

Package hvfloat

Rotating and scaling of objects and captions ver 2.20

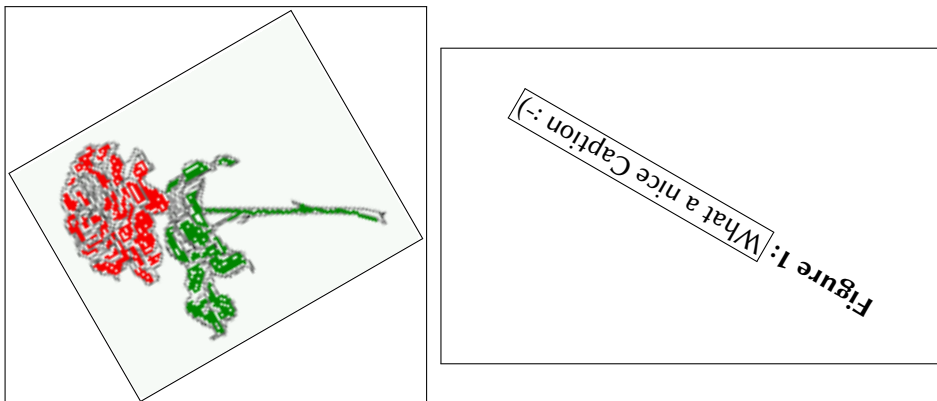
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The package hvfloat defines a macro to place objects and captions of floats in different positions with different rotating angles.

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

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



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1 The package options

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

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`, `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 52 and the optional `+` is explained in section 17.3 on page 39.

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

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

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

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

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

Table 1: A Caption without any sense and any object

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

2 The Macros and optional arguments

[...] It is no problem to use the `\verb|\tabcaption|` command to place a caption anywhere, like here in an `inlined` mode: `\tabcaption[The Caption without sense ...]{A Caption without any sense and any object}\label{dummy}` A label can be put inside the argument or after the command in the usual way, so that a reference to the not existing table `\ref{dummy}` is no problem.

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

`\hvDefFloatStyle{name}{setting}`

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

There are the following keywords:

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

Keyword	Default	Description
<code>floatPos</code>	<code>htb</code>	This is <i>not</i> the same default placement setting like the one from the floats.
<code>rotAngle</code>	<code>0</code>	The value for the angle if both, the object and the caption should be rotated in the same way.
<code>capWidth</code>	<code>n</code>	The width of the caption. Can be <code>»n«</code> like a natural width, <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 value for the angle if the caption should be rotated. Counted anti clockwise.
<code>capPos</code>	<code>before</code>	The position of the caption relative to the object. Possible values are before: <i>always</i> before (left) from 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. 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. oddPage: in twoside mode with fullpage objects always on an odd page.
<code>capVPos</code>	<code>c</code>	This is only important for <code>capPos=left right</code> . Only in this case the caption can vertically placed at the bottom, center and top.
<code>objectPos</code>	<code>center</code>	The horizontal placement of the object relative to the document. Possible values are (l) eft (c)enter (r)ight.
<code>objectAngle</code>	<code>0</code>	The value for the angle if the object should be rotated. Counted anti clockwise.

Keyword	Default	Description
floatCapSep	5pt	The additional width between the object and a left or right placed caption.
use0Box	false	Instead of passing the object as parameter to the <code>\hvFloat</code> , the contents maybe saved in the box <code>\hv0Box</code> . With <code>use0Box=true</code> the contents of this box will be used.
nonFloat	false	The object isn't put in a floating environment. It is printed as standard text with an additional caption. The float counters are increased as usual and can be referenced.
wide	false	The float can use <code>\textwidth+\marginparwidth</code> 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 <code>\caption</code> (see documentation of package <code>caption</code>).
subcapFormat	–	Define formatting options for <code>\subcaption</code> .

3 The default use of floating environments

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

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



Fig. 2

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

Code for figure 2:

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

Code for table 3:

Tab. 3

4 Caption width

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

```
\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. 8 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}}
%
```

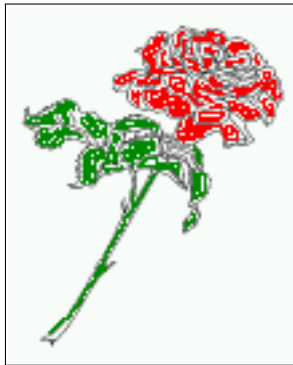


Figure 3: Default caption width setting, which is the natural width with respect to the current linewidth.

{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

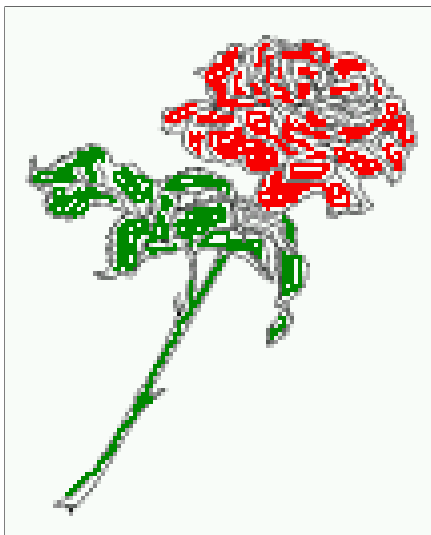


Figure 4: Caption right beside with a *natural* width, which is given by the width of the object, the separation between object and caption, and the current linewidth.

4.2 Relative linewidth

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

```
\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 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  $0.9\text{\textbackslashlinewidth}$   
which is too big for this example and therefore corrected  
by the macro to the maximal width.}{fig:width3}
```

Fig. 6

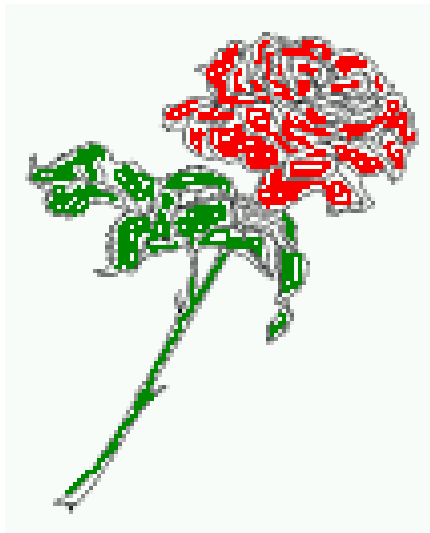


Figure 6: Caption right beside with a width setting of 0.9\linewidth which is too big for this example and therefore corrected by the macro to the maximal width.

4.3 Identical object and caption width

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

```
\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}
```

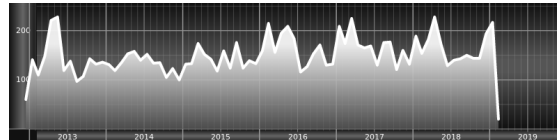


Figure 7: Caption below with a width of the given object which may be a problem if it is a very small object.

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}
```

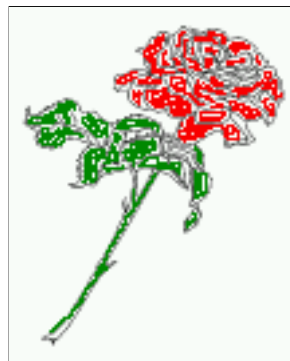


Figure 8: Caption beside with a width of the given object height which may be a problem if it is a very small object.

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

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.

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



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

Code for figure 11:

```
\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}
```

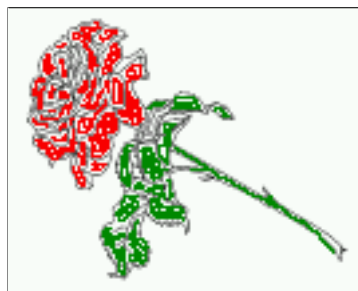


Figure 11: Caption vertically centered right beside the float with a caption width of the height of the image and a rotation of the caption and the object.

Fig. 11

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

6 Caption inner or outer

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

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

Code for figure 15:



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.



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

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



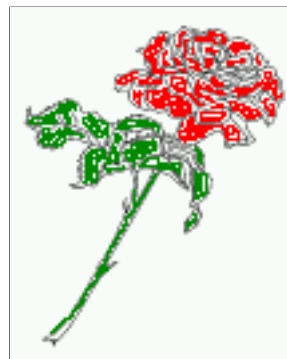
Figure 16: Caption at bottom right beside the float

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}
```

Fig. 17

Figure 17: Caption at top left beside the float



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}
```

Fig. 18



Figure 18: Caption centered right beside the float

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..

```
\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



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

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

The same with `capPos=left` :

Fig. 21

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

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



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}
```

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



Fig. 22

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

10 Wide floats

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

10 Wide floats

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

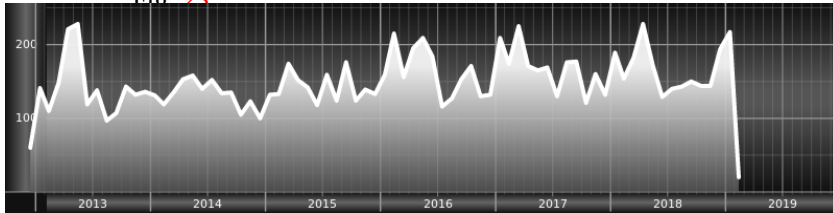


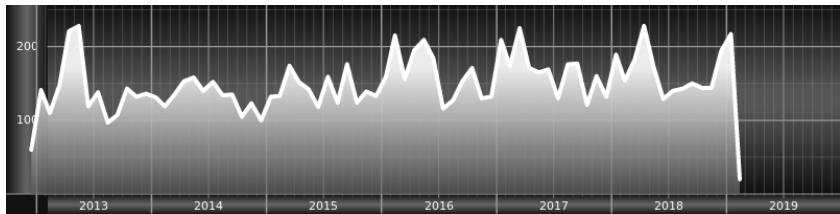
Figure 23: Caption at top right beside the float and object position left and the option wide.

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

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



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

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

```
\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.

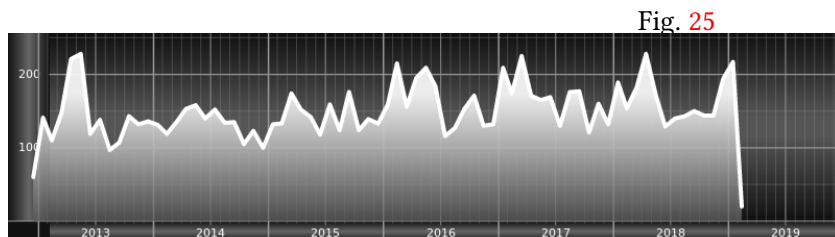


Fig. 25

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}.
```

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

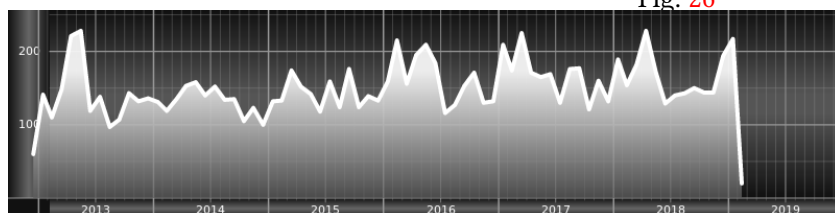


Fig. 26

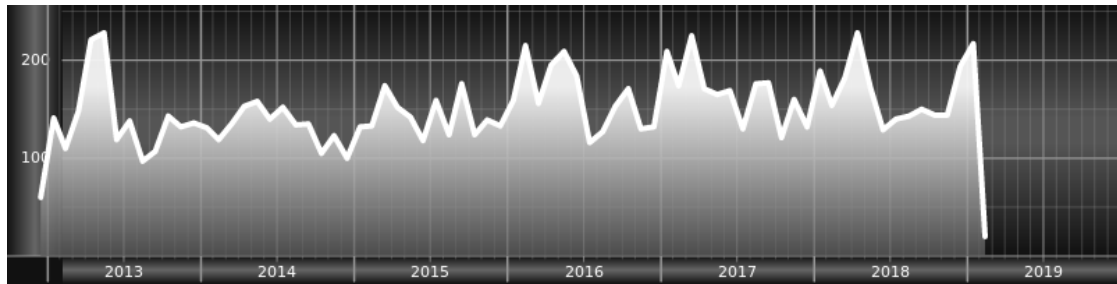
The caption can be typeset completely into the margin with:

```
\captionsetup{justification=RaggedRight}
\hvFloat[wide,
  capPos=outer,
  capVPos=top,
  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. 27

12 Full Page Width in Landscape Mode

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



11 The star version \hvFloat*

In the twocolumn mode the floating environment can be set over both columns with the star version `\hvFloat*`. The floating environment will not be on the bottom of the page. The code for the following example (Figure 28) is:

```
\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.

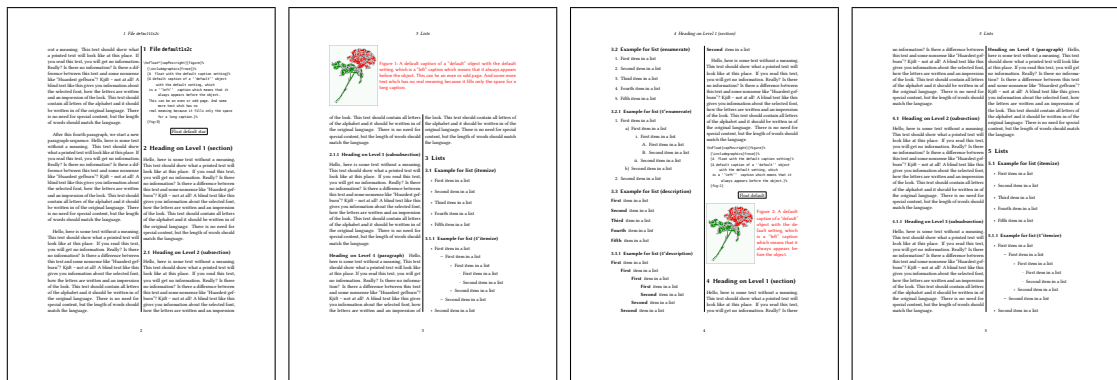


Figure 28: Output of default1s2c (pages 2 –5)

12 Full Page Width in Landscape Mode

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

```

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

```

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

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

Fig. 29

The code for figure 30:

```

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

```

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. 30

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

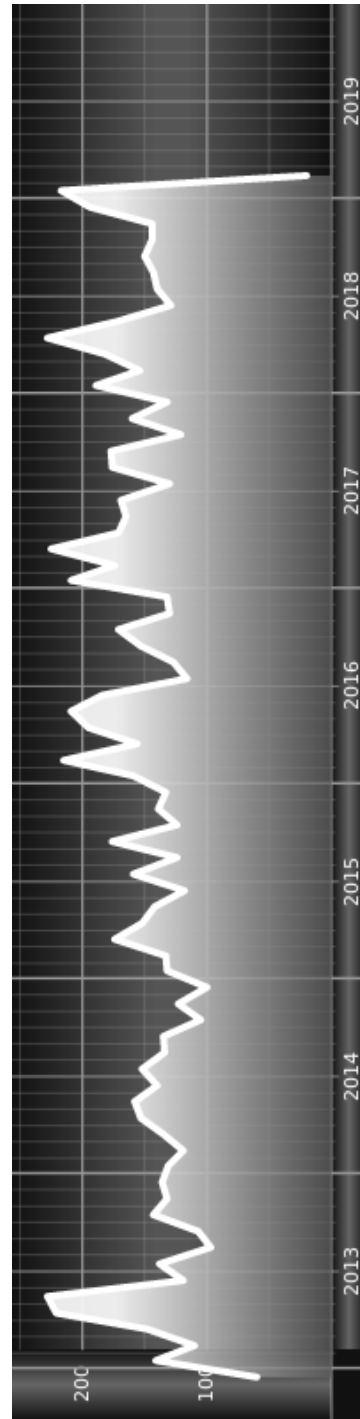
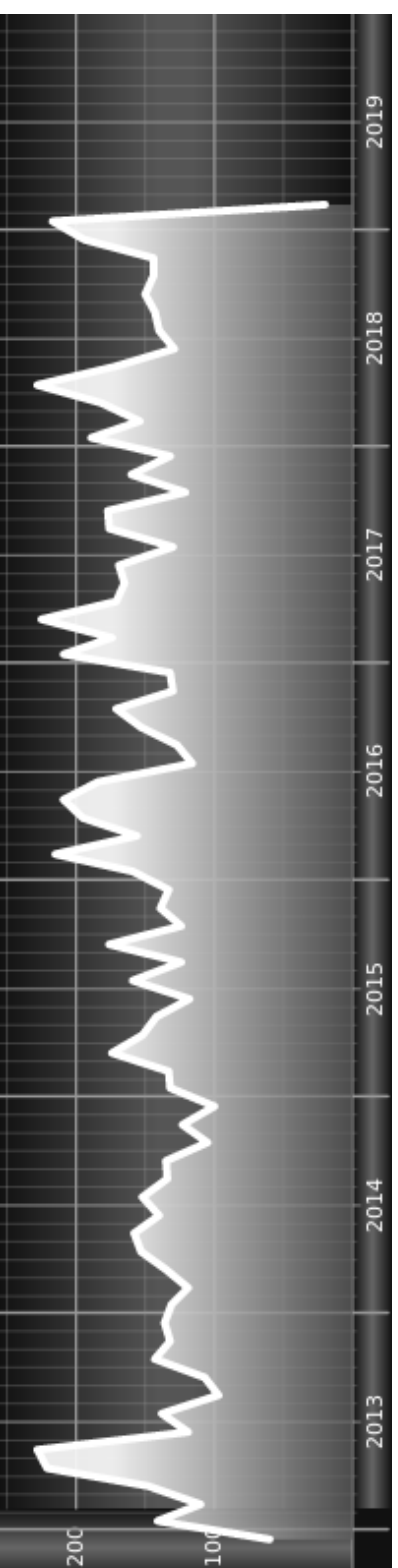


Figure 29: Caption and object in landscape mode. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense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

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

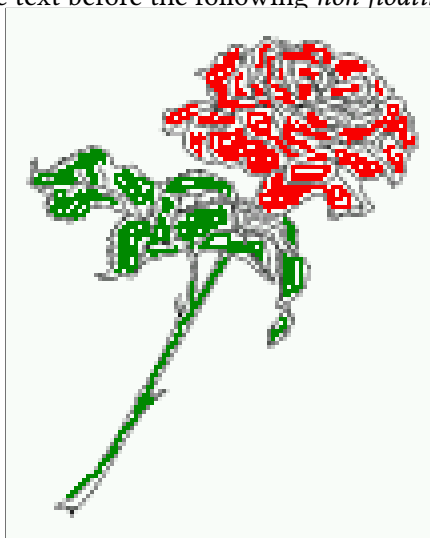


Figure 31: Caption of a “nonfloat” Object, using the nonfloat Package

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\@captive{figure}\caption}
\newcommand{\tabcaption}{\def\@captive{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\\
\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}{{Demonstration of the \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}{{Another demonstration of the \texttt{use0Box} Parameter}{table:2}}
```

In this case leave the third parameter empty.

Tab. 4

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.

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

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

The code for figure 15:

```
\hvFloat[%  
  onlyText=true,
```

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



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

Fig. 15

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 \\
\end{tabular}
```

17 Full page objects in onecolumn mode

```
L & C & R \\hline
\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 preceeding or following page. It is possible in oneside and twoside mode, but makes only real sense in the twoside mode. hvfloat defines three additional optional arguments for placing images in a complete column, page or paper:

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

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

17.1 Using the textarea

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

17.1.1 Using the default or capPos=before

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

```
\hvFloat[fullpage]{%
```

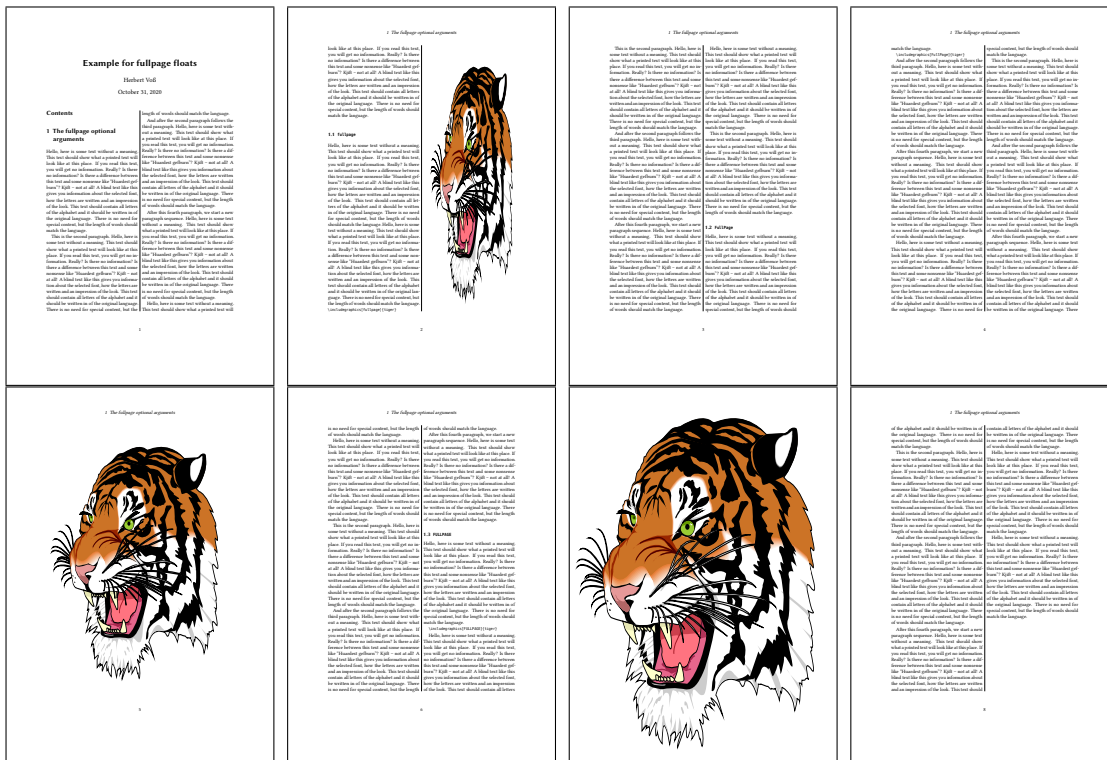


Figure 32: Output of fullpage1s2c (pages 1–8)

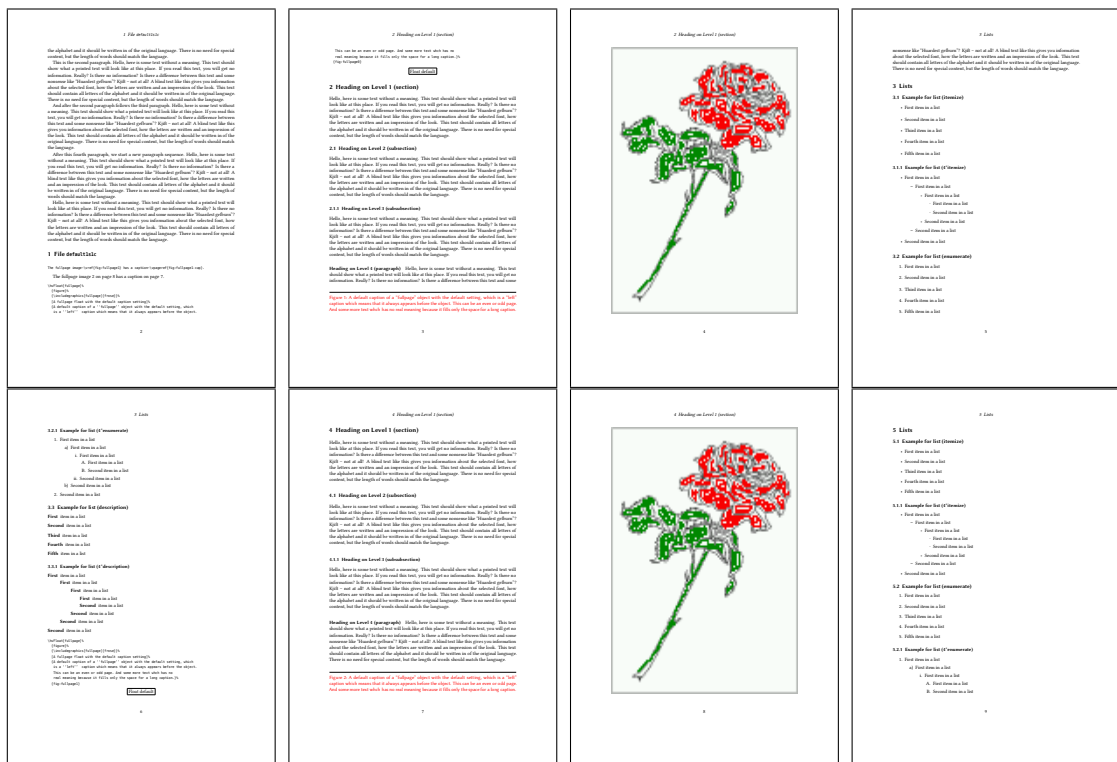
```
{figure}%
{\includegraphics[fullpage]{images/froese}}%
[A fullpage float with the default caption setting]%
{A default caption of a “fullpage” object with the default setting, which
is a “left” caption which means that it always appears “before” the object.
This can be an even or odd page. And some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

With this setting the caption is always placed *before* the following object. This maybe sufficient for a oneside document but not the best solution if this document is printed on a duplex machine. In such a case it may make sense to have the captions always on an even (left) page, even though the document is typeset in a oneside mode. Figure 33 on the following page shows the output for a oneside document with a setting capPos=before .

Depending on 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 next page shows the valid optional arguments for a full page floating object.

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

Name	Type	Description
fullpage	true false	Put the caption on the bottom of the preceding or following page and the object alone a page.
FULLPAGE	true false	The same for full papersize objects over one or two columns. The pagestyle is set to empty
multiFloat	true false	For multiple objects with captions for every object. See section 17.3 on page 39.
subFloat	true false	For multiple objects with one main and more subcaptions. See section 18 on page 41.
separatorLine	true	Put a line with a predefined width of 0.4pt between the text and the caption. Only valid for the keyword fullpage.
capPos	value	caption before, after an object or on an evenPage or oddPage.

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

17.1.2 Using capPos=after

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

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

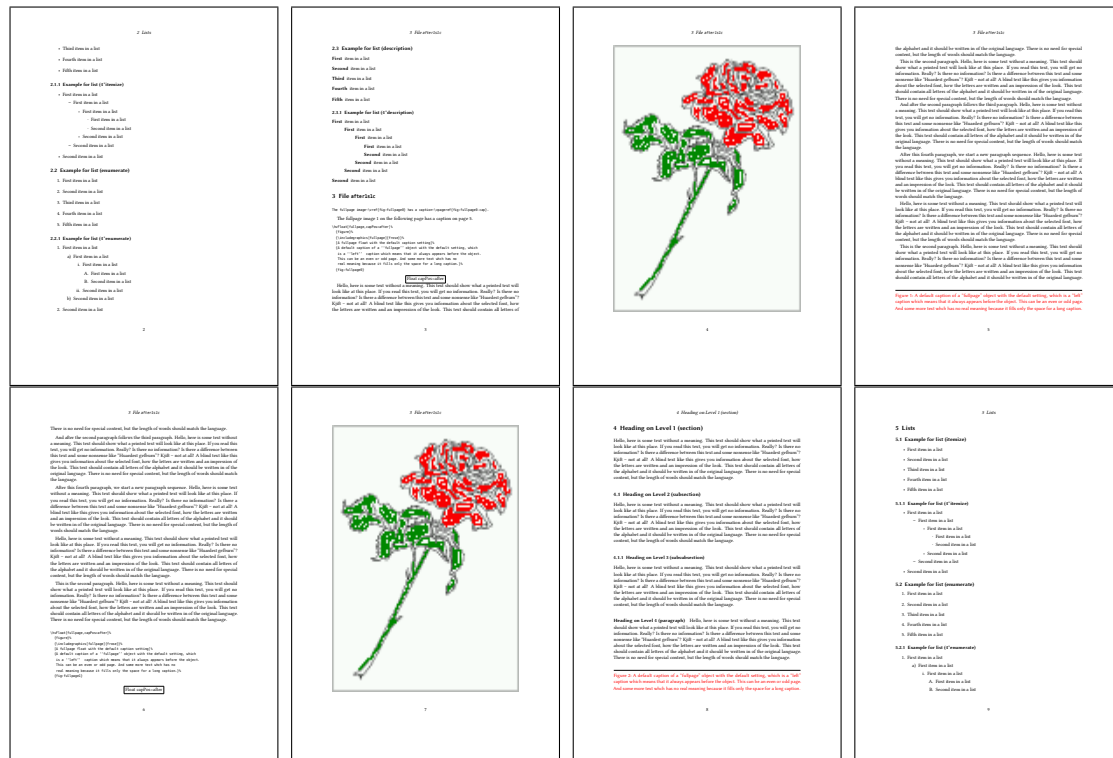


Figure 34: Output of after1s1c (pages 2–9)

17 Full page objects in onecolumn mode

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}
```

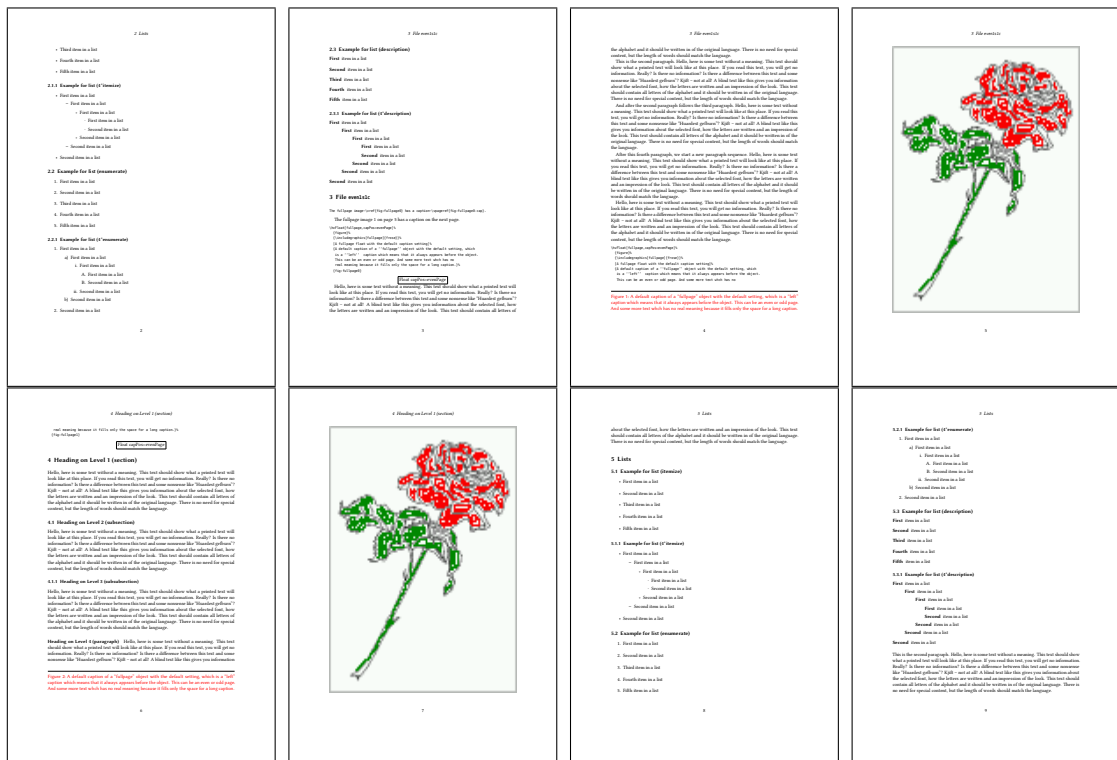


Figure 35: Output of even1s1c (pages 2–9)

17.1.4 Using capPos=oddPage — caption on an odd page

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

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

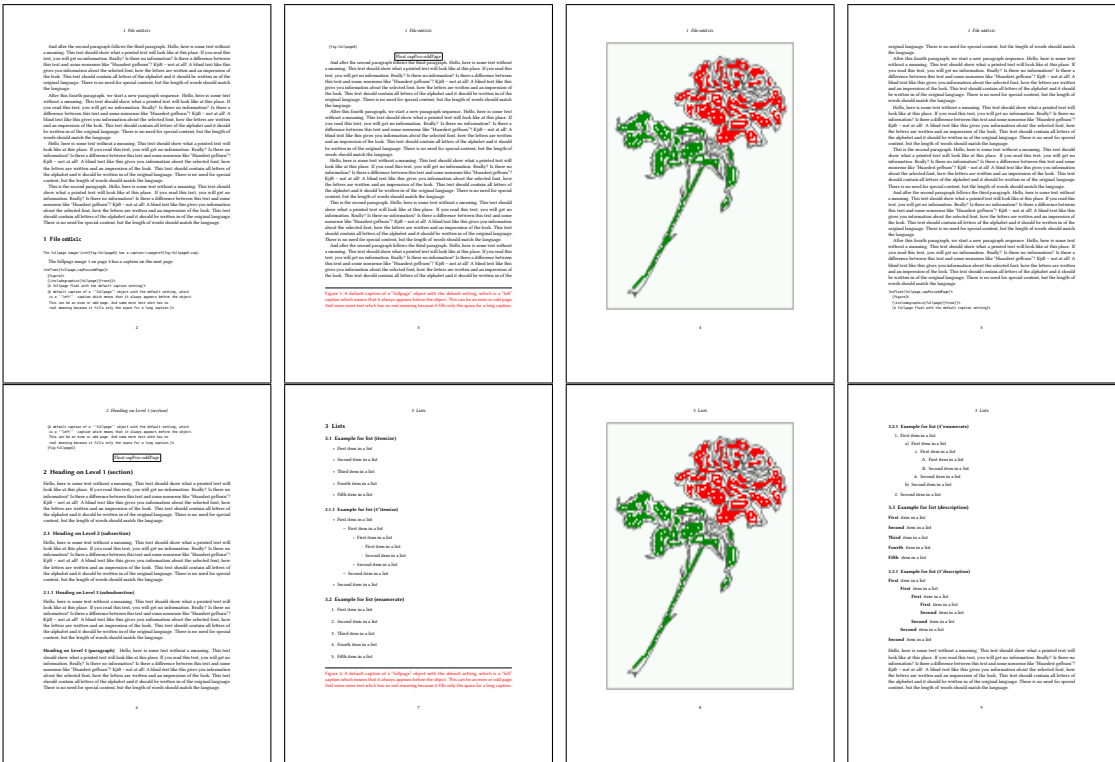


Figure 36: Output of odd1s1c (pages 2–9)

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

These settings make no sense in onecolumn mode.

17 Full page objects 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}
```

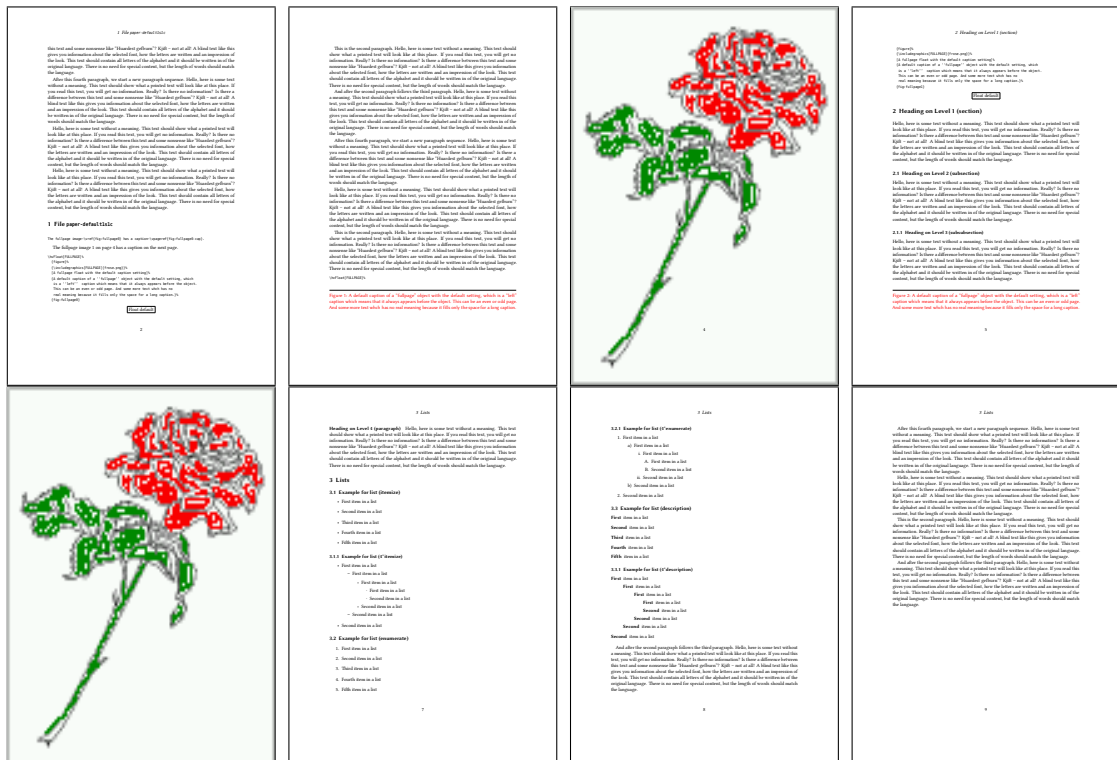


Figure 37: Output of paper-default1s1c (pages 2–9)

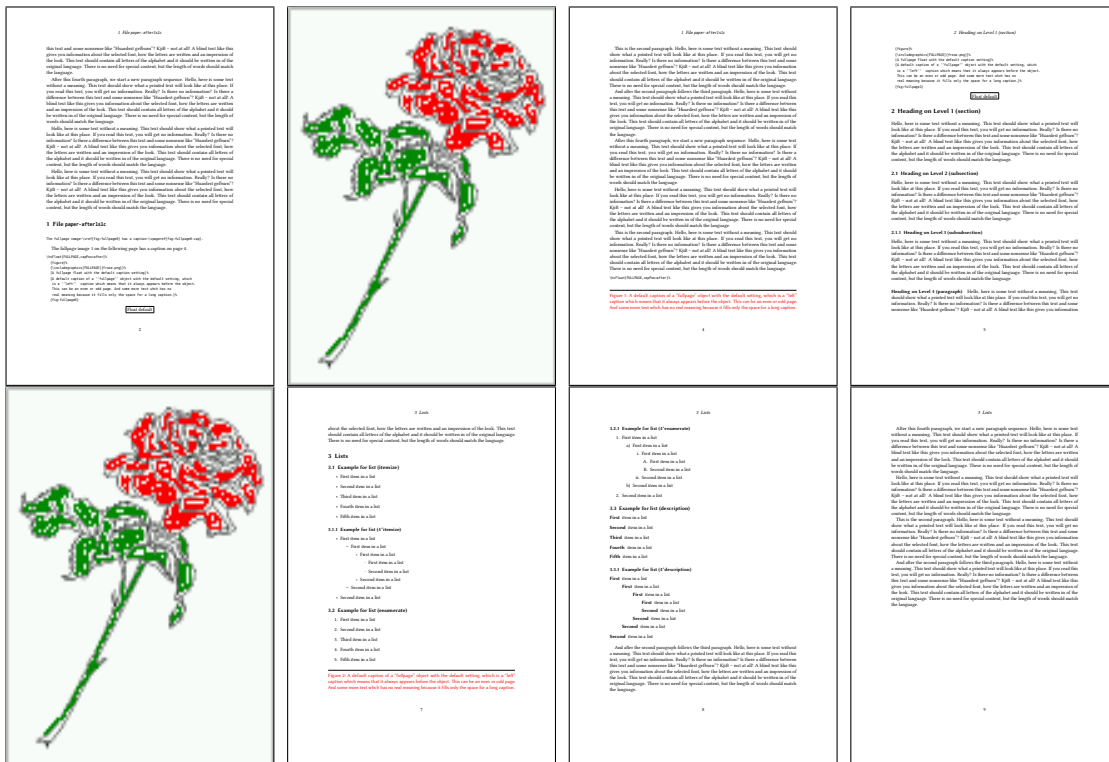


Figure 38: Output of paper-after1s1c (pages 2–9)

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

```
\hvfFloat [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}
\hvfFloat[fullpage,capPos=before,multiFloat]%
+{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
```

17 Full page objects in onecolumn mode

```

real meaning because it fills only the space for a long caption.}%
{img:demo0}%
+{table}{\begin{tabular}{\lrcrp{3cm}}\hline                                %              no 2
    Linksbündig & Rechtsbündig & Zentriert & Parbox\\\hline
    L            & R            & C            & P\\
    left         & right        & center       & Text with possible linebreaks\\
\multicolumn{4}{c}{Multicolumn over all columns}\\\hline
\end{tabular}}%
[Short Caption B]%
{A Caption B of a "fullpage" object, which follows on the left or
right column. This can be an even or odd page.}%
+{figure}{\includegraphics[width=\linewidth]{images/CTAN}}}%              no 3
{A Caption C of a "fullpage" object, which follows on the left or
right column.}%
{img:demo1}
+{figure}{\includegraphics[width=\linewidth]{images/CTAN}}}%              no 4
{A Caption C of a "fullpage" object, which follows on the left or
right column.}%
{img:demo2}

```

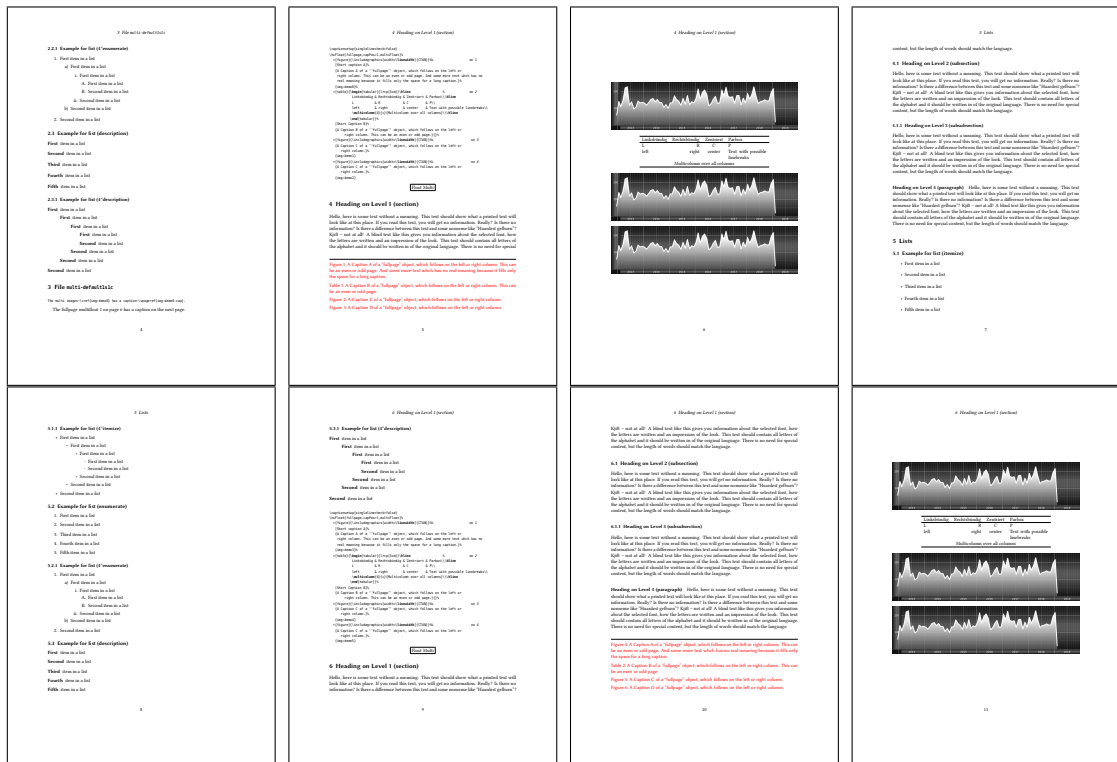


Figure 39: Output of multi-default1s1c (pages 4–11)

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

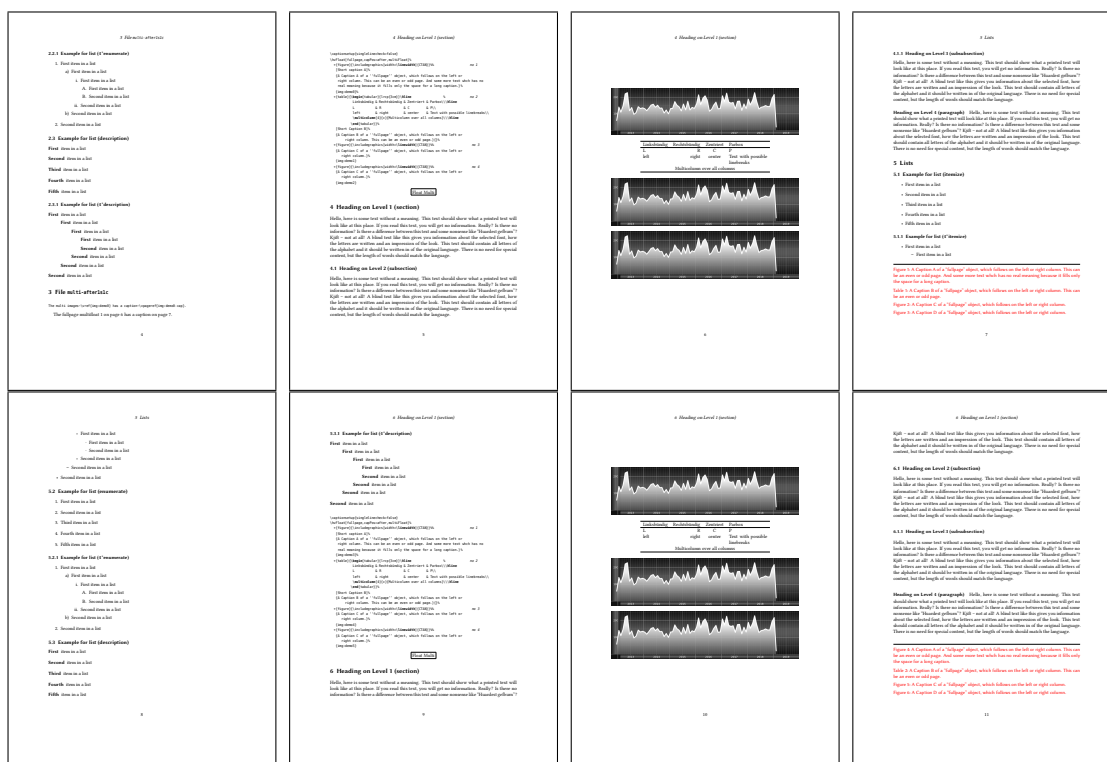


Figure 40: Output of multi-after1s1c (pages 4–11)

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]%
+{figure}{}[Short main caption of the objects]% main short lsi entry
{The main caption of a "fullpage" object, which follows on the left or
```

18 Subfloat page

```
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]`.

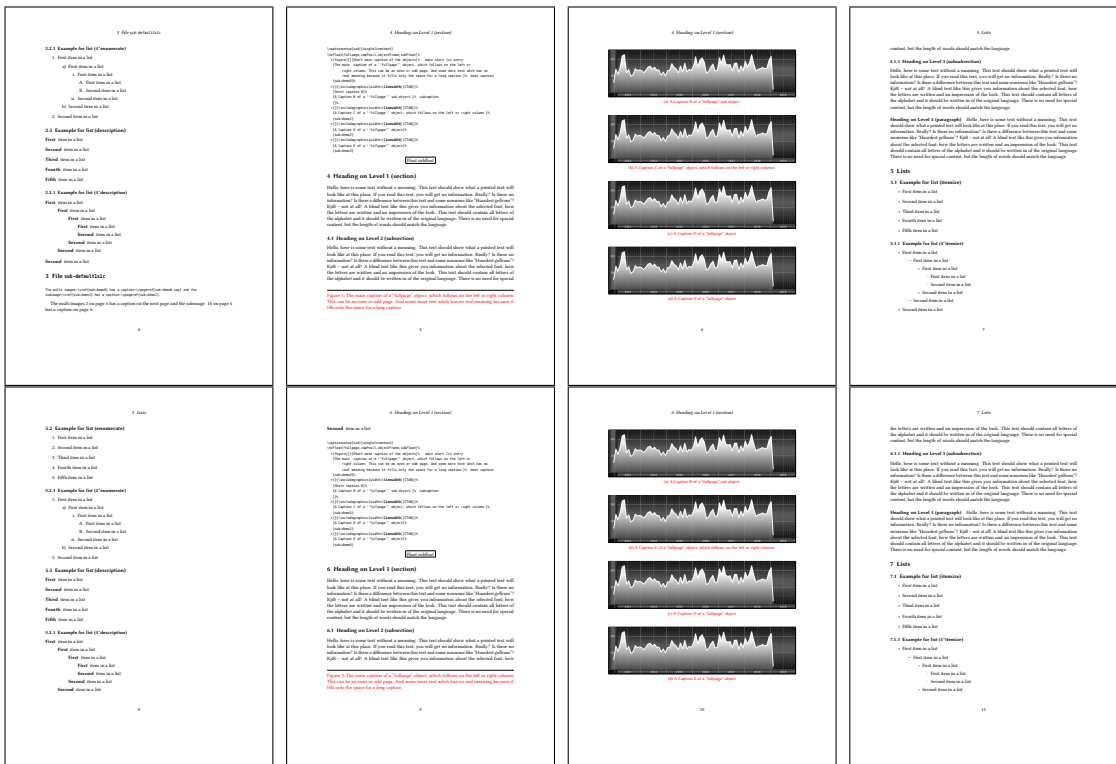


Figure 41: Output of sub-default1s1c (pages 4–11)

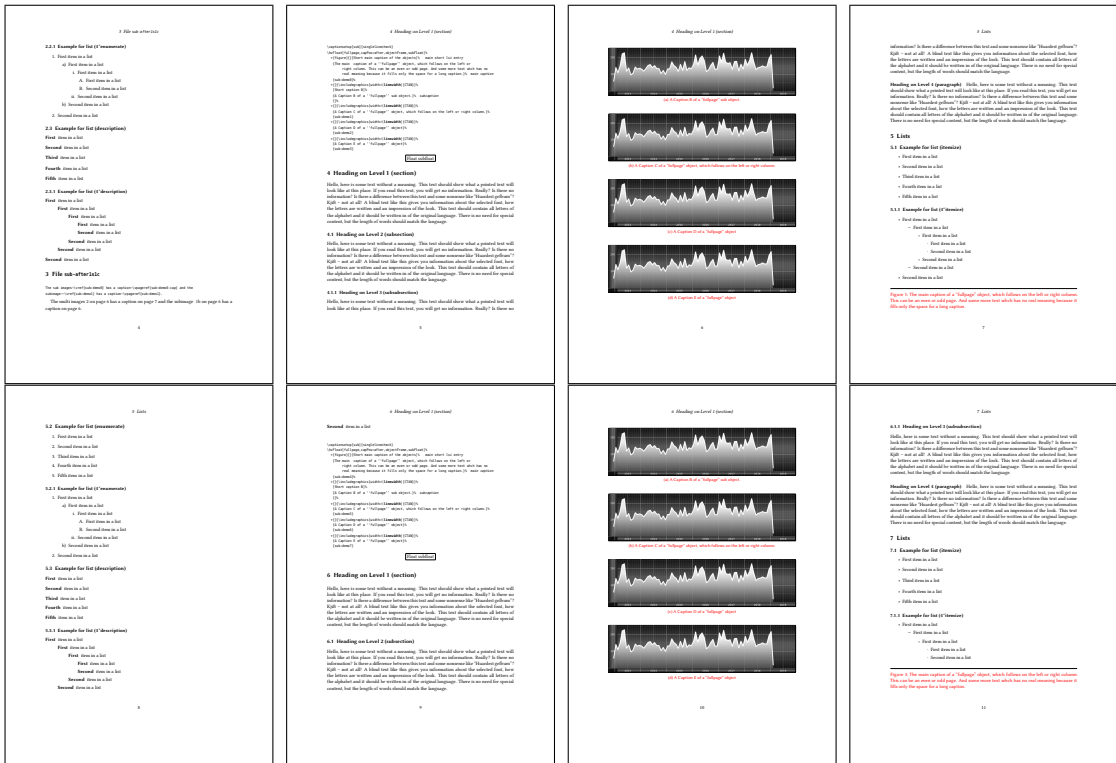


Figure 42: Output of sub-after1s1c (pages 4–11)

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).

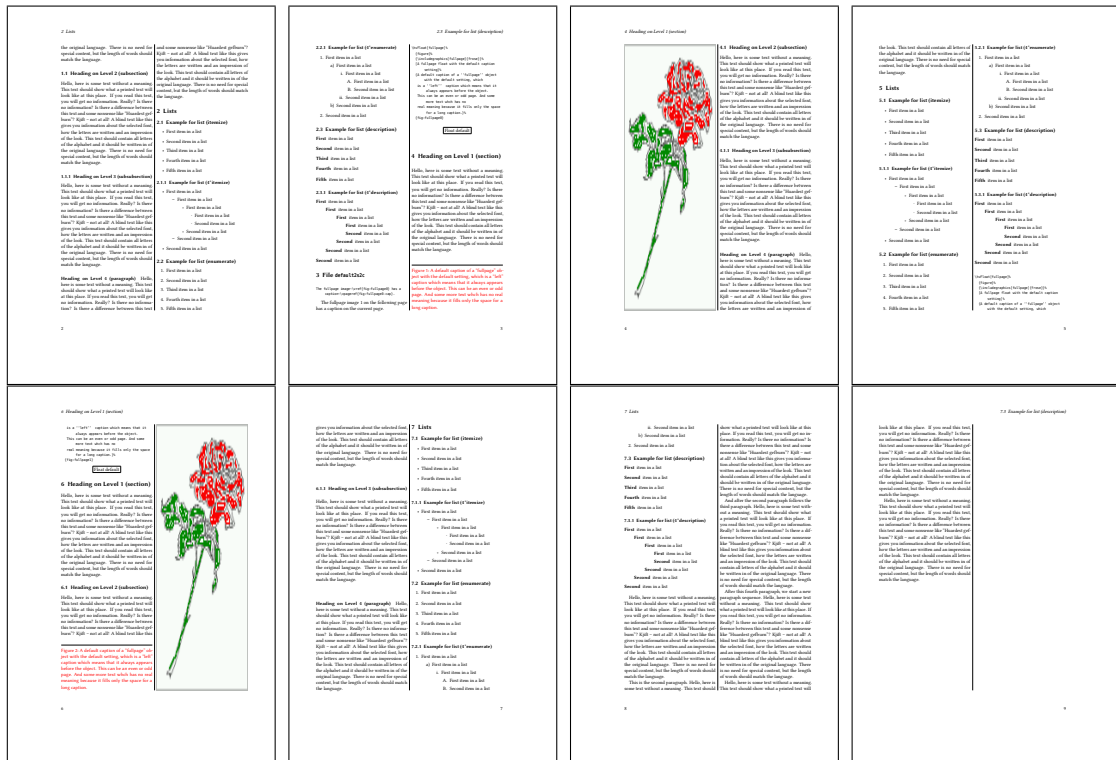


Figure 43: Output of default2s2c (pages 2–9)

```
\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 on the preceding page 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).

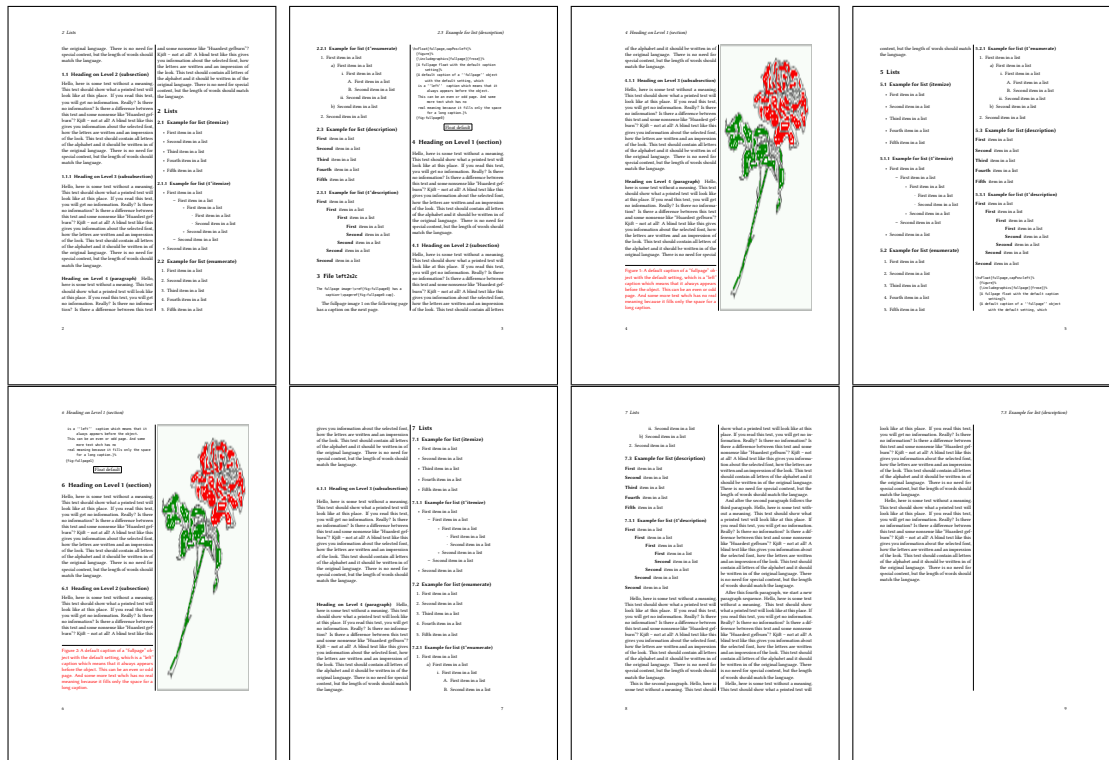


Figure 44: Output of left2s2c (pages 2–9)

19.1.1 Using `capPos=after`

The caption will be printed always right of the object which is the same as *after* the full page object. With `capPos=after` it is possible to get the caption in the twocolumn mode always in the right (second) column (see figure 46 on page 47)

```
\hvFloat[fullpage, capPos=after]{figure}%
{\includegraphics[fullpage]{images/rose}}%
[A float which needs the complete column width and height.]%
{A Caption of a “fullpage” object, which is on the left column.  
This is always the right column on an even or odd page. And some more
```

19 Full page objects in twocolumn mode

text which has no real meaning because it fills only the space for a long caption.%
{fig:fullpage1-2}

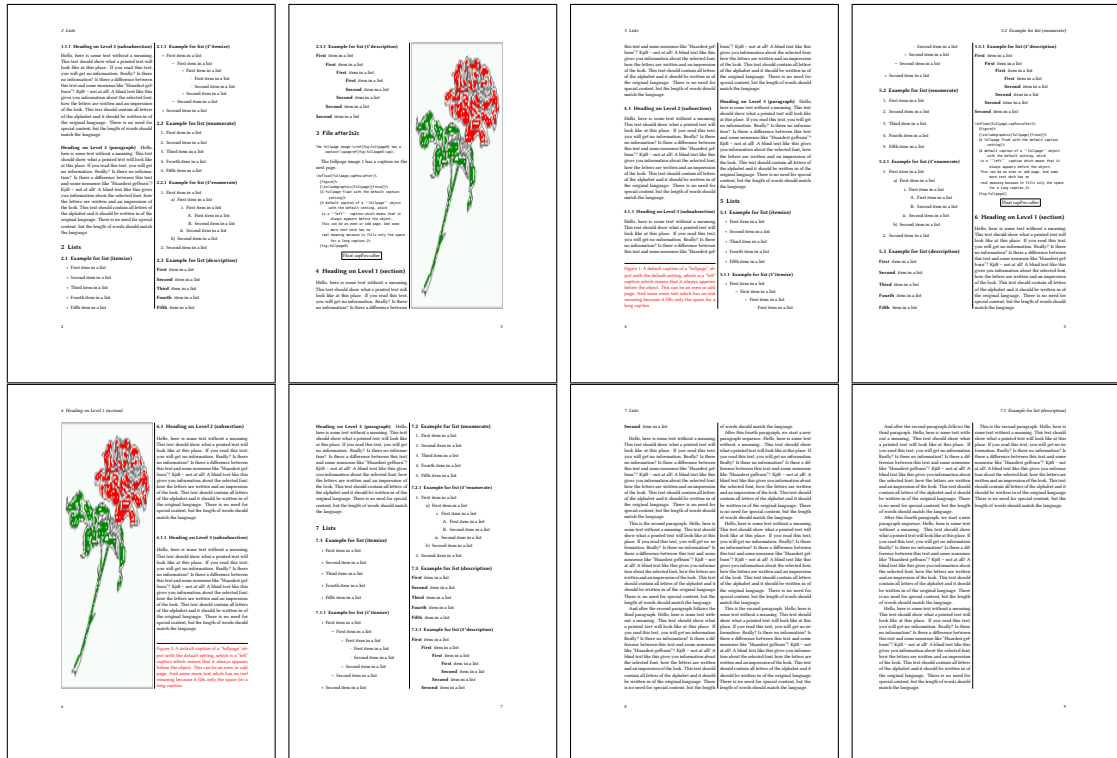


Figure 45: Output of after2s2c (pages 2-9)

The caption and the object can be on different pages (Figure 45). 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.

<p>1 List</p> <p>4.1 Handling one Level 1 (unintentional)</p> <p>Heidi, has a severe neck without a warning. This level should not be entered. The text should look like this after the fix:</p> <p>1. First item is a list</p> <p>2. Second item is a list</p> <p>3. Third item is a list</p> <p>4. Fourth item is a list</p> <p>5. Fifth item is a list</p> <p>6. Sixth item is a list</p> <p>7. Seventh item is a list</p> <p>8. Eighth item is a list</p> <p>9. Ninth item is a list</p> <p>10. Tenth item is a list</p> <p>11. Eleventh item is a list</p> <p>12. Twelfth item is a list</p> <p>13. Thirteenth item is a list</p> <p>14. Fourteenth item is a list</p> <p>15. Fifteenth item is a list</p> <p>16. Sixteenth item is a list</p> <p>17. Seventeenth item is a list</p> <p>18. Eighteenth item is a list</p> <p>19. Nineteenth item is a list</p> <p>20. Twentieth item is a list</p> <p>21. Twenty-first item is a list</p> <p>22. Twenty-second item is a list</p> <p>23. Twenty-third item is a list</p> <p>24. Twenty-fourth item is a list</p> <p>25. Twenty-fifth item is a list</p> <p>26. Twenty-sixth item is a list</p> <p>27. Twenty-seventh item is a list</p> <p>28. Twenty-eighth item is a list</p> <p>29. Twenty-ninth item is a list</p> <p>30. Thirtieth item is a list</p> <p>31. Thirty-first item is a list</p> <p>32. Thirty-second item is a list</p> <p>33. Thirty-third item is a list</p> <p>34. Thirty-fourth item is a list</p> <p>35. Thirty-fifth item is a list</p> <p>36. Thirty-sixth item is a list</p> <p>37. Thirty-seventh item is a list</p> <p>38. Thirty-eighth item is a list</p> <p>39. Thirty-ninth item is a list</p> <p>40. Fortieth item is a list</p> <p>41. Forty-first item is a list</p> <p>42. Forty-second item is a list</p> <p>43. Forty-third item is a list</p> <p>44. Forty-fourth item is a list</p> <p>45. Forty-fifth item is a list</p> <p>46. Forty-sixth item is a list</p> <p>47. Forty-seventh item is a list</p> <p>48. Forty-eighth item is a list</p> <p>49. Forty-ninth item is a list</p> <p>50. Fiftieth item is a list</p> <p>51. Fifty-first item is a list</p> <p>52. Fifty-second item is a list</p> <p>53. Fifty-third item is a list</p> <p>54. Fifty-fourth item is a list</p> <p>55. Fifty-fifth item is a list</p> <p>56. Fifty-sixth item is a list</p> <p>57. Fifty-seventh item is a list</p> <p>58. Fifty-eighth item is a list</p> <p>59. Fifty-ninth item is a list</p> <p>60. Sixtieth item is a list</p> <p>61. Sixty-first item is a list</p> <p>62. Sixty-second item is a list</p> <p>63. Sixty-third item is a list</p> <p>64. Sixty-fourth item is a list</p> <p>65. Sixty-fifth item is a list</p> <p>66. Sixty-sixth item is a list</p> <p>67. Sixty-seventh item is a list</p> <p>68. Sixty-eighth item is a list</p> <p>69. Sixty-ninth item is a list</p> <p>70. Seventieth item is a list</p> <p>71. Seventy-first item is a list</p> <p>72. Seventy-second item is a list</p> <p>73. Seventy-third item is a list</p> <p>74. Seventy-fourth item is a list</p> <p>75. Seventy-fifth item is a list</p> <p>76. Seventy-sixth item is a list</p> <p>77. Seventy-seventh item is a list</p> <p>78. Seventy-eighth item is a list</p> <p>79. Seventy-ninth item is a list</p> <p>80. Eightieth item is a list</p> <p>81. Eighty-first item is a list</p> <p>82. Eighty-second item is a list</p> <p>83. Eighty-third item is a list</p> <p>84. Eighty-fourth item is a list</p> <p>85. Eighty-fifth item is a list</p> <p>86. Eighty-sixth item is a list</p> <p>87. Eighty-seventh item is a list</p> <p>88. Eighty-eighth item is a list</p> <p>89. Eighty-ninth item is a list</p> <p>90. Ninetieth item is a list</p> <p>91. Ninety-first item is a list</p> <p>92. Ninety-second item is a list</p> <p>93. Ninety-third item is a list</p> <p>94. Ninety-fourth item is a list</p> <p>95. Ninety-fifth item is a list</p> <p>96. Ninety-sixth item is a list</p> <p>97. Ninety-seventh item is a list</p> <p>98. Ninety-eighth item is a list</p> <p>99. Ninety-ninth item is a list</p> <p>100. One hundred item is a list</p> <p>101. One hundred and one item is a list</p> <p>102. One hundred and two item is a list</p> <p>103. One hundred and three item is a list</p> <p>104. One hundred and four item is a list</p> <p>105. One hundred and five item is a list</p> <p>106. One hundred and six item is a list</p> <p>107. One hundred and seven item is a list</p> <p>108. One hundred and eight item is a list</p> <p>109. One hundred and nine item is a list</p> <p>110. One hundred and ten item is a list</p> <p>111. One hundred and eleven item is a list</p> <p>112. One hundred and twelve item is a list</p> <p>113. One hundred and thirteen item is a list</p> <p>114. One hundred and fourteen item is a list</p> <p>115. One hundred and fifteen item is a list</p> <p>116. One hundred and sixteen item is a list</p> <p>117. One hundred and seventeen item is a list</p> <p>118. One hundred and eighteen item is a list</p> <p>119. One hundred and nineteen item is a list</p> <p>120. One hundred and twenty item is a list</p> <p>121. One hundred and twenty-one item is a list</p> <p>122. One hundred and twenty-two item is a list</p> <p>123. One hundred and twenty-three item is a list</p> <p>124. One hundred and twenty-four item is a list</p> <p>125. One hundred and twenty-five item is a list</p> <p>126. One hundred and twenty-six item is a list</p> <p>127. One hundred and twenty-seven item is a list</p> <p>128. One hundred and twenty-eight item is a list</p> <p>129. One hundred and twenty-nine item is a list</p> <p>130. One hundred and thirty item is a list</p> <p>131. One hundred and thirty-one item is a list</p> <p>132. One hundred and thirty-two item is a list</p> <p>133. One hundred and thirty-three item is a list</p> <p>134. One hundred and thirty-four item is a list</p> <p>135. One hundred and thirty-five item is a list</p> <p>136. One hundred and thirty-six item is a list</p> <p>137. One hundred and thirty-seven item is a list</p> <p>138. One hundred and thirty-eight item is a list</p> <p>139. One hundred and thirty-nine item is a list</p> <p>140. One hundred and forty item is a list</p> <p>141. One hundred and forty-one item is a list</p> <p>142. One hundred and forty-two item is a list</p> <p>143. One hundred and forty-three item is a list</p> <p>144. One hundred and forty-four item is a list</p> <p>145. One hundred and forty-five item is a list</p> <p>146. One hundred and forty-six item is a list</p> <p>147. One hundred and forty-seven item is a list</p> <p>148. One hundred and forty-eight item is a list</p> <p>149. One hundred and forty-nine item is a list</p> <p>150. One hundred and fifty item is a list</p> <p>151. One hundred and fifty-one item is a list</p> <p>152. One hundred and fifty-two item is a list</p> <p>153. One hundred and fifty-three item is a list</p> <p>154. One hundred and fifty-four item is a list</p> <p>155. One hundred and fifty-five item is a list</p> <p>156. One hundred and fifty-six item is a list</p> <p>157. One hundred and fifty-seven item is a list</p> <p>158. One hundred and fifty-eight item is a list</p> <p>159. One hundred and fifty-nine item is a list</p> <p>160. One hundred and sixty item is a list</p> <p>161. One hundred and sixty-one item is a list</p> <p>162. One hundred and sixty-two item is a list</p> <p>163. One hundred and sixty-three item is a list</p> <p>164. One hundred and sixty-four item is a list</p> <p>165. One hundred and sixty-five item is a list</p> <p>166. One hundred and sixty-six item is a list</p> <p>167. One hundred and sixty-seven item is a list</p> <p>168. One hundred and sixty-eight item is a list</p> <p>169. One hundred and sixty-nine item is a list</p> <p>170. One hundred and seventy item is a list</p> <p>171. One hundred and seventy-one item is a list</p> <p>172. One hundred and seventy-two item is a list</p> <p>173. One hundred and seventy-three item is a list</p> <p>174. One hundred and seventy-four item is a list</p> <p>175. One hundred and seventy-five item is a list</p> <p>176. One hundred and seventy-six item is a list</p> <p>177. One hundred and seventy-seven item is a list</p> <p>178. One hundred and seventy-eight item is a list</p> <p>179. One hundred and seventy-nine item is a list</p> <p>180. One hundred and eighty item is a list</p> <p>181. One hundred and eighty-one item is a list</p> <p>182. One hundred and eighty-two item is a list</p> <p>183. One hundred and eighty-three item is a list</p> <p>184. One hundred and eighty-four item is a list</p> <p>185. One hundred and eighty-five item is a list</p> <p>186. One hundred and eighty-six item is a list</p> <p>187. One hundred and eighty-seven item is a list</p> <p>188. One hundred and eighty-eight item is a list</p> <p>189. One hundred and eighty-nine item is a list</p> <p>190. One hundred and ninety item is a list</p> <p>191. One hundred and ninety-one item is a list</p> <p>192. One hundred and ninety-two item is a list</p> <p>193. One hundred and ninety-three item is a list</p> <p>194. One hundred and ninety-four item is a list</p> <p>195. One hundred and ninety-five item is a list</p> <p>196. One hundred and ninety-six item is a list</p> <p>197. One hundred and ninety-seven item is a list</p> <p>198. One hundred and ninety-eight item is a list</p> <p>199. One hundred and ninety-nine item is a list</p> <p>200. Two hundred item is a list</p> <p>201. Two hundred and one item is a list</p> <p>202. Two hundred and two item is a list</p> <p>203. Two hundred and three item is a list</p> <p>204. Two hundred and four item is a list</p> <p>205. Two hundred and five item is a list</p> <p>206. Two hundred and six item is a list</p> <p>207. Two hundred and seven item is a list</p> <p>208. Two hundred and eight item is a list</p> <p>209. Two hundred and nine item is a list</p> <p>210. Two hundred and ten item is a list</p> <p>211. Two hundred and eleven item is a list</p> <p>212. Two hundred and twelve item is a list</p> <p>213. Two hundred and thirteen item is a list</p> <p>214. Two hundred and fourteen item is a list</p> <p>215. Two hundred and fifteen item is a list</p> <p>216. Two hundred and sixteen item is a list</p> <p>217. Two hundred and seventeen item is a list</p> <p>218. Two hundred and eighteen item is a list</p> <p>219. Two hundred and nineteen item is a list</p> <p>220. Two hundred and twenty item is a list</p> <p>221. Two hundred and twenty-one item is a list</p> <p>222. Two hundred and twenty-two item is a list</p> <p>223. Two hundred and twenty-three item is a list</p> <p>224. Two hundred and twenty-four item is a list</p> <p>225. Two hundred and twenty-five item is a list</p> <p>226. Two hundred and twenty-six item is a list</p> <p>227. Two hundred and twenty-seven item is a list</p> <p>228. Two hundred and twenty-eight item is a list</p> <p>229. Two hundred and twenty-nine item is a list</p> <p>230</p>

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

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

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

19.1.3 Using capPos=oddPage — caption on an odd page

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

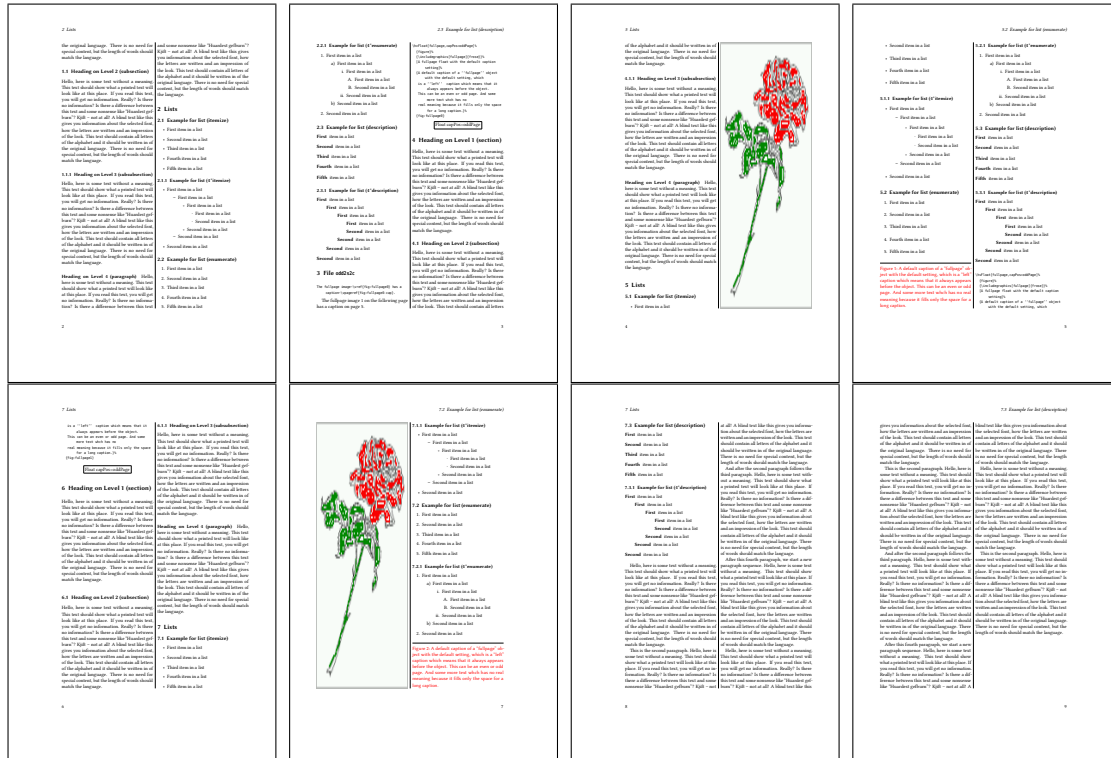


Figure 48: Output of odd2s2c (pages 2–9)

19 Full page objects in twocolumn mode

19.1.4 Using capPos=inner — caption in the inner column

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

```
\hvflo{[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}
```

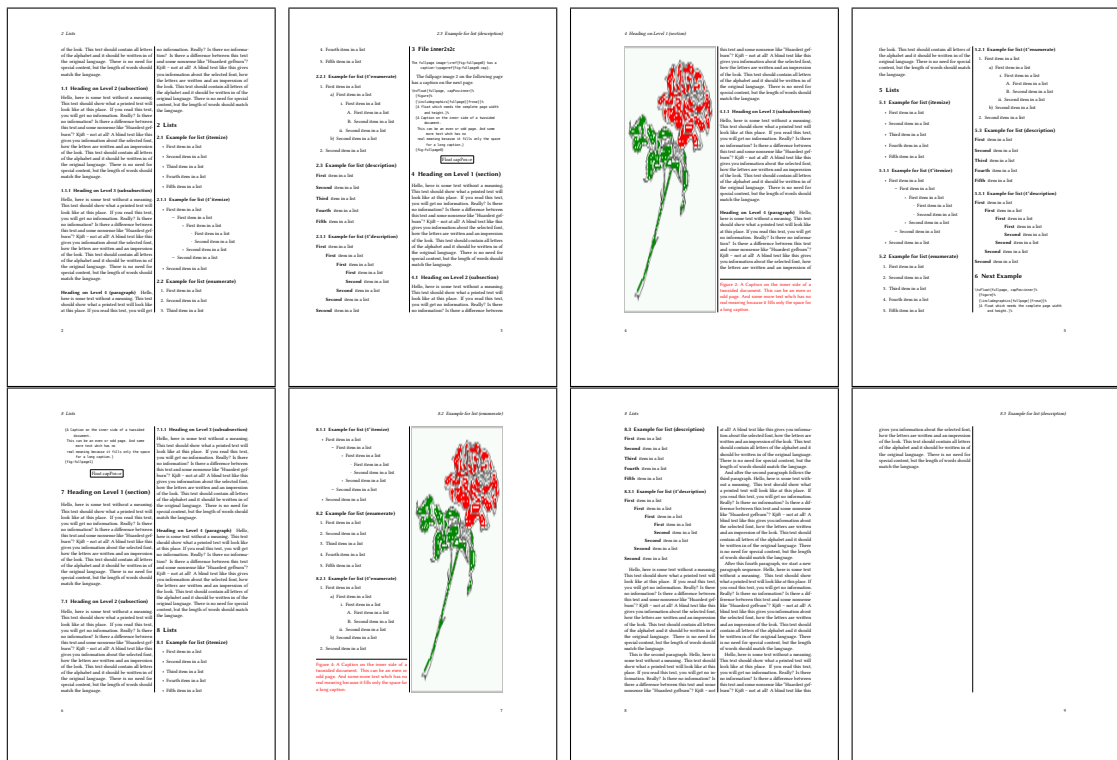


Figure 49: Output of inner2s2c (pages 2–9)

19.1.5 Using capPos=outer — caption on the outer column

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

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

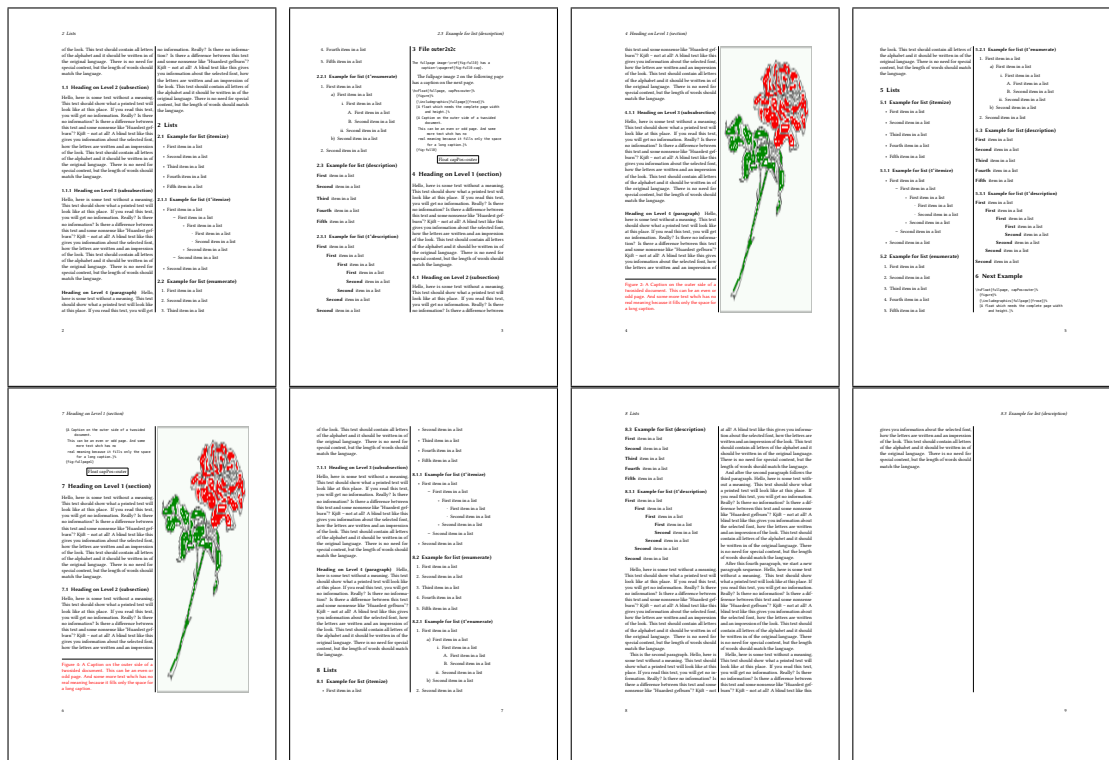


Figure 50: Output of outer2s2c (pages 2–9)

19 Full page objects in twocolumn mode

19.2 Using full page in twocolumn mode

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

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

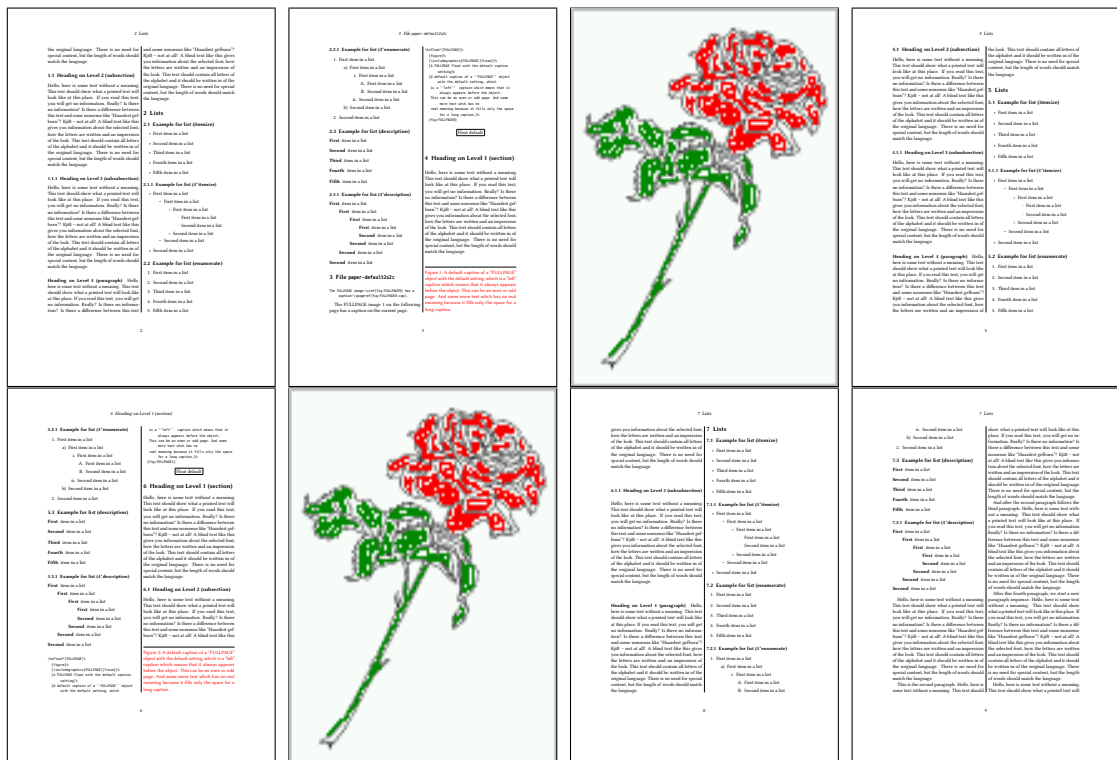


Figure 51: Output of paper-default2s2c (pages 2–9)

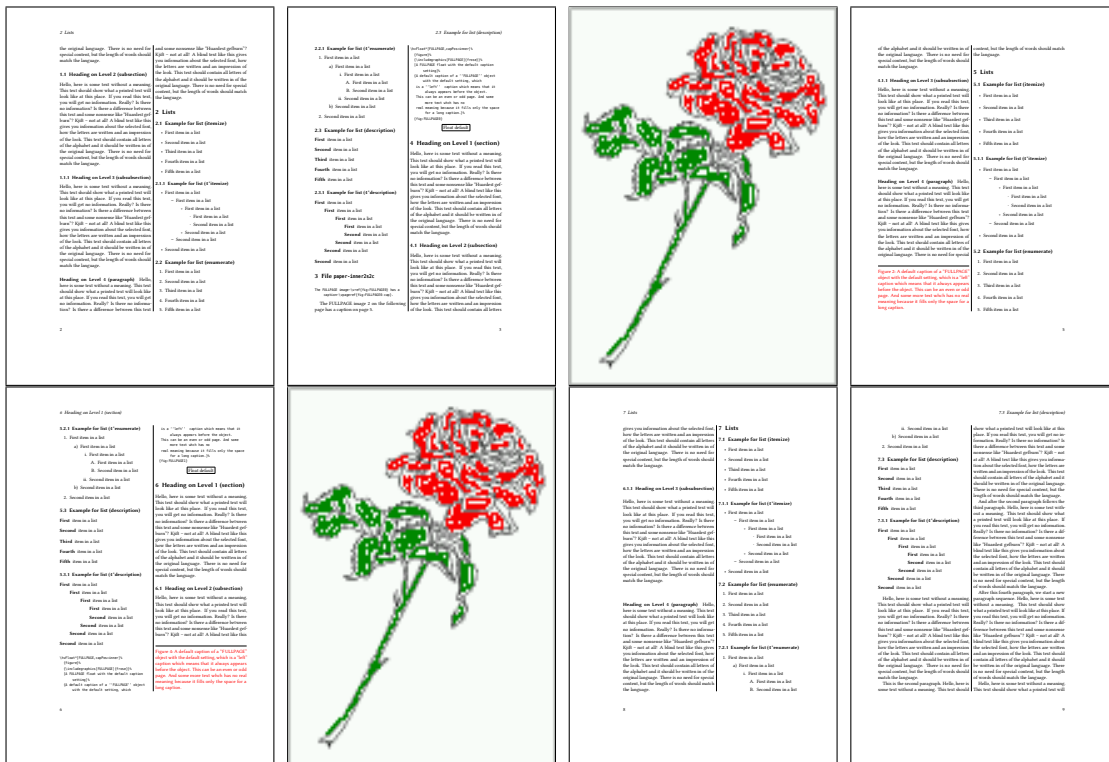


Figure 52: Output of paper-inner2s2c (pages 2–9)

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]%
+{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:demo}%
+{table}{\begin{tabular}{lr}\hline
Linksbündig & Rechtsbündig\\
L & R & \\
left & right & \\
\multicolumn{2}{c}{Multicolumn}\hline
\end{tabular}}
```

20 Subfloat page

```
\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 41. The setting `\captionsetup{singlelinecheck=false}` is needed if you want the captions always left aligned.

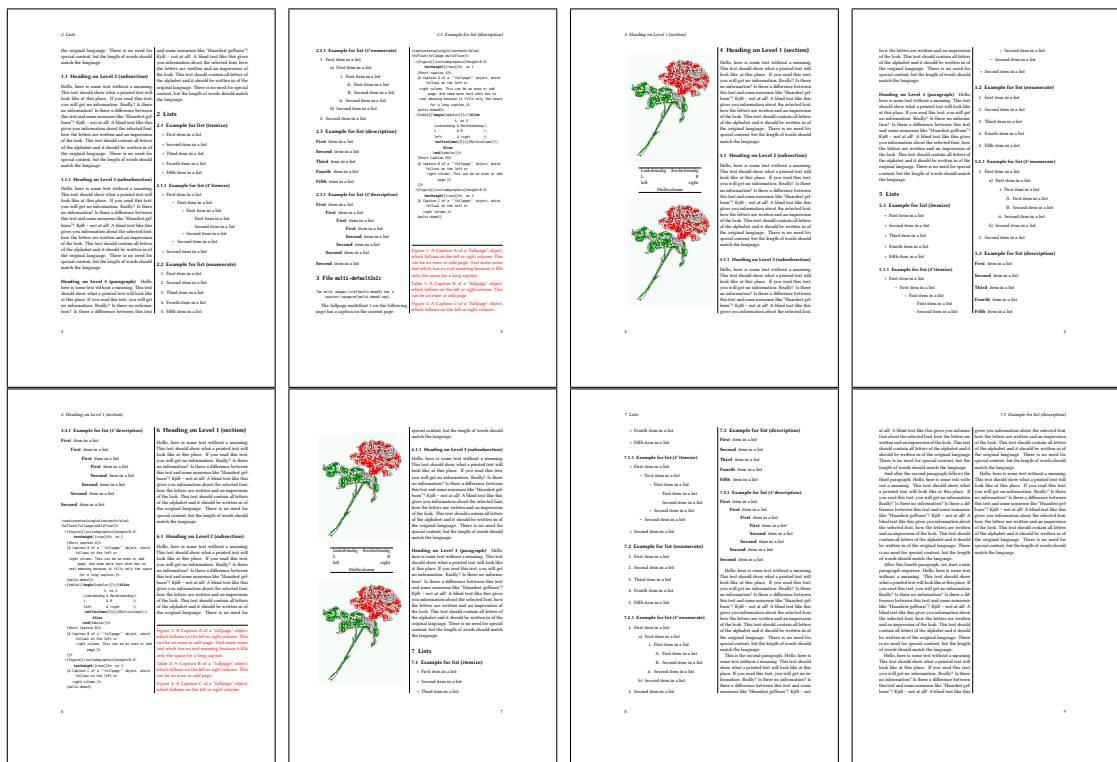


Figure 53: Output of multi-default2s2c (pages 2-9)

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.

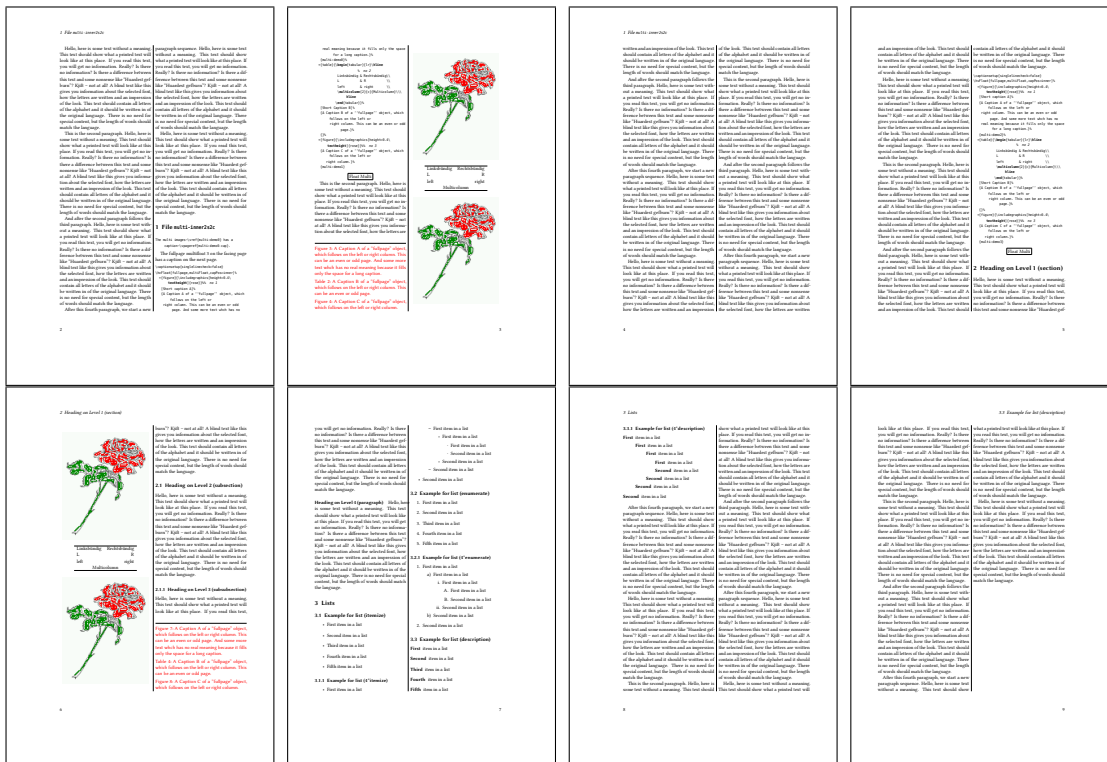


Figure 54: Output of multi-inner2s2c (pages 2-9)

```
\captionsetup[sub]{singlelinecheck}
\hvFloat[fullpage,capPos=before,objectFrame,subFloat]%
+{{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).

20 Subfloat page

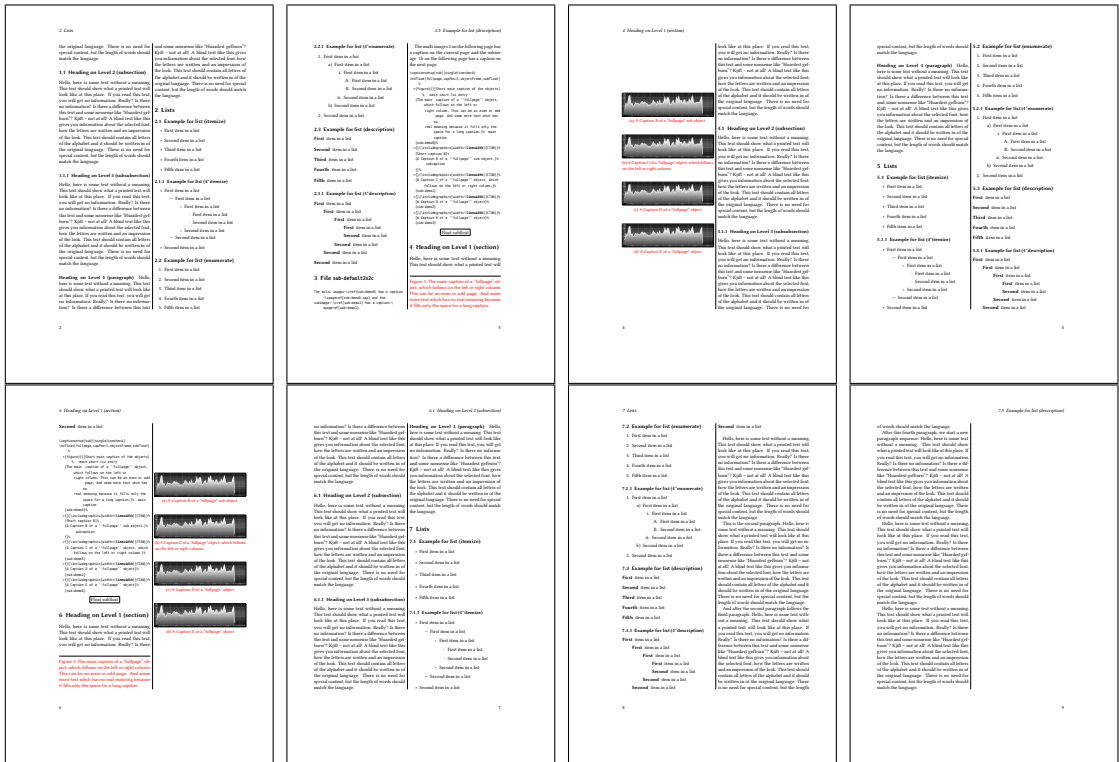


Figure 55: Output of sub-default2s2c (pages 2-9)

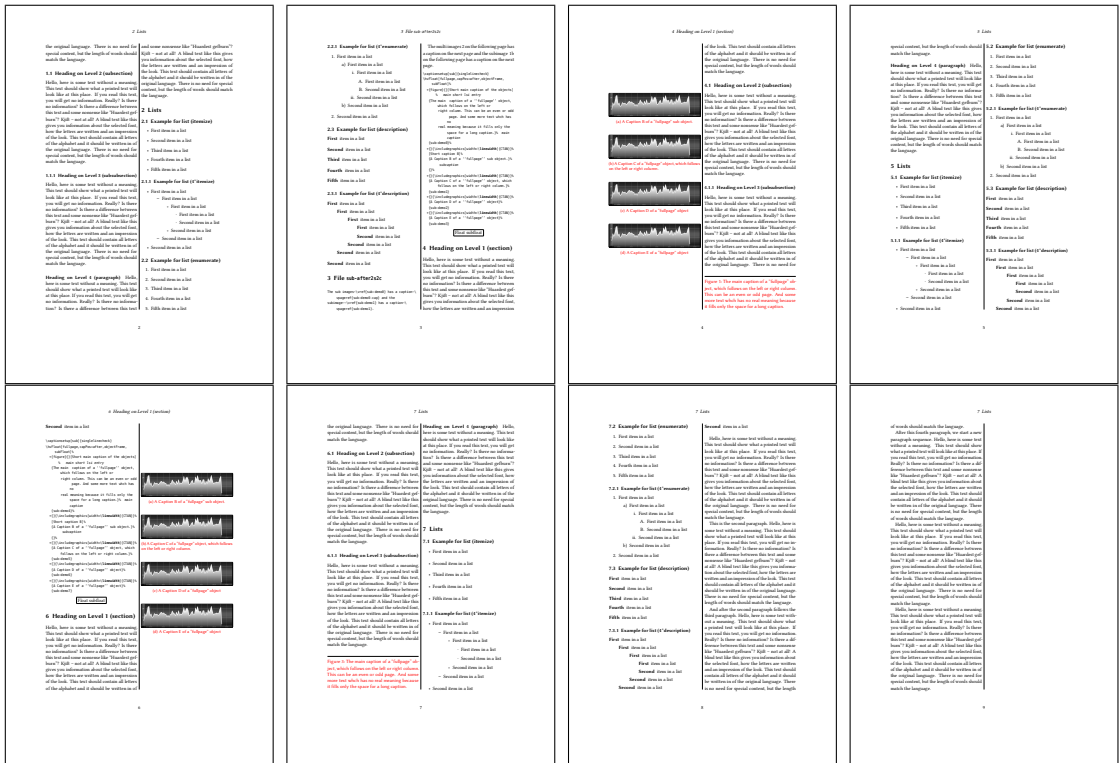


Figure 56: Output of sub-after2s2c (pages 2-9)

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. There 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 leave 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 pagenummer 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.

`\Blindtext`

```
\hvFloat[doubleFULLPAGE,capPos=r,capAngle=90]%
{figure}%
{\includegraphics[angle=90,width=2\paperwidth]{images/r+j}}%
[Eine doppelseitige Abbildung mit Caption auf der Abbildung]%
{Eine Beschriftung einer doppelseitigen Abbildung, die ÜBER den rechten
Teil der Abbildung platziert wird. Die Abbildung beginnt am linken
Papierrand. Auf den Seiten wird kein weiterer Text
platziert. Für das LOF wird dabei eine Kurzform berücksichtigt. Parameter
ist \texttt{doubleFULLPAGE}}%
{fig:doubleFULLPAGE0}
```

`\Blindtext`

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.

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Fig. 57

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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

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Figure 57: Eine Beschriftung einer doppelseitigen Abbildung, die ÜBER den rechten Teil der Abbildung platziert wird. Die Abbildung beginnt am linken Paperrand. Auf den Seiten wird kein weiterer Text platziert. Für das LOF wird dabei eine Kurzform berücksichtigt. Parameter ist doubleFULLPAGE

21 Doublepage objects – images and/or tabulars

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.

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`\Blindtext`

```
\hvFloat[doubleFULLPAGE,capPos=r]%
{figure}%
{\includegraphics[height=\paperheight]{images/rheinsberg}}%
{Eine Beschriftung einer doppelseitigen Abbildung, die ÜBER den rechten
Teil der Abbildung platziert wird. Die Abbildung beginnt am linken
Papierrand. Auf den Seiten wird kein weiterer Text
platziert. Für das LOF wird dabei eine Kurzform berücksichtigt. Parameter
ist \texttt{doubleFULLPAGE}}%
{fig:doubleFULLPAGE1}
```

`\Blindtext \Blindtext`

Fig. 58 After this fourth paragraph, we start a new paragraph sequence. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

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Figure 58: Eine Beschriftung einer doppelseitigen Abbildung, die ÜBER den rechten Teil der Abbildung platziert wird. Die Abbildung beginnt am linken Papierrand. Auf den Seiten wird kein weiterer Text platziert. Für das LOF wird dabei eine Kurzform berücksichtigt. Parameter ist doubleFULLPAGE

21 Doublepage objects – images and/or tabulars

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.

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21.2 doublePAGE

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

`\Blindtext`

```
\hvFloat[doublePAGE]%
{figure}%
{\includegraphics[width=2\paperwidth]{images/seiser}}%
[Eine doppelseitige Abbildung mit Caption unterhalb der rechten Abbildung]%
{Eine Beschriftung einer doppelseitigen Abbildung, die unterhalb der rechten
Teils der Abbildung platziert wird. Die Abbildung beginnt am linken
Papierrand. Auf den Seiten wird kein weiterer Text
platziert. Für das LOF wird dabei eine Kurzform berücksichtigt. Parameter
ist \texttt{doublePAGE}}}%
{fig:doublePAGE0}
```

`\Blindtext`

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

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

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

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

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Figure 59: Eine Beschriftung einer doppelseitigen Abbildung, die unterhalb der rechten Teils der Abbildung platziert wird. Die Abbildung beginnt am linken Papierrand. Auf den Seiten wird kein weiterer Text platziert. Für das LOF wird dabei eine Kurzform berücksichtigt. Parameter ist doublePAGE

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.

`\Blindtext`

```
\hvFloat[doublePage,capWidth=n,capPos=r]%  
  {figure}%  
  {\includegraphics[width=2\textwidth]{images/sonne-meer}}%  
  [Eine doppelseitige Abbildung mit rechtsseitiger Caption unterhalb]%  
  {Eine Beschriftung einer doppelseitigen Abbildung, die unterhalb des rechten  
    Teils der Abbildung platziert wird. Die Abbildung beginnt am linken  
    Textrand. Auf den Seiten wird ansonsten weiterer Text  
    platziert. Für das LOF wird dabei eine Kurzform berücksichtigt. Parameter  
    ist \texttt{doublePage}}%  
  {fig:doublePage0}
```

`\Blindtext`

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

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After this fourth paragraph, we start a new paragraph sequence. Hello, here is some text

Fig. 60



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21.4 Tabulars

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

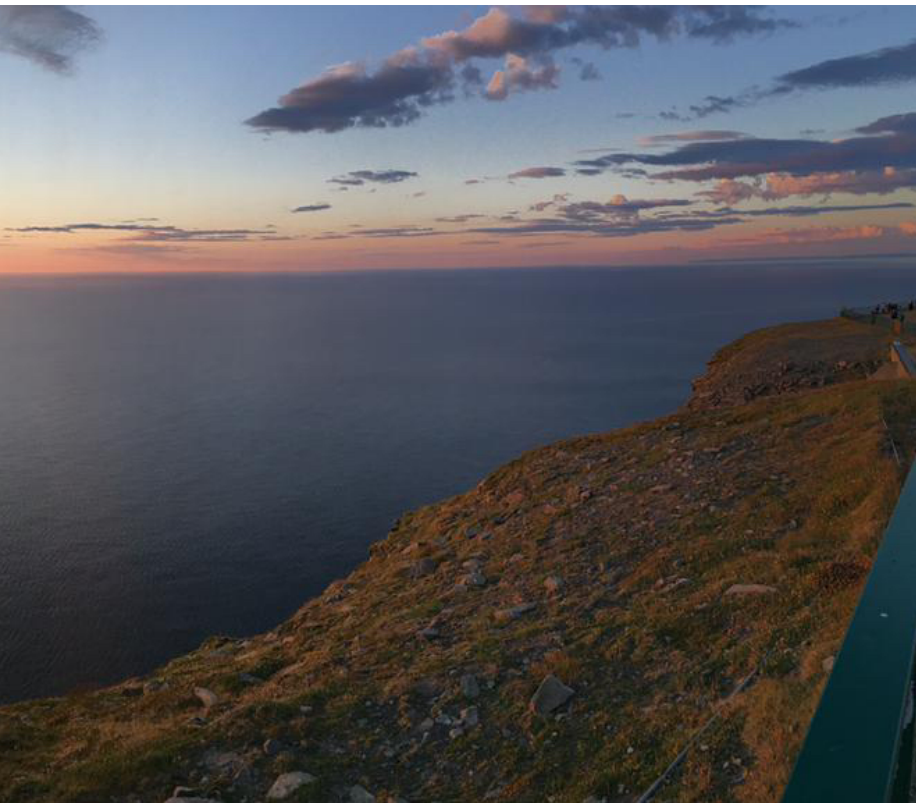


Figure 60: Eine Beschriftung einer doppelseitigen Abbildung, die unterhalb des rechten Teils der Abbildung platziert wird. Die Abbildung beginnt am linken Textrand. Auf den Seiten wird ansonsten weiterer Text platziert. Für das LOF wird dabei eine Kurzform berücksichtigt. Parameter ist doublePage

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 \\
Zeile 2 & 1 & 1 & 3 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 1 & 3 & 4 & 4 & 6 & 4 & 2 \\
Zeile 3 & 2 & 1 & 2 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 5 & 3 & 1 & 7 & 7 & 3 \\
Zeile 4 & 1 & 0 & 5 & 1 & 2 & 0 & 0 & 0 & 0 & 2 & 1 & 0 & 1 & 0 & 3 & 7 & 2 & 1 \\
Zeile 6 & 2 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 2 & 0 & 5 & 2 & 2 & 5 & 4 & 2 \\
Zeile 5 & 0 & 0 & 4 & 2 & 1 & 2 & 2 & 1 & 0 & 0 & 0 & 1 & 1 & 0 & 2 & 5 & 4 & 3 \\
Zeile 8 & 0 & 1 & 1 & 0 & 0 & 0 & 1 & 1 & 0 & 3 & 2 & 1 & 2 & 1 & 3 & 5 & 3 & 4 \\
Zeile 9 & 0 & 0 & 0 & 0 & 0 & 1 & 2 & 1 & 0 & 0 & 0 & 0 & 4 & 2 & 1 & 4 & 5 & 2 \\
Zeile10 & 0 & 1 & 3 & 0 & 1 & 0 & 1 & 0 & 0 & 1 & 1 & 0 & 1 & 1 & 1 & 4 & 4 & 1 \\
Zeile11 & 0 & 2 & 2 & 1 & 1 & 0 & 1 & 0 & 0 & 0 & 0 & 2 & 6 & 1 & 0 & 2 & 1 & 1 \\
Zeile12 & 2 & 0 & 2 & 4 & 1 & 0 & 4 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 3 \\
Lärm & 2 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 2 & 0 & 0 & 2 & 2 & 2 \\
Zeile13 & 0 & 1 & 0 & 0 & 1 & 0 & 3 & 0 & 0 & 0 & 0 & 2 & 0 & 1 & 3 & 0 & 2 \\
Zeile14 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 3 & 2 & 1 & 1 & 0 \\
Zeile15 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 4 & 0 & 0 & 3 & 1 & 1 \\
\addlinespace[3pt]
```

21 Doublepage objects – images and/or tabulars

```
Zeile16 & 0 & 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}}
```

```
\hvFloat[doublePage,capWidth=n,capPos=r]%
{table}%
{\usebox\hv0Box}%%%%%%%%%%
[Eine doppelseitige Tabelle mit rechtsseitiger Caption unterhalb]%
[Eine Beschriftung einer doppelseitigen Tabelle, die unterhalb des rechten
Teils der Abbildung platziert wird. Die Tabelle beginnt am linken
Textrand. Auf den Seiten wird ansonsten weiterer Text
platziert. Für das LOT wird dabei eine Kurzform berücksichtigt. Parameter
ist \texttt{doublePage}}%
{tab:doublePage3}
```

\Blindtext

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

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Tab. 9

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

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

Table 9: Eine Beschriftung einer doppelseitigen Tabelle, die unterhalb des rechten Teils der Abbildung platziert wird. Die Tabelle beginnt am linken Textrand. Auf den Seiten wird ansonsten weiterer Text platziert. Für das L^OT wird dabei eine Kurzform berücksichtigt. Parameter ist doublePage

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22 References to the page

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

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

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

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

The caption of figure 62 is on page 80, but the image itself is on page 81. With package `varioref` it is:

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

With the package `varioref` (<https://ctan.org/pkg/varioref>) one can get something like: see figure 62 on page 81, which uses a correct page number of the floating object and not the caption page number which is on page 80. The figure 62 is on page 81 and the caption on page 80

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}
```



Figure 61: Caption at bottom right beside the float with a caption width of 0.5\columnwidth .

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

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

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 `hvf float-fps`. It allows optional package options to set the global placement:

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

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

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Figure 62: 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



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.

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

25 The Package Source

```
1  %% $Id: hvfloat.sty 56 2021-03-15 07:20:37Z 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{2.20}
19 \def\filedate{2021/04/29}
20 \message{'hvfloat' v\fileversion, \filedate\space (Herbert Voss)}
21 \ProvidesPackage{hvfloat}[\filedate\ rotating of floating objects]
22 \let\hvFloatFileVersion\fileversion
23 %
24 \newif\ifhv@fbox \hv@fboxfalse
25 \newif\ifhv@hyperref \hv@hyperreffalse
26 \DeclareOption{fbox}{\hv@fboxtrue\setlength{\fboxsep}{1pt}}
27 \DeclareOption{hyperref}{\hv@hyperreftrue}
28
29 \ProcessOptions
30
31 \PassOptionsToPackage{hycap}{caption}
32 \RequirePackage{caption}
33 \PassOptionsToPackage{hycap}{subcaption}
34 \RequirePackage{subcaption}
35 \RequirePackage{atbegshi,picture,trimclip}
36
37 \RequirePackage{expl3,multido}
38 \RequirePackage{graphicx}
39
40 \RequirePackage{xkeyval}
41 \RequirePackage{ifoddpage}
42 \RequirePackage{afterpage}
43 %\RequirePackage{zref-abspos}
44
45 \ifhv@hyperref
46   \RequirePackage{hyperref}
47   % \RequirePackage{hycap}
48 \fi
49 %
50 %\unitlength=1cm
51 \providecommand*\LenToUnit[1]{\strip@pt\dimexpr#1*\p@/\unitlength}
```

25 The Package Source

```

52
53 \newlength\hvObjectWidth
54 \newlength\hvCapWidth
55 \newlength\hvWideWidth
56 \newlength\hvMultiFloatSkip
57 \newlength\hvMaxCapWidth
58 %\newlength\hv@BottomSpace
59 %\AtBeginDocument{%
60 %   \setlength\hv@BottomSpace{\dimexpr\paperheight-1in-\topmargin-\headheight-\headsep-\textheight}}
61
62 \newsavebox\hvObjectBox
63 \newsavebox\hvCaptionBox
64 \newsavebox\hvOBox
65 \newsavebox\@tempbox
66 \newsavebox\hv@caption@box
67 \newsavebox\hv@leftBox
68 \newsavebox\hv@rightBox
69
70 \newif\ifhv@capbeside \hv@capbesidefalse
71
72 \def\hv@Top{top}
73 \def\hv@Bottom{bottom}
74 \def\hv@After{after}
75 \def\hv@Before{before}
76 \def\hv@Right{right}
77 \def\hv@Left{left}
78 \def\hv@Center{center}
79 \def\hv@Outer{outer}
80 \def\hv@Inner{inner}
81 \def\hv@Even{evenPage}
82 \def\hv@Odd{oddPage}
83 \def\hv@Natural{n}
84 \def\hv@Width{w}
85 \def\hv@Height{h}
86 \def\hv@Zero{0}
87 %
88 \def\hv@figure{figure}
89 %
90 \definekey{hvSet}{floatPos}{htbp}{%      LaTeX's position parameters htpb
91   \def\hvSet@floatPos{#1}%
92 }
93 \definekey{hvSet}{rotAngle}[0]{%      rotates caption AND image together
94   \def\hvSet@rotAngle{#1}%
95 }
96 \definekey{hvSet}{capWidth}[n]{%      (n)atural width|object (w)idth|object (h)eight|<scale of \columnwidth
97   >
98   \def\hvSet@capWidth{#1}%
99 }
100 \definekey{hvSet}{capAngle}[0]{%      -360...+360
101   \def\hvSet@capAngle{#1}%
102 }
103 \definekey{hvSet}{capPos}[bottom]{%      (l)eft|(b)ottom|(t)op|(r)ight|(i)nnner|(o)uter|(e)ven|(o)d(d)
104   \def\hvSet@capPos{#1}%      it is relativ to the object, (e),(d) only valid for fullpage float

```

```

104 \edef\@tempa{#1}%
105 \ifx\hv@Bottom\@tempa
106 \hv@capbesidefalse
107 \else
108 \ifx\hv@Top\@tempa
109 \hv@capbesidefalse
110 \else
111 \hv@capbesidetrue
112 \fi
113 \fi
114 }
115 \define@key{hvSet}{capVPos}[center]{% bottom|center|top
116 \def\hvSet@capVPos{#1}% it is relativ to the object
117 }
118 \define@key{hvSet}{objectPos}[center]{% (l)eft|(c)enter|(r)ight|(i)nnner|(o)uter
119 \def\hvSet@objectPos{#1}% it is relativ to the document
120 }
121 \define@key{hvSet}{objectAngle}[0]{% -360...+360
122 \def\hvSet@objectAngle{#1}%
123 }
124 \define@key{hvSet}{floatCapSep}[5pt]{% a width with the unit pt
125 \def\hvSet@floatCapSep{#1}%
126 }
127 \define@key{hvSet}{multiFloatSkip}{\normalbaselineskip}{% a width with the unit pt
128 \setlength\hvMultiFloatSkip{#1}%
129 }
130 \define@boolkey{hvSet}[hv@]{use0Box}[true]{}% use of the hv0Box contents
131 \define@boolkey{hvSet}[hv@]{nonFloat}[true]{}% Do not use float environment
132 \define@boolkey{hvSet}[hv@]{onlyText}[true]{}% Write the caption only as text
133 \define@boolkey{hvSet}[hv@]{wide}[true]{}% Write the caption only as text
134
135
136 \newif\ifhv@fullpage
137 \newif\ifhv@FULLPAGE
138 \newif\ifhv@doubleFULLPAGE
139 \newif\ifhv@doublePAGE
140 \newif\ifhv@doublePage
141
142 \define@key{hvSet}{fullpage}[true]{\global\@nameuse{hv@fullpage#1}}% wegen \afterpage problem
143 \define@key{hvSet}{FULLPAGE}[true]{\global\@nameuse{hv@FULLPAGE#1}}
144 \define@key{hvSet}{doubleFULLPAGE}[true]{\global\@nameuse{hv@doubleFULLPAGE#1}\hv@doublePagefalse\
145 hv@doublePAGEfalse}
146 \define@key{hvSet}{doublePAGE}[true]{\global\@nameuse{hv@doublePAGE#1}\hv@doublePagefalse\
147 hv@doubleFULLPAGEfalse}
148 \define@key{hvSet}{doublePage}[true]{\global\@nameuse{hv@doublePage#1}\hv@doublePAGEfalse\
149 hv@doubleFULLPAGEfalse}
150
151 \define@boolkey{hvSet}[hv@]{subFloat}[true]{% typeset values as subfloats
152 \ifhv@subFloat\setkeys{hvSet}{multiFloat=false}\fi
153 }%
154
155 \define@boolkey{hvSet}[hv@]{multiFloat}[true]{% typeset values as continous floats
156 \ifhv@multiFloat\setkeys{hvSet}{subFloat=false}\fi
157 }%

```

25 The Package Source

```

154 \define@boolkey{hvSet}[hv@]{separatorLine}[true]{}% separator line for caption of a full page float
155 \define@boolkey{hvSet}[hv@]{objectFrame}[true]{}% a frame around the object with no separation
156 \define@key{hvSet}{style}{}%
157 \@ifundefined{hv@#1}%
158 {\errmessage{Custom style '#1' undefined}}%
159 {\beginingroup
160 \edef\x{\endgroup\noexpand\setkeys{hvSet}{\@nameuse{hv@#1}}}\x}% use a defined style
161 }
162 \define@key{hvSet}{capFormat}[]{\def\hv@caption@format{#1}}%
163 \define@key{hvSet}{subcapFormat}[]{\def\hv@subcaption@format{#1}}%
164
165 \def\hv@set#1{\beginingroup\edef\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x}
166 \let\hvFloatSet\hv@set
167 %
168 \def\defhvstyle#1#2{\@namedef{hv@#1}{#2}}
169 \let\hvDefFloatStyle\defhvstyle % better name
170 %
171 \newcommand{\setDefaults}{%
172 \hv@set{%
173 floatPos=htbp, rotAngle=0, capWidth=n, capAngle=0,
174 capPos=bottom, capVPos=center, objectPos=center, objectAngle=0,
175 floatCapSep=5pt, useOBox=false, nonFloat=false,
176 onlyText=false, wide=false, fullpage=false, FULLPAGE=false,
177 doubleFULLPAGE=false, doublePage=false, doublePAGE=false,
178 multiFloat=false, subFloat=false,
179 separatorLine, objectFrame=false, multiFloatSkip=\normalbaselineskip,
180 capFormat={}, subcapFormat={},
181 }%
182 }
183
184 \let\hvFloatSetDefaults\setDefaults
185
186 \newcommand\reset@special@float{%
187 \hv@set{subFloat=false,%fullpage=false,
188 multiFloat=false,%FULLPAGE=false
189 }}
190
191 \def\hv@vskip{\vspace{\hvMultiFloatSkip}}
192
193 %
194 \newlength\hvAboveCaptionSkip
195 \newlength\hvBelowCaptionSkip
196 \newcount\hv@@capPos
197
198 \newlength\fbboxlinewidth
199 \AtBeginDocument{%
200 \setlength\fbboxlinewidth{\dimexpr\linewidth-2\fbboxrule-2\fbboxsep}%
201 }
202 \setlength\belowcaptionskip{\abovecaptionskip}% it is in latex.ltx = 0pt
203 \newcommand\saveCaptionSkip{%
204 \setlength{\hvAboveCaptionSkip}{\abovecaptionskip}
205 \setlength{\hvBelowCaptionSkip}{\belowcaptionskip}
206 \setlength{\abovecaptionskip}{0pt}

```

```

207 \setlength{\belowcaptionskip}{0pt}
208 }
209 \newcommand{\restoreCaptionSkip}{%
210 \setlength\abovecaptionskip{\hvAboveCaptionSkip}%
211 \setlength\belowcaptionskip{\hvBelowCaptionSkip}%
212 }
213 %
214 \newcommand\figcaption[2][{}]{\def\@capttype{figure}%
215 \begingroup
216 \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
217 \ifx\relax#1\relax \caption{#2}\else\caption[#1]{#2}\fi
218 \endgroup}
219 \newcommand\tabcaption[2][{}]{\def\@capttype{table}%
220 \begingroup
221 \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
222 \ifx\relax#1\relax \caption{#2}\else\caption[#1]{#2}\fi
223 \endgroup}
224 %
225 \newlength\hv@maxImageWidth
226 \AtBeginDocument{\hv@maxImageWidth=\columnwidth}
227
228 \define@key{Gin}{fullpage}[true]{%
229 \def\Gin@ewidth{\columnwidth}%
230 \def\Gin@eheight{\textheight}%
231 \Gin@boolkey{false}{iso}%
232 }
233 \define@key{Gin}{FullPage}[true]{%
234 \def\Gin@ewidth{\textwidth}%
235 \def\Gin@eheight{\textheight}%
236 \Gin@boolkey{false}{iso}%
237 }
238 \define@key{Gin}{FULLPAGE}[true]{%
239 \def\Gin@ewidth{\paperwidth}%
240 \def\Gin@eheight{\paperheight}%
241 \Gin@boolkey{false}{iso}%
242 }
243 \newcommand\IncludeGraphics[2][{}]{%
244 \vspace*{\the\dimexpr-\lin-\voffset+\topskip-\headheight-0.5\baselineskip}%
245 \leavevmode\checkoddpages
246 \ifoddpage
247 \hspace*{\dimexpr-\oddsidemargin-\parindent-\lin}%
248 \else
249 \hspace*{\dimexpr-\evensidemargin-\parindent-\lin}%
250 \fi\noindent
251 \includegraphics[#1,width=\paperwidth,height=\paperheight,keepaspectratio=false]{#2}%
252 }
253
254 \newcommand\put@CaptionBox[1][0]{%
255 \ifcase#1
256 \ifhv@fbox
257 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
258 \else
259 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%

```

25 The Package Source

```

260   \fi
261 \or
262   \ifhv@fbox
263     \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
264   \else
265     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
266   \fi
267 \or
268   \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}\else\usebox{\hvCaptionBox}\fi
269 \fi
270 }
271
272 \newcommand\put@ObjectBox[1][0]{%
273   \ifcase#1
274     \ifhv@fbox
275       \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
276     \else
277       \parbox{\wd\hvObjectBox}{\ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi}%
278     \fi
279   \or
280     \ifhv@fbox
281       \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
282     \else
283       \raisebox{-\height}{\ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi}%
284     \fi
285   \or
286     \ifhv@fbox
287       \fbox{\usebox{\hvObjectBox}}%
288     \else
289       \ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi%
290     \fi
291   \fi
292 }
293
294 \newif\ifhv@star
295 \newif\ifhv@substar
296 \setDefaults
297
298 \def\hvFloat{\@ifnextchar*%      Main macro
299   {\global\hv@startrue\hv@maxImageWidth=\textwidth\hvFloat@i}%
300   {\global\hv@starfalse\hv@maxImageWidth=\columnwidth\hvFloat@i*}%
301 }
302
303 %\newcommand*\hvFloat{[5][{}]{%
304 %  [#1]: keyvalues
305 %  #2: type figure | table | ...
306 %  #3: float contents
307 %  [#4]: short caption
308 %  #5: caption
309 %  #6: label
310 %
311 \def\hvFloat@i*{\@ifnextchar[\do@hvFloat]{\do@hvFloat[]}}
312 \def\do@hvFloat[#1]{%

```

```

313 \beginngroup
314 \setlength\hvWideWidth{\dimexpr\linewidth+\marginparwidth}%
315 \hv@maxImageWidth=\textwidth
316 \reset@special@float
317 \setcounter{hv@pfigure}{\value{figure}}%
318 \setcounter{hv@ptable}{\value{table}}%
319 \gdef\hv@save@setting{#1}%
320 \ifx\relax#1\relax\else\setkeys{hvSet}{#1}\fi
321 \gdef\hv@floatType{figure}%
322 \@ifnextchar+{\do@multiFloat}{\hvFloat@ii{#1}}
323
324 \ExplSyntaxOn
325
326 \def\do@multiFloat+#1#2{%
327   \clist_set:Nn\l_clist_Type{#1}%
328   \clist_set:Nn\l_clist_Object{#2}%
329   \@ifnextchar[\do@multiFloat@i{\do@multiFloat@i[]}%
330 }
331 \def\do@multiFloat@i[#1]#2#3{% lof-caption, caption, label
332   \ifx\relax#1\relax
333     \clist_set:Nn\l_clist_LofCaption{#1}%
334   \else
335     \clist_set:Nn\l_clist_LofCaption{#1}%
336   \fi
337   \clist_set:Nn\l_clist_Caption{#2}%
338   \ifx\relax#3\relax
339     \clist_set:Nn\l_clist_Label{#3}%
340   \else
341     \clist_set:Nn\l_clist_Label{#3}%
342   \fi
343   \@ifnextchar+{\do@multiFloat@ii}{#3}%
344 }
345 \def\do@multiFloat@ii+#1#2{%
346   \clist_put_right:Nn\l_clist_Type{#1}%
347   \clist_put_right:Nn\l_clist_Object{#2}%
348   \@ifnextchar[\do@multiFloat@iii{\do@multiFloat@iii[]}%
349 }
350
351 \def\do@multiFloat@iii[#1]#2#3{% lof-caption, caption, label
352   \ifx\relax#1\relax
353     \clist_put_right:Nn\l_clist_LofCaption{#1}%
354   \else
355     \clist_put_right:Nn\l_clist_LofCaption{#1}%
356   \fi
357   \clist_put_right:Nn\l_clist_Caption{#2}%
358   \ifx\relax#3\relax
359     \clist_put_right:Nn\l_clist_Label{#3}%
360   \else
361     \clist_put_right:Nn\l_clist_Label{#3}%
362   \fi
363   \@ifnextchar+{\do@multiFloat@ii}{#3}
364   {\def\hvSet@CapWidth{n}%
365     \do@@@hvFloat}%

```

25 The Package Source

```

366 }
367 \ExplSyntaxOff
368
369
370 \newcounter{hv@pfigure}
371 \newcounter{hv@ptable}
372 \newcounter{subhv@pfigure}
373 \newcounter{subhv@ptable}
374
375 \def\drawSepLine{%
376   \par\noindent
377   \if@twocolumn\rule{\columnwidth}{0.4pt}\else\rule{\linewidth}{0.4pt}\fi
378   \vspace{0pt}%
379 }
380
381 \newcount\hv@cmta
382 \newcount\hv@cmtb
383
384
385 \def\hvFloat@ii[#1]#2#3{%
386   \hv@maxImageWidth=\textwidth
387   \ifx\relax#1\relax\else\setkeys{hvSet}{#1}\fi
388   \gdef\hv@floatType{#2}%
389   \ifx\relax#2\relax \setkeys{hvSet}{nonFloat=true}\fi
390   \gdef\hv@floatObject{#3}%
391   \@ifnextchar[{\do@hvFloat}{\do@hvFloat[]}%
392 }
393 \def\do@hvFloat[#1]#2#3{%
394   \gdef\hv@shortCap{#1}%
395   \gdef\hv@longCap{#2}%
396   \gdef\hv@label{#3}%
397   \ifhv@capbeside\def@@temp{1}\else\def@@temp{0}\fi
398   \ifhv@fullpage
399     \def\hvSet@CapWidth{n}% relative value
400     \do@@@hvFloat% fullpage with caption on other page
401   \else
402     \ifhv@FULLPAGE
403       \def\hvSet@CapWidth{n}% relative value
404       \do@@@hvFloat% fullpage with caption on other page
405     \else
406       \ifhv@doubleFULLPAGE
407         \setlength\hvCapWidth{\textheight}
408         \expandafter\do@hvFloat@doubleFULLPAGE\@@temp% fullpage with caption rotated or under on an odd page
409       \else
410         \ifhv@doublePAGE
411           \expandafter\do@hvFloat@doublePAGE\@@temp% fullpage with caption rotated or under on an odd page
412         \else
413           \ifhv@doublePage
414             \expandafter\do@hvFloat@doublePage\@@temp% fullpage with caption rotated or under on an odd page
415           \else
416             \do@@@hvFloat
417           \fi
418         \fi

```

```

419     \fi
420     \fi
421     \fi
422 % \global\hv@capbesidefalse
423 }
424 %
425 \def\do@@hvFloat{% no special float page
426     \def\@tempa{90}%
427     \ifx\hvSet@rotAngle\@tempa
428         \setlength\hvMaxCapWidth{\textheight}%
429     \else
430         \setlength\hvMaxCapWidth{\hvWideWidth}%
431     \fi
432 %
433 % First we save the object in \hvObjectBox
434 %
435 \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
436     \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
437 \else
438     \savebox{\hvObjectBox}{%
439         \rotatebox{\hvSet@objectAngle}{%
440             \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi
441         }%
442     }%
443 \fi
444 \setlength\hvObjectWidth{\wd\hvObjectBox}%
445 %
446 % Now we save the caption with its defined \hvCapWidth
447 %
448 \ifx\hvSet@capWidth\hv@Width% captionwidth=objectwidth
449     \setlength\hvCapWidth{\hvObjectWidth}%
450 \else
451     \ifx\hvSet@capWidth\hv@Height% captionwidth=objectheight
452         \setlength\hvCapWidth{\ht\hvObjectBox}%
453     \else
454         \ifx\hvSet@capWidth\hv@Natural% captionwidth=\linewidth-\objectwidth-separation
455             \ifhv@capbeside
456                 \ifhv@wide
457                     \setlength\hvCapWidth{\the\dimexpr\hvWideWidth-\hvObjectWidth-\hvSet@floatCapSep\relax}%
458                 \else
459                     \ifhv@star
460                         \setlength\hvCapWidth{\the\dimexpr\textwidth-\hvObjectWidth-\hvSet@floatCapSep\relax}%
461                     \else
462                         \setlength\hvCapWidth{\the\dimexpr\linewidth-\hvObjectWidth-\hvSet@floatCapSep\relax}%
463                     \fi
464                 \fi
465             \else
466                 \setlength\hvCapWidth{\columnwidth}%
467             \fi
468         \else
469             \ifhv@capbeside
470                 \ifhv@wide
471                     \setlength\hvCapWidth{\hvSet@capWidth\hvWideWidth}%

```

25 The Package Source

```

472         \setlength\@tempdima{\the\dimexpr\hvWideWidth-\hvObjectWidth-\hvSet@floatCapSep\relax}%
473     \else
474         \setlength\hvCapWidth{\hvSet@capWidth\columnwidth}%
475         \setlength\@tempdima{\the\dimexpr\columnwidth-\hvObjectWidth-\hvSet@floatCapSep\relax}%
476     \fi
477     \ifdim\hvCapWidth>\@tempdima
478         \setlength\hvCapWidth{\@tempdima}%
479     \fi
480 \else
481     \ifhv@wide
482         \setlength\hvCapWidth{\hvSet@capWidth\hvWideWidth}%
483     \else
484         \setlength\hvCapWidth{\hvSet@capWidth\columnwidth}%
485     \fi
486 \fi
487 \fi
488 \fi
489 \fi
490 \saveCaptionSkip      % we put this space ourselve
491 \ifx\hvSet@capAngle\hv@Zero      % need rotation?
492     \savebox\hvCaptionBox{%      NO rotation
493         \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
494         \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
495         \ifhv@nonFloat
496         \ifhv@onlyText\hv@longCap
497         \else
498             \ifx\hv@floatType\hv@figure
499                 \ifx\relax\hv@shortCap\relax
500                     \figcaption{\hv@longCap\expandafter\label\expandafter{\hv@label}}%
501                 \else
502                     \figcaption[\hv@shortCap]{\hv@longCap\expandafter\label\expandafter{\hv@label}}%
503                 \fi
504             \else
505                 \ifx\relax\hv@shortCap\relax
506                     \tabcaption{\hv@longCap\expandafter\label\expandafter{\hv@label}}%
507                 \else
508                     \tabcaption[\hv@shortCap]{\hv@longCap\expandafter\label\expandafter{\hv@label}}%
509                 \fi
510             \fi
511         \fi
512     \else
513         \let\@captype\hv@floatType
514         \expandafter\ifx\expandafter\relax\hv@shortCap\relax
515             \caption{\hv@longCap\expandafter\label\expandafter{\hv@label}}%
516         \else
517             \caption[\hv@shortCap]{\hv@longCap\expandafter\label\expandafter{\hv@label}}%
518         \fi
519     \fi
520 % \expandafter\label\expandafter{\hv@label}%      2.17 put label into the caption argument
521     \end{minipage}%
522 }%
523 \else
524     \savebox\hvCaptionBox{%      Rotation

```

```

525 \rotatebox{\hvSet@capAngle}{%
526 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
527 \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
528 \ifhv@nonFloat
529 \ifhv@onlyText\hv@longCap
530 \else
531 \ifx\hv@floatType\hv@figure
532 \ifx\relax\hv@shortCap\relax \figcaption{\hv@longCap}\else\figcaption[\hv@shortCap]{\hv@longCap}\fi
533 \else
534 \ifx\relax\hv@shortCap\relax \tabcaption{\hv@longCap}\else\tabcaption[\hv@shortCap]{\hv@longCap}\fi
535 \fi
536 \fi
537 \else
538 \let\@capttype\hv@floatType
539 \expandafter\ifx\expandafter\relax\hv@shortCap\relax \caption{\hv@longCap}\else\caption[
540 \hv@shortCap]{\hv@longCap}\fi
541 \fi
542 \label{\hv@label}%
543 \end{minipage}%
544 }% \rotatebox
545 }% \sbox
546 \fi
547 %
548 % now we have the object and the caption with the right
549 % rotated angles saved in different boxes
550 %%
551 \restoreCaptionSkip% save old values
552 \def\fps@figure{\hvSet@floatPos}%
553 \ifhv@nonFloat
554 \begin{group} % Start the nonfloat part
555 \else
556 \ifhv@star
557 \ifhv@floatType\hv@floatType}% Start the floating environment *****
558 \begin{\hv@floatType}% Start the floating environment
559 \fi
560 \fi
561 \checkoddpage
562 \ifx\hvSet@objectPos\hv@Right\raggedleft\fi
563 \ifx\hvSet@objectPos\hv@Center
564 \ifhv@nonFloat\hspace*{\fill}\else\centering\fi
565 \fi
566 \ifx\hvSet@objectPos\hv@Outer
567 \ifoddpage\raggedleft\fi
568 \fi
569 \ifx\hvSet@objectPos\hv@Inner
570 \ifoddpage\else\raggedleft\fi
571 \fi
572 %
573 % to rotate object and caption together, we save all in another box
574 % the caption comes first, if its on the left or the top
575 % 0 caption left, inner and odd page, oneside inner
576 % 1 caption top

```

25 The Package Source

```

577 % 2 caption right, inner and even page, oneside outer
578 % 3 caption bottom
579 %
580 \ifx\hvSet@capPos\hv@Left
581 \hv@capPos=0
582 \else
583 \ifx\hvSet@capPos\hv@Top
584 \hv@capPos=1
585 \else
586 \ifx\hvSet@capPos\hv@Right
587 \hv@capPos=2
588 \else
589 \ifx\hvSet@capPos\hv@Bottom
590 \hv@capPos=3
591 \else
592 \ifx\hvSet@capPos\hv@Inner
593 \ifoddpageoroneside\hv@capPos=0\else\hv@capPos=2\fi
594 \else
595 \ifx\hvSet@capPos\hv@Outer
596 \ifoddpageoroneside\hv@capPos=2\else\hv@capPos=0\fi
597 \else
598 \ifx\hvSet@capPos\hv@Before
599 \hv@capPos=0 % same as capPos=right
600 \else
601 \ifx\hvSet@capPos\hv@After
602 \hv@capPos=2 % same as capPos=right
603 \fi
604 \fi
605 \fi
606 \fi
607 \fi
608 \fi
609 \fi
610 \fi
611 %%%
612 \savebox{\@tempboxa}{% ***** @tempbox start
613 \expandafter\ifcase\the\hv@capPos% 0 is LEFT START \ifcase
614 \ifx\hvSet@capVPos\hv@Center
615 \put@CaptionBox
616 \hspace{\hvSet@floatCapSep}% capfloatsep
617 \put@ObjectBox
618 \else
619 \ifx\hvSet@capVPos\hv@Top% caption and object at top aligned
620 \put@CaptionBox[1]%
621 \hspace{\hvSet@floatCapSep}% capfloatsep
622 \put@ObjectBox[1]%
623 \else% caption on bottom
624 \put@CaptionBox[2]%
625 \hspace{\hvSet@floatCapSep}% capfloatsep
626 \put@ObjectBox[2]%
627 \fi
628 \fi% end caption left
629 \or%1 is top

```

```

630     \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
631     \begin{minipage}{\wd\hvCaptionBox}%
632     \else
633     \begin{minipage}{\wd\hvObjectBox}%
634     \fi
635     \centering
636     \ifhv@fbox
637     \fbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]%
638     \fbox{\usebox{\hvObjectBox}}%
639     \else
640     \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]%
641     \usebox{\hvObjectBox}%
642     \fi
643     \end{minipage}%
644     \or %2 is right
645     \ifx\hvSet@capVPos\hv@Center
646     \put@ObjectBox
647     \hspace{\hvSet@floatCapSep}%
648     \put@CaptionBox
649     \else
650     \ifx\hvSet@capVPos\hv@Top
651     \put@ObjectBox[1]%
652     \hspace{\hvSet@floatCapSep}% capfloatsep
653     \put@CaptionBox[1]%
654     \else
655     \put@ObjectBox[2]%
656     \hspace{\hvSet@floatCapSep}% capfloatsep
657     \put@CaptionBox[2]%
658     \fi
659     \fi
660     \or %3 bottom
661     \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
662     \begin{minipage}{\wd\hvCaptionBox}%
663     \else
664     \begin{minipage}{\wd\hvObjectBox}%
665     \fi
666     \centering
667     \ifhv@fbox
668     \fbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]%
669     \fbox{\usebox{\hvCaptionBox}}%
670     \else
671     \ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi\[\hvAboveCaptionSkip]%
672     \usebox{\hvCaptionBox}%
673     \fi
674     \end{minipage}%
675     \fi% \ifcase\the\hv@capPos
676 }% End savebox Object and caption %%%%%%%%%%% @tempboxa
677 %
678 % now we rotate the object and caption, if needed
679 %
680 \ifhv@wide
681 \ifoddpageoroneside\else\ifoddpage\else\hspace*{-\marginparwidth}\fi\fi% <- for wide and left page
682 \fi

```

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```

683 \ifx\hvSet@rotAngle\hv@Zero
684 \usebox{\@tempboxa}%
685 \else
686 \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}%
687 \fi
688 \ifhv@nonFloat
689 \ifx\hvSet@objectPos\hv@Center
690 \ifhv@nonFloat
691 \hspace{\fill}%
692 \fi
693 \fi
694 \endgroup% End the nonfloat part
695 \else
696 \ifhv@star
697 \@nameuse{end\hv@floatType*}% End the floating environment
698 \else
699 \end{\hv@floatType}% End the floating environment
700 \fi
701 \fi
702 \endgroup% startet at main \hvFloat
703 }
704 %
705 \newenvironment{hvFloatEnv}[1][\textwidth]
706 {\minipage{#1}\center}
707 {\endcenter\endminipage}
708 %
709
710 \ExplSyntaxOn
711 \let\clist@item@Nn\clist_item:Nn
712 \let\l@clist@Type\l_clist_Type
713 \let\l@clist@LofCaption\l_clist_LofCaption
714 \let\l@clist@Label\l_clist_Label
715 \let\clist@count@N\clist_count:N
716 \ExplSyntaxOff
717
718 \def\do@@@hvFloat{% special float page: caption <-> fullpage image
719 \ifx\hvSet@capPos\hv@After \hv@@capPos=1
720 \else
721 \ifx\hvSet@capPos\hv@Even \hv@@capPos=2
722 \else
723 \ifx\hvSet@capPos\hv@Odd \hv@@capPos=3
724 \else
725 \ifx\hvSet@capPos\hv@Inner \hv@@capPos=4
726 \else
727 \ifx\hvSet@capPos\hv@Outer \hv@@capPos=5
728 \else
729 \ifx\hvSet@capPos\hv@Right \hv@@capPos=6 % only for twocolumn mode
730 \else
731 \ifx\hvSet@capPos\hv@Left \hv@@capPos=7 % only for twocolumn mode
732 \else
733 \hv@@capPos=0
734 \fi
735 \fi

```

```

736     \fi
737   \fi
738 \fi
739 \fi
740 \fi
741 \checkoddpages
742 \set@caption@object% set caption and object into a box
743 \ifcase\hv@capPos% caption before object 0-> _always_ left
744   \setBottomCaption\setPageObject
745 \or% caption after object 1-> _always_ right
746   \setPageObject\setBottomCaption
747 \or% caption on even page 2-> left page
748   \ifoddpages
749     \afterpage{\setBottomCaption\setPageObject}%
750   \else% we are on an even page
751 %   \zsaveposy{hv@currentPos}%
752 %   \ifdim\the\dimexpr\zposy{hv@currentPos}sp-\hv@BottomSpace-1cm>\ht\TBox % enough space*
753 %     \setBottomCaption\setPageObject
754 %   \else
755 %     \afterpage{\afterpage{\setBottomCaption\setPageObject}}%
756 %   \fi
757 \fi
758 \or% caption on odd page 3->right page
759   \if@twoside
760     \if@twocolumn
761       \ifoddpages
762         \if@firstcolumn% on right side
763           \setBottomCaption\setPageObject
764         \else
765           \afterpage{\setPageObject\setBottomCaption}% start next column
766         \fi
767       \else% left (even) page
768         \if@firstcolumn
769           \afterpage{\setPageObject\setBottomCaption}% start next column
770         \else
771           \setPageObject\setBottomCaption
772         \fi
773     \fi
774   \else % onecolumn
775     \ifoddpages
776       \setPageObject\setBottomCaption
777     \else% even page
778       \afterpage{\setPageObject\setBottomCaption}%
779     \fi
780   \fi
781 \else % oneside
782   \if@twocolumn
783     \ifoddpages
784       \if@firstcolumn% on right side
785         \setBottomCaption\setPageObject
786       \else
787         \setPageObject\setBottomCaption
788       \fi

```

25 The Package Source

```

789     \else
790         \if@firstcolumn% on left side
791             \afterpage{\setPageObject\setBottomCaption}%
792         \else
793             \setPageObject\setBottomCaption
794         \fi
795     \fi
796 \else % onecolumn
797     \ifoddpage
798         \setBottomCaption\setPageObject
799     \else
800         \afterpage{\setBottomCaption\setPageObject}%
801     \fi
802 \fi
803 \fi
804 \or% caption on the inner column 4->inner
805 \set@caption@object
806 \if@twocolumn
807     \ifoddpage
808         \if@firstcolumn% on right side
809         \setBottomCaption\setPageObject
810         \else % right column on right side
811             \setPageObject\setBottomCaption% start next firstcolumn next page
812         \fi
813     \else
814         \if@firstcolumn% on left side
815             \afterpage{\afterpage{\setBottomCaption\setPageObject}}% start next page/first column
816         \else% left page/column
817             \setBottomCaption\setPageObject% start on same page/column
818         \fi
819     \fi
820 \else % onecolumn
821     \setBottomCaption\setPageObject
822 \fi
823 \or% caption on the outer column 5->outer
824 \set@caption@object
825 \if@twocolumn
826     \ifoddpage
827         \if@firstcolumn
828             \afterpage{\afterpage{\setBottomCaption\setPageObject}}%
829         \else
830             \afterpage{\setBottomCaption\setPageObject}%
831         \fi
832     \else% even page (left)
833         \if@firstcolumn
834             \setBottomCaption\setPageObject
835         \else
836
837         \fi
838     \fi
839 \else% onecolumn
840     \setBottomCaption\setPageObject
841 \fi

```

```

842 \or% caption after object on same page 6->right for twocolumn
843 \if@twocolumn
844 \if@firstcolumn
845 \afterpage{\setPageObject\setBottomCaption}%
846 \else
847 \setPageObject\setBottomCaption
848 \fi
849 \else% always caption _after_ object for onecolumn
850 \setPageObject\setBottomCaption
851 \fi
852 \or% caption before object on same page 7->left for twocolumn
853 \if@twocolumn
854 \if@firstcolumn
855 \setBottomCaption\setPageObject
856 \else
857 \afterpage{\setBottomCaption\setPageObject}
858 \fi
859 \else% onecolumn -> same as before
860 \setBottomCaption\setPageObject
861 \fi
862 \fi
863 \endgroup% startet at main \hvFloat
864 }
865 %
866 %
867 \def\do@hvFloat@doublePage#1% image on left and right page with caption on the right
-----
868 % #1-> 0/1 caption under/right
869 \checkoddpage
870 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
871 \ifoddpage
872 \afterpage{%
873 \noindent
874 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
875 \global\@tempdima=\dimexpr\paperwidth-lin-\evensidemargin\relax
876 \clipbox*{0 -\depth}{\@tempdima}{\height}{\usebox{\hvObjectBox}%
877 \par\bigskip
878 \afterpage{%
879 \newpage
880 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
881 \hspace*{\dimexpr-lin-\oddsidemargin-\parindent}%
882 \clipbox*{\@tempdima}{-\depth}{\width}{\height}{\usebox{\hvObjectBox}%
883 \ifnum#1>0
884 \medskip
885 \ifdim\dp\hvObjectBox > \z@
886 \rotatebox[origin=c]{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
887 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap\expandafter\label\expandafter{\hv@label}}}}
888 %
889 \else
890 \rotatebox{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
891 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap\expandafter\label\expandafter{\hv@label}}}}
892 %
893 \fi

```

```

892     \else
893       \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap\expandafter\label\expandafter{\hv@label}}}%
894     \fi
895   }%
896 }%
897 \else
898   \afterpage{%
899     \afterpage{%
900       \newpage
901     %
902     \global\savebox{\hv0objectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
903     \global\@tempdima=\dimexpr\paperwidth-1in-\evensidemargin\relax{}
904     \hspace*{\@tempdima}%
905     \clipbox*{0 -\depth{} \@tempdima{} \height}{\usebox{\hv0objectBox}%
906     \par\bigskip
907     \afterpage{%
908       \global\savebox{\hv0objectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
909       \noindent
910       \hspace*{\dimexpr-1in-\marginparwidth}%
911       \clipbox*{\@tempdima{} -\depth{} \width{} \height}{\usebox{\hv0objectBox}%
912       \ifnum#1>0
913         \medskip
914         \ifdim\dp{\hv0objectBox} > \z@
915           \rotatebox[origin=c]{90}{\parbox{\the\dimexpr\ht{\hv0objectBox}+\dp{\hv0objectBox}{%
916             \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap\expandafter\label\expandafter{\hv@label}}}}
917           %
918           \rotatebox{90}{\parbox{\the\dimexpr\ht{\hv0objectBox}+\dp{\hv0objectBox}{%
919             \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap\expandafter\label\expandafter{\hv@label}}}}
920           %
921         \fi
922       \else
923         \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap\expandafter\label\expandafter{\hv@label}}}%
924       \fi
925     }}}}
926 \fi
927 \endgroup
928 }
929 \def\do@hvFloat@doublePAGE#1{% image on left and right page with caption on the right
930   -----
931   % #1-> 0/1 caption under/right
932   \checkoddpage
933   \ifoddpage
934     \afterpage{%
935       \newpage
936       \global\savebox{\hv0objectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
937       \hspace*{\the\dimexpr-\evensidemargin-\parindent-1in}%
938       \clipbox*{0 -\depth{} \paperwidth{} \height}{\usebox{\hv0objectBox}%
939       \newpage
940       \global\savebox{\hv0objectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
941       \hspace*{\the\dimexpr-\oddsidemargin-\parindent-1in}%
942       \clipbox*{\paperwidth{} -\depth{} \width{} \height}{\usebox{\hv0objectBox}%

```

```

942     \ifnum#1>0
943         \medskip
944         \ifdim\dp\hvObjectBox > \z@
945             \rotatebox[origin=c]{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
946                 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap\expandafter\label\expandafter{\hv@label}}}}
947             %
948         \else
949             \rotatebox{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
950                 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap\expandafter\label\expandafter{\hv@label}}}}
951             %
952         \fi
953     \else
954         \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap\expandafter\label\expandafter{\hv@label}}%
955     \fi
956 \newpage
957 }%
958 \else
959 \afterpage{%
960     \AddToHookNext{shipout/before}{%
961         %
962         \newpage
963         \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
964         \hspace*{\dimexpr-\evensidemargin-\lin-\parindent}%
965         \clipbox*{0 -\depth}{ \paperwidth}{ \height}{\usebox\hvObjectBox}%
966         \newpage
967         \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
968         \hspace*{\the\dimexpr-\lin-\oddsidemargin-\parindent\relax}%
969         \clipbox*{\paperwidth}{ -\depth}{ \width}{ \height}{\usebox\hvObjectBox}%
970         \ifnum#1>0 % caption right and rotated
971             \medskip
972             \ifdim\dp\hvObjectBox > \z@
973                 \rotatebox[origin=c]{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
974                     \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap\expandafter\label\expandafter{\hv@label}}}}
975                 %
976             \else
977                 \rotatebox{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
978                     \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap\expandafter\label\expandafter{\hv@label}}}}
979                 %
980             \fi
981         \else
982             \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap\expandafter\label\expandafter{\hv@label}}%
983         \fi
984     \newpage
985 }%
986 \fi
987 \endgroup
988 }
989 %
990 \def\do@hvFloat@doubleFULLPAGE#1{% image on left and right page with caption on the right
991     -----
992     % #1-> 0/1 caption under/right
993     \checkoddpages
994     \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
995     \ifoddpages

```

25 The Package Source

```

990 \afterpage{%
991   \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
992   \vspace*{\the\dimexpr-\voffset-\topmargin-\headheight-\headsep-\baselineskip}% +0.5\paperheight
993   -0.5\ht\hvObjectBox
994   \hspace*{\the\dimexpr-\evensidemargin-\parindent-1in}%
995   \AtBeginShipoutNext{\thispagestyle{empty}}%
996   \clipbox*{0 0 \paperwidth{} \height}{\usebox\hvObjectBox}%
997   \newpage
998   \AtBeginShipoutNext{\thispagestyle{empty}}%
999   \vspace*{\the\dimexpr-1in-\voffset-\topmargin-\headheight-\headsep-\normalbaselineskip}% -0.5\
1000     paperheight+0.5\ht\hvObjectBox
1001   \hspace*{\the\dimexpr-\oddsidemargin-\parindent-1in}%
1002   \clipbox*{\paperwidth{} 0 \wd\hvObjectBox{} \paperheight}{\usebox\hvObjectBox}%
1003   \savebox\hvCaptionBox{\parbox{0.9\ht\hvObjectBox}{%
1004     \captionof*{\hv@floatType}[\hv@shortCap]{\hv@longCap\expandafter\label\expandafter{\hv@label}}}%
1005     \ifnum#1>0
1006       \ifdim\dimexpr\ht\hvCaptionBox+\wd\hvObjectBox\relax < 2\paperwidth
1007         \rotatebox{90}{\qquad\parbox{0.9\ht\hvObjectBox}{%
1008           \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\expandafter\label\expandafter{\hv@label}
1009             }}}}%
1010         \else
1011           \put(-\ht\hvCaptionBox,0.5\ht\hvObjectBox){\makebox(0,0){\rotatebox{90}{\minipage{\textwidth}\
1012             centering
1013             \parbox{0.8\textwidth}{%
1014               \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\expandafter\label\expandafter{\hv@label}
1015                 }}\endminipage
1016             }}}}%
1017         \fi
1018       \else
1019         \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\expandafter\label\expandafter{\hv@label}}%
1020       \fi
1021     \newpage
1022   }%
1023 \else
1024 \afterpage{%
1025   \AddToHookNext{shipout/before}{%
1026     \newpage
1027     \AddToHook{begin/page}{\thispagestyle{empty}}
1028     \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1029     \vspace*{\the\dimexpr-1in-\voffset-\topmargin-\headheight-\headsep-\baselineskip}% +0.5\paperheight
1030     -0.5\ht\hvObjectBox
1031     \hspace*{\the\dimexpr-\evensidemargin-\parindent-1in}%
1032     \AtBeginShipoutNext{\thispagestyle{empty}}%
1033     \clipbox*{0 0 \paperwidth{} \paperheight}{\usebox\hvObjectBox}%
1034     \newpage
1035     \vspace*{\the\dimexpr-1in-\voffset-\topmargin-\headheight-\headsep-\normalbaselineskip}% -0.5\
1036       paperheight+0.5\ht\hvObjectBox
1037     \hspace*{\the\dimexpr-\oddsidemargin-\parindent-1in}%
1038     \clipbox*{\paperwidth{} 0 \wd\hvObjectBox{} \paperheight}{\usebox\hvObjectBox}%
1039     \AtBeginShipoutNext{\thispagestyle{empty}}%
1040     \savebox\hvCaptionBox{\parbox{0.9\ht\hvObjectBox}{%
1041       \captionof*{\hv@floatType}[\hv@shortCap]{\hv@longCap\expandafter\label\expandafter{\hv@label}}}%
1042       \ifnum#1>0
1043         \ifdim\dimexpr\ht\hvCaptionBox+\wd\hvObjectBox\relax < 2\paperwidth
1044           \rotatebox{90}{\qquad\parbox{0.9\ht\hvObjectBox}{%
1045             \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\expandafter\label\expandafter{\hv@label}
1046               }}\endminipage
1047           \else
1048             \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\expandafter\label\expandafter{\hv@label}}%
1049           \fi
1050         \fi
1051       \else
1052         \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\expandafter\label\expandafter{\hv@label}}%
1053       \fi
1054     \newpage
1055   }%
1056 \fi

```

```

1036 \ifdim\dimexpr\ht\hvCaptionBox+\wd\hvObjectBox\relax < 2\paperwidth
1037 \rotatebox{90}\minipage{\the\ht\hvObjectBox}\centering\parbox{0.75\textwidth}{%
1038 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap\expandafter\label\expandafter{\hv@label}}
1039 %
1040 \endminipage}%
1041 \else% no space on the right, put it over the imag
1042 \put(-\ht\hvCaptionBox,0.5\ht\hvObjectBox){\makebox(0,0){\rotatebox{90}\minipage{\the\dimexpr\ht
1043 \hvObjectBox}%
1044 \centering\parbox{0.8\textwidth}{%
1045 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap\expandafter\label\expandafter{\hv@label
1046 }}}\endminipage}}}%
1047 \fi
1048 \else
1049 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap\expandafter\label\expandafter{\hv@label}}%
1050 \fi
1051 \newpage
1052 }%
1053 }%
1054 \fi
1055 \endgroup
1056 }
1057
1058 \def\setBottomCaption{%
1059 \begin{\hv@floatType}[!b]
1060 \ifhv@separatorLine\drawSepLine\fi
1061 \par
1062 \usebox\hvCaptionBox
1063 \end{\hv@floatType}%
1064 }
1065
1066 \def\setPageObject{%
1067 \ifhv@star
1068 \begin{\hv@floatType*}[p]%
1069 \else
1070 \begin{\hv@floatType}[p]%
1071 \fi
1072 \ifhv@FULLPAGE
1073 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep}%-0.5\baselineskip}%
1074 \checkoddpages
1075 \if@twoside
1076 \ifoddpage
1077 \hspace*{\the\dimexpr-\oddsidemargin-\parindent-\lin}%
1078 \else
1079 \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1080 \fi
1081 \else
1082 \hspace*{\the\dimexpr-\oddsidemargin-\parindent-\lin}%
1083 \fi
1084 %\put(0,0){%
1085 \AtBeginShipoutNext{\thispagestyle{empty}}}%
1086 \usebox\hvObjectBox}%
1087 \else
1088 \usebox\hvObjectBox

```

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```

1086 \fi
1087 \ifhv@star
1088 \end{\hv@floatType*}%
1089 \else
1090 \end{\hv@floatType}%
1091 \fi
1092 }
1093
1094 \ExplSyntaxOn
1095
1096 \def\getMultiCaptionAndLabel{%
1097 \global\sbox\hvCaptionBox{\minipage[b]{\linewidth}%
1098 \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
1099 \setlength\belowcaptionskip{5pt}%
1100 \setlength\abovecaptionskip{0pt}%
1101 \hv@cntb=\clist_count:N\l_clist_Type
1102 \advance\hv@cntb by \@ne
1103 \hv@cmta=1
1104 \loop
1105 \edef\@captype{\clist_item:Nn\l_clist_Type{\hv@cmta}}%
1106 \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{\hv@cmta}}%
1107 \ifx\@tempa\empty
1108 \caption{\clist_item:Nn\l_clist_Caption{\hv@cmta}}%
1109 \else
1110 \expandafter\caption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{\hv@cmta}}%
1111 \fi
1112 \edef\@tempa{\clist_item:Nn\l_clist_Label{\hv@cmta}}%
1113 \ifx\@tempa\empty
1114 \else
1115 \expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{\hv@cmta}-cap}\fi
1116 \advance\hv@cmta by \@ne
1117 \ifnum\hv@cmta<\hv@cntb
1118 \repeat
1119 \endminipage}%
1120 }
1121 \def\getMultiObjectAndLabel{%
1122 \global\sbox\hvObjectBox{\minipage{\linewidth}%
1123 \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
1124 \ifx\hvSet@objectPos\hv@Right\raggedleft\else
1125 \ifx\hvSet@objectPos\hv@Left\raggedleft\else
1126 \ifx\hvSet@objectPos\hv@Center\centering
1127 \fi\fi\fi
1128 \hv@cntb=\clist_count:N\l_clist_Type
1129 \advance\hv@cntb by \@ne
1130 \hv@cmta=1
1131 \loop
1132 \def\@temp{\clist_item:Nn\l_clist_Object{\hv@cmta}}%
1133 \ifhv@objectFrame\frame{\@temp}\else\@temp\fi
1134 \edef\@tempa{\clist_item:Nn\l_clist_Label{\hv@cmta}}%
1135 \ifx\@tempa\empty
1136 \else
1137 \refstepcounter{\@captype}%
1138 \expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{\hv@cmta}}%

```

```

1139     \fi
1140     \ifnum\hv@cmta<\clist_count:N\l_clist_Type\par\hv@vskip\fi
1141     \advance\hv@cmta by \@ne
1142     \ifnum\hv@cmta<\hv@cmtb
1143     \repeat
1144 \endminipage}%
1145 }
1146
1147 \def\getMultiSubCaptionAndLabel{%
1148 \global\sbox\hvCaptionBox{\minipage{\linewidth}%
1149 \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
1150 \setlength\belowcaptionskip{5pt}%
1151 \setlength\abovecaptionskip{0pt}%
1152 \xdef\@captype{\clist_item:Nn\l_clist_Type{1}}% the same for all subfloats
1153 \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{1}}%
1154 \ifx\@tempa\@empty
1155     \caption{\clist_item:Nn\l_clist_Caption{1}}%
1156 \else
1157     \expandafter\caption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{1}}%
1158 \fi
1159 \edef\@tempa{\clist_item:Nn\l_clist_Label{1}}%
1160 \ifx\@tempa\@empty\else\expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{1}-cap}\fi
1161 \endminipage}%
1162 }
1163
1164 \def\getMultiSubObjectAndLabel{%
1165 \global\sbox\hvObjectBox{\minipage{\linewidth}%
1166 \ifx\relax\hv@subcaption@format\relax\else\captionsetup[sub]{\hv@subcaption@format}\fi
1167 \ifx\hvSet@objectPos\hv@Right\raggedleft\else
1168     \ifx\hvSet@objectPos\hv@Left\raggedleft\else
1169     \ifx\hvSet@objectPos\hv@Center\centering
1170     \fi\fi\fi
1171 \hv@cmtb=\clist_count:N\l_clist_Caption
1172 \advance\hv@cmtb by \@ne
1173 \hv@cmta=2
1174 \xdef\@captype{\clist_item:Nn\l_clist_Type{1}}% the same for all subfloats
1175 \loop
1176 \def\@temp{\clist_item:Nn\l_clist_Object{\hv@cmta}}%
1177 \ifhv@objectFrame\frame{\@temp}\else\@temp\fi
1178 \begingroup
1179 \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{\hv@cmta}}%
1180 \ifx\@tempa\@empty
1181     \subcaption{\clist_item:Nn\l_clist_Caption{\hv@cmta}}%
1182 \else
1183     \expandafter\subcaption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{\hv@cmta}}%
1184 \fi
1185 \edef\@tempa{\clist_item:Nn\l_clist_Label{\hv@cmta}}%
1186 \ifx\@tempa\@empty
1187 \else
1188     \expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{\hv@cmta}}%
1189 \fi
1190 \endgroup
1191 \ifnum\hv@cmta<\clist_count:N\l_clist_Type\par\hv@vskip\fi

```

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```

1192     \advance\hv@cmta by \@ne
1193     \ifnum\hv@cmta<\hv@cmtb
1194     \repeat
1195     \edef\@tempa{\clist_item:Nn\l_clist_Label{1}}%    the main label at the end
1196     \ifx\@tempa\@empty
1197     \else
1198         \refstepcounter{\@capttype}
1199         \expandafter\label\expandafter{\@tempa}%
1200     \fi
1201     \endminipage}%
1202 }
1203 \ExplSyntaxOff
1204
1205 \def\getSingleCaptionAndLabel{%
1206     \global\sbox\hv@captionBox{\minipage{\linewidth}%
1207     \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
1208     \setlength\belowcaptionskip{5pt}%
1209     \setlength\abovecaptionskip{0pt}%
1210     \edef\@capttype{\hv@floatType}%
1211     \expandafter\ifx\expandafter\relax\hv@shortCap\relax
1212         \caption{\hv@longCap}%
1213     \else
1214         \caption[\hv@shortCap]{\hv@longCap}%
1215     \fi
1216     \expandafter\ifx\expandafter\relax\hv@label\relax\else\label{\hv@label-cap}\fi
1217     \endminipage}%
1218 }
1219
1220 \def\set@caption@object{%    first caption, then object
1221     \ifhv@multiFloat
1222         \getMultiCaptionAndLabel
1223     \else
1224         \ifhv@subFloat
1225             \getMultiSubCaptionAndLabel
1226         \else
1227             \getSingleCaptionAndLabel
1228         \fi
1229     \fi
1230     \edef\@capttype{\hv@p\hv@floatType}%
1231     \ifhv@multiFloat
1232         \getMultiObjectAndLabel
1233     \else
1234         \ifhv@subFloat
1235             \getMultiSubObjectAndLabel
1236         \else
1237             \global\sbox\hv@objectBox{%
1238                 \refstepcounter{\@capttype}%
1239                 \ifhv@objectFrame\frame{\hv@floatObject}\else\hv@floatObject\fi
1240                 \expandafter\ifx\expandafter\relax\hv@label\relax
1241                     \else
1242                         \expandafter\label\expandafter{\hv@label}%
1243                     \fi
1244             }%

```

```
1245     \fi
1246     \fi
1247 }
1248 %
1249 \endinput
```