

Package hvfloat

Controlling captions, fullpage and doublepage floats

ver 2.41

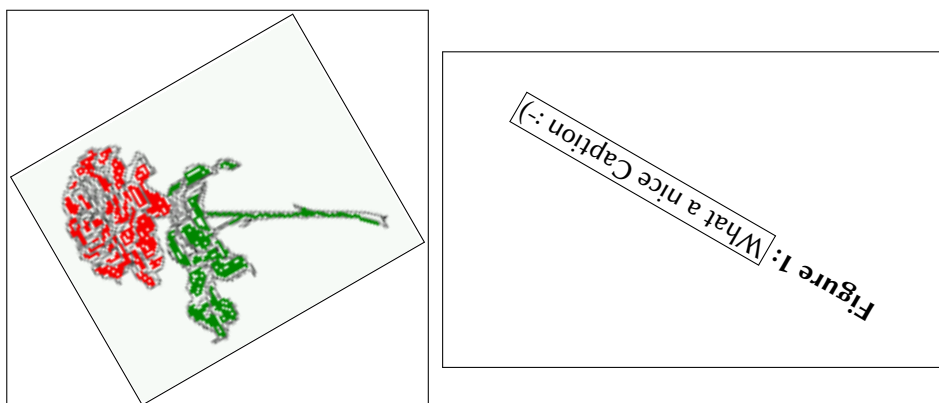
Herbert Voß*

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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!



*hvoss@tug.org

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1 The package options

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

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

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

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

2 The Macros and optional arguments

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

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

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

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

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

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

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

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

Table 1: A Caption without any sense and any object

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

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

2 The Macros and optional arguments

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

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

\hvDefFloatStyle{*name*}{*setting*}

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

There are the following keywords:

Table 2: The optional keywords for the macro \hvFloat

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

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

3 The default use of floating environments

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

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



Fig. 2

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

Code for figure 2:

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

Code for table 3:

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

Tab. 3

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

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

```

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

```

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

4 Caption width

4.1 Default – natural width

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

```

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

```

Fig. 3

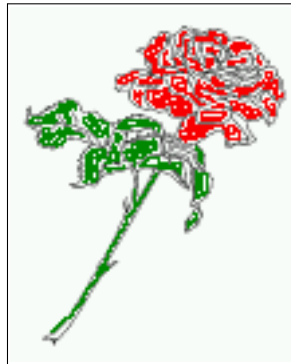


Figure 3: Default caption width setting, which is the natural width with respect to the current linewidth.

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

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

```

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

```

Fig. 4

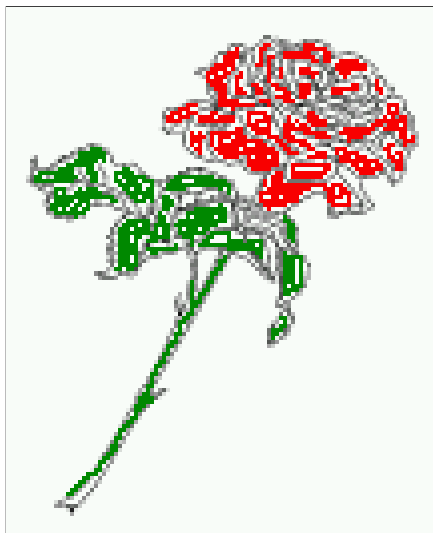


Figure 4: Caption right beside with a *natural* width, which is given by the width of the object, the separation between object and caption, and the current linewidth.

4.2 Relative linewidth

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

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

Fig. 5



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

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

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

Fig. 6

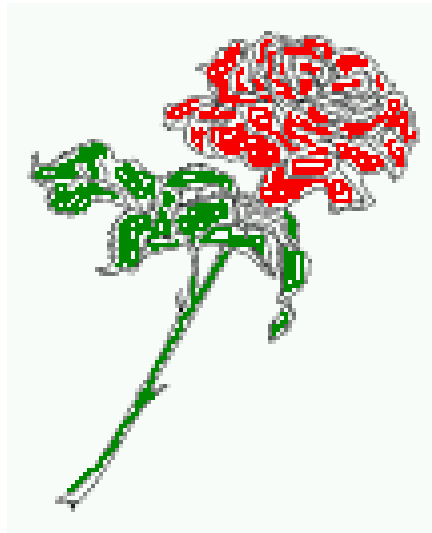


Figure 6: Caption right beside with a width setting of 0.9\linewidth w for this example and therefore corrected by the macro to the maxima

4.3 Identical object and caption width

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

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

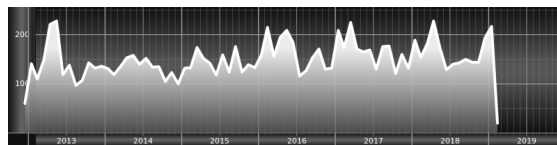


Figure 7: Caption below with a width of the given object which may be a problem if it is a very small object.

4.4 caption width to height of the object

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

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

Fig. 8

5 Caption left or right of the object

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

5.1 Caption right with specific length

Code for figure 9:



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

```

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

```

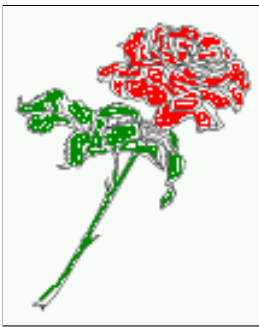


Figure 9: Caption vertically centered right beside the float with a natural caption width (the default). Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information?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

Fig. 9 float
capPos=right

5.2 Caption left and rotated

Code for figure 10:

```

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

```

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

Fig. 10

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



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

Code for figure 11:

```

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

```

Fig. 11



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

6 Caption inner or outer

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

Code for figure 12:

```

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

```

Fig. 12

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



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

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

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

Fig. 13



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

Fig. 14



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

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

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

Code for figure 15:

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

Fig. 15



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

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

7 Vertical Position of the Caption

The caption can be placed beside the object in the positions

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

The code for figure 16:

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

Fig. 16

The code for figure 17:

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




Figure 16: Caption at bottom right beside the float

```

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

```

Figure 17: Caption at top left beside the float



Fig. 17

The code for figure 18:

```

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

```



Figure 18: Caption centered right beside the float

Fig. 18

8 Caption format

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

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

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

Fig. 19

**Figure 19**

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

9 Horizontal Position of the Float

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

The code for figure 20:

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

Fig. 20



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

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

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

The same with capPos=left :

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



Fig. 21

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

The code for figure 22:

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

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



Fig. 22

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

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

10 Wide floats

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

The code for figure 23:

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

Fig. 23

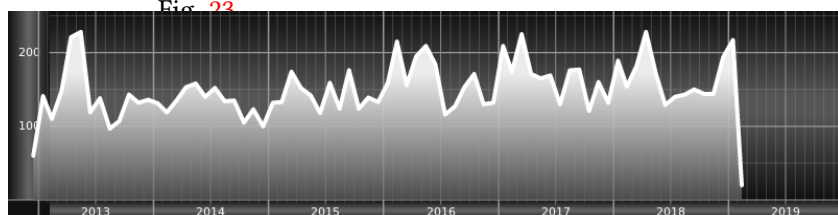


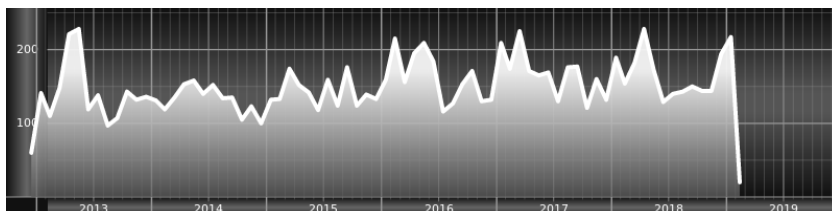
Figure 23: Caption at top right beside the float and object position left and the option `wide`.

The code for figure 24:

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

Fig. 24

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

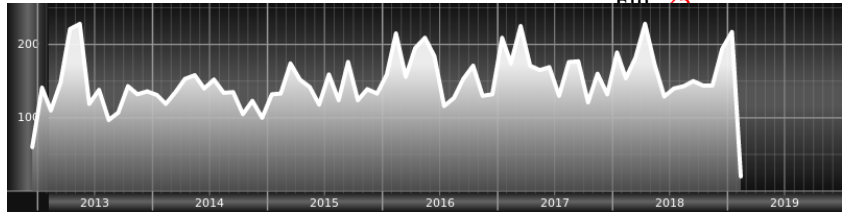


For a twosided document it will place the object always in the margin.

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

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

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

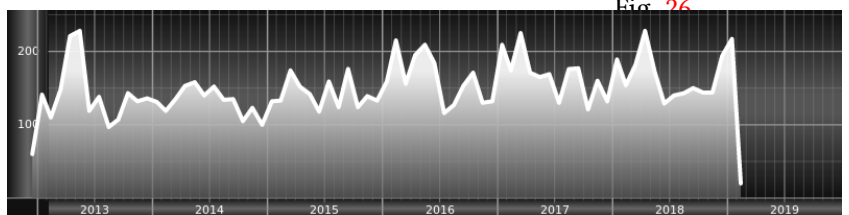


Now we set the same image with the same setting on the next page. The caption will change its side due to the setting `capPos=outer`.

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

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

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



The caption can be typeset completely into the margin with:

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

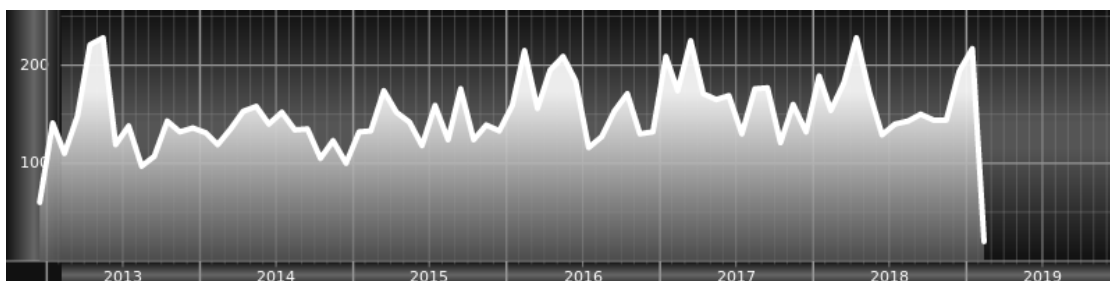


Figure 27: Caption at top inner beside the float and object position right and the option wide.

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

```

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

```

Fig. 28

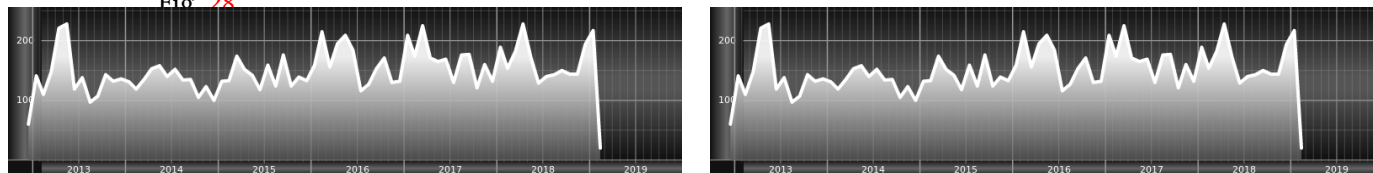


Figure 28: Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift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

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

11 The star version \hvFloat*

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

```

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

```

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

12 Full Page Width in Landscape Mode

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

Code for figure 30:

```

1 \hvFloat[%
2 floatPos=p,

```

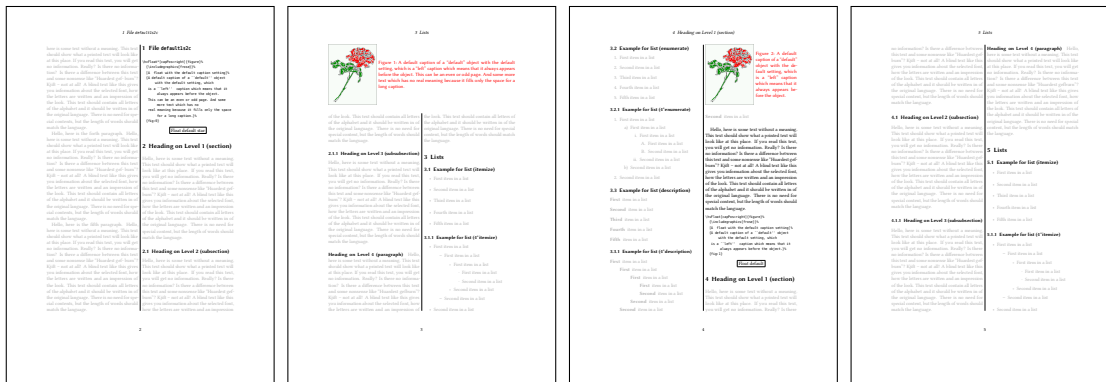


Figure 29: Output of default1s2c (pages 2–5)

```

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

```

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

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

The code for figure 31:

```

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

```

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

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

Fig. 30

Fig. 31

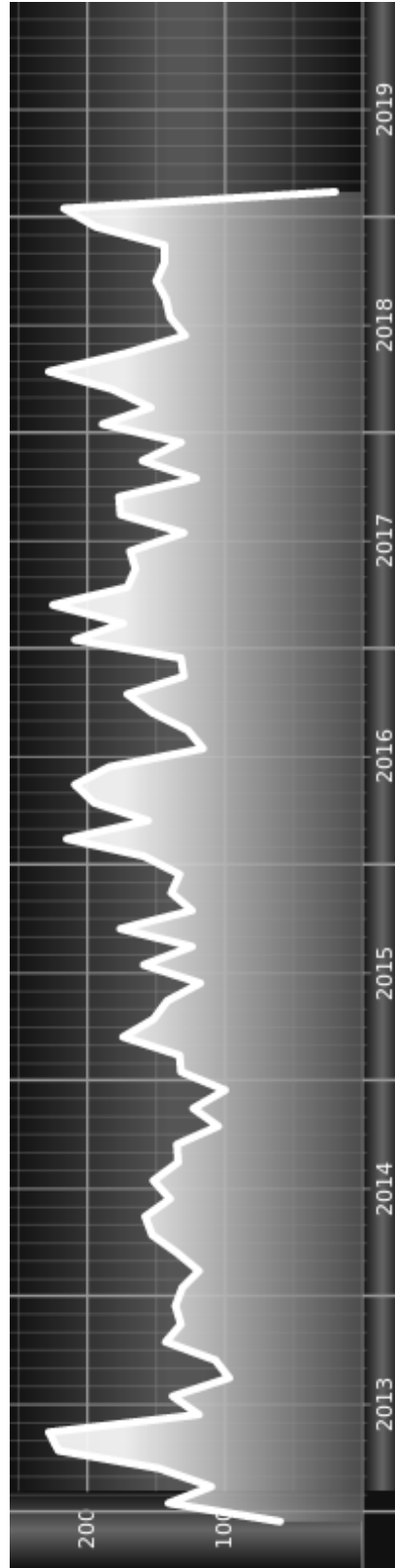
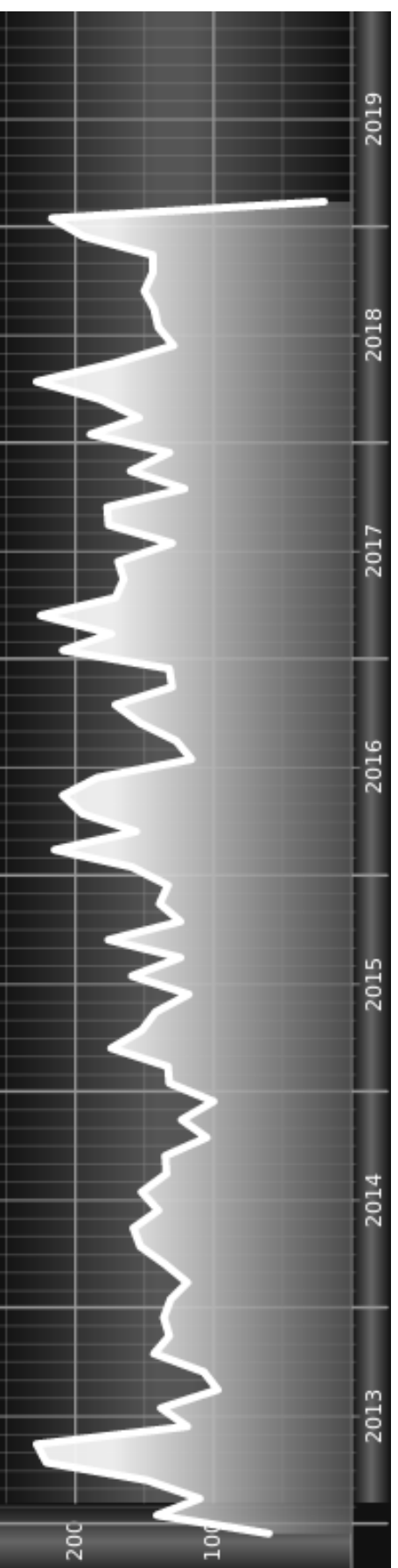


Figure 30: Caption and object in landscape mode. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense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

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



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

13 The nonFloat Option

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

```

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

Fig. 32

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

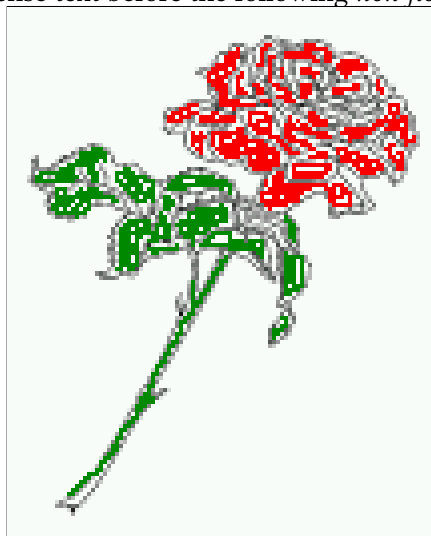


Figure 32: Caption of a “nonfloat” Object, using the nonfloat Package

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

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

```

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

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

14 Tabulars as Objects

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

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

```

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

The code for table 4 and 5 is:

```

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

In this case leave the third parameter empty.

Table 4: Demonstration of the `use0Box` Parameter

Tab. 4

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

Tab. 5

15 Text and objects

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

Name	Type	Description
\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

keyword is used.

The code for figure 15:

```

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

```

Fig. 15



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

16 Environment `hvFloatEnv`

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

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

Table 6: A caption for a nice table

left	center	right
L	C	R

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

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

Table 7: A caption for a nice table

left	center	right
L	C	R

17 Full page objects in onecolumn mode

For an image or table which needs the whole space of a page the caption can be printed at the bottom of the 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{\paperwidth}%
  \def\Gin@eheight{\paperheight}%
  \Gin@boolkey{false}{iso}%
}

```

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

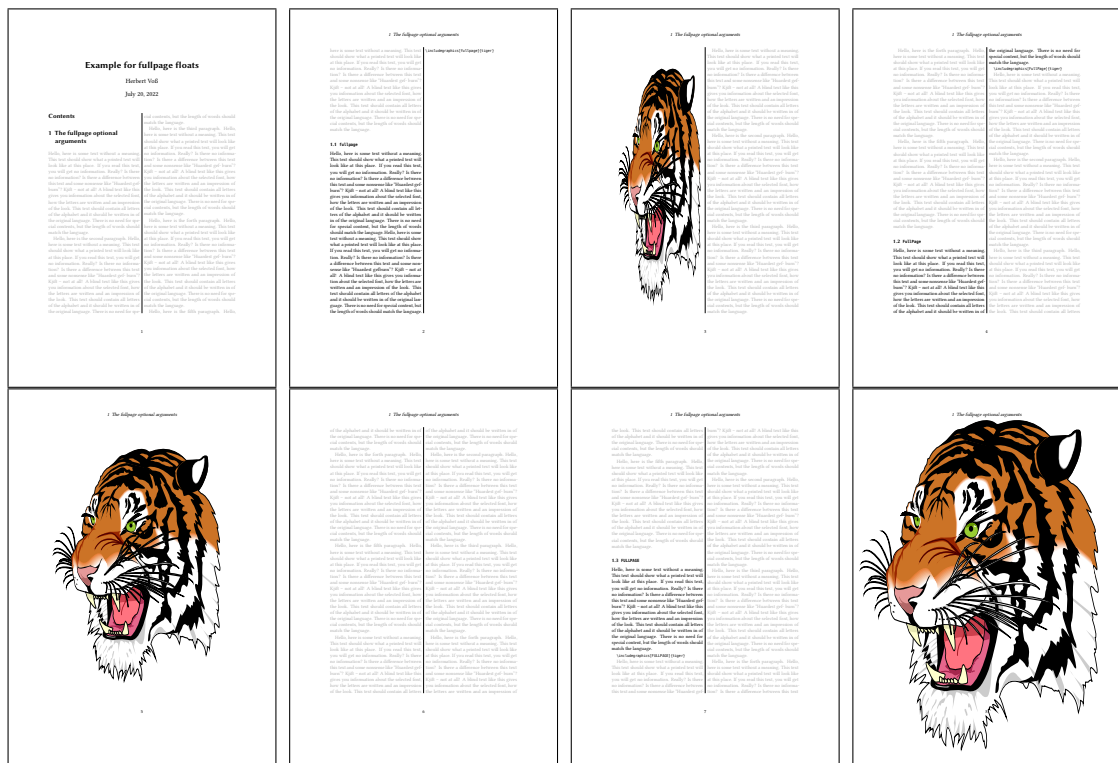


Figure 33: Output of `fullpage1s2c` (pages 1–8)

17.1 Using the textarea

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

17.1.1 Using the default or capPos=before

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

```

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

```

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

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

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

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

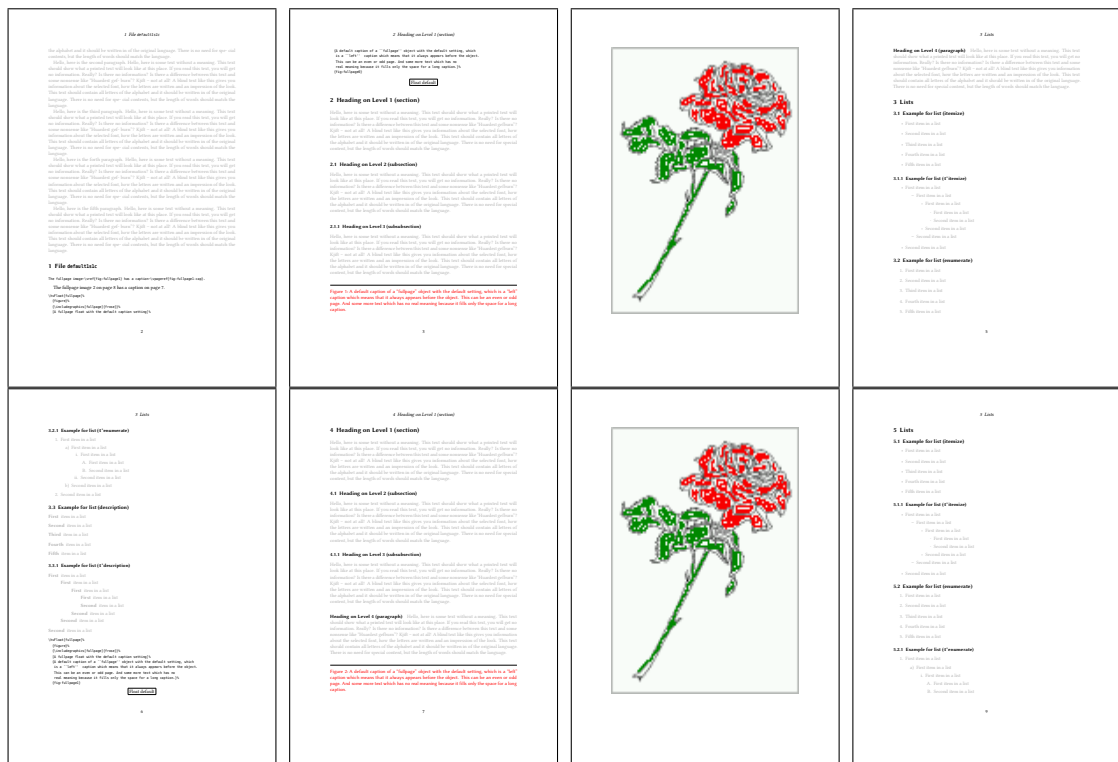


Figure 34: Output of default1s1c (pages 2–9)

17.1.2 Using capPos=after

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

```

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

```

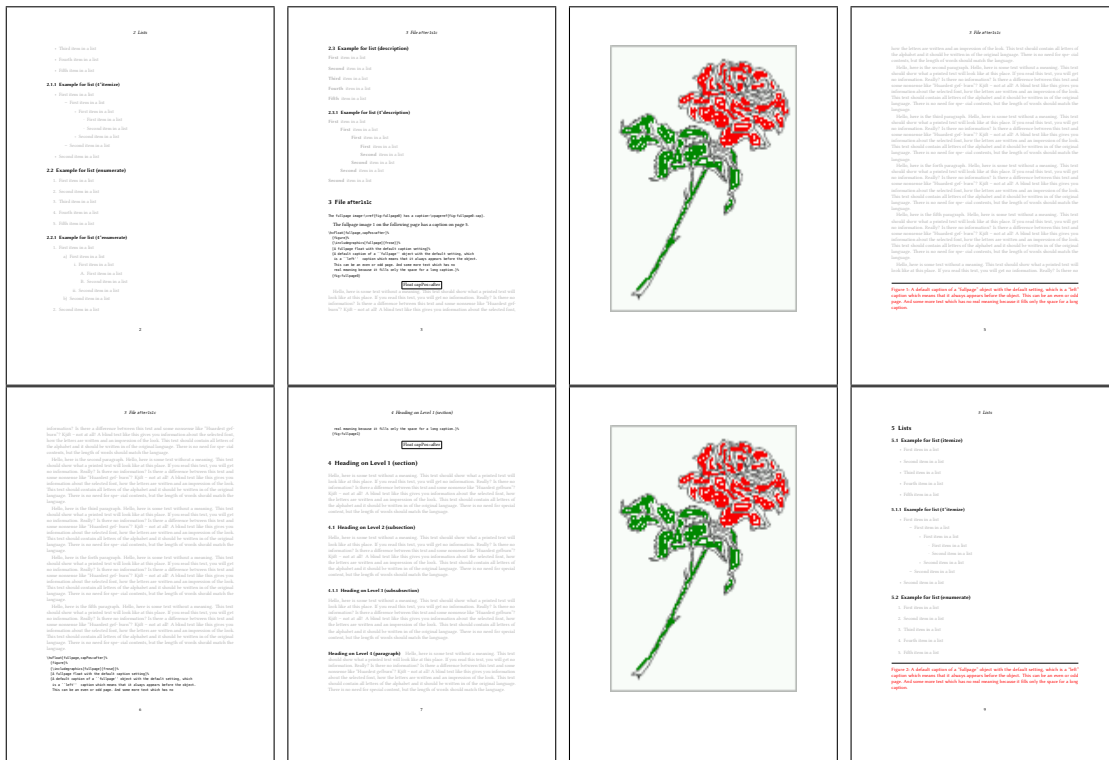


Figure 35: Output of after1s1c (pages 2–9)

17.1.3 Using capPos=evenPage — caption on an even page

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

```

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

```

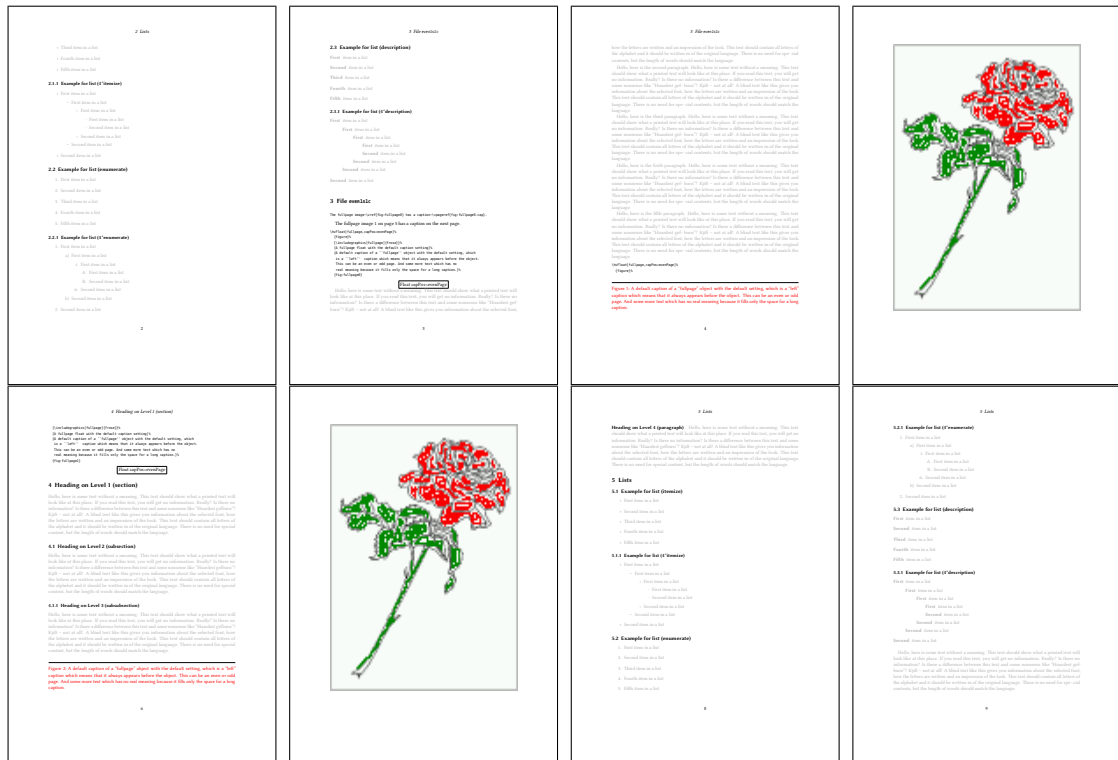


Figure 36: Output of even1s1c (pages 2–9)

17.1.4 Using capPos=oddPage — caption on an odd page

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

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

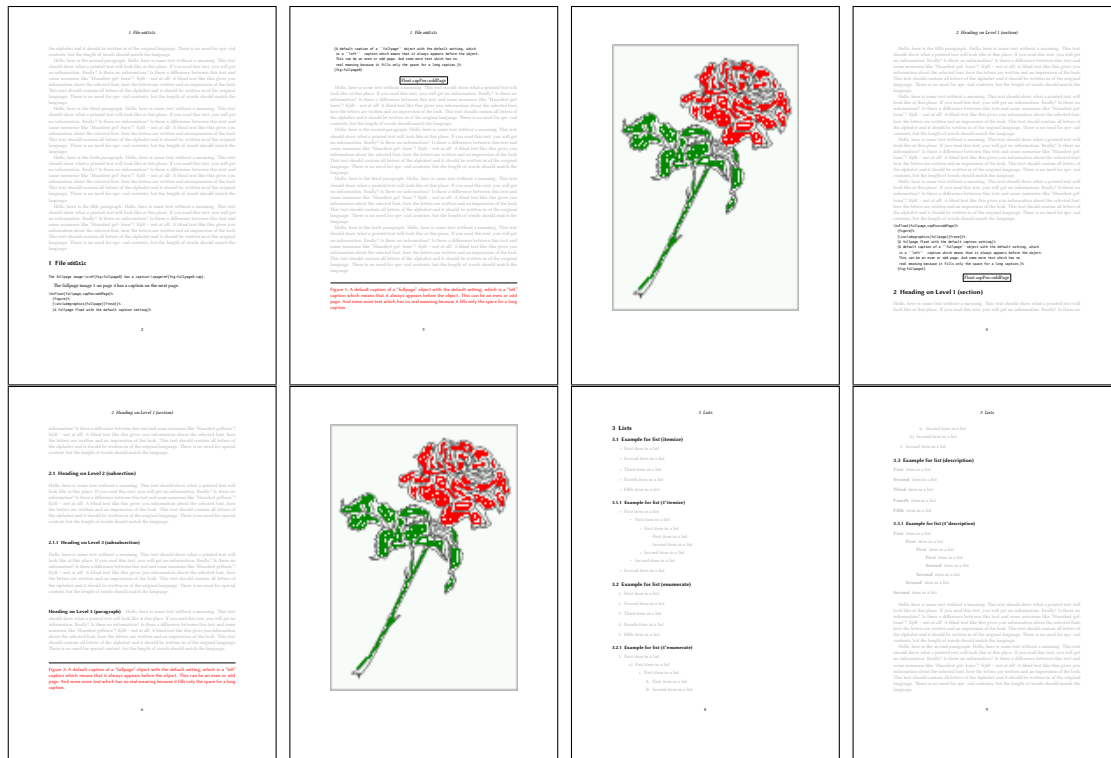


Figure 37: Output of odd1s1c (pages 2-9)

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

These settings make no sense in onecolumn mode.

17.2 Using the paper size

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

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

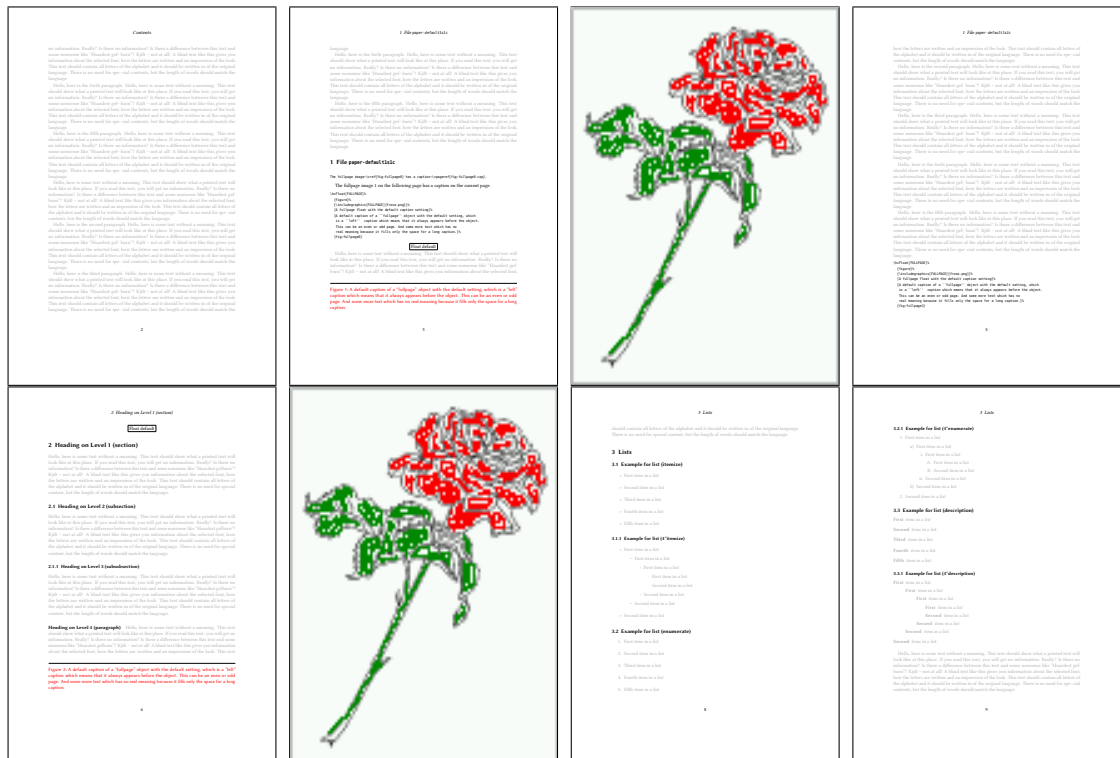


Figure 38: Output of paper-default1s1c (pages 2–9)

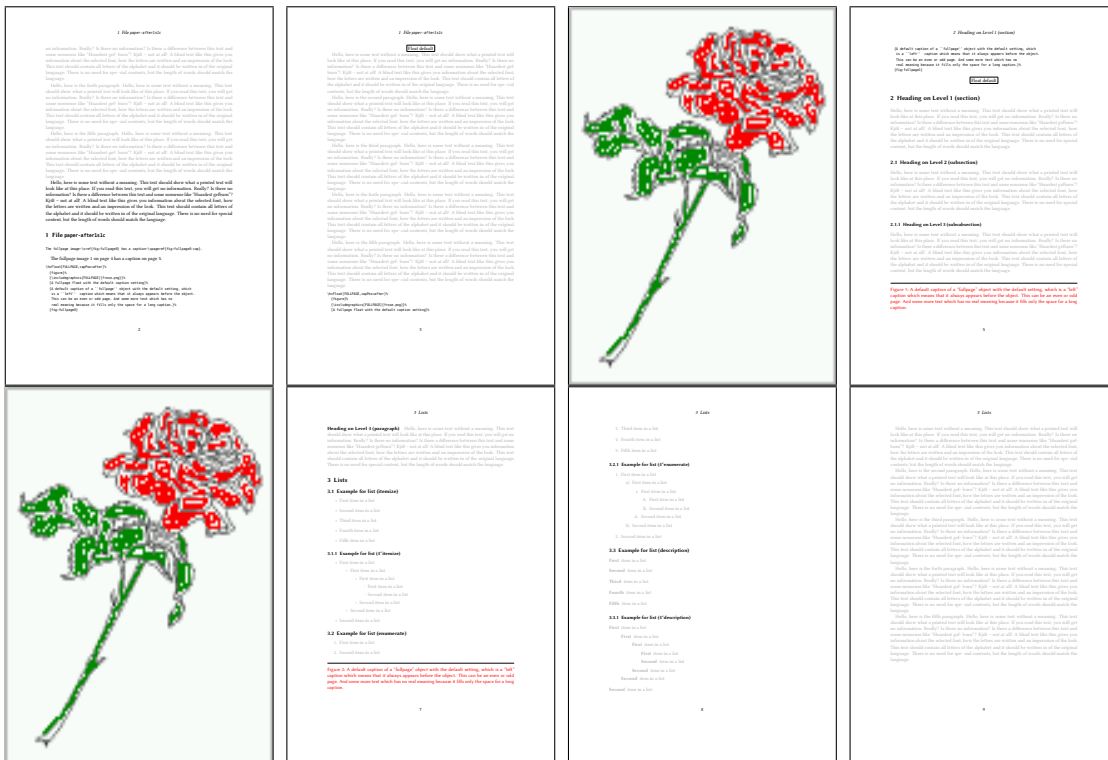


Figure 39: Output of paper-after1s1c (pages 2-9)

17.3 Multifloats

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

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

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

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

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

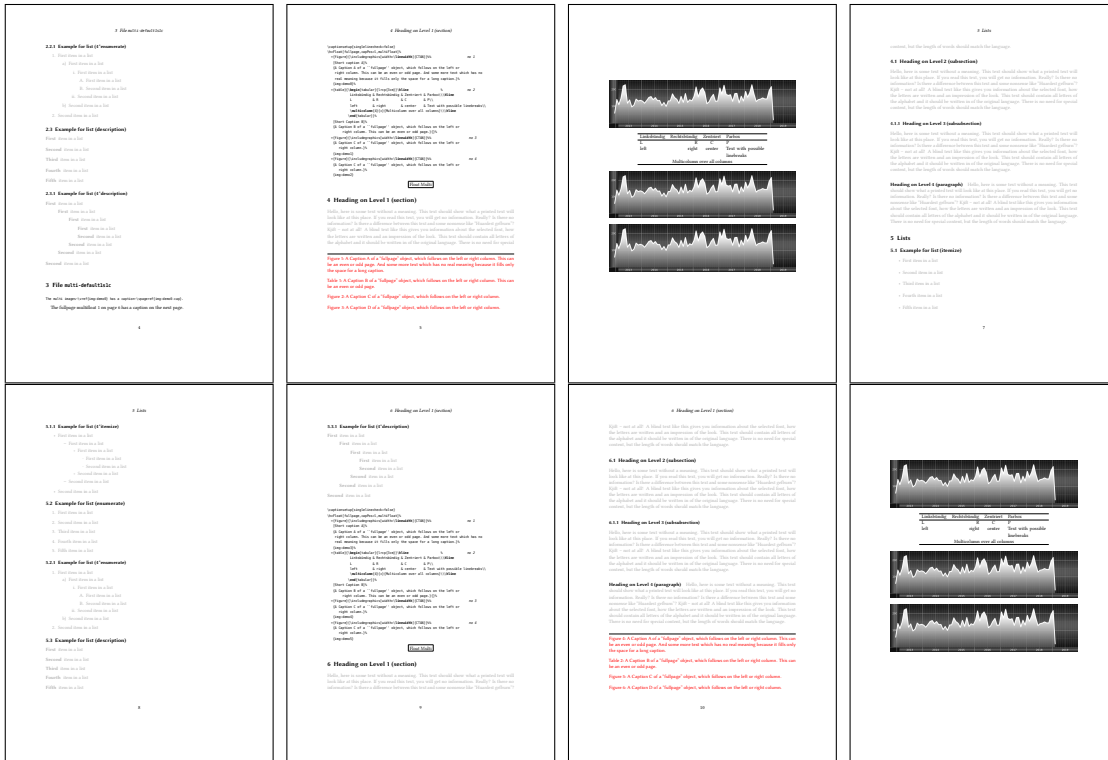


Figure 40: Output of multi-default1s1c (pages 4-11)

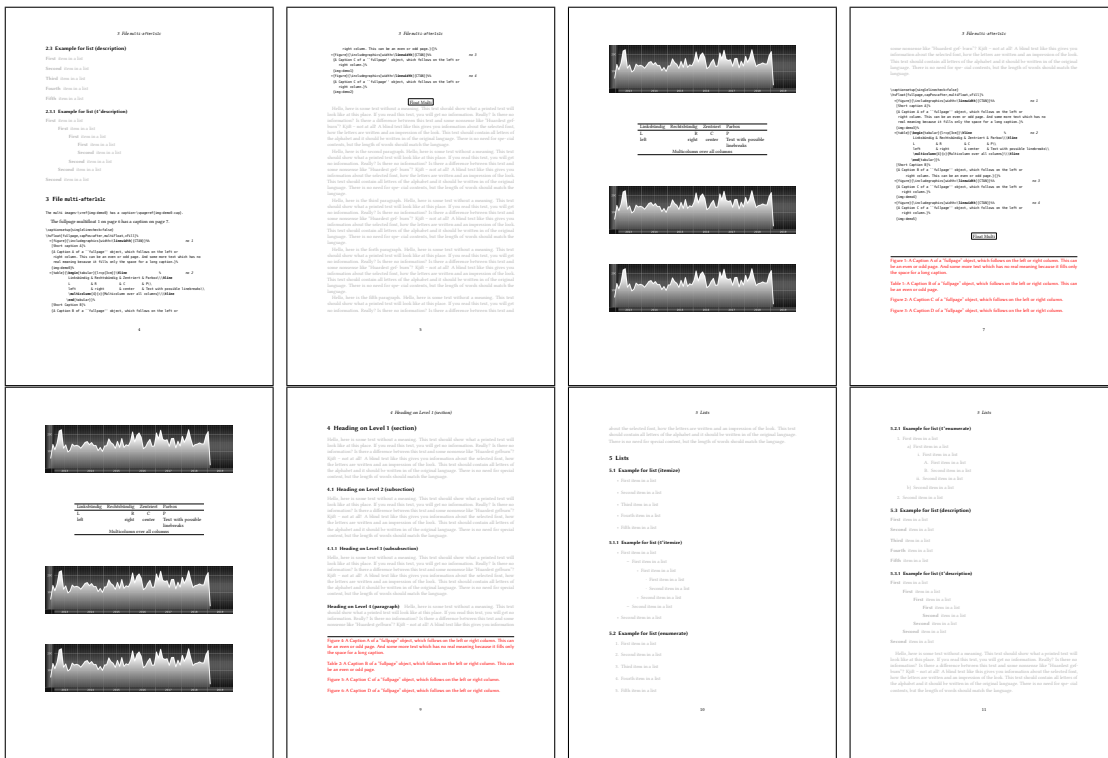


Figure 41: Output of multi-after1s1c (pages 4-11)

18 Subfloat page

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

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

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

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

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

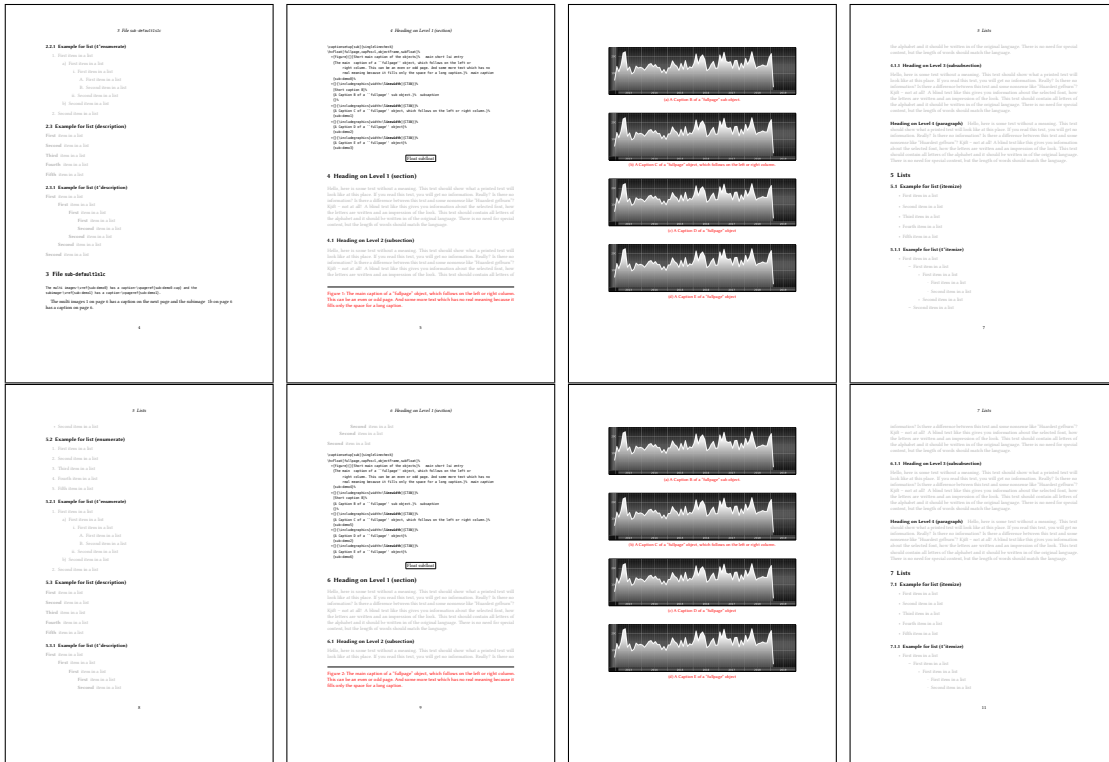


Figure 42: Output of sub-default1s1c (pages 4–11)

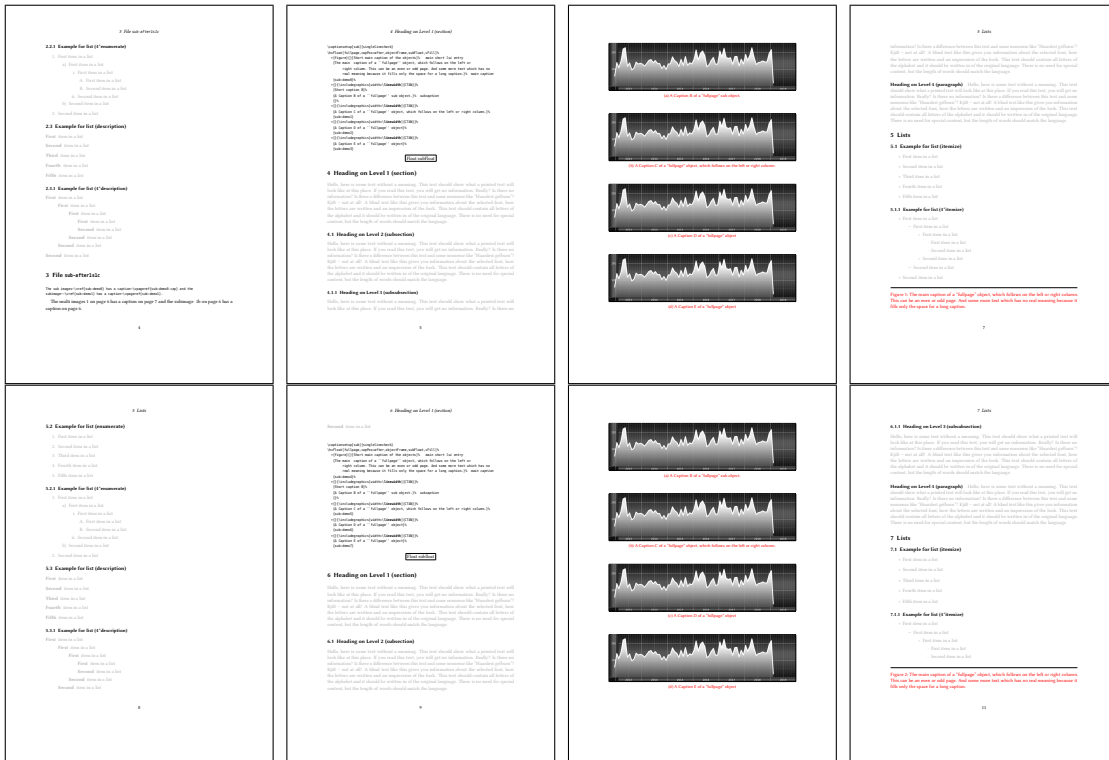


Figure 43: Output of sub-after1s1c (pages 4–11)

19 Full page objects in twocolumn mode

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

19.1 Default setting

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

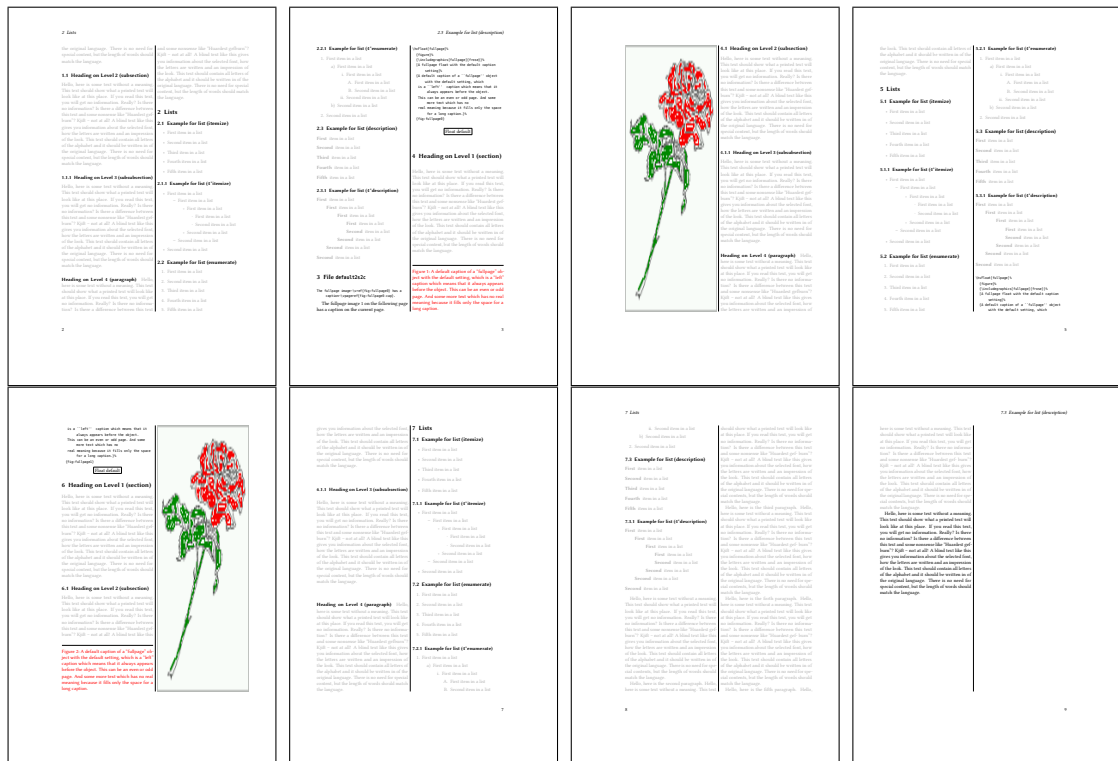


Figure 44: Output of default2s2c (pages 2–9)

```

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

```

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

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

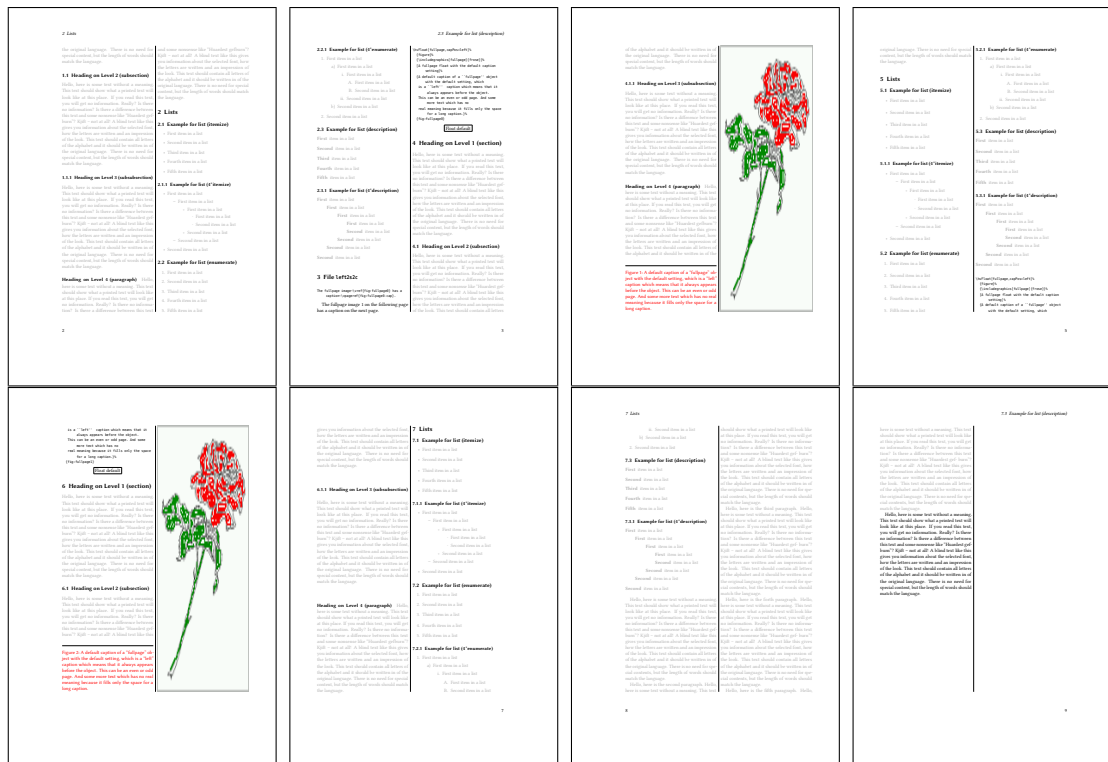


Figure 45: Output of left2s2c (pages 2-9)

19.1.1 Using capPos=after

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

```

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

```

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

19 Full page objects in twocolumn mode

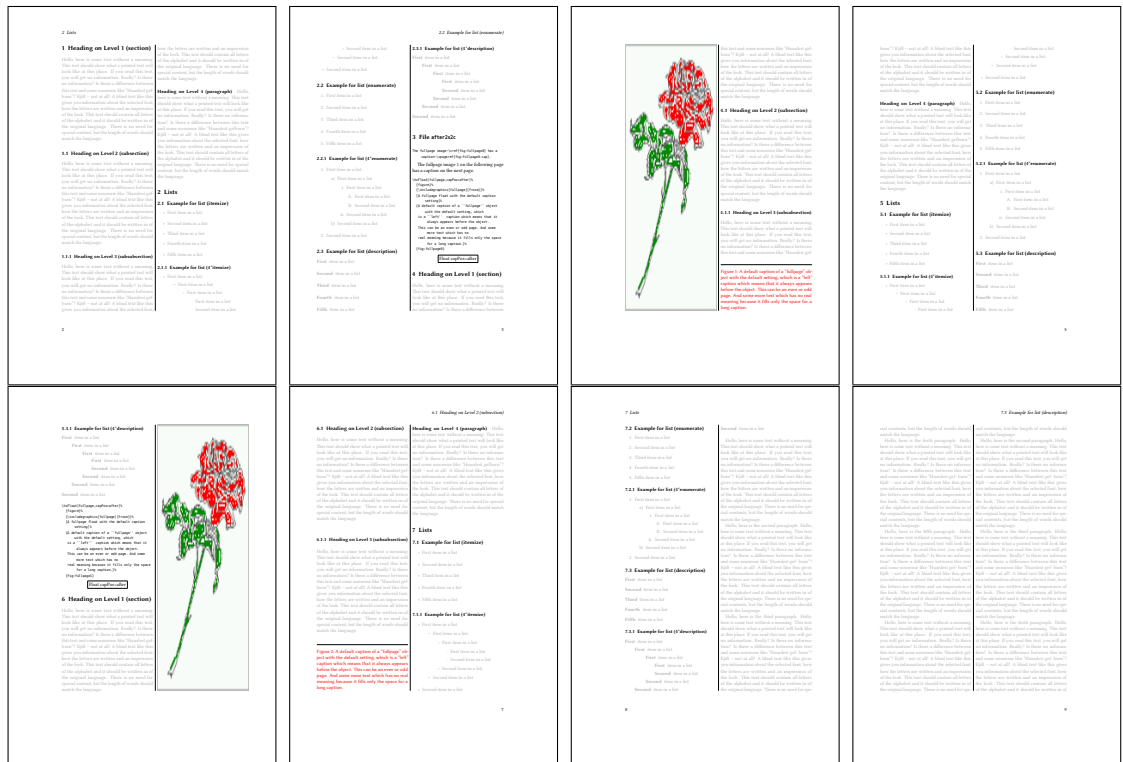


Figure 46: Output of after2s2c (pages 2–9)

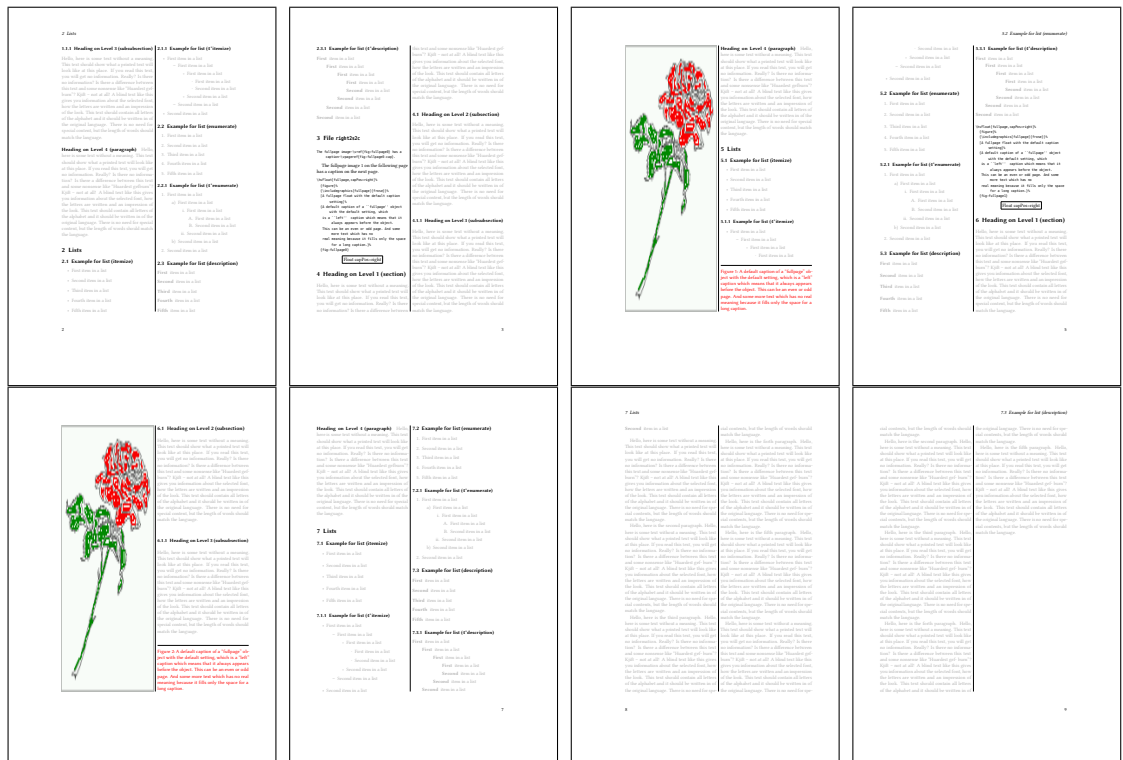


Figure 47: Output of right2s2c (pages 2–9)

19.1.2 Using capPos=evenPage — caption on an even page

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

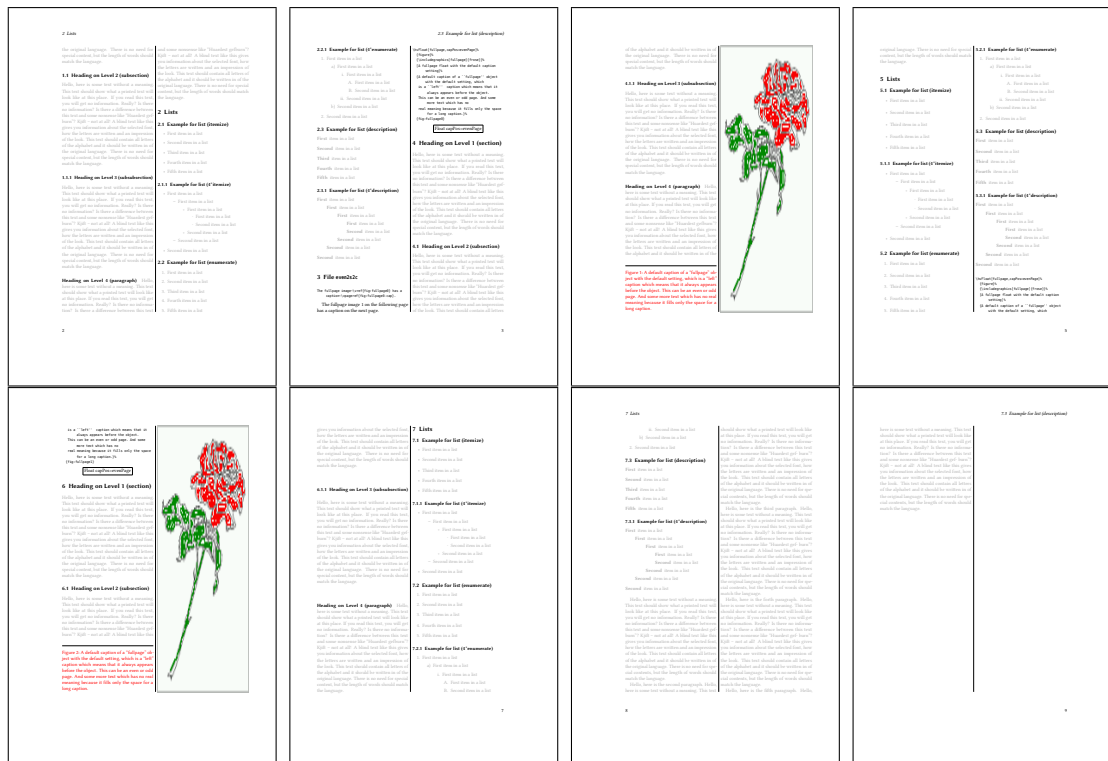


Figure 48: Output of even2s2c (pages 2–9)

19.1.3 Using capPos=oddPage — caption on an odd page

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

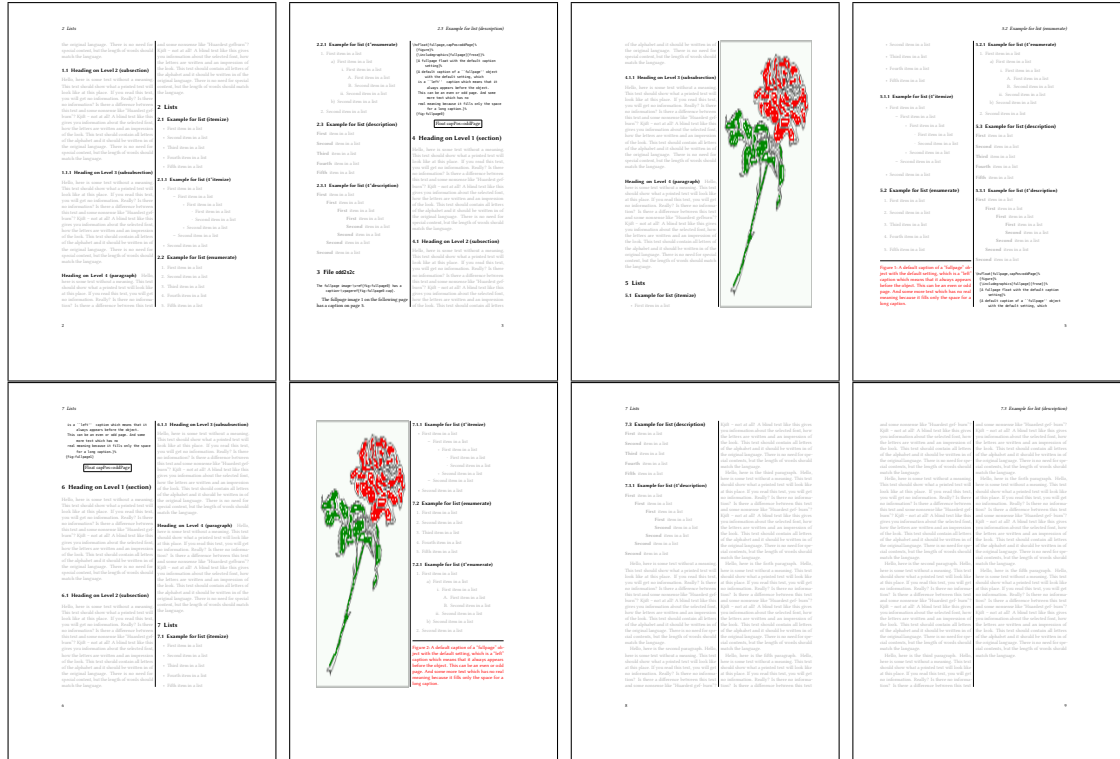


Figure 49: Output of odd2s2c (pages 2–9)

19.1.4 Using capPos=inner — caption in the inner column

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

```

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

```

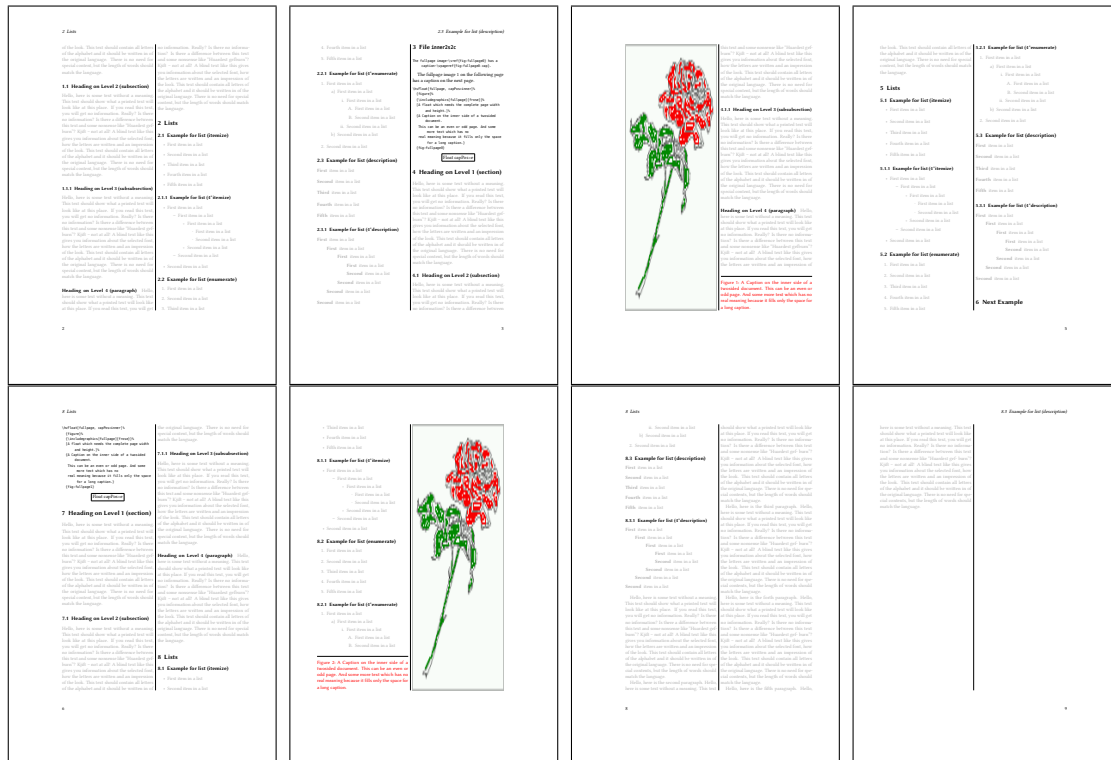


Figure 50: Output of inner2s2c (pages 2–9)

19 Full page objects in twocolumn mode

19.1.5 Using capPos=outer — caption on the outer column

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

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

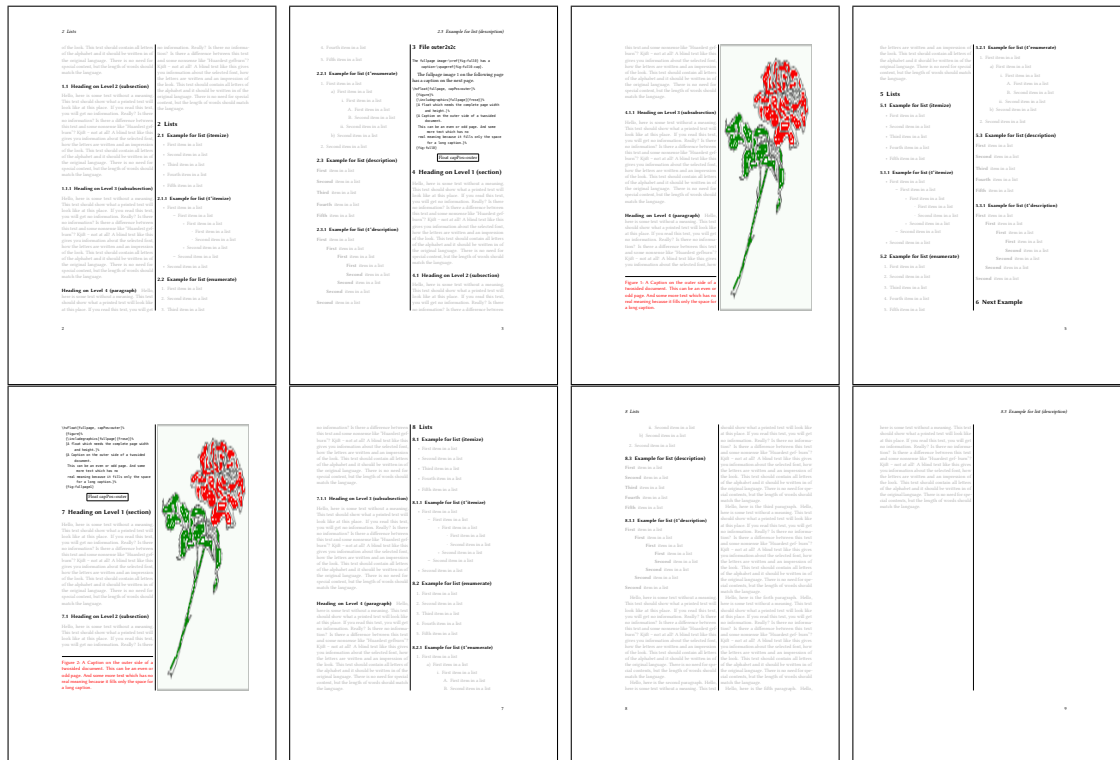


Figure 51: Output of outer2s2c (pages 2–9)

19.2 Using full page in twocolumn mode

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

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

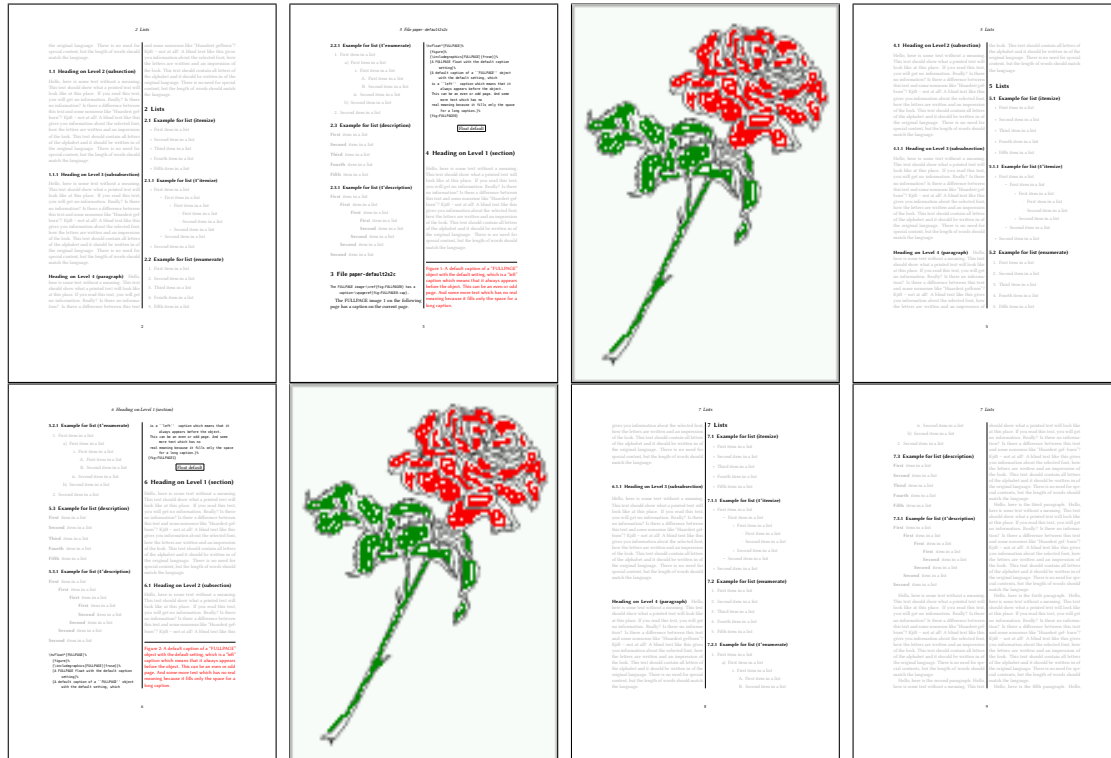


Figure 52: Output of paper-default2s2c (pages 2–9)

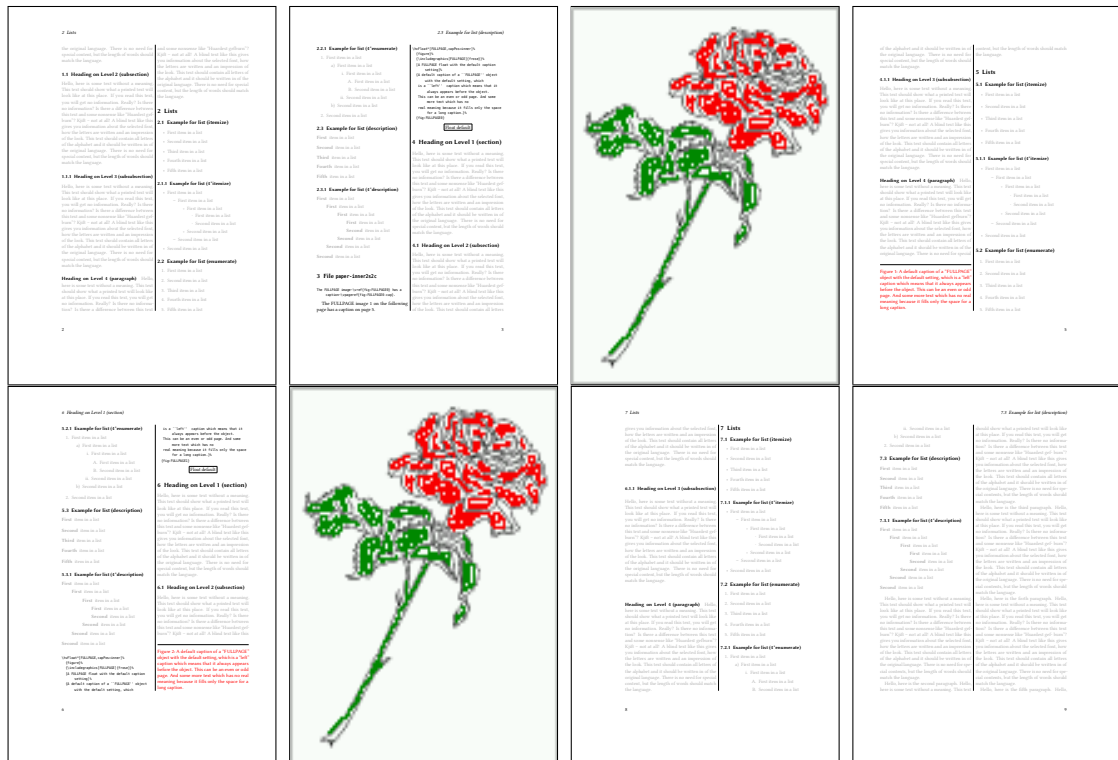


Figure 53: Output of paper-inner2s2c (pages 2–9)

19.3 Multifloats

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

```

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

```

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

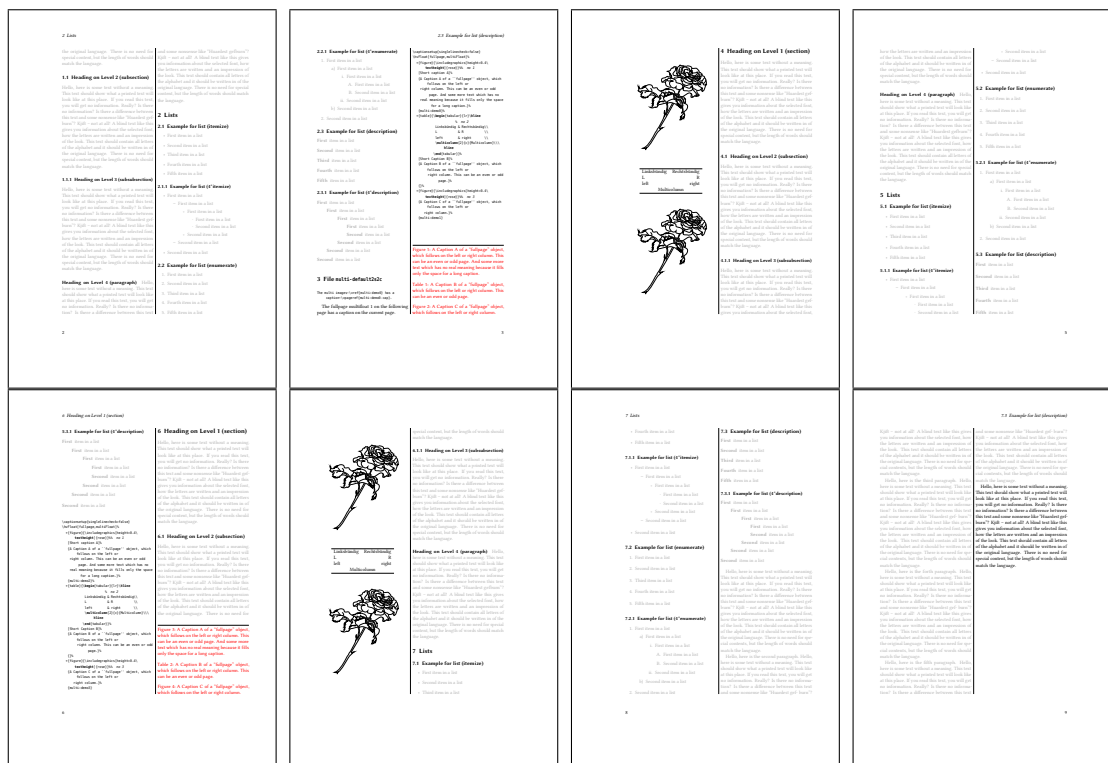


Figure 54: Output of multi-default2s2c (pages 2-9)

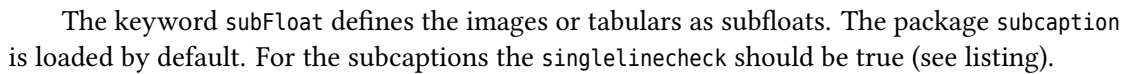
20 Subfloat page

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

```

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

```



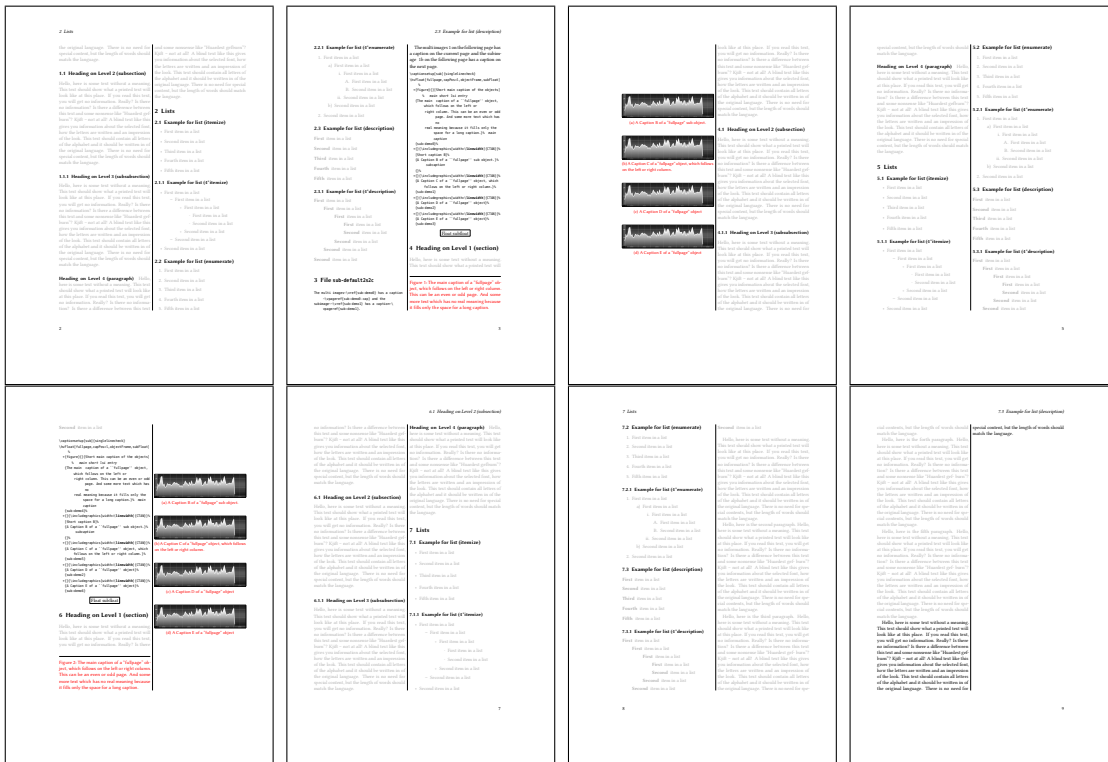


Figure 56: Output of sub-default2s2c (pages 2–9)

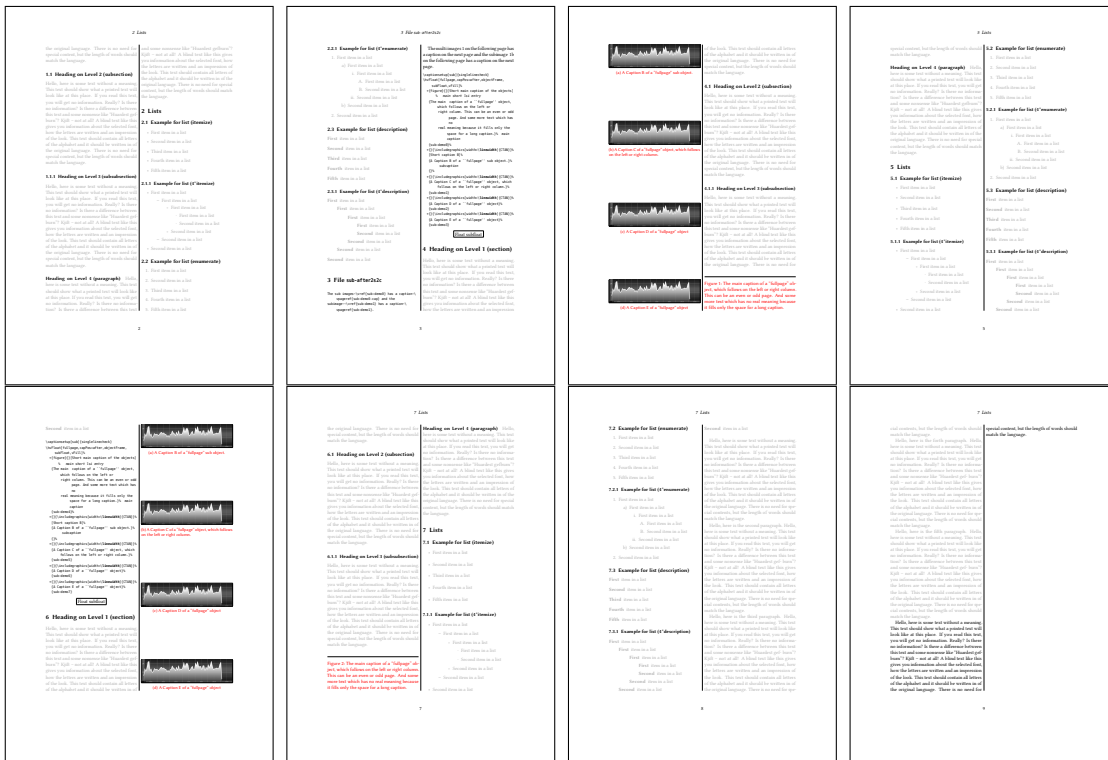


Figure 57: Output of sub-after2s2c (pages 2–9)

21 Doublepage objects – images and/or tabulars

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

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

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

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

21.1 doubleFULLPAGE

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

```

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

```

Fig. 58

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

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

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

```

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

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Fig. 59

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

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

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Fig. 60





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

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

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

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

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

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Fig. 61





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

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

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Fig. 62

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





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21.2 doublePAGE

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

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

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Fig. 63

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Hello, here is some text without a meaning. This text should show what a printed text





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

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21.3 doublePage

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

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

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

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

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Fig. 65

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

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1 \hvFloat[doublePage,bindCorr=inner]%
2 {figure}%
3 {\includegraphics[width=2\textwidth]{images/sonne-meer}}%
4 [A doublepage image with a caption on the right side of the right part.]%
5 {A caption for a double-sided image that will be placed on the right side of the
6 right-hand part of the illustration. The illustration begins on the left edge of
7 the paper. A short form is used for the LÖF.
8 The parameter is \texttt{doublePage}}%
9 {fig:doublePage0sH2}

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Fig. 66

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

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21.4 Tabulars

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

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

```

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

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

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

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

words should match the language.

22 References to the page

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

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

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

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

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

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

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

23 Defining a style

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

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

For example:

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



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

24 Global float setting

Instead of writing the following sequence into the preamble:

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

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

```
\usepackage[figure=tb,table=t]{hvfloa-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 68: A Caption of a “fullpage” object, which follows on the next page. This can be an even or odd page. The object uses the complete paper dimensions



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25 The Package Source

```
1 %% $Id: hvfloat.sty 584 2022-07-20 18:29:58Z herbert $
2 %%
3 %%
4 %% IMPORTANT NOTICE:
5 %%
6 %% This is file `hvfloat.sty',
7 %%
8 %% Herbert Voss <hvoss@tug.org>
9 %% Copyright (C) 2003-22
10 %%
11 %% This program can be redistributed and/or modified under the terms
12 %% of the LaTeX Project Public License Distributed from CTAN archives
13 %% in directory macros/latex/base/lppl.txt.
14 %%
15 %% DESCRIPTION:
16 %% `hvfloat' offers rotating of captions and objects for floats
17 %%
18 \NeedsTeXFormat{LaTeX2e}
19 \def\fileversion{2.41}
20 \def\filedate{2022/09/01}
21 \ProvidesPackage{hvfloat}[\filedate\space v\fileversion\space special floating objects (hv)]
22 \let\hvFloatFileVersion\fileversion
23 %
24 \newif\ifhv@fbox \hv@fboxfalse
25 \newif\ifhv@hyperref \hv@hyperreffalse
26 \newif\ifhv@nostfloats \hv@nostfloatsfalse
27 \newif\ifhv@tugboat \hv@tugboatfalse
28
29 \DeclareOption{fbox}{\hv@fboxtrue\setlength{\fboxsep}{1pt}}
30 \DeclareOption{hyperref}{\hv@hyperreftrue}
31 \DeclareOption{nostfloats}{\hv@nostfloatstrue}
32 \DeclareOption{no-stfloats}{\hv@nostfloatstrue}
33
34 \ProcessOptions
35
36
37 \PassOptionsToPackage{hypcap}{caption}
38 \RequirePackage{caption}
39 \RequirePackage{varwidth}
40 \DeclareCaptionBox{varwidth}{\varwidth[b]{#1}#2\endvarwidth}
41
42 \PassOptionsToPackage{hypcap}{subcaption}
43 \RequirePackage{subcaption}
44 \RequirePackage{atbegshi}
45 \RequirePackage{picture,trimclip}
46
47 \RequirePackage{expl3,multido}
48 \RequirePackage{graphicx}
49 \RequirePackage{varwidth}
50
51 \RequirePackage{xkeyval}
52 \RequirePackage{ifoddpage}
53 \RequirePackage{afterpage}
54
55 \ifhv@hyperref
56   \RequirePackage{hyperref}
57 \fi
58
59 \ifhv@nostfloats
60   \else
61     \RequirePackage{stfloats}% for bottom floats in a twocolumn mode
62     % \RequirePackage{floatpag}% for bottom floats in a twocolumn mode
63   \fi
64 %
```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

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

```

```

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

```

```

1058 \fi
1059 \or% caption on the outer column 5->outer
1060 % \set@caption@object
1061 \if@twocolumn
1062 \ifoddpage
1063 \if@firstcolumn
1064 \afterpage{\afterpage{\setBottomCaption\setPageObject}}%
1065 \else
1066 \afterpage{\setBottomCaption\setPageObject}%
1067 \fi
1068 \else% even page (left)
1069 \if@firstcolumn
1070 \setBottomCaption\setPageObject
1071 \else
1072 %%% !!!! to-do: !!!!
1073 \fi
1074 \fi
1075 \else% onecolumn
1076 \setBottomCaption\setPageObject
1077 \fi
1078 \or% caption after object on same page 6->right for twocolumn
1079 \if@twocolumn
1080 \if@firstcolumn
1081 \afterpage{\setPageObject\setBottomCaption}%
1082 \else
1083 \setPageObject\setBottomCaption
1084 \fi
1085 \else% always caption _after_ object for onecolumn
1086 \setPageObject\setBottomCaption
1087 \fi
1088 \or% caption before object on same page 7->left for twocolumn
1089 \if@twocolumn
1090 \if@firstcolumn
1091 \setBottomCaption\setPageObject
1092 \else
1093 \afterpage{\setBottomCaption\setPageObject}%
1094 \fi
1095 \else% onecolumn -> same as before
1096 \setBottomCaption\setPageObject
1097 \fi
1098 \fi
1099 \endgroup% startet at main \hvFloat
1100 }
1101 %
1102
1103
1104 %% ----- the doublepage obejcts -----
1105 %% ||lin+evenside --- |lin+oddside ---||
1106 %
1107 \def\do@hvFloat@doublePage#1{% image on left and right page with caption on the right page
1108 % #1-> 0/1 caption under/right
1109 \hv@typeout{>>>doublePage: start with definitions of \hv@floatObject}%
1110 \global\hv@leftPageObjectWidth=\the\dimexpr\paperwidth-\lin-\evensidemargin-\hvSet@bindCorrection\relax
1111 \global\hv@tempWidthA=\the\dimexprlin+\oddsidemargin-\hvSet@bindCorrection\relax
1112 \xdef\hv@caption@format@temp{\hv@caption@format}% it gets lost otherwise for next afterpage
1113 \@dblfpbot=0\p@ \@plus 1fil%
1114 \global\hv@switchTypefalse
1115 \setcounter{hv@tempCNTfigA}{\value{figure}}%
1116 \setcounter{hv@tempCNTfigB}{\value{figure}}%
1117 \setcounter{hv@tempCNTtabA}{\value{table}}%
1118 \setcounter{hv@tempCNTtabB}{\value{table}}%
1119 \savebox\hvCaptionBox{% NO rotation
1120 \minipage{\textwidth}% minipage, to get hyphenation
1121 \let\@capttype\hv@floatType
1122 \caption*{\hv@longCap}%
1123 \endminipage}%
1124 \savebox\hvObjectBox{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%

```

```

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

```

```

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

```

```

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

```

```

1319   \hvSet@bindCorrection}%
1320   \expandafter\global\expandafter\savebox\expandafter\hvObjectBox\expandafter{\ifhv@use0Box\usebox{\hv0Box
    }\else\hv@floatObject\fi}%
1321   \expandafter\global\expandafter\savebox\expandafter\hv@boxLeftPage\expandafter{\clipbox*{0 -\depth} \
    hv@leftPageObjectWidth{ } \height}{\usebox\hvObjectBox}}%
1322   \expandafter\global\expandafter\savebox\expandafter\hv@boxRightPage\expandafter{\clipbox*{\
    hv@leftPageObjectWidth{ } -\depth{ } \width{ } \height}{\usebox\hvObjectBox}}%
1323   \checkoddpage
1324   \ifoddpage
1325     \hv@typeout{do@hvFloat@doublePAGE: oddpage}%
1326     \if@twocolumn
1327       \if@firstcolumn
1328         \hv@typeout{do@hvFloat@doublePAGE: ifoddpage->twocolumn->firstcolumn}%
1329         \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1330       \else
1331         \hv@typeout{do@hvFloat@doublePAGE: ifoddpage->twocolumn->secondcolumn}%
1332         \do@hvFloat@doublePAGECaptionRight{#1}%
1333       \fi
1334     \else
1335       \do@hvFloat@doublePAGECaptionRight{#1}%
1336     \fi
1337   \else
1338     \hv@typeout{do@hvFloat@doublePAGE: evenpage}%
1339     \if@twocolumn
1340       \if@firstcolumn
1341         \afterpage{\afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}}%
1342       \else
1343         \afterpage{\afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}}%
1344       \fi
1345     \else
1346       \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%   onecolumn/left page
1347     \fi
1348   \fi
1349   \endgroup% startet at main macro
1350 }
1351 %
1352 \def\do@hvFloat@doublePAGECaptionRight#1%   image on left and right page with caption on the right
1353 -----
1354 % #1-> 0/1 caption under/right
1355 \hv@typeout{do@hvFloat@doublePAGECaptionRight->start}%
1356 \afterpage{%
1357   \hfuzz=\maxdimen
1358   \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1359   \ifhv@use0Box
1360     \global\let\hvObjectBox\hv0Box
1361   \else
1362     \global\savebox\hvObjectBox{\hv@floatObject}%
1363   \fi
1364   \noindent
1365   \global\hv@tempWidthA=\the\dimexprlin+\oddsidemargin-\hvSet@bindCorrection%
1366   \global\hv@leftPageObjectWidth=\the\dimexpr\paperwidth-lin-\evensidemargin-\hvSet@bindCorrection%
1367   \clipbox*{0 -\depth{ } \hv@leftPageObjectWidth{ } \height}{\usebox\hvObjectBox}%
1368   \null\newpage\if@twocolumn\newpage\fi
1369   \expandafter\global\expandafter\savebox\expandafter\hvObjectBox\expandafter{\ifhv@use0Box\usebox{\
    hv0Box}\else\hv@floatObject\fi}%
1370   \noindent
1371   \hspace*{\dimexpr-\hv@tempWidthA}%
1372   \clipbox*{\the\hv@leftPageObjectWidth{ } -\depth{ } \width{ } \height}{\usebox\hvObjectBox}%
1373   \begingroup
1374     \ifnum#1>0
1375       \medskip
1376       \ifdim\dp\hvObjectBox > \z@
1377         \rotatebox[origin=c]{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1378           \ifx\relax\hv@shortCap\relax
1379             \captionof{\hv@floatType}{\hv@longCap}%
1380           \else
1381             \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1382           \fi
1383         }}%
1384       \else
1385         \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1386       \fi
1387     \else
1388       \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1389     \fi
1390   \endgroup

```



```

1380         \fi
1381     }}%
1382     \ifx\hv@label\@empty\else\label{\hv@label}\fi
1383 \else
1384     \rotatebox{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1385         \ifx\relax\hv@shortCap\relax
1386             \captionof{\hv@floatType}{\hv@longCap}%
1387         \else
1388             \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1389         \fi
1390     }}%
1391     \ifx\hv@label\@empty\else\label{\hv@label}\fi
1392 \fi
1393 \else% caption not rotated
1394     \par\noindent
1395     \parbox{\textwidth}{%
1396         \ifx\relax\hv@shortCap\relax
1397             \captionof{\hv@floatType}{\hv@longCap}%
1398         \else
1399             \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1400         \fi
1401         \ifx\hv@label\@empty\else\label{\hv@label}\fi
1402     }%
1403 \fi
1404 \endgroup
1405 \newpage\if@twocolumn\newpage\fi
1406 }%
1407 }
1408 %
1409 %% ||lin+evenside --- |lin+oddside ---||
1410 %
1411 \def\do@hvFloat@doubleFULLPAGE#1{% image on left and right page with caption before/below/right/after
1412 % #1-> 0/1 caption under/right
1413 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1414 \ifx\hvSet@capPos\hv@After \global\hv@capPos=1
1415 \else
1416     \ifx\hvSet@capPos\hv@Before \global\hv@capPos=0
1417     \else
1418         \global\hv@capPos=2 % other caption type
1419     \fi\fi
1420 \checkoddpage
1421 \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1422 \global\hv@tempWidthA=\dimexpr-\oddsidemargin-lin-\parindent+\hvSet@bindCorrection% the width of the
1423 right side offset
1424 \global\hv@tempWidthB=\dimexpr\ht\hvCaptionBox+\wd\hvObjectBox+2\hvSet@bindCorrection%
1425 \global\hv@leftPageObjectWidth=\dimexpr\paperwidth-\hvSet@bindCorrection%
1426 % \savebox\hv@leftBox{\clipbox*{0 0 \the\hv@leftPageObjectWidth}{ \height}{\usebox\hvObjectBox}}%
1427 % \savebox\hv@rightBox{\clipbox*{\the\hv@leftPageObjectWidth}{ \depth}{ \width}{ \height}{\usebox\hvObjectBox}}%
1428 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1429 \ifoddpage
1430     \hv@typeout{do@hvFloat@doubleFULLPAGE: ifoddpage=true}%
1431     \ifcase\hv@capPos % =0 Caption before
1432         \hv@typeout{do@hvFloat@doubleFULLPAGE: caption before}%
1433         \if@twocolumn
1434             \hv@typeout{do@hvFloat@doubleFULLPAGE: twocolumn=true}%
1435             \if@firstcolumn
1436                 \hv@typeout{do@hvFloat@doubleFULLPAGE: firstcolumn=true}%
1437                 \ifhv@twoColumnCaption
1438                     \hv@typeout{do@hvFloat@doubleFULLPAGE: twoColumnCaption=true}%
1439                     \set@Normal@Bottom@Caption*
1440                     \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1441                 \else
1442                     \afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1443                 \fi
1444             \else% if@firstcolumn
1445                 \set@Normal@Bottom@Caption

```

```

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

```

```

1510         \else
1511         \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter{#1}}}%
1512         \fi
1513     \fi
1514     \else% \if@twocolumn
1515     \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter}%
1516     \fi
1517     \else% \ifcase Any other caption
1518     \if@twocolumn
1519     \if@firstcolumn
1520     \afterpage{\afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}}}%
1521     \else
1522     \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}}%
1523     \fi
1524     \else
1525     \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}%
1526     \fi
1527     \fi% \ifcase
1528     \fi% main ifoddpge
1529     \endgroup% started at main macro \hvFloat
1530 }
1531
1532 \def\set@Normal@Bottom@Caption{\@ifnextchar*\set@Normal@Bottom@CaptionStar\set@Normal@Bottom@Caption@}
1533 \def\set@Normal@Bottom@Caption@{%
1534     \begin{\hv@floatType}[!b]
1535     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1536     \ifhv@separatorLine\drawSepLine\fi
1537     % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1538     \ifhv@onlyText
1539     \hv@longCap
1540     \else
1541     \ifx\hv@shortCap\@empty
1542     \captionof{\hv@floatType}{\hv@longCap}%
1543     \else
1544     \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1545     \fi
1546     \fi
1547     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1548     \end{\hv@floatType}%
1549 }
1550 \def\set@Normal@Bottom@CaptionStar*{%
1551     \begin{\hv@floatType*}[!b]
1552     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1553     \ifhv@separatorLine\drawSepLine\fi
1554     % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1555     \ifhv@onlyText
1556     \hv@longCap
1557     \else
1558     \ifx\hv@shortCap\@empty
1559     \captionof{\hv@floatType}{\hv@longCap}%
1560     \else
1561     \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1562     \fi
1563     \fi
1564     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1565     \end{\hv@floatType*}%
1566 }
1567
1568 \def\do@hvFloat@doubleFULLPAGE@CaptionBefore{%
1569     \afterpage{%
1570         \hfuzz=\maxdimen
1571         \global\savebox{\hv@objectBox}{\ifhv@use0Box\usebox{\hv@0Box}\else\hv@floatObject\fi}%
1572         \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\lineskip
1573             }% no interlineskip
1574         \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1575         \thispagestyle{empty}%
1576         \ifx\hv@floatType\hv@figure

```

```

1576 \global\refstepcounter{hv@tempCNTfigB}%
1577 \else
1578 \global\refstepcounter{hv@tempCNTtabB}% before caption
1579 \fi
1580 \expandafter\label\expandafter{\hv@label}%
1581 \clipbox*{0 0 \the\hv@leftPageObjectWidth{} \height}{\usebox\hvObjectBox}%
1582 \afterpage{%
1583 \if@twocolumn\newpage\null\newpage\fi
1584 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1585 \thispagestyle{empty}%
1586 \vspace*{\the\dimexpr-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\lineskip}%
-0.5\paperheight+0.5\ht\hvObjectBox
1587 \hspace*{\hv@tempWidthA}%
1588 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1589 \clipbox*{\the\hv@leftPageObjectWidth{} \dp\hvObjectBox{} \wd\hvObjectBox{} \ht\hvObjectBox}{\usebox\hvObjectBox}%
1590 \ifx\hv@floatType\hv@figure
1591 \global\refstepcounter{hv@tempCNTfigA}%
1592 \else
1593 \global\refstepcounter{hv@tempCNTtabA}% before caption
1594 \fi
1595 \expandafter\label\expandafter{\hv@label-2}%
1596 \newpage\if@twocolumn\null\newpage\fi
1597 }%
1598 }
1599
1600 \newif\ifhv@temp
1601
1602 \def\do@hvFloat@doubleFULLPAGE@CaptionAfter{%
1603 \afterpage{%
1604 \hfuzz=\maxdimen
1605 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1606 \vspace*{\the\dimexpr-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\lineskip}%
no interlineskip
1607 \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1608 \thispagestyle{empty}%
1609 \clipbox*{0 \the\dp\hvObjectBox{} \the\hv@leftPageObjectWidth{} \the\ht\hvObjectBox}{\usebox\hvObjectBox}%
1610 \ifx\hv@floatType\hv@figure
1611 \refstepcounter{hv@tempCNTfigA}%
1612 \else
1613 \refstepcounter{hv@tempCNTtabA}% before caption
1614 \fi
1615 \ifx\hv@label\@empty\else\label{\hv@label}\fi
1616 \newpage\if@twocolumn\null\newpage\fi
1617 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1618 \thispagestyle{empty}%
1619 \vspace*{\the\dimexpr-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\lineskip}%
-0.5\paperheight+0.5\ht\hvObjectBox
1620 \hspace*{\hv@tempWidthA}%
1621 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1622 \clipbox*{\the\hv@leftPageObjectWidth{} \dp\hvObjectBox{} \wd\hvObjectBox{} \ht\hvObjectBox}{\usebox\hvObjectBox}%
1623 \ifx\hv@floatType\hv@figure
1624 \refstepcounter{hv@tempCNTfigB}%
1625 \else
1626 \refstepcounter{hv@tempCNTtabB}% before caption
1627 \fi
1628 \expandafter\label\expandafter{\hv@label-2}%
1629 \newpage\if@twocolumn\null\newpage\fi
1630 \begin{\hv@floatType}[!b]
1631 \ifhv@separatorLine\drawSepLine\fi
1632 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1633 \ifhv@onlyText
1634 \hv@longCap
1635 \else
1636 \ifx\hv@shortCap\@empty

```

```

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

```

```

1700 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1701 \thispagestyle{empty}%
1702 \hfuzz=\maxdimen
1703 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1704 \clipbox*{0 \depth}{\hv@leftPageObjectWidth}{\height}{\usebox{\hvObjectBox}%
1705 \ifx\hv@floatType\hv@figure
1706 \refstepcounter{hv@tempCNTfigA}%
1707 \else
1708 \refstepcounter{hv@tempCNTtabA}% before caption
1709 \fi
1710 \label{\hv@label}%
1711 \afterpage{%
1712 \if@twocolumn\newpage\if@firstcolumn\else\newpage\fi\fi
1713 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1714 \thispagestyle{empty}%
1715 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\
lineskip}% -0.5\paperheight+0.5\ht\hvObjectBox
1716 \hspace*{\hv@tempWidthA}%
1717 \clipbox*{\hv@leftPageObjectWidth}{\dp\hvObjectBox}{\wd\hvObjectBox}{\ht\hvObjectBox}{\usebox\
hvObjectBox}%
1718 \ifx\hv@floatType\hv@figure
1719 \refstepcounter{hv@tempCNTfigB}%
1720 \else
1721 \refstepcounter{hv@tempCNTtabB}% before caption
1722 \fi
1723 \expandafter\label\expandafter{\hv@label-2}%
1724 \savebox\hvCaptionBox{\parbox{0.9\ht\hvObjectBox}{\captionof{\hv@floatType}{\hv@longCap}}}%
1725 \ifnum#1 > 0\relax % rotation with 90°
1726 % \setlength\hv@tempWidthB{\dimexpr\ht\hvCaptionBox+\wd\hvObjectBox+2\hvSet@bindCorrection}%
1727 \ifdim\hv@tempWidthB < 2\paperwidth
1728 \rotatebox[origin=lb]{90}{\makebox[\paperheight][c]{\parbox{0.8\ht\hvObjectBox}{%
1729 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1730 \ifhv@onlyText
1731 \hv@longCap
1732 \else
1733 \ifx\hv@shortCap\@empty
1734 \captionof{\hv@floatType}{\hv@longCap}%
1735 \else
1736 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1737 \fi
1738 \fi
1739 }}}% rotatebox
1740 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1741 \else% ifdim: no space left on page
1742 \put(-2\ht\hvCaptionBox,0.5\ht\hvObjectBox){\makebox(0,0){\rotatebox{90}{\minipage{\textwidth}\
centering
1743 \parbox{0.8\textwidth}{%
1744 \ifhv@onlyText
1745 \hv@longCap
1746 \else
1747 \ifx\hv@shortCap\@empty
1748 \captionof{\hv@floatType}{\hv@longCap}%
1749 \else
1750 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1751 \fi
1752 \fi
1753 }%
1754 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1755 \endminipage}}}%
1756 \fi
1757 \else% ifnum, caption not rotated, under or over the right page
1758 \hv@tempWidthA=\the\dimexpr\paperheight-\ht\hvObjectBox\relax
1759 \ifdim\hv@tempWidthA > \ht\hvCaptionBox
1760 \else
1761 \put(\the\dimexpr1.5\paperwidth-\wd\hvObjectBox-\hvSet@bindCorrection,\the\dimexpr\ht\
hvCaptionBox+\abovecaptionskip+\belowcaptionskip){\makebox[0pt][c]{\parbox{\textwidth}{%
1762 % \expandafter\captionsetup\expandafter{\hv@caption@format}%

```

```

1763 \ifhv@onlyText
1764 \hv@longCap
1765 \else
1766 \ifx\hv@shortCap\@empty
1767 \captionof{\hv@floatType}{\hv@longCap}%
1768 \else
1769 \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1770 \fi
1771 \fi
1772 }%
1773 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1774 \fi
1775 \fi end \ifnum#1>0
1776 \newpage\if@twocolumn\null\newpage\fi
1777 }%
1778 }%
1779 }
1780
1781
1782 \def\setBottomCaption{%
1783 \begin{\hv@floatType}[!b]%
1784 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1785 \ifhv@separatorLine\drawSepLine\fi
1786 \par
1787 \usebox\hvCaptionBox
1788 \end{\hv@floatType}%
1789 }
1790
1791 \def\setPageObject{%
1792 \ifhv@star
1793 \begin{\hv@floatType*}[p]%
1794 \else
1795 \begin{\hv@floatType}[p]%
1796 \fi
1797 \hv@tempcnt=\@floatpenalty% suppress "float too big" message
1798 \hfuzz=\maxdimen
1799 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1800 \ifhv@FULLPAGE
1801 \@floatpenalty=\z@% no message that float too large
1802 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep}%-0.5\baselineskip%
1803 \checkoddpage
1804 \if@twoside
1805 \ifoddpage
1806 \hspace*{\the\dimexpr-\oddsidemargin-\parindent-lin}%
1807 \else
1808 \hspace*{\the\dimexpr-\evensidemargin-\parindent-lin}%
1809 \fi
1810 \else
1811 \hspace*{\the\dimexpr-\oddsidemargin-\parindent-lin}%
1812 \fi
1813 \AtBeginShipoutNext{\thispagestyle{empty}}% to prevent heading/footer
1814 % \afterpage{\AddToHookNext{shipout/after}{\thispagestyle{empty}}}%
1815 \usebox\hvObjectBox
1816 \else
1817 \usebox\hvObjectBox
1818 \fi
1819 \ifhv@star
1820 \end{\hv@floatType*}%
1821 \else
1822 \end{\hv@floatType}%
1823 \fi
1824 \@floatpenalty=\hv@tempcnt% restore
1825 }
1826
1827 \ExplSyntaxOn
1828
1829 \def\getMultiCaptionAndLabel{%

```



```

1830 \global\sbox\hvCaptionBox{\minipage[b]{\linewidth}%
1831 \captionsetup{aboveskip=\z@,belowskip=\z@,position=below,parbox=none}%, skip=-1ex}%
1832 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1833 \parskip=-0.5\baselineskip
1834 \hv@cntb=\clist_count:N\l_clist_Type
1835 \advance\hv@cntb by \@ne
1836 \hv@cna=1
1837 \loop
1838 \edef\@captype{\clist_item:Nn\l_clist_Type{\hv@cna}}%
1839 \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{\hv@cna}}%
1840 \ifx\@tempa\@empty
1841 \caption{\clist_item:Nn\l_clist_Caption{\hv@cna}}%
1842 \else
1843 \expandafter\caption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{\hv@cna}}%
1844 \fi
1845 \edef\@tempa{\clist_item:Nn\l_clist_Label{\hv@cna}}%
1846 \ifx\@tempa\@empty
1847 \else
1848 \expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{\hv@cna}-cap}\fi
1849 \advance\hv@cna by \@ne
1850 \ifnum\hv@cna<\hv@cntb
1851 \repeat
1852 \vspace{-\baselineskip}% no vspace at the end
1853 \endminipage}%
1854 }
1855
1856 \def\getMultiObjectAndLabel{%
1857 \global\sbox\hvObjectBox{%
1858 \ifhv@vFill
1859 \minipage[b][\textheight][s]{\columnwidth}%
1860 \else
1861 \minipage{\columnwidth}%
1862 \fi
1863 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1864 \ifx\hvSet@objectPos\hv@Right\raggedleft\else
1865 \ifx\hvSet@objectPos\hv@Left\raggedleft\else
1866 \ifx\hvSet@objectPos\hv@Center\centering
1867 \fi\fi\fi
1868 \hv@cntb=\clist_count:N\l_clist_Type
1869 \advance\hv@cntb by \@ne
1870 \hv@cna=1
1871 \loop
1872 \def\@temp{\clist_item:Nn\l_clist_Object{\hv@cna}}%
1873 \ifhv@objectFrame\frame{\@temp}\else\@temp\fi
1874 \edef\@tempa{\clist_item:Nn\l_clist_Label{\hv@cna}}%
1875 \edef\@tempb{\clist_item:Nn\l_clist_Type{\hv@cna}}%
1876 \edef\@captype{\hv@p\@tempb}%
1877 \ifx\@tempa\@empty
1878 \else
1879 \refstepcounter{\@captype}%
1880 \expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{\hv@cna}}%
1881 \fi
1882 \ifnum\hv@cna<\clist_count:N\l_clist_Type\par\hv@vskip\fi
1883 \advance\hv@cna by \@ne
1884 \ifnum\hv@cna<\hv@cntb
1885 \ifhv@vFill\vfill\fi
1886 \repeat
1887 \endminipage}%
1888 }
1889 \def\getMultiSubCaptionAndLabel{%
1890 \global\sbox\hvCaptionBox{%
1891 \minipage{\linewidth}%
1892 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1893 \setlength\belowcaptionskip{5pt}%
1894 \setlength\abovecaptionskip{0pt}%
1895 \xdef\@captype{\clist_item:Nn\l_clist_Type{1}}% the same for all subfloats
1896 \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{1}}%

```

```

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

```

```

1964 \ExplSyntaxOff
1965
1966 \def\getSingleCaptionAndLabel{%
1967   \global\sbox\hvCaptionBox{\minipage{\linewidth}%
1968     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1969     \setlength\belowcaptionskip{5pt}%
1970     \setlength\abovecaptionskip{0pt}%
1971     \ifhv@onlyText
1972       \hv@longCap
1973     \else
1974       \edef\@capttype{\hv@floatType}%
1975       \expandafter\ifx\expandafter\relax\hv@shortCap\relax
1976         \caption{\hv@longCap}%
1977       \else
1978         \caption[\hv@shortCap]{\hv@longCap}%
1979       \fi
1980     \fi
1981     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1982   \endminipage}%
1983 }
1984
1985 \def\set@caption@object#1{% first caption, then object #1=\hv@floatType
1986   \ifhv@multiFloat
1987     \setcounter{hv@pfigure}{\value{figure}}%
1988     \setcounter{hv@ptable}{\value{table}}%
1989     \getMultiCaptionAndLabel
1990   \else
1991     \ifhv@subFloat
1992       \setcounter{hv@pfigure}{\value{figure}}%
1993       \setcounter{hv@ptable}{\value{table}}%
1994       \getMultiSubCaptionAndLabel
1995     \else
1996       \getSingleCaptionAndLabel
1997     \fi
1998   \fi
1999   \edef\@capttype{\hv@p#1}%
2000   \ifhv@multiFloat
2001     \getMultiObjectAndLabel
2002   \else
2003     \ifhv@subFloat
2004       \getMultiSubObjectAndLabel
2005     \else
2006       \global\sbox\hvObjectBox{%
2007         \refstepcounter{\@capttype}%
2008         \ifhv@objectFrame\frame{\hv@floatObject}\else\hv@floatObject\fi
2009         \expandafter\ifx\expandafter\relax\hv@label\relax
2010           \else
2011             \expandafter\label\expandafter{\hv@label}%
2012           \fi
2013       }%
2014     \fi
2015   \fi
2016 }
2017 %
2018 \endinput

```