptionskip}%
284 \setlength{\hvBelowCaptionSkip}{\belowcaptionskip}%
285 \setlength{\abovecaptionskip}{0pt}%
286 \setlength{\belowcaptionskip}{0pt}%
287 }
288 \newcommand\restoreCaptionSkip{%
289 \setlength\abovecaptionskip{\hvAboveCaptionSkip}%
290 \setlength\belowcaptionskip{\hvBelowCaptionSkip}%
291 }
292
293 \providecommand\figcaption[2][{}]{%
294 \providecommand\tabcaption[2][{}]{%
295 \providecommand\tabcaptionbelow[2][{}]{%
296 %
297 \renewcommand\figcaption[2][{}]{%
298 \begingroup
299 \def\@captive{figure}%
300 \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
301 \ifx\relax#1\relax \caption{#2}\else\caption[#1]{#2}\fi
302 \endgroup}
303 \renewcommand\tabcaption[2][{}]{%
304 \begingroup
305 \def\@captive{table}%
306 \edef\hv@caption@format{position=top,\hv@caption@format}%
307 \expandafter\captionsetup\expandafter{\hv@caption@format}%
308 \ifx\relax#1\relax \caption{#2}\else\caption[#1]{#2}\fi
309 \endgroup}
310 \renewcommand\tabcaptionbelow[2][{}]{%

```

```

311 \begingroup
312 \def\@capttype{table}%
313 \edef\hv@caption@format{position=below,\hv@caption@format}%
314 \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
315 \ifx\relax#1\relax \caption{#2}\else\caption[#1]{#2}\fi
316 \endgroup}
317 %
318 \newlength\hv@maxImageWidth
319 \AtBeginDocument{\hv@maxImageWidth=\columnwidth}
320
321 \define@key{Gin}{columnWidth}[true]{%
322 \def\Gin@ewidth{\columnwidth}%
323 % \def\Gin@eheight{lex}%
324 \Gin@boolkey{true}{iso}%
325 }
326 \define@key{Gin}{fullpage}[true]{%
327 \def\Gin@ewidth{\columnwidth}%
328 \def\Gin@eheight{\textheight}%
329 \Gin@boolkey{false}{iso}%
330 }
331 \define@key{Gin}{FullPage}[true]{%
332 \def\Gin@ewidth{\textwidth}%
333 \def\Gin@eheight{\textheight}%
334 \Gin@boolkey{false}{iso}%
335 }
336 \define@key{Gin}{FULLPAGE}[true]{%
337 \def\Gin@ewidth{\paperwidth}%
338 \def\Gin@eheight{\paperheight}%
339 \Gin@boolkey{false}{iso}%
340 }
341 \define@key{Gin}{doubleFULLPAGE}[true]{%
342 \def\Gin@ewidth{2\paperwidth}%
343 \def\Gin@eheight{\paperheight}%
344 \Gin@boolkey{false}{iso}%
345 }
346 \define@key{Gin}{doubleFULLPAGEbindCorr}[true]{%
347 \def\Gin@ewidth{\the\dimexpr2\paperwidth-2\hvSet@bindCorrection\relax}%
348 \def\Gin@eheight{\paperheight}%
349 \Gin@boolkey{false}{iso}%
350 }
351
352 \newcommand\IncludeGraphics[2][]{%
353 \vspace*{\the\dimexpr-1in-\voffset+\topskip-\headheight-0.5\baselineskip}%
354 \leavevmode\checkoddpage
355 \ifoddpage
356 \hspace*{\dimexpr-\oddsidemargin-\parindent-1in}%
357 \else
358 \hspace*{\dimexpr-\evensidemargin-\parindent-1in}%
359 \fi\noindent
360 \includegraphics[#1,width=\paperwidth,height=\paperheight,keepaspectratio=false]{#2}%
361 }
362
363 \newcommand\put@CaptionBox[1][0]{%

```

25 The Package Source

```

364 \ifcase#1
365 \ifhv@fbox
366 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
367 \else
368 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
369 \fi
370 \or
371 \ifhv@fbox
372 \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
373 \else
374 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
375 \fi
376 \or
377 \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}\else\usebox{\hvCaptionBox}\fi
378 \fi
379 }
380
381 \newcommand\put@ObjectBox[1][0]{%
382 \ifcase#1
383 \ifhv@fbox
384 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
385 \else
386 \parbox{\wd\hvObjectBox}{\ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi}%
387 \fi
388 \or
389 \ifhv@fbox
390 \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
391 \else
392 \raisebox{-\height}{\ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi}%
393 \fi
394 \or
395 \ifhv@fbox
396 \fbox{\usebox{\hvObjectBox}}%
397 \else
398 % rotated object with a depth need to raise up the \depth
399 \ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\raisebox{\depth}{\usebox{\hvObjectBox}}\fi%
400 \fi
401 \fi
402 }
403
404
405 \def\drawSepLine{%
406 \par\noindent
407 \if@twocolumn
408 \ifhv@twoColumnCaption
409 \rule{\linewidth}{0.4pt}\l[-2.5ex]
410 \else
411 \rule{\columnwidth}{0.4pt}\l[-2.5ex]
412 \fi
413 \else
414 \rule{\linewidth}{0.4pt}\l[-2.5ex]
415 \fi
416 \vspace{\hv@sepLineskip}%

```



```

417 }
418
419 \newcounter{hv@tempCNTfigA}%
420 \newcounter{hv@tempCNTfigB}%
421 \newcounter{hv@tempCNTtabA}%
422 \newcounter{hv@tempCNTtabB}%
423 \newcounter{hv@pfigure}%
424 \newcounter{hv@ptable}%
425 \newcounter{subhv@pfigure}%
426 \newcounter{subhv@ptable}%
427
428 \newif\ifhv@star
429 \newif\ifhvsustar
430 \setDefaults
431
432
433 %\newcommand*{\hvFloat}[5][{}]{%
434 % [#1]: keyvalues
435 % #2: type figure | table | ...
436 % #3: float contents
437 % [#4]: short caption
438 % #5: caption
439 % #6: label
440 %
441
442 \def\hvFloat{\@ifnextchar*%      Main macro
443   {\global\hv@startrue\hv@maxImageWidth=\textwidth\hvFloat@i}%
444   {\global\hv@starfalse\hv@maxImageWidth=\columnwidth\hvFloat@i*}%
445 }
446
447 \def\hvFloat@i*{\@ifnextchar[{\do@hvFloat}{\do@hvFloat[]}}
448 \def\do@hvFloat[#1]{%
449   \begingroup
450   \setlength\hvWideWidth{\dimexpr\columnwidth+\marginparwidth+\marginparsep}%
451   % \setlength\hvWideWidth{\dimexpr\textwidth+\marginparwidth+\marginparsep}%
452   % \setlength\hvWideWidth{\dimexpr\linewidth+\marginparwidth}%
453   \hv@maxImageWidth=\textwidth
454   \reset@special@float
455   \global\setcounter{hv@pfigure}{\value{figure}}%
456   \global\setcounter{hv@ptable}{\value{table}}%
457   \setcounter{hv@tempCNTfigA}{\value{figure}}%
458   \setcounter{hv@tempCNTfigB}{\value{figure}}%
459   \setcounter{hv@tempCNTtabA}{\value{table}}%
460   \setcounter{hv@tempCNTtabB}{\value{table}}%
461   \gdef\hv@save@setting{#1}% for later use after \endgroup inside figure/table env
462   \ifx\relax#1\relax\else\setkeys{hvSet}{#1}\fi
463   \ifx\hv@caption@format\empty\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
464   \ifx\hv@subcaption@format\empty\else
465     \expandafter
466     \captionsetup\expandafter[\expandafter s\expandafter u\expandafter b\expandafter]\expandafter
467     {\hv@subcaption@format}%
468   \fi
469   \gdef\hv@floatType{figure}% presetting

```

25 The Package Source

```

470 \@ifnextchar+{\do@multiFloat}{\hvFloat@ii[#1]}%
471 }
472
473 \ExplSyntaxOn
474
475 \def\do@multiFloat+#1#2{%
476 \clist_set:Nn\l_clist_Type{#1}%
477 \clist_set:Nn\l_clist_Object{#2}%
478 \@ifnextchar[\do@multiFloat@i{\do@multiFloat@i[]}%
479 }
480 \def\do@multiFloat@i[#1]#2#3{% lof-caption, caption, label
481 \ifx\relax#1\relax
482 \clist_set:Nn\l_clist_LofCaption{#1}%
483 \else
484 \clist_set:Nn\l_clist_LofCaption{#1}%
485 \fi
486 \clist_set:Nn\l_clist_Caption{#2}%
487 \ifx\relax#3\relax
488 \clist_set:Nn\l_clist_Label{#3}%
489 \else
490 \clist_set:Nn\l_clist_Label{#3}%
491 \fi
492 \ifnextchar+{\do@multiFloat@ii}{}%
493 }
494 \def\do@multiFloat@ii+#1#2{%
495 \clist_put_right:Nn\l_clist_Type{#1}%
496 \clist_put_right:Nn\l_clist_Object{#2}%
497 \ifnextchar[\do@multiFloat@iii{\do@multiFloat@iii[]}%
498 }
499
500 \def\do@multiFloat@iii[#1]#2#3{% lof-caption, caption, label
501 \ifx\relax#1\relax
502 \clist_put_right:Nn\l_clist_LofCaption{#1}%
503 \else
504 \clist_put_right:Nn\l_clist_LofCaption{#1}%
505 \fi
506 \clist_put_right:Nn\l_clist_Caption{#2}%
507 \ifx\relax#3\relax
508 \clist_put_right:Nn\l_clist_Label{#3}%
509 \else
510 \clist_put_right:Nn\l_clist_Label{#3}%
511 \fi
512 \ifnextchar+{\do@multiFloat@ii}%
513 {\def\hvSet@CapWidth{n}%
514 \do@@@hvFloat}%
515 }
516 \ExplSyntaxOff
517
518
519 \newcount\hv@cmta
520 \newcount\hv@cmtb
521
522 \def\hvFloat@ii[#1]#2#3{% #1: key/value, #2: floattype, #3: object

```

```

523 \hv@maxImageWidth=\textwidth
524 % \ifx\relax#1\relax\else\setkeys{hvSet}{#1}\fi
525 \gdef\hv@floatType{#2}%
526 \ifx\relax#2\relax
527 \setkeys{hvSet}{nonFloat,onlyText}%
528 \xdef\hv@save@setting{\hv@save@setting,nonFloat,onlyText}% for later use after \endgroup inside figure/
    table env
529 \fi
530 % \xdef\hv@floatListOfExt{\@nameuse{ext@\hv@floatType}}%
531 \gdef\hv@floatObject{#3}%
532 \@ifnextchar[{\do@hvFloat}{\do@hvFloat[]}%
533 }
534
535 \def\do@hvFloat[#1]#2#3{% #1: listof caption, #2: long caption #3: label
536 \gdef\hv@shortCap{#1}%
537 \gdef\hv@longCap{#2}%
538 \gdef\hv@label{#3}%
539 \ifhv@capbeside\def\@temp{1}\else\def\@temp{0}\fi
540 \ifhv@sameHeight\global\hv@global@sameHeighttrue\else\global\hv@global@sameHeightfalse\fi
541 \global\setlength\hvSet@bindCorrection{\hvSet@bindCorr}% for doublepage objects
542 \global\setlength\hv@floatCapSep{\hvSet@floatCapSep}%
543 %
544 \ifhv@fullpage
545 \def\hvSet@CapWidth{n}% relative value
546 \do@@@hvFloat% fullpage with caption on other page
547 \else
548 \ifhv@FULLPAGE
549 \def\hvSet@CapWidth{n}% relative value
550 \do@@@hvFloat% fullpage with caption on other page
551 \else
552 \ifhv@doubleFULLPAGE
553 \setlength\hvCapWidth{\textheight}%
554 \expandafter\do@hvFloat@doubleFULLPAGE\@temp% fullpage with caption rotated or under on an odd page
555 \else
556 \ifhv@doublePAGE
557 \expandafter\do@hvFloat@doublePAGE\@temp% fullpage with caption rotated or under on an odd page
558 \else
559 \ifhv@doublePage
560 \expandafter\do@hvFloat@doublePage\@temp% fullpage with caption rotated or under on an odd page
561 \else
562 \do@@@hvFloat
563 \fi
564 \fi
565 \fi
566 \fi
567 \fi
568 }
569 %
570 \def\do@@@hvFloat{% no special float page, caption and image on top of each other or side by side
571 \def\@tempa{90}%
572 \ifx\hvSet@rotAngle\@tempa
573 \setlength\hvMaxCapWidth{\textheight}%
574 \else

```

25 The Package Source

```

575     \setlength\hvMaxCapWidth{\hvWideWidth}%
576     \fi
577     %
578     % First we save the object in \hvObjectBox
579     %
580     \ifnum\hvSet@objectAngle=0 % rotate the object?
581         \ifhv@useOBox
582             \let\hvObjectBox\hvOBox
583         \else
584             \savebox\hvObjectBox{\hv@floatObject}%
585         \fi
586     \else
587         \savebox\hvObjectBox{%
588             \rotatebox{\hvSet@objectAngle}{%
589                 \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi
590             }%
591         }%
592     \fi
593     \setlength\hvObjectWidth{\wd\hvObjectBox}%
594     %
595     % Now we save the caption with its defined \hvCapWidth
596     %
597     \ifx\hvSet@capWidth\hv@Width%           captionwidth=objectwidth
598         \setlength\hvCapWidth{\hvObjectWidth}%
599     \else
600         \ifx\hvSet@capWidth\hv@Height%       captionwidth=objectheight
601             \setlength\hvCapWidth{\ht\hvObjectBox}%
602         \else
603             \ifx\hvSet@capWidth\hv@Natural%   captionwidth=\linewidth-\objectwidth-separation
604                 \ifhv@capbeside
605                     \ifhv@wide
606                         \setlength\hvCapWidth{\the\dimexpr\hvWideWidth-\hvObjectWidth-\hv@floatCapSep\relax}%
607                     \else
608                         \ifhv@star
609                             \setlength\hvCapWidth{\the\dimexpr\textwidth-\hvObjectWidth-\hv@floatCapSep\relax}%
610                         \else
611                             \setlength\hvCapWidth{\the\dimexpr\linewidth-\hvObjectWidth-\hv@floatCapSep\relax}%
612                         \fi
613                     \fi
614                 \else
615                     \setlength\hvCapWidth{\columnwidth}%
616                 \fi
617             \else
618                 \ifhv@capbeside
619                     \ifhv@wide
620                         \setlength\hvCapWidth{\hvSet@capWidth\hvWideWidth}%
621                         \setlength\@tempdima{\the\dimexpr\hvWideWidth-\hvObjectWidth-\hv@floatCapSep\relax}%
622                     \else
623                         \setlength\hvCapWidth{\hvSet@capWidth\columnwidth}%
624                         \setlength\@tempdima{\the\dimexpr\columnwidth-\hvObjectWidth-\hv@floatCapSep\relax}%
625                     \fi
626                 \ifdim\hvCapWidth>\@tempdima
627                     \setlength\hvCapWidth{\@tempdima}%

```

```

628     \fi
629   \else
630     \ifhv@wide
631       \setlength\hvCapWidth{\hvSet@capWidth\hvWideWidth}%
632     \else
633       \setlength\hvCapWidth{\hvSet@capWidth\columnwidth}%
634     \fi
635   \fi
636 \fi
637 \fi
638 \fi
639 \saveCaptionSkip% we put this space ourselves
640 \ifnum\hvSet@capAngle=0 % need rotation?
641   \savebox\hvCaptionBox{% NO rotation
642     \minipage[b]{\hvCapWidth}%% minipage, to get hyphenation
643     \ifhv@nonFloat
644       \ifhv@onlyText
645         \hv@longCap
646       \else
647         \ifx\hv@floatType\hv@figure
648           \ifx\relax\hv@shortCap\relax
649             \figcaption{\hv@longCap\ifx\hv@label\@empty\else\label{\hv@label}\fi}%
650           \else
651             \figcaption[\hv@shortCap]{\hv@longCap\ifx\hv@label\@empty\else\label{\hv@label}\fi}%
652           \fi
653         \else
654           \ifx\relax\hv@shortCap\relax
655             \tabcaption{\hv@longCap\ifx\hv@label\@empty\else\label{\hv@label}\fi}%
656           \else
657             \tabcaption[\hv@shortCap]{\hv@longCap\ifx\hv@label\@empty\else\label{\hv@label}\fi}%
658           \fi
659         \fi
660       \fi
661     \else
662       \ifhv@onlyText
663         \hv@longCap
664       \else
665         \let\@capttype\hv@floatType
666         \ifx\hv@shortCap\@empty\caption{\hv@longCap}\else\caption[\hv@shortCap]{\hv@longCap}\fi
667         \ifx\hv@label\@empty\else\label{\hv@label}\fi
668       \fi
669     \fi
670   \endminipage
671 }%
672 \else
673   \savebox\hvCaptionBox{% Rotation
674     \rotatebox{\hvSet@capAngle}{%
675       \minipage[b]{\hvCapWidth}%% minipage, to get hyphenation
676 % \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
677     \ifhv@nonFloat
678       \ifhv@onlyText
679         \hv@longCap
680       \else

```


25 The Package Source

```

681     \ifx\hv@floatType\hv@figure
682     \ifx\hv@shortCap\@empty \figcaption{\hv@longCap}\else\figcaption[\hv@shortCap]{\hv@longCap}\fi
683     \else
684     \ifx\hv@shortCap\@empty \tabcaption{\hv@longCap}\else\tabcaption[\hv@shortCap]{\hv@longCap}\fi
685     \fi
686   \fi
687 \else
688   \ifhv@onlyText
689   \hv@longCap
690   \else
691     \let\@capttype\hv@floatType
692     \ifx\hv@shortCap\@empty \caption{\hv@longCap}\else\caption[\hv@shortCap]{\hv@longCap}%
693     \fi
694   \fi
695   \fi
696   \ifx\hv@label\@empty\else\label{\hv@label}\fi
697 \endminipage
698 }% rotatebox
699 }% lsbbox
700 \fi
701 %
702 % now we have the object and the caption with the right
703 % rotated angles saved in different boxes
704 %%
705 \restoreCaptionSkip% save old values
706 % \def\fps@figure{\hvSet@floatPos}%
707 \ifx\hvSet@floatPos\@empty % use type default
708 \else
709   \@namedef{\fps@\hv@floatType}{\hvSet@floatPos}%
710 \fi
711 \ifhv@nonFloat
712   \noindent
713   \begingroup%      Start the nonfloat part
714 \else
715   \ifhv@star
716     \ifx\hvSet@floatPos\hv@floatBottom
717       \@nameuse{\hv@floatType*}[b]%      Start the floating environment *****
718     \else
719       \@nameuse{\hv@floatType*}%
720     \fi
721   \else
722     \begin{\hv@floatType}%      Start the floating environment
723   \fi
724 \fi
725 \checkoddpage
726 \ifx\hvSet@objectPos\hv@Right\raggedleft\fi
727 \ifx\hvSet@objectPos\hv@Center
728   \ifhv@nonFloat\hspace*{\fill}\else\centering\fi
729 \fi
730 \ifx\hvSet@objectPos\hv@Outer
731   \ifoddpage\raggedleft\fi
732 \fi
733 \ifx\hvSet@objectPos\hv@Inner

```

```

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

```

25 The Package Source

```

787     \else% caption on bottom
788         \put@CaptionBox[2]%
789         \hspace{\hv@floatCapSep}% capfloatsep
790         \put@ObjectBox[2]%
791     \fi
792     \fi% end caption left
793 \or%1 is top
794     \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
795 \begin{minipage}{\wd\hvCaptionBox}%
796     \else
797 \begin{minipage}{\wd\hvObjectBox}%
798     \fi
799     \centering
800     \ifhv@fbox
801 \fbox{\usebox{\hvCaptionBox}}\[\[0.5\hvBelowCaptionSkip]%
802 \fbox{\usebox{\hvObjectBox}}%
803     \else
804 \usebox{\hvCaptionBox}\[\[0.5\hvBelowCaptionSkip]%
805 \usebox{\hvObjectBox}%
806     \fi
807 \end{minipage}%
808 \or%2 is right
809     \ifx\hvSet@capVPos\hv@Center
810         \put@ObjectBox
811         \hspace{\hv@floatCapSep}%
812         \put@CaptionBox
813     \else
814     \ifx\hvSet@capVPos\hv@Top
815         \put@ObjectBox[1]%
816         \hspace{\hv@floatCapSep}% capfloatsep
817         \put@CaptionBox[1]%
818     \else
819         \put@ObjectBox[2]%
820         \hspace{\hv@floatCapSep}% capfloatsep
821         \put@CaptionBox[2]%
822     \fi
823     \fi
824 \or%3 bottom
825     \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
826     \begin{minipage}{\wd\hvCaptionBox}%
827     \else
828     \begin{minipage}{\wd\hvObjectBox}%
829     \fi
830     \centering
831     \ifhv@fbox
832     \fbox{\usebox{\hvObjectBox}}\[\[0.5\hvAboveCaptionSkip]%
833     \fbox{\usebox{\hvCaptionBox}}%
834     \else
835     \ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi\[\[0.5\hvAboveCaptionSkip]%
836     \usebox{\hvCaptionBox}%
837     \fi
838 \end{minipage}%

```

```

839 \fi% \ifcase\the\hv@capPos
840 }% End savebox Object and caption %%%%%%%%%%% @tempboxa
841 %
842 % now we rotate the object and caption, if needed
843 %
844 \ifhv@wide
845 \ifoddpageoroneside
846 \if@twocolumn
847 \if@firstcolumn
848 \noindent
849 \hspace*{\dimexpr-\marginparwidth-\marginparsep}% oddpage first column
850 \fi
851 \fi
852 \else
853 \ifoddpage
854 \if@twocolumn
855 \if@firstcolumn
856 \noindent
857 \hspace*{\dimexpr-\marginparwidth-\marginparsep}% oddpage first column
858 \fi
859 \fi
860 \else% evenpage
861 \if@firstcolumn
862 \noindent
863 \hspace*{\dimexpr-\marginparwidth-\marginparsep}% <- for wide and left page
864 \fi
865 \fi
866 \fi
867 \fi
868 \ifx\hvSet@rotAngle\hv@Zero
869 \usebox{\@tempboxa}%
870 \else
871 \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}%
872 \fi
873 \ifhv@nonFloat
874 \ifx\hvSet@objectPos\hv@Center
875 % \ifhv@nonFloat
876 \hspace{\fill}%
877 % \fi
878 \fi
879 \endgroup% End the nonfloat part
880 \else
881 \ifhv@star
882 \@nameuse{end\hv@floatType*}% End the floating environment
883 \else
884 \end{\hv@floatType}% End the floating environment
885 \fi
886 \fi
887 \endgroup% startet at main \hvFloat
888 }
889 %
890 \newenvironment{hvFloatEnv}[1][\textwidth]
891 {\minipage{#1}}

```

25 The Package Source

```

892   {\endminipage}
893   %
894
895   \ExplSyntaxOn
896   \let\clist@item@Nn\clist_item:Nn
897   \let\l@clist@Type\l_clist_Type
898   \let\l@clist@LofCaption\l_clist_LofCaption
899   \let\l@clist@Label\l_clist_Label
900   \let\clist@count@N\clist_count:N
901   \ExplSyntaxOff
902
903   \def\do@@@hvFloat{% special float page: caption <-> fullpage images
904     \ifx\hvSet@capPos\hv@After \global\hv@capPos=1
905     \else
906       \ifx\hvSet@capPos\hv@Even \global\hv@capPos=2
907       \else
908         \ifx\hvSet@capPos\hv@Odd \global\hv@capPos=3
909         \else
910           \ifx\hvSet@capPos\hv@Inner \global\hv@capPos=4
911           \else
912             \ifx\hvSet@capPos\hv@Outer \global\hv@capPos=5
913             \else
914               \ifx\hvSet@capPos\hv@Right \global\hv@capPos=6% only for twocolumn mode
915               \else
916                 \ifx\hvSet@capPos\hv@Left \global\hv@capPos=7% only for twocolumn mode
917                 \else
918                   \global\hv@capPos=0
919                 \fi
920               \fi
921             \fi
922           \fi
923         \fi
924       \fi
925     \fi
926     \checkoddpage
927     \set@caption@object{\hv@floatType}% set caption and object into a box
928     \ifcase\hv@capPos% caption before object 0-> _always_ left
929       \setBottomCaption\setPageObject
930     \or% caption after object 1-> _always_ right
931       \setPageObject\setBottomCaption
932     \or% caption on even page 2-> left page
933       \ifoddpage
934         \afterpage{\setBottomCaption\setPageObject}%
935       \else% we are on an even page
936         \setBottomCaption\setPageObject
937       \fi
938     \or% caption on odd page 3->right page
939       \if@twoside
940         \if@twocolumn
941           \ifoddpage
942             \if@firstcolumn% on right side
943               \setBottomCaption\setPageObject
944             \else

```



```

945         \afterpage{\setPageObject\setBottomCaption}% start next column
946     \fi
947 \else% left (even) page
948     \if@firstcolumn
949         \afterpage{\setPageObject\setBottomCaption}% start next column
950     \else
951         \setPageObject\setBottomCaption
952     \fi
953 \fi
954 \else% onecolumn
955     \ifoddpage
956         \setPageObject\setBottomCaption
957     \else% even page
958         \afterpage{\setPageObject\setBottomCaption}%
959     \fi
960 \fi
961 \else% oneside
962     \if@twocolumn
963         \ifoddpage
964             \if@firstcolumn% on right side
965                 \setBottomCaption\setPageObject
966             \else
967                 \setPageObject\setBottomCaption
968             \fi
969         \else
970             \if@firstcolumn% on left side
971                 \afterpage{\setPageObject\setBottomCaption}%
972             \else
973                 \setPageObject\setBottomCaption
974             \fi
975         \fi
976     \else % onecolumn
977         \ifoddpage
978             \setBottomCaption\setPageObject
979         \else
980             \afterpage{\setBottomCaption\setPageObject}%
981         \fi
982     \fi
983 \fi
984 \or% caption on the inner column 4->inner
985 % \set@caption@object
986 \if@twocolumn
987     \ifoddpage
988         \if@firstcolumn% on right side
989         \setBottomCaption\setPageObject
990     \else % right column on right side
991         \setPageObject\setBottomCaption% start next firstcolumn next page
992     \fi
993 \else
994     \if@firstcolumn% on left side
995         \afterpage{\afterpage{\setBottomCaption\setPageObject}}% start next page/first column
996     \else% left page/column
997         \setBottomCaption\setPageObject% start on same page/column

```

25 The Package Source

```

998     \fi
999     \fi
1000   \else% onecolumn
1001     \setBottomCaption\setPageObject
1002   \fi
1003 \or%           caption on the outer column 5->outer
1004 %   \set@caption@object
1005   \if@twocolumn
1006     \ifoddpage
1007       \if@firstcolumn
1008         \afterpage{\afterpage{\setBottomCaption\setPageObject}}%
1009       \else
1010         \afterpage{\setBottomCaption\setPageObject}%
1011       \fi
1012     \else% even page (left)
1013       \if@firstcolumn
1014         \setBottomCaption\setPageObject
1015       \else
1016   %%           !!!! to-do: !!!!
1017     \fi
1018     \fi
1019   \else% onecolumn
1020     \setBottomCaption\setPageObject
1021   \fi
1022 \or%           caption after object on same page 6->right for twocolumn
1023   \if@twocolumn
1024     \if@firstcolumn
1025       \afterpage{\setPageObject\setBottomCaption}%
1026     \else
1027       \setPageObject\setBottomCaption
1028     \fi
1029   \else% always caption _after_ object for onecolumn
1030     \setPageObject\setBottomCaption
1031   \fi
1032 \or%           caption before object on same page 7->left for twocolumn
1033   \if@twocolumn
1034     \if@firstcolumn
1035       \setBottomCaption\setPageObject
1036     \else
1037       \afterpage{\setBottomCaption\setPageObject}%
1038     \fi
1039   \else%           onecolumn -> same as before
1040     \setBottomCaption\setPageObject
1041   \fi
1042 \fi
1043 \endgroup% startet at main \hvFloat
1044 }
1045 %
1046
1047
1048 %% ----- the doublepage obejcts -----
1049 %% ||lin+evenside --- |lin+oddside ---||
1050 %

```

```

1051 \def\do@hvFloat@doublePage#1{% image on left and right page with caption on the right page
1052 % #1-> 0/1 caption under/right
1053 \global\setlength\hv@leftPageObjectWidth{\dimexpr\paperwidth-lin-\evensidemargin-\hvSet@bindCorrection}%
1054 \global\setlength\hv@tempWidthA{\the\dimexprlin+\oddsidemargin-\hvSet@bindCorrection}%
1055 \xdef\hv@caption@format@temp{\hv@caption@format}% it gets lost otherwise for next afterpage
1056 \global\hv@switchTypefalse
1057 % \endgroup% started at main macro \hvFloat
1058 \setcounter{hv@tempCNTfigA}{\value{figure}}%
1059 \setcounter{hv@tempCNTfigB}{\value{figure}}%
1060 \setcounter{hv@tempCNTtabA}{\value{table}}%
1061 \setcounter{hv@tempCNTtabB}{\value{table}}%
1062 \savebox\hvCaptionBox{% NO rotation
1063 \minipage{\textwidth}% minipage, to get hyphenation
1064 \let\@captype\hv@floatType
1065 \caption*{\hv@longCap}%
1066 \endminipage}%
1067 \savebox\hvObjectBox{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1068 \ifnum#1=0\relax % no rotation, caption below
1069 \hv@typeout{Texthöhe: \the\textheight}%
1070 \hv@typeout{Objekthöhe: \the\ht\hvObjectBox}%
1071 \hv@typeout{Captionhöhe: \the\ht\hvCaptionBox}%
1072 \@tempdima=\dimexpr\ht\hvObjectBox+\ht\hvCaptionBox+\abovecaptionskip+\belowcaptionskip+\textfloatsep\
1073 \relax%+\floatsep\relax
1074 \hv@typeout{Summe: \the\@tempdima}%
1075 \ifdim\@tempdima > \dimexpr\textheight-\hv@minTextlines\relax
1076 \hv@typeout{hvfloat: switched to floattype p}%
1077 \hv@switchTypetrue
1078 \fi
1079 \fi
1080 \hv@typeout{do@hvFloat@doublePage: hv@tempWidthA=\the\hv@tempWidthA}%
1081 \checkoddpage
1082 \ifoddpage
1083 \if@twocolumn
1084 \ifhv@switchType
1085 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1086 \else
1087 \afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1088 \fi
1089 \else
1090 \ifhv@tugboat
1091 \do@hvFloat@doublePageCaptionRight{#1}%
1092 \else
1093 \ifhv@switchType
1094 \do@hvFloat@doublePAGECaptionRight{#1}%
1095 \else
1096 \afterpage{\do@hvFloat@doublePageCaptionRight{#1}}%
1097 \fi
1098 \fi
1099 \fi
1100 \else
1101 \ifhv@switchType
1102 \do@hvFloat@doublePAGECaptionRight{#1}%

```

25 The Package Source

```

1103     \else
1104       \afterpage{\do@hvFloat@doublePageCaptionRight{#1}}%
1105     \fi
1106   \fi
1107 \else% we have an even page
1108   \if@twocolumn
1109     \if@firstcolumn
1110       \ifhv@switchType
1111         \afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1112       \else
1113         \afterpage{\afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}}%
1114       \fi
1115     \else% second column
1116       \ifhv@switchType
1117         \afterpage{\do@hvFloat@doublePageCaptionRight{#1}}%
1118       \else
1119         \afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1120       \fi
1121     \fi
1122   \else% onecolumn
1123     \ifhv@switchType
1124       \afterpage{\do@hvFloat@doublePageCaptionRight{#1}}%
1125     \else
1126       \afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1127     \fi
1128   \fi
1129 \fi
1130 \let\c@fptop\hv@fptop
1131 \endgroup% started at main macro \hvFloat
1132 }
1133 %
1134 \def\do@hvFloat@doublePageCaptionRight#1{% image on left and right page with caption on the right page
1135 -----
1136   \do@hvFloat@doublePageCaptionRightObjectLeft{0pt}%
1137   \afterpage{\do@hvFloat@doublePageCaptionRightObjectRight{#1}}%
1138 }
1139 %
1140 \def\do@hvFloat@doublePageCaptionRightObjectLeft#1{% left part of the object
1141   \begin{\hv@floatType*}[!t]
1142     \let\c@hv@tempCNTfigA\c@figure
1143     \let\c@hv@tempCNTtabA\c@table
1144     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1145     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1146     \hv@typeout{Floatpositionsparameter: !t}%
1147     \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1148     \clipbox*{0 -\depth}{\hv@leftPageObjectWidth}{\height}{\usebox{\hvObjectBox}}%
1149     \ifx\hv@label\@empty
1150     \else
1151       \ifx\hv@floatType\hv@figure
1152         \global\refstepcounter{hv@tempCNTfigA}%
1153       \else
1154         \global\refstepcounter{hv@tempCNTtabA}% before caption
1155       \fi
1156     \fi
1157   \end

```

```

1155     \label{\hv@label}%
1156   \fi
1157   \ifhv@global@sameHeight
1158     \hv@typeout{text should be of same height of both pages}%
1159     \par\phantom{\parbox{\textwidth}{\caption*{\hv@longCap}}}%
1160   % \vspace{\textfloatsep}%
1161   \fi
1162   \end{\hv@floatType*}%
1163 }
1164 \def\do@hvFloat@doublePageCaptionRightObjectRight#1{% right part of the object
1165   \begin{\hv@floatType*}[!t]
1166     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1167     \global\savebox\hvObjectBox{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1168     \hspace*{-\hv@tempWidthA}%
1169     \savebox\hv@rightBox{\clipbox*{\hv@leftPageObjectWidth{} -\depth{} \width{} \height{} }\usebox\hvObjectBox}%
1170     \global\setlength\hv@tempWidthB{\dimexpr\textwidth-\wd\hv@rightBox-\hvSet@bindCorrection+lin+\oddsidemargin-\hv@floatCapSep\relax}%
1171     \hv@typeout{Height of right box: \the\ht\hv@rightBox}%
1172     \hv@typeout{Depth of right box : \the\dp\hv@rightBox}%
1173     \ifdim\dp\hv@rightBox > \z@
1174       \raisebox{\depth}{\usebox\hv@rightBox}%
1175     \else
1176       \usebox\hv@rightBox
1177     \fi
1178     \c@hv@tempCNTfigB=\numexpr\c@figure-1\relax
1179     \c@hv@tempCNTtabB=\numexpr\c@table-1\relax
1180     \ifx\hv@label\@empty\else
1181       \ifx\hv@floatType\hv@figure
1182         \refstepcounter{\hv@tempCNTfigB}%
1183       \else
1184         \refstepcounter{\hv@tempCNTtabB}% before caption
1185       \fi
1186       \label{\hv@label-2}%
1187     \fi
1188     \ifx\hv@caption@format@temp\@empty\else
1189       \expandafter\captionsetup\expandafter{\hv@caption@format@temp}%
1190     \fi
1191     \c@figure=\numexpr\c@hv@tempCNTfigB-1\relax
1192     \c@table=\numexpr\c@hv@tempCNTtabB-1\relax
1193     \ifnum#1>\z@ % caption on the right
1194       \hv@typeout{doublePage: capAngle=\hvSet@capAngle}%
1195       \ifnum\hvSet@capAngle > \z@
1196         \hspace{\hv@floatCapSep}%
1197         \rlap{\rotatebox{\hvSet@capAngle}{\parbox[b]{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1198           \abovecaptionskip=0pt% local inside parbox
1199           \belowcaptionskip=0pt% local inside parbox
1200           \ifx\relax\hv@shortCap\relax
1201             \caption{\hv@longCap}%
1202           \else
1203             \caption[\hv@shortCap]{\hv@longCap}%
1204           \fi
1205         }}}%

```


25 The Package Source

```

1206     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1207   \else
1208     \global\setlength\hv@tempWidthB{\dimexpr\textwidth-\wd\hv@rightBox-\hvSet@bindCorrection+lin+\
      oddsidemargin-\hv@floatCapSep\relax}%
1209     \hspace{\hv@floatCapSep}%
1210     \rlap{\parbox[b]{\dimexpr\ht\hv@rightBox+\dp\hv@rightBox}{\hv@capVPos}{\hv@tempWidthB}{%
1211       \abovecaptionskip=0pt% local inside parbox
1212       \belowcaptionskip=0pt% local inside parbox
1213       \ifx\hv@shortCap\@empty
1214         \caption{\hv@longCap}%
1215       \else
1216         \caption[\hv@shortCap]{\hv@longCap}%
1217       \fi
1218     }}%
1219     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1220   \fi
1221   \else % #1 = 0 caption below
1222     \ifx\relax\hv@shortCap\relax
1223       \caption{\hv@longCap}%
1224     \else
1225       \caption[\hv@shortCap]{\hv@longCap}%
1226     \fi
1227     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1228   \fi
1229   \vspace{0pt}%
1230   \end{\hv@floatType*}
1231 }
1232 %
1233 \newsavebox\hv@boxLeftPage
1234 \newsavebox\hv@boxRightPage
1235 %
1236 %% ||lin+evenside --- |lin+oddside --- ||
1237 %
1238
1239 \def\do@hvFloat@doublePAGE#1{% image on left and right page with caption on the right
  -----
  % #1-> 0/1 caption under/right
1240 \global\setlength\hv@tempWidthA{\the\dimexprlin+\oddsidemargin-\hvSet@bindCorrection}%
1241 \global\setlength\hv@leftPageObjectWidth{\the\dimexpr\paperwidth-lin-\evensidemargin-\hvSet@bindCorrection}
1242 %
1243 \expandafter\global\expandafter\savebox\expandafter\hvObjectBox\expandafter{\ifhv@use0Box\usebox{\hv0Box}\
  else\hv@floatObject\fi}%
1244 \expandafter\global\expandafter\savebox\expandafter\hv@boxLeftPage\expandafter{\clipbox*{0 -\depth}{ \
  hv@leftPageObjectWidth}{ \height}{\usebox\hvObjectBox}}%
1245 \expandafter\global\expandafter\savebox\expandafter\hv@boxRightPage\expandafter{\clipbox*{\
  hv@leftPageObjectWidth}{ -\depth}{ \width}{ \height}{\usebox\hvObjectBox}}%
1246 % |endgroup% started at main macro \hvFloat
1247 \checkoddpag
1248 \ifoddpag
1249   \if@twocolumn
1250     \if@firstcolumn
1251       \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1252     \else

```

```

1253     \do@hvFloat@doublePAGECaptionRight{#1}%
1254     \fi
1255   \else
1256     \do@hvFloat@doublePAGECaptionRight{#1}%
1257   \fi
1258 \else
1259   \if@twocolumn
1260     \if@firstcolumn
1261       \afterpage{\afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}}%
1262     \else
1263       \afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}%
1264     \fi
1265   \else
1266     \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1267   \fi
1268 \fi
1269 \endgroup% startet at main macro
1270 }
1271 %
1272 \def\do@hvFloat@doublePAGECaptionRight#1{% image on left and right page with caption on the right
-----
1273 % #1-> 0/1 caption under/right
1274 \afterpage{%
1275   \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1276   \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1277   \noindent
1278   \clipbox*{0 -\depth}{\hv@leftPageObjectWidth}{\height}{\usebox{\hvObjectBox}}%
1279   \null\newpage\if@twocolumn\null\newpage\fi
1280   \expandafter\global\expandafter\savebox\expandafter{\hvObjectBox\expandafter{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}}%
1281   \noindent
1282   \hspace*{\dimexpr-\hv@tempWidthA}%
1283   \clipbox*{\the\hv@leftPageObjectWidth}{-\depth}{\width}{\height}}{\usebox{\hvObjectBox}}%
1284   \begingroup
1285     \ifnum#1>0
1286       \medskip
1287       \ifdim\dp\hvObjectBox > \z@
1288         \rotatebox[origin=c]{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1289           \ifx\relax\hv@shortCap\relax
1290             \captionof{\hv@floatType}{\hv@longCap}%
1291           \else
1292             \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1293           \fi
1294         }}%
1295       \ifx\hv@label\@empty\else\label{\hv@label}\fi
1296     \else
1297       \rotatebox{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1298         \ifx\relax\hv@shortCap\relax
1299           \captionof{\hv@floatType}{\hv@longCap}%
1300         \else
1301           \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1302         \fi
1303       }}%

```

25 The Package Source

```

1304         \ifx\hv@label\@empty\else\label{\hv@label}\fi
1305     \fi
1306 \else% caption not rotated
1307     \par\noindent
1308     \parbox{\textwidth}{%
1309         \ifx\relax\hv@shortCap\relax
1310             \captionof{\hv@floatType}{\hv@longCap}%
1311         \else
1312             \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1313         \fi
1314         \ifx\hv@label\@empty\else\label{\hv@label}\fi
1315     }%
1316 \fi
1317 \endgroup
1318 \newpage\if@twocolumn\null\newpage\fi
1319 }%
1320 }
1321 %
1322 %% ||lin+evenside --- |lin+oddside --- ||
1323 %
1324 \def\do@hvFloat@doubleFULLPAGE#1{% image on left and right page with caption before/below/right/after
1325     % #1-> 0/1 caption under/right
1326     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1327     \ifx\hvSet@capPos\hv@After \global\hv@@capPos=1
1328     \else
1329         \ifx\hvSet@capPos\hv@Before \global\hv@@capPos=0
1330         \else
1331             \global\hv@@capPos=2 % other caption type
1332         \fi\fi
1333     \checkoddpages
1334     \global\savebox{\hv0ObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1335     \global\setlength\hv@tempWidthA{\dimexpr-\oddsidemargin-\lin-\parindent+\hvSet@bindCorrection}% the width
1336     of the right side offset
1337     \global\setlength\hv@tempWidthB{\dimexpr\ht\hvCaptionBox+\wd\hv0ObjectBox+2\hvSet@bindCorrection}%
1338     \global\setlength\hv@leftPageObjectWidth{\dimexpr\paperwidth-\hvSet@bindCorrection}%
1339     % |savebox\hv@leftBox{\clipbox*{0 0 |the\hv@leftPageObjectWidth{ } |height|}{\usebox\hv0ObjectBox}}%
1340     % |savebox\hv@rightBox{\clipbox*{the\hv@leftPageObjectWidth{ } |depth{ } |width{ } |height|}{\usebox\hv0ObjectBox}}%
1341     % |expandafter\captionsetup\expandafter{\hv@caption@format}%
1342     \ifoddpage
1343     \ifcase\hv@@capPos % =0 Caption before
1344         \if@twocolumn
1345             \if@firstcolumn
1346                 \ifhv@twoColumnCaption
1347                     \set@Normal@Bottom@Caption*
1348                     \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1349                 \else
1350                     \afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1351                 \fi
1352             \else% if@firstcolumn
1353                 \set@Normal@Bottom@Caption
1354                 \do@hvFloat@doubleFULLPAGE@CaptionBefore
1355             \fi
1356         \fi
1357     \fi

```

```

1355 \else% \if@twocolumn
1356 \set@Normal@Bottom@Caption
1357 \do@hvFloat@doubleFULLPAGE@CaptionBefore
1358 \fi
1359 \or % =1 Caption after
1360 \ifhv@twoColumnCaption
1361 \if@firstcolumn
1362 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol}%
1363 \else
1364 \do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol
1365 \fi
1366 \else
1367 \if@twocolumn
1368 \if@firstcolumn
1369 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter}%
1370 \else
1371 \do@hvFloat@doubleFULLPAGE@CaptionAfter
1372 \fi
1373 \else
1374 \do@hvFloat@doubleFULLPAGE@CaptionAfter
1375 \fi
1376 \fi
1377 \else% \ifcase >1 all other Captions
1378 \if@twocolumn
1379 \if@firstcolumn
1380 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}%
1381 \else
1382 \do@hvFloat@doubleFULLPAGE@CaptionOther{#1}%
1383 \fi
1384 \else % \if@twocolumn
1385 \do@hvFloat@doubleFULLPAGE@CaptionOther{#1}%
1386 \fi
1387 \fi% \ifcase
1388 \else% we have an even page
1389 \ifcase\hv@@capPos% Before
1390 \if@twocolumn
1391 \if@firstcolumn
1392 \ifhv@twoColumnCaption
1393 \afterpage{\afterpage\set@Normal@Bottom@Caption*\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}%
1394 \else
1395 \afterpage{\afterpage{\afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}%
1396 \fi
1397 \else
1398 \afterpage{\afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}%
1399 \fi
1400 \else% \if@twocolumn
1401 \afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1402 \fi
1403 \or % capPos after
1404 \if@twocolumn
1405 \if@firstcolumn

```

25 The Package Source

```

1406         \ifhv@twoColumnCaption
1407         \afterpage{\afterpage\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol{#1}}}%
1408     \else
1409         \afterpage{\afterpage\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter{#1}}}%
1410     \fi
1411 \else
1412     \ifhv@twoColumnCaption
1413     \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol{#1}}}%
1414 \else
1415     \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter{#1}}}%
1416 \fi
1417 \fi
1418 \else% \if@twocolumn
1419     \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter}%
1420 \fi
1421 \else% \ifcase Any other caption
1422     \if@twocolumn
1423     \if@firstcolumn
1424     \afterpage{\afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}}}%
1425     \else
1426     \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}}%
1427     \fi
1428     \else
1429     \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}%
1430     \fi
1431 \fi% \ifcase
1432 \fi% main ifoddpge
1433 \endgroup% started at main macro \hvFloat
1434 }
1435
1436 \def\set@Normal@Bottom@Caption{\@ifnextchar*\set@Normal@Bottom@CaptionStar\set@Normal@Bottom@Caption@}
1437 \def\set@Normal@Bottom@Caption@{%
1438     \begin{\hv@floatType}[!b]
1439         \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1440         \ifhv@separatorLine\drawSepLine\fi
1441     %
1442     \expandafter\captionsetup\expandafter{\hv@caption@format}%
1443     \ifx\hv@shortCap\@empty
1444         \captionof{\hv@floatType}{\hv@longCap}%
1445     \else
1446         \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1447     \fi
1448     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1449     \end{\hv@floatType}%
1450 }
1451 \def\set@Normal@Bottom@CaptionStar*{%
1452     \begin{\hv@floatType*}[!b]
1453         \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1454         \ifhv@separatorLine\drawSepLine\fi
1455     %
1456     \expandafter\captionsetup\expandafter{\hv@caption@format}%
1457     \ifx\hv@shortCap\@empty
1458         \captionof{\hv@floatType}{\hv@longCap}%
1459     \else
1460         \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%

```

```

1459     \fi
1460     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1461     \end{\hv@floatType*}%
1462 }
1463
1464 \def\do@hvFloat@doubleFULLPAGE@CaptionBefore{%
1465   \afterpage{%
1466     \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1467     \vspace*{\the\dimexpr-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}% no
        interlineskip
1468     \hspace*{\the\dimexpr-\evensidemargin-\parindent-lin}%
1469     \thispagestyle{empty}%
1470     \ifx\hv@floatType\hv@figure
1471       \global\refstepcounter{hv@tempCNTfigB}%
1472     \else
1473       \global\refstepcounter{hv@tempCNTtabB}% before caption
1474     \fi
1475     \expandafter\label\expandafter{\hv@label}%
1476     \clipbox*{0 0 \the\hv@leftPageObjectWidth{} \height}{\usebox{\hvObjectBox}%
1477   \afterpage{%
1478     \if@twocolumn\newpage\null\newpage\fi
1479     \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1480     \thispagestyle{empty}%
1481     \vspace*{\the\dimexpr-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}% -0.5\
        paperheight+0.5\ht\hvObjectBox
1482     \hspace*{\hv@tempWidthA}%
1483     \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1484     \clipbox*{\the\hv@leftPageObjectWidth{} \dp\hvObjectBox{} \wd\hvObjectBox{} \ht\hvObjectBox}{\usebox\
        hvObjectBox}%
1485     \ifx\hv@floatType\hv@figure
1486       \global\refstepcounter{hv@tempCNTfigA}%
1487     \else
1488       \global\refstepcounter{hv@tempCNTtabA}% before caption
1489     \fi
1490     \expandafter\label\expandafter{\hv@label-2}%
1491     \newpage\if@twocolumn\null\newpage\fi
1492   }}%
1493 }
1494
1495 \newif\ifhv@temp
1496
1497 \def\do@hvFloat@doubleFULLPAGE@CaptionAfter{%
1498   \afterpage{%
1499     \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1500     \vspace*{\the\dimexpr-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}% no
        interlineskip
1501     \hspace*{\the\dimexpr-\evensidemargin-\parindent-lin}%
1502     \thispagestyle{empty}%
1503     \clipbox*{0 \the\dp\hvObjectBox{} \the\hv@leftPageObjectWidth{} \the\ht\hvObjectBox}{\usebox{\hvObjectBox}%
        %
1504     \ifx\hv@floatType\hv@figure
1505       \refstepcounter{hv@tempCNTfigA}%
1506     \else

```


25 The Package Source

```

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

```

```

1556 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1557 \clipbox*{\the\hv@leftPageObjectWidth{\dp\hvObjectBox}\wd\hvObjectBox}\ht\hvObjectBox}{\usebox\
hvObjectBox}%
1558 \ifx\hv@floatType\hv@figure
1559 \refstepcounter{hv@tempCNTfigB}%
1560 \else
1561 \refstepcounter{hv@tempCNTtabB}% before caption
1562 \fi
1563 \ifx\hv@label\@empty\else\label{\hv@label-2}\fi
1564 \newpage
1565 \begin{\hv@floatType*}[!b]
1566 \hv@twoColumnCaptiontrue
1567 \ifhv@separatorLine\drawSepLine\fi
1568 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1569 \ifx\hv@shortCap\@empty
1570 \captionof{\hv@floatType}{\hv@longCap}%
1571 \else
1572 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1573 \fi
1574 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1575 \end{\hv@floatType*}%
1576 }%
1577 }
1578
1579 \def\do@hvFloat@doubleFULLPAGE@CaptionOther#1{%
1580 \afterpage{%
1581 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1582 \thispagestyle{empty}%
1583 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}% -0.5\
paperheight+0.5\ht\hvObjectBox
1584 \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1585 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1586 \clipbox*{0\depth}{\hv@leftPageObjectWidth{\height}{\usebox\hvObjectBox}%
1587 \ifx\hv@floatType\hv@figure
1588 \refstepcounter{hv@tempCNTfigA}%
1589 \else
1590 \refstepcounter{hv@tempCNTtabA}% before caption
1591 \fi
1592 \label{\hv@label}%
1593 \afterpage{%
1594 \if@twocolumn\newpage\if@firstcolumn\else\null\newpage\fi\fi
1595 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1596 \thispagestyle{empty}%
1597 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}% -0.5\
paperheight+0.5\ht\hvObjectBox
1598 \hspace*{\hv@tempWidthA}%
1599 \clipbox*{\hv@leftPageObjectWidth{\dp\hvObjectBox}\wd\hvObjectBox}\ht\hvObjectBox}{\usebox\
hvObjectBox}%
1600 \ifx\hv@floatType\hv@figure
1601 \refstepcounter{hv@tempCNTfigB}%
1602 \else
1603 \refstepcounter{hv@tempCNTtabB}% before caption
1604 \fi

```

```

1605 \expandafter\label\expandafter{\hv@label-2}%
1606 \savebox\hvCaptionBox{\parbox{0.9\ht\hvObjectBox}{\captionof*{\hv@floatType}{\hv@longCap}}}%
1607 \ifnum#1 > 0\relax % rotation with 90°
1608 % \setlength\hv@tempWidthB{\dimexpr\ht\hvCaptionBox+\wd\hvObjectBox+2\hvSet@bindCorrection}%
1609 \ifdim\hv@tempWidthB < 2\paperwidth
1610 \rotatebox[origin=lb]{90}{\makebox[\paperheight][c]{\parbox{0.8\ht\hvObjectBox}{%
1611 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1612 \ifx\hv@shortCap\@empty
1613 \captionof{\hv@floatType}{\hv@longCap}%
1614 \else
1615 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1616 \fi
1617 }}}% rotatebox
1618 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1619 \else% ifdim: no space left on page
1620 \put(-2\ht\hvCaptionBox,0.5\ht\hvObjectBox){\makebox(0,0){\rotatebox{90}{\minipage{\textwidth}\
1621 centering
1622 \parbox{0.8\textwidth}{%
1623 \ifx\hv@shortCap\@empty
1624 \captionof{\hv@floatType}{\hv@longCap}%
1625 \else
1626 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1627 \fi
1628 }%
1629 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1630 \endminipage}}}%
1631 \fi
1632 \else% ifnum, caption not rotated, under or over the right page
1633 \setlength\hv@tempWidthA{\dimexpr\paperheight-\ht\hvObjectBox}%
1634 \ifdim\hv@tempWidthA > \ht\hvCaptionBox
1635 \put(\the\dimexpr1.5\paperwidth-\wd\hvObjectBox-\hvSet@bindCorrection,\the\dimexpr\ht\hvCaptionBox
1636 +\abovcaptionskip+\belowcaptionskip){\makebox[0pt][c]{\parbox{\textwidth}{%
1637 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1638 \ifx\hv@shortCap\@empty
1639 \captionof{\hv@floatType}{\hv@longCap}%
1640 \else
1641 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1642 \fi
1643 }}}%
1644 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1645 \fi
1646 \fi% end \ifnum#1>0
1647 \newpage\if@twocolumn\null\newpage\fi
1648 }%
1649 }
1650
1651
1652 \def\setBottomCaption{%
1653 \begin{\hv@floatType}[!b]%
1654 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1655 \ifhv@separatorLine\drawSepLine\fi

```

```

1656 \par
1657 \usebox\hvCaptionBox
1658 \end{\hv@floatType}%
1659 }
1660
1661 \def\setPageObject{%
1662 \ifhv@star
1663 \begin{\hv@floatType*}[p]%
1664 \else
1665 \begin{\hv@floatType}[p]%
1666 \fi
1667 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1668 \ifhv@FULLPAGE
1669 \vspace*{\the\dimexpr-\voffset-\topmargin-\headheight-\headsep}%-0.5\baselineskip%
1670 \checkoddpage
1671 \if@twoside
1672 \ifoddpage
1673 \hspace*{\the\dimexpr-\oddsidemargin-\parindent-lin}%
1674 \else
1675 \hspace*{\the\dimexpr-\evensidemargin-\parindent-lin}%
1676 \fi
1677 \else
1678 \hspace*{\the\dimexpr-\oddsidemargin-\parindent-lin}%
1679 \fi
1680 \AtBeginShipoutNext{\thispagestyle{empty}}%
1681 \usebox\hvObjectBox
1682 \else
1683 \usebox\hvObjectBox
1684 \fi
1685 \ifhv@star
1686 \end{\hv@floatType*}%
1687 \else
1688 \end{\hv@floatType}%
1689 \fi
1690 }
1691
1692 \ExplSyntaxOn
1693
1694 \def\getMultiCaptionAndLabel{%
1695 \global\sbox\hvCaptionBox{\minipage[b]{\linewidth}%
1696 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1697 % \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
1698 \setlength\belowcaptionskip{5pt}%
1699 \setlength\abovecaptionskip{0pt}%
1700 \hv@cntb=\clist_count:N\l_clist_Type
1701 \advance\hv@cntb by \@ne
1702 \hv@cнта=1
1703 \loop
1704 \edef\@captype{\clist_item:Nn\l_clist_Type{\hv@cнта}}%
1705 \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{\hv@cнта}}%
1706 \ifx\@tempa\empty
1707 \caption{\clist_item:Nn\l_clist_Caption{\hv@cнта}}%
1708 \else

```

```

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

```

```

1762 \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{1}}%
1763 \ifx\@tempa\@empty
1764 \caption{\clist_item:Nn\l_clist_Caption{1}}%
1765 \else
1766 \expandafter\caption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{1}}%
1767 \fi
1768 \edef\@tempa{\clist_item:Nn\l_clist_Label{1}}%
1769 \ifx\@tempa\@empty\else\expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{1}-cap}\fi
1770 \endminipage}%
1771 }
1772
1773 \def\getMultiSubObjectAndLabel{%
1774 \global\sbox\hvObjectBox{%
1775 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1776 \ifhv@vFill
1777 \minipage[b][\textheight][s]{\columnwidth}%
1778 \else
1779 \minipage{\columnwidth}%
1780 \fi
1781 % \ifx\hv@subcaption@format\@empty\else
1782 % \expandafter
1783 % \captionsetup\expandafter[\expandafter s\expandafter u\expandafter b\expandafter]\expandafter
1784 % {\hv@subcaption@format}%
1785 % \fi
1786 \ifx\hvSet@objectPos\hv@Right\raggedleft\else
1787 \ifx\hvSet@objectPos\hv@Left\raggedleft\else
1788 \ifx\hvSet@objectPos\hv@Center\centering
1789 \fi\fi\fi
1790 \hv@cntb=\clist_count:N\l_clist_Caption
1791 \advance\hv@cntb by \@ne
1792 \hv@cna=2
1793 \edef\@captype{\clist_item:Nn\l_clist_Type{1}}% the same for all subfloats
1794 \ifx\@tempa\@empty
1795 \else
1796 % \refstepcounter{\@captype}%
1797 % \expandafter\label\expandafter{\@tempa}%
1798 \fi
1799 \loop
1800 \def\@temp{\clist_item:Nn\l_clist_Object{\hv@cna}}%
1801 \ifhv@objectFrame\frame{\@temp}\else\@temp\fi
1802 \begingroup
1803 \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{\hv@cna}}%
1804 \ifx\@tempa\@empty
1805 \subcaption{\clist_item:Nn\l_clist_Caption{\hv@cna}}%
1806 \else
1807 \expandafter\subcaption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{\hv@cna}}%
1808 \fi
1809 \edef\@tempa{\clist_item:Nn\l_clist_Label{\hv@cna}}%
1810 \ifx\@tempa\@empty
1811 \else
1812 \expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{\hv@cna}}%
1813 \fi
1814 \endgroup

```

25 The Package Source

```

1815     \ifnum\hv@cnta<\clist_count:N\l_clist_Type\par\hv\vskip\fi
1816     \advance\hv@cnta by \@ne
1817     \ifnum\hv@cnta<\hv@cntb
1818     \ifhv@vFill\vfill\fi
1819     \repeat
1820     \edef\@tempa{\clist_item:Nn\l_clist_Label{1}}%    the main label at the end
1821     \ifx\@tempa\@empty
1822     \else
1823     %       \addtocounter{\@captype}{-1}%           to get the same <object>-ref as "label"-cap
1824     \edef\@temp{\hv@p\@captype}%
1825     \refstepcounter{\@temp}%
1826     \expandafter\label\expandafter{\@tempa}%
1827     \fi
1828     \endminipage}%
1829 }
1830 \ExplSyntaxOff
1831
1832 \def\getSingleCaptionAndLabel{%
1833   \global\sbox\hvCaptionBox{\minipage{\linewidth}%
1834     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1835     \setlength\belowcaptionskip{5pt}%
1836     \setlength\abovecaptionskip{0pt}%
1837     \edef\@captype{\hv@floatType}%
1838     \expandafter\ifx\expandafter\relax\hv@shortCap\relax
1839     \caption{\hv@longCap}%
1840     \else
1841     \caption[\hv@shortCap]{\hv@longCap}%
1842     \fi
1843     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1844     \endminipage}%
1845 }
1846
1847 \def\set@caption@object#1{%    first caption, then object  #1=\hv@floatType
1848   \ifhv@multiFloat
1849     \setcounter{\hv@pfigure}{\value{figure}}%
1850     \setcounter{\hv@ptable}{\value{table}}%
1851     \getMultiCaptionAndLabel
1852   \else
1853     \ifhv@subFloat
1854       \setcounter{\hv@pfigure}{\value{figure}}%
1855       \setcounter{\hv@ptable}{\value{table}}%
1856       \getMultiSubCaptionAndLabel
1857     \else
1858       \getSingleCaptionAndLabel
1859     \fi
1860   \fi
1861   \edef\@captype{\hv@p#1}%
1862   \ifhv@multiFloat
1863     \getMultiObjectAndLabel
1864   \else
1865     \ifhv@subFloat
1866       \getMultiSubObjectAndLabel
1867     \else

```



```

1868 \global\sbox\hv0objectBox{%
1869 \refstepcounter{\@capttype}%
1870 \ifhv@objectFrame\frame{\hv@float0object}\else\hv@float0object\fi
1871 \expandafter\ifx\expandafter\relax\hv@label\relax
1872 \else
1873 \expandafter\label\expandafter{\hv@label}%
1874 \fi
1875 }%
1876 \fi
1877 \fi
1878 }
1879 %
1880 \endinput

```