

Package hvfloat

Controlling captions, fullpage and doublepage floats

ver 2.38

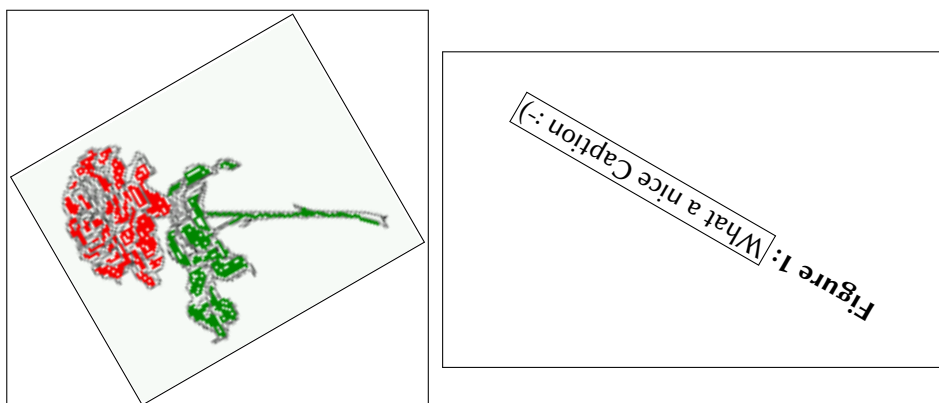
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The package hvfloat defines a macro to place objects and captions of floats in different positions with different rotating angles.

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

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



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1 The package options

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

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

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

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

2 The Macros and optional arguments

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

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

The star version is explained in section 11 on page 22 and 19.2 on page 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
\hvFloat	command	places object and caption in different ways
hvFloatEnv	environment	places object and caption exactly Here
\figcaption	command	writes a figure caption in a non floating environment
\tabcaption	command	writes a table caption in a non floating environment
\hvFloatSetDefaults	command	sets all options to the defaults
\hvDefFloatStyle	command	define a user style

```

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

```

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

4 Caption width

4.1 Default – natural width

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

```

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

```

Fig. 3

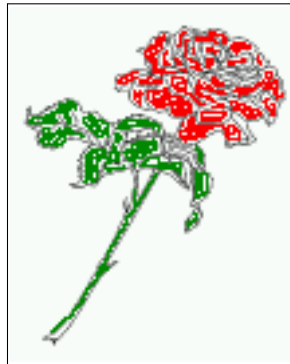


Figure 3: Default caption width setting, which is the natural width with respect to the current linewidth.

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

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

```

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

```

Fig. 4

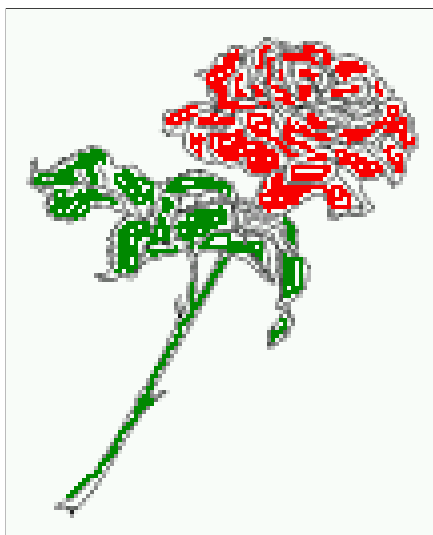


Figure 4: Caption right beside with a *natural* width, which is given by the width of the object, the separation between object and caption, and the current linewidth.

4.2 Relative linewidth

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

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

Fig. 5



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

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

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

Fig. 6



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

4.3 Identical object and caption width

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

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

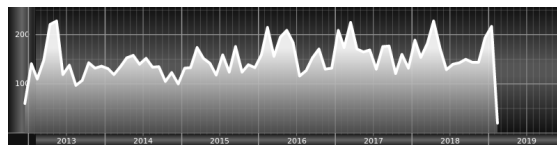


Figure 7: Caption below with a width of the given object which may be a problem if it is a very small object.

4.4 caption width to height of the object

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

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

Fig. 8

5 Caption left or right of the object

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

5.1 Caption right with specific length

Code for figure 9:



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

```

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

```



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

Fig. 9 float
capPos=right

5.2 Caption left and rotated

Code for figure 10:

```

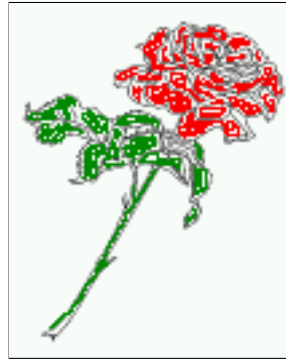
1 \hvFloat%
2   [floatPos=htb,
3     capPos=left,
4     capWidth=h,% of \columnwidth
5     capAngle=90,
6     objectFrame
7   ]{figure}{\includegraphics{images/rose}}%
8   [Centered Caption beside Object]%
9   {Caption vertically centered left beside the float with a caption width
10  of \texttt{capWidth=h},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

```

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

Fig. 10

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



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

Code for figure 11:

```

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

```

Fig. 11



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

6 Caption inner or outer

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

Code for figure 12:

```

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

```

Fig. 12

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



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

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

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

Fig. 13



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

Fig. 14



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

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

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

Code for figure 15:

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

Fig. 15



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

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

7 Vertical Position of the Caption

The caption can be placed beside the object in the positions

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

The code for figure 16:

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

Fig. 16

The code for figure 17:

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




Figure 16: Caption at bottom right beside the float

```

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

```

Figure 17: Caption at top left beside the float

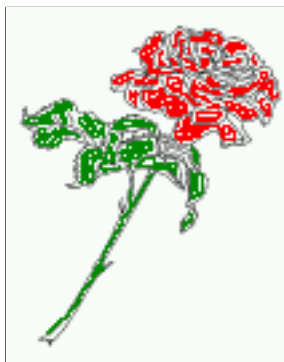


Fig. 17

The code for figure 18:

```

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

```



Figure 18: Caption centered right beside the float

Fig. 18

8 Caption format

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

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

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

Fig. 19

**Figure 19**

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

9 Horizontal Position of the Float

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

The code for figure 20:

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

Fig. 20



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

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

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

The same with capPos=left :

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



Fig. 21

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

The code for figure 22:

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

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



Fig. 22

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

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

10 Wide floats

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

The code for figure 23:

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

Fig. 23

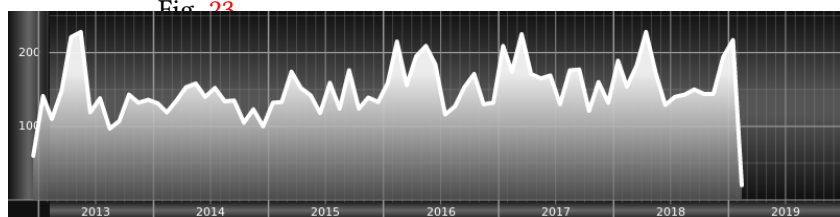


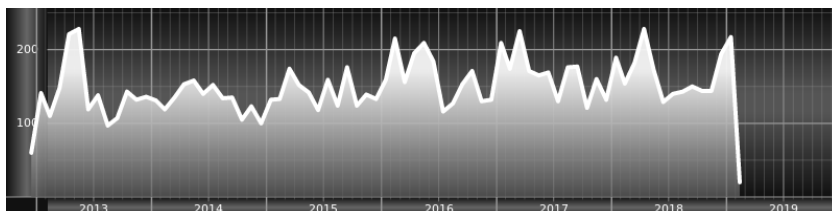
Figure 23: Caption at top right beside the float and object position left and the option `wide`.

The code for figure 24:

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

Fig. 24

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

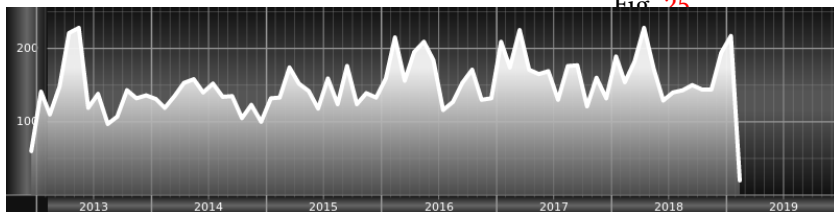


For a twosided document it will place the object always in the margin.

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

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

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

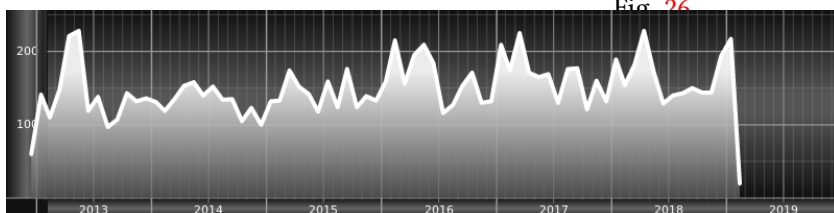


Now we set the same image with the same setting on the next page. The caption will change its side due to the setting `capPos=outer`.

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

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

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



The caption can be typeset completely into the margin with:

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

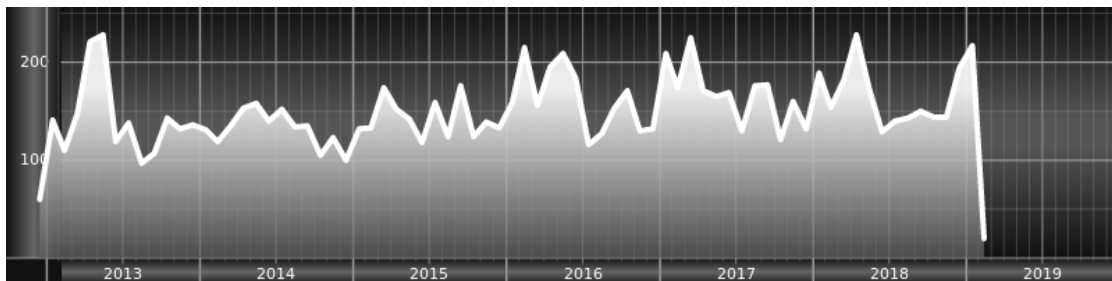


Figure 27: Caption at top inner beside the float and object position right and the option wide.

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

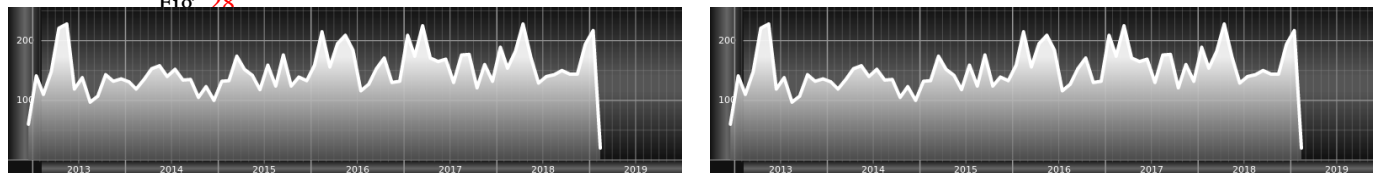


Figure 28: Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – 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,

```

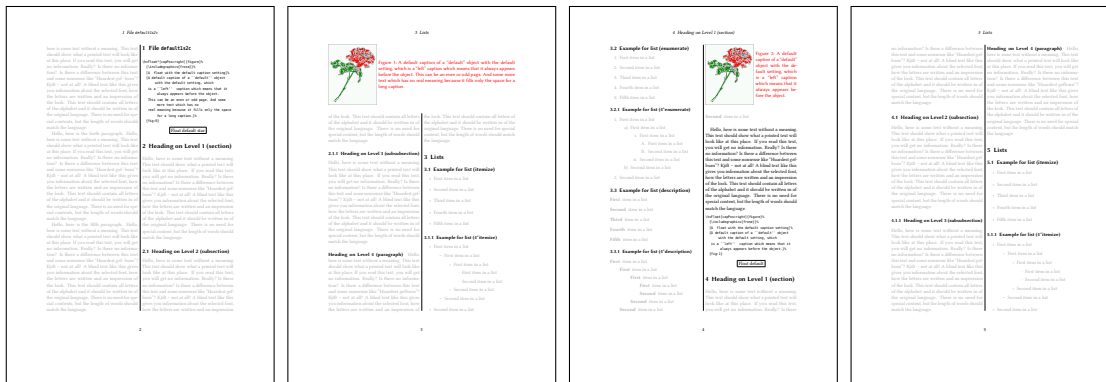


Figure 29: Output of defaultls2c (pages 2–5)

```

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

```

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

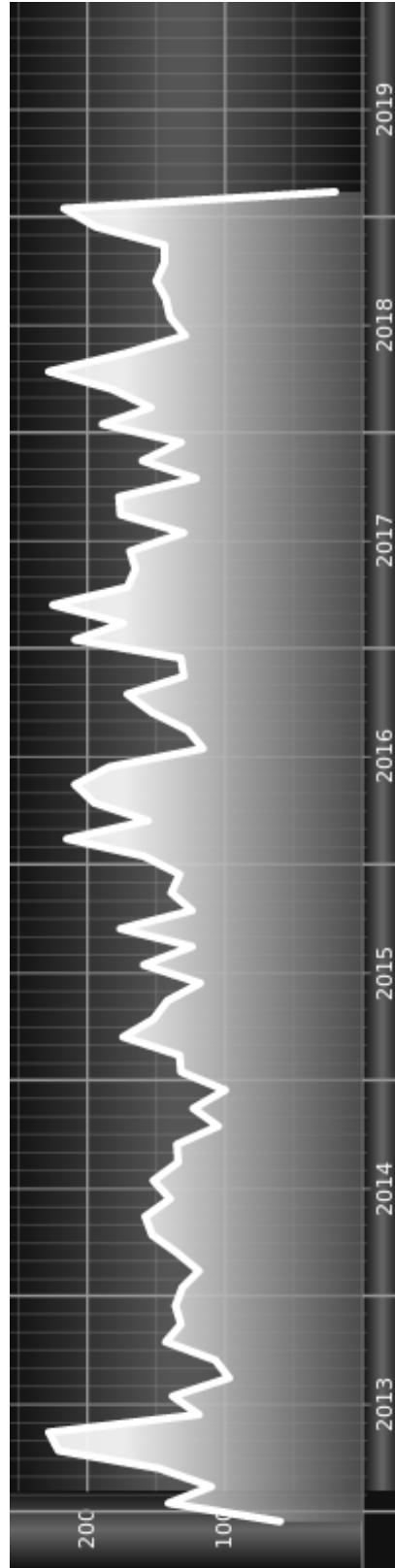
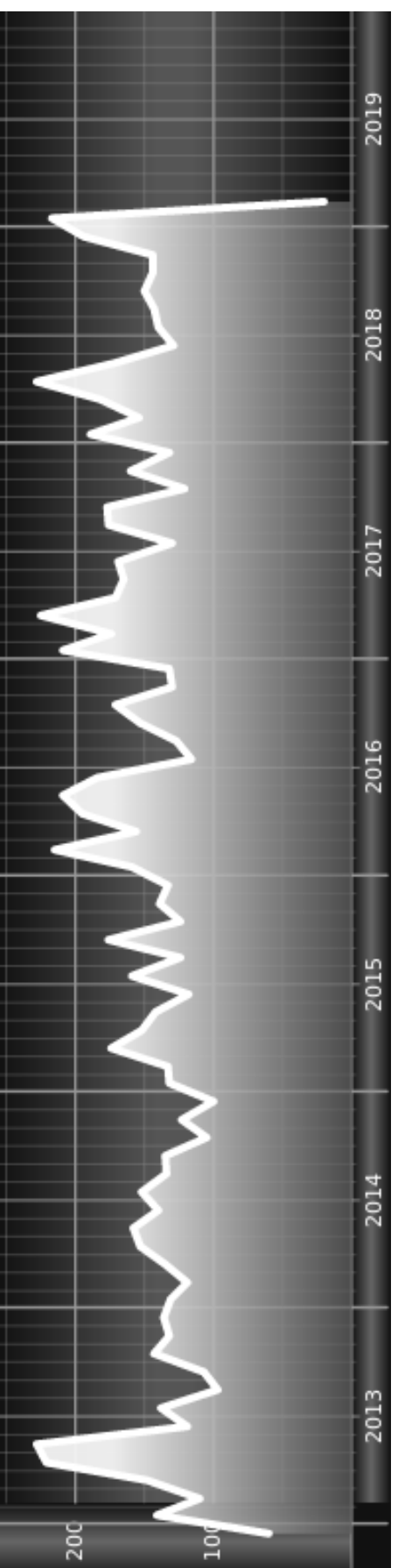


Figure 30: Caption and object in landscape mode. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense 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.

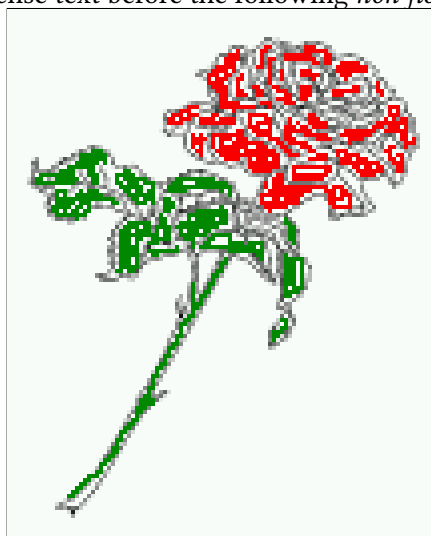


Figure 32: Caption of a “nonfloat” Object, using the nonfloat Package

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 onese 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}`.

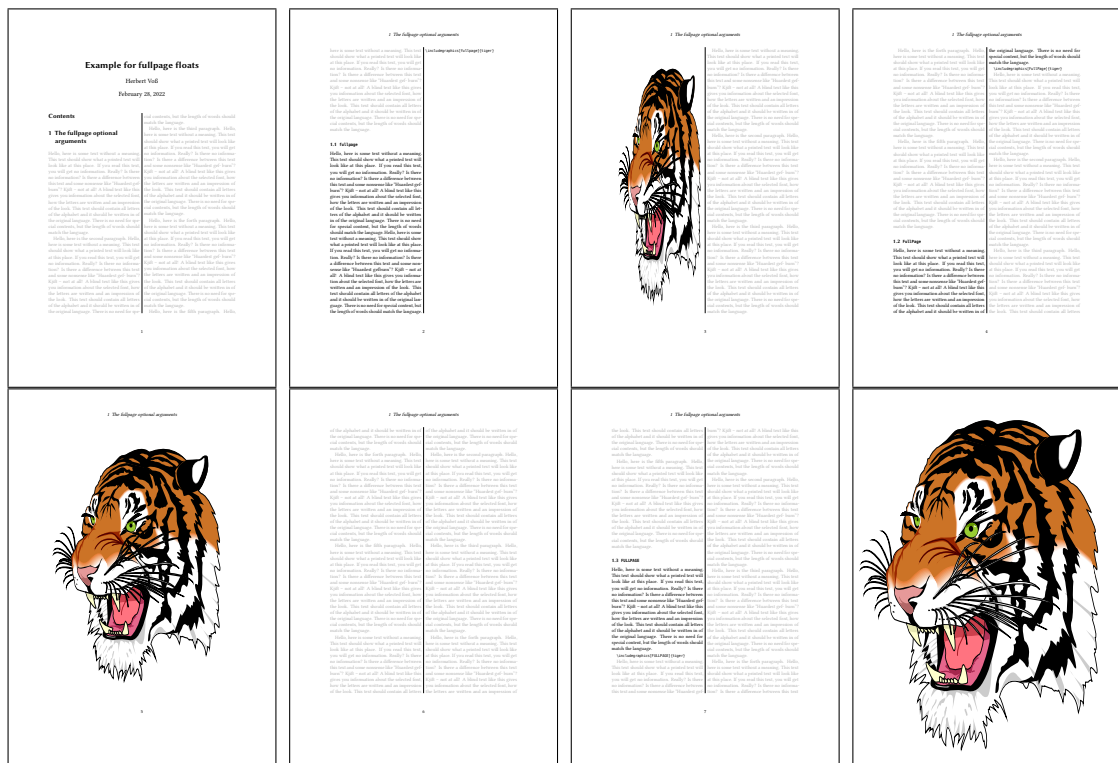


Figure 33: Output of `fullpage1s2c` (pages 1–8)

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.

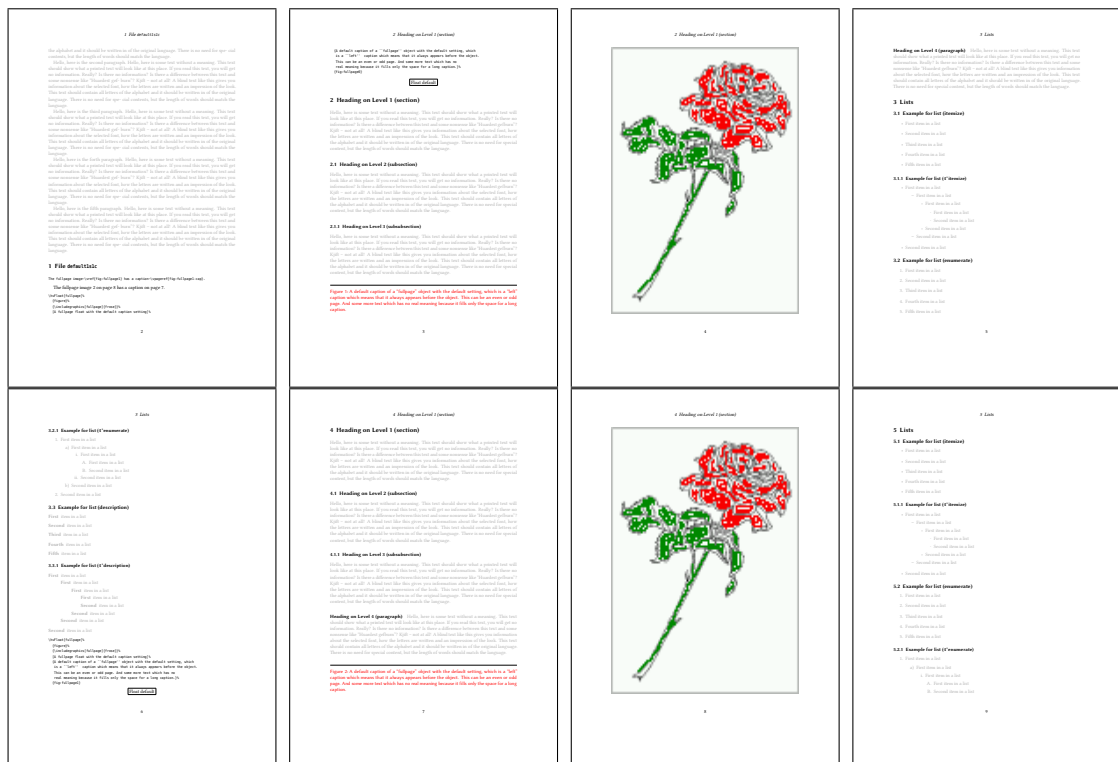


Figure 34: Output of default1s1c (pages 2–9)

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}

```

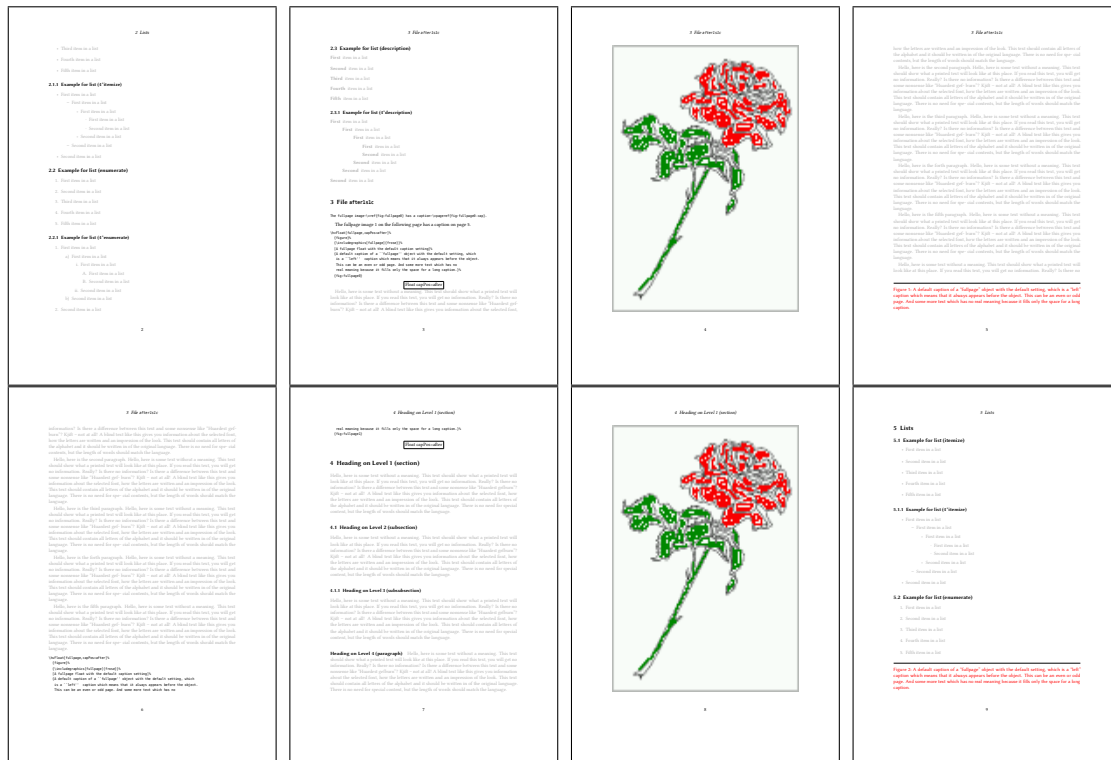


Figure 35: Output of after1s1c (pages 2–9)

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}

```

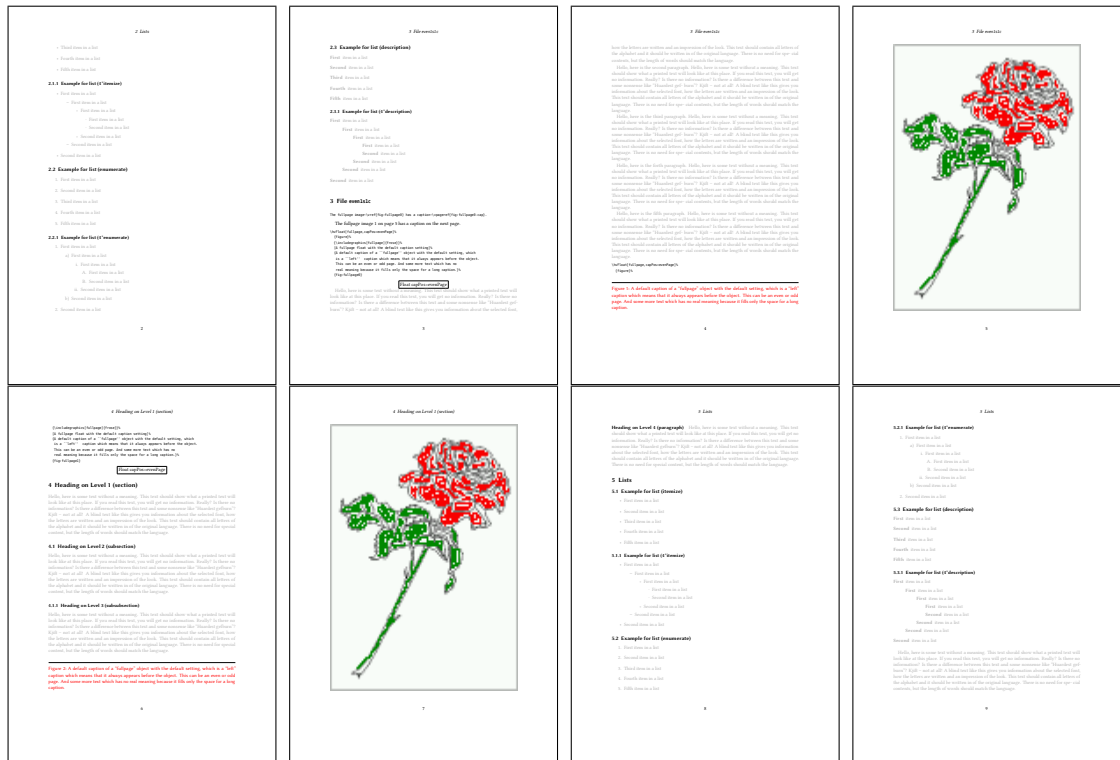


Figure 36: Output of even1s1c (pages 2–9)

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}

```

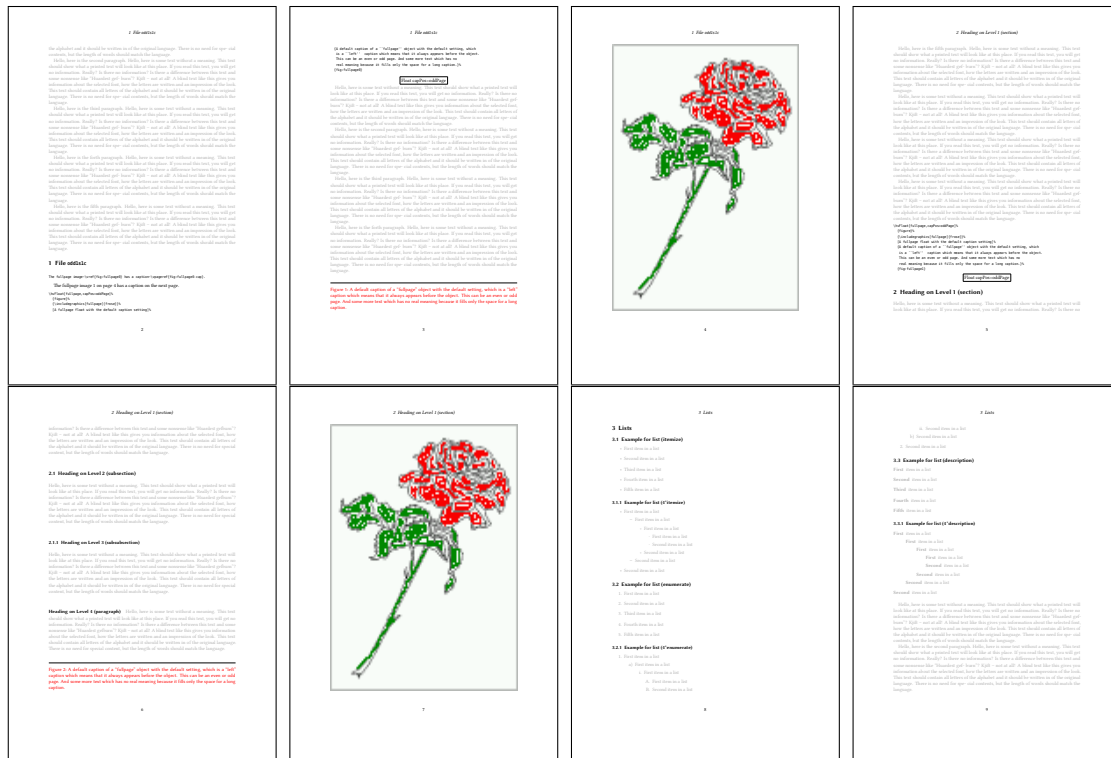


Figure 37: Output of odd1s1c (pages 2–9)

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}
```

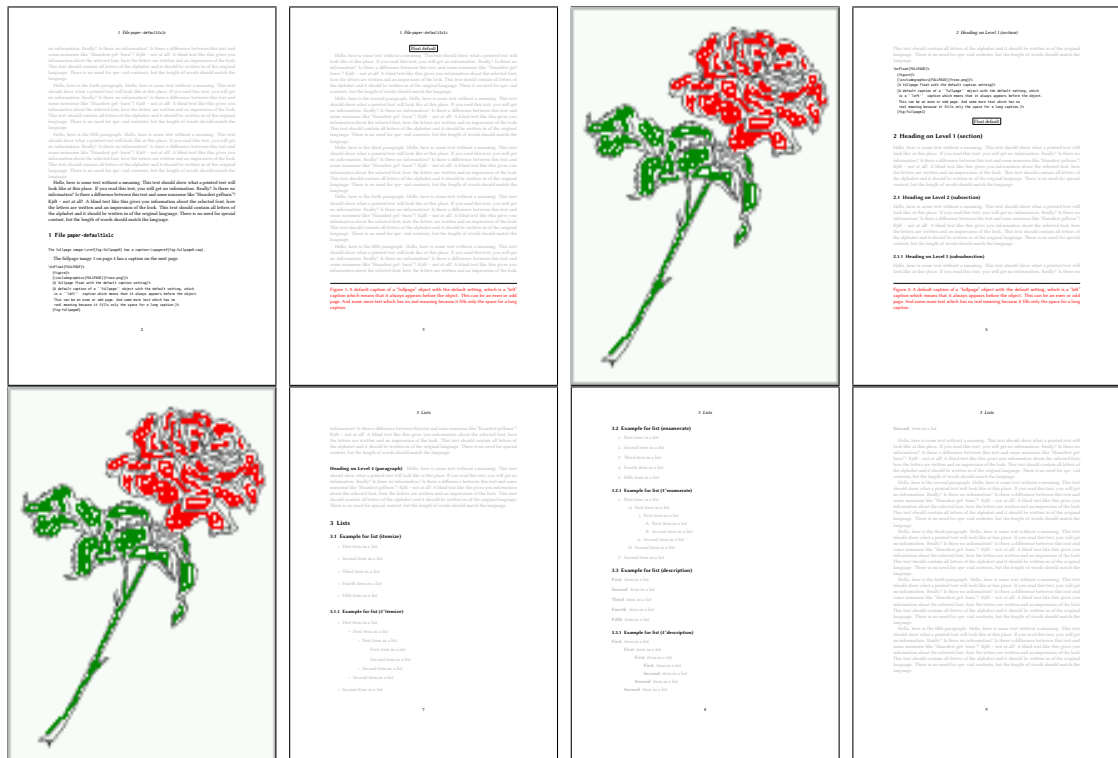


Figure 38: Output of paper-default1s1c (pages 2–9)

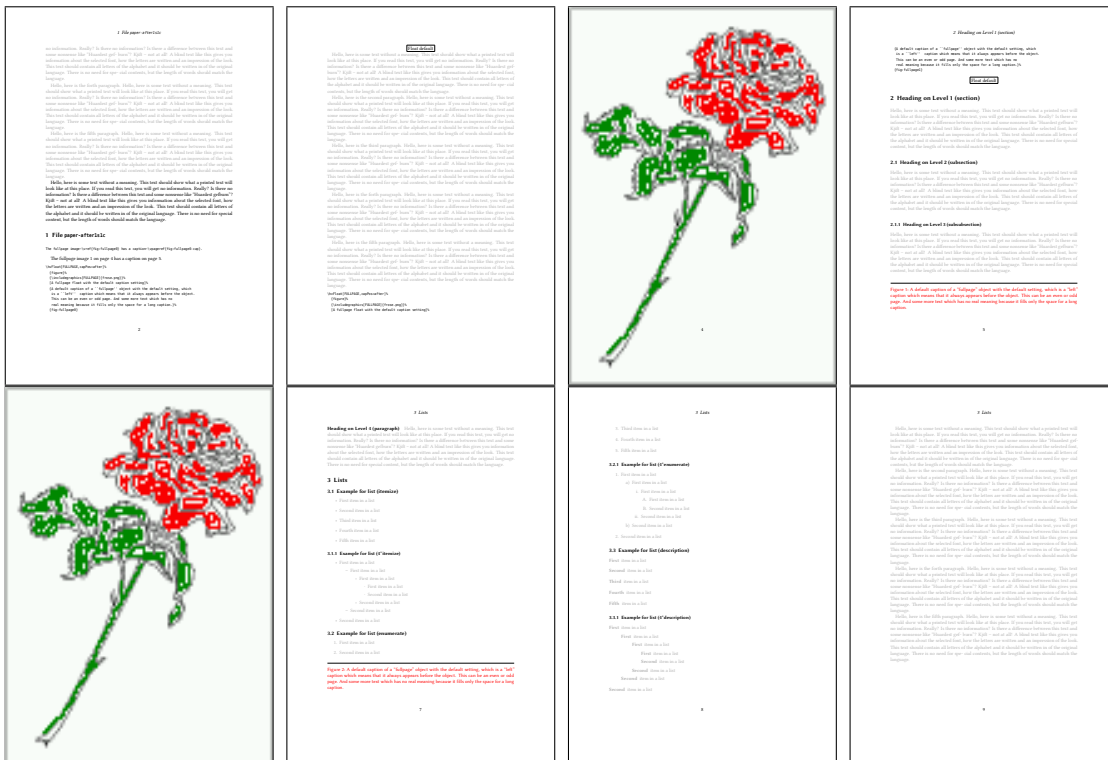


Figure 39: Output of paper-after1s1c (pages 2–9)

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.

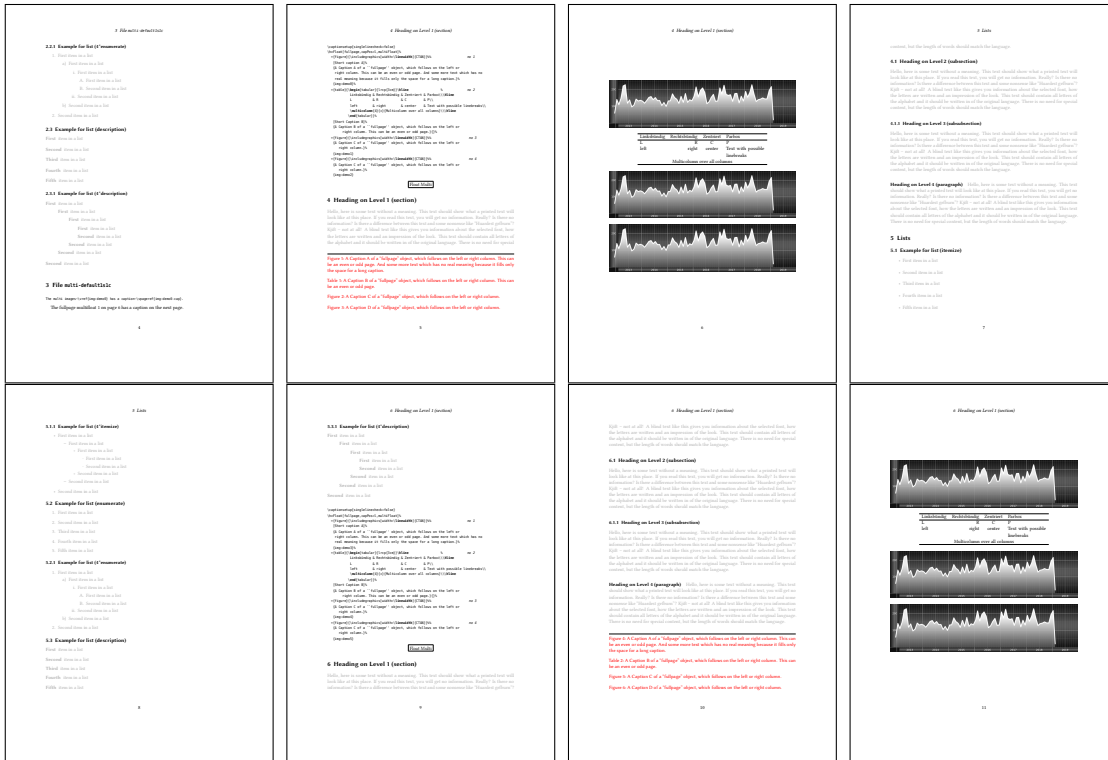


Figure 40: Output of multi-default1s1c (pages 4–11)

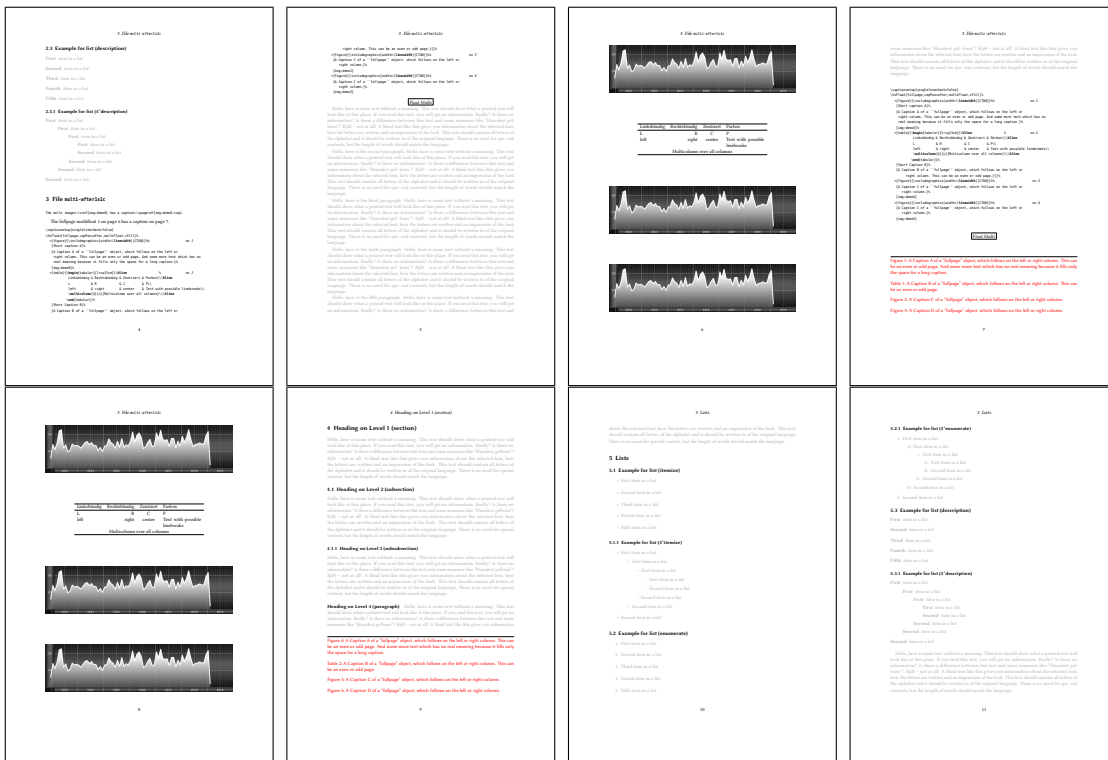


Figure 41: Output of multi-after1s1c (pages 4–11)

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]`.

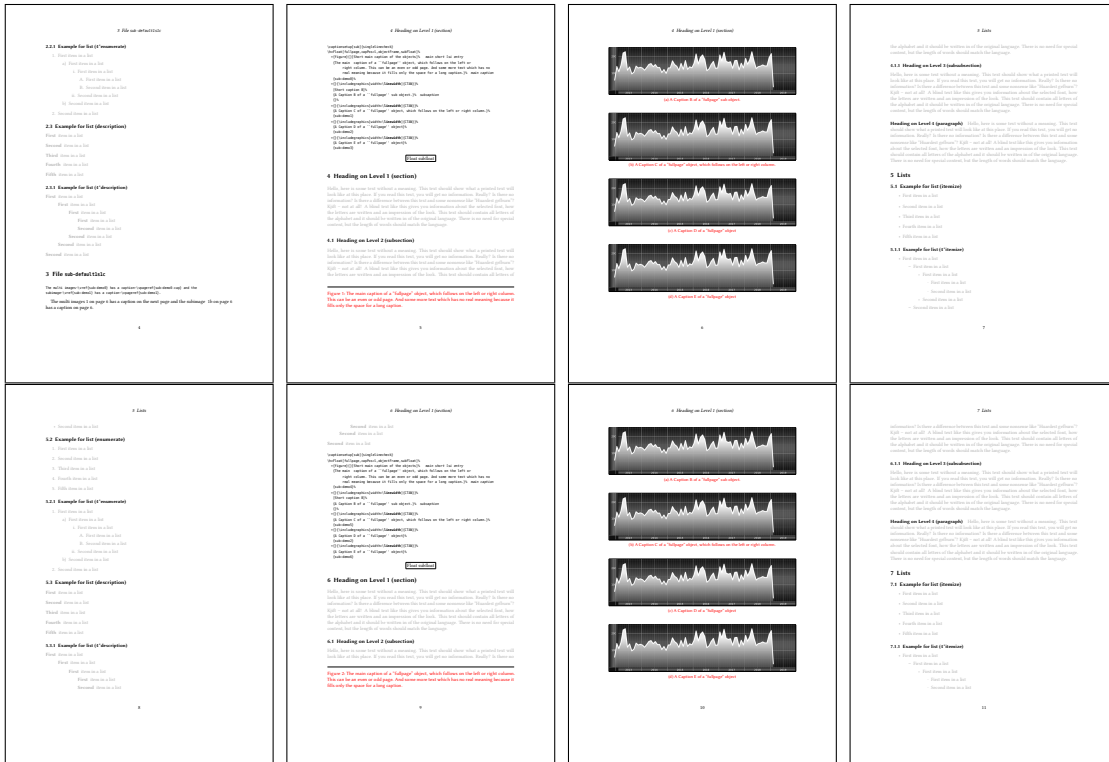


Figure 42: Output of sub-default1s1c (pages 4–11)

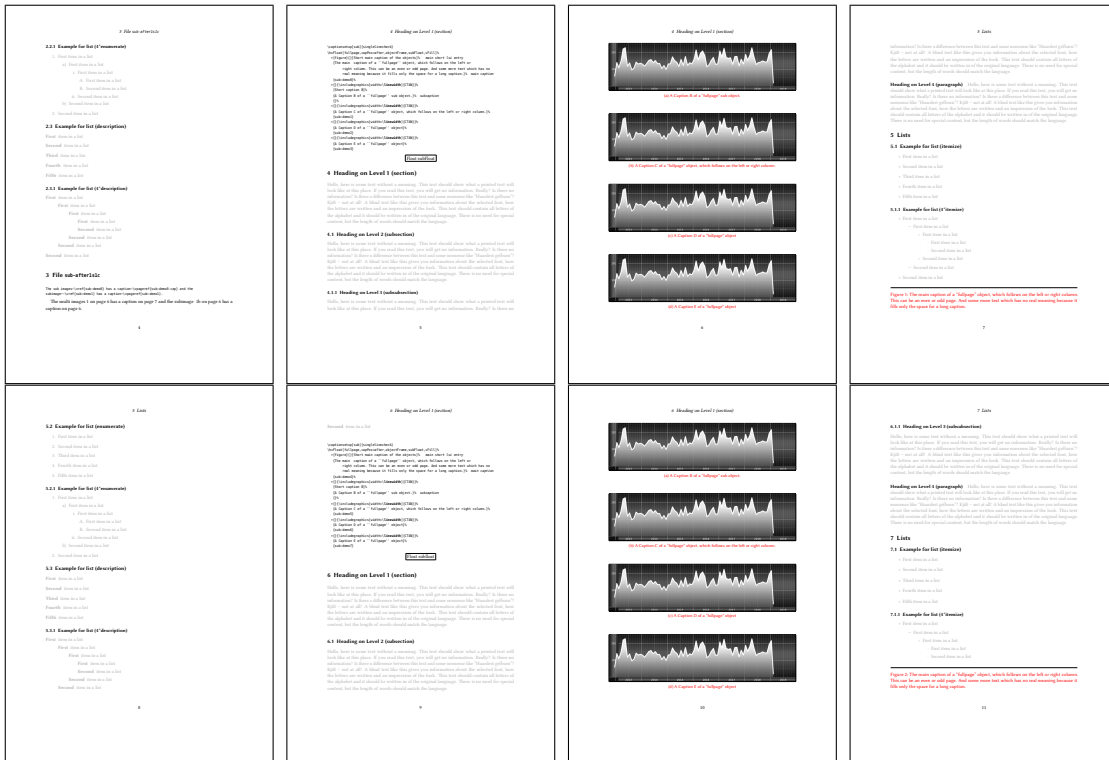


Figure 43: Output of sub-after1s1c (pages 4–11)

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).

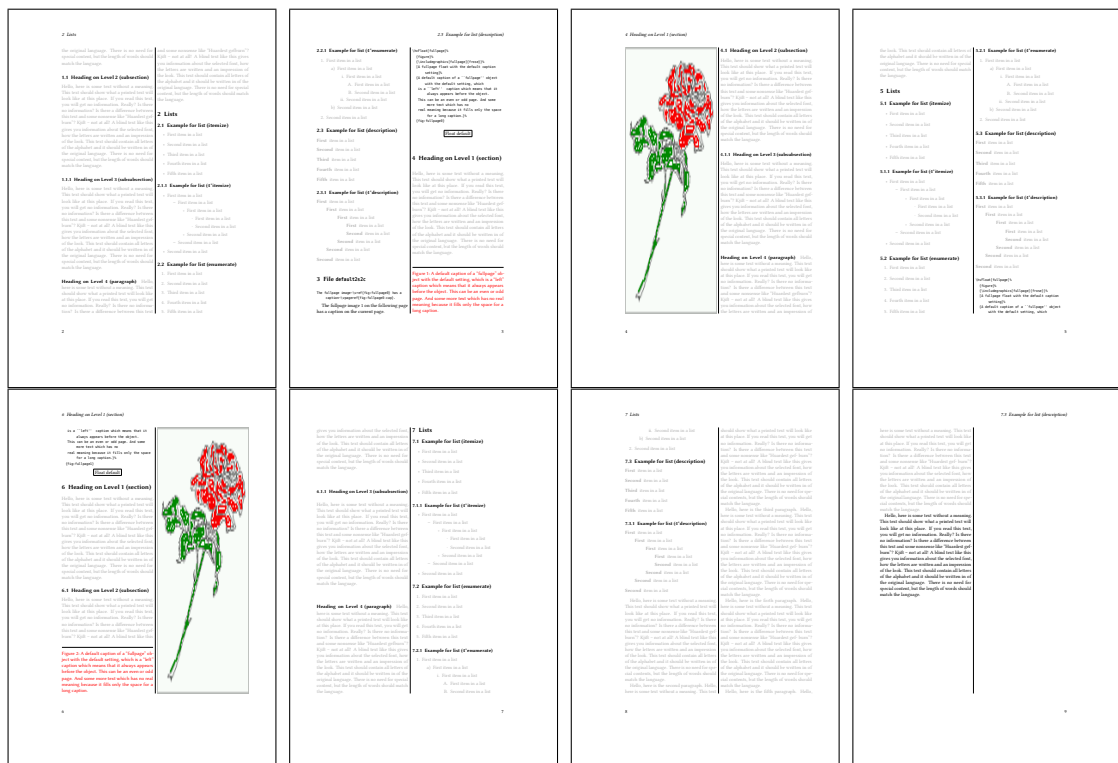


Figure 44: Output of default2s2c (pages 2–9)

```

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).

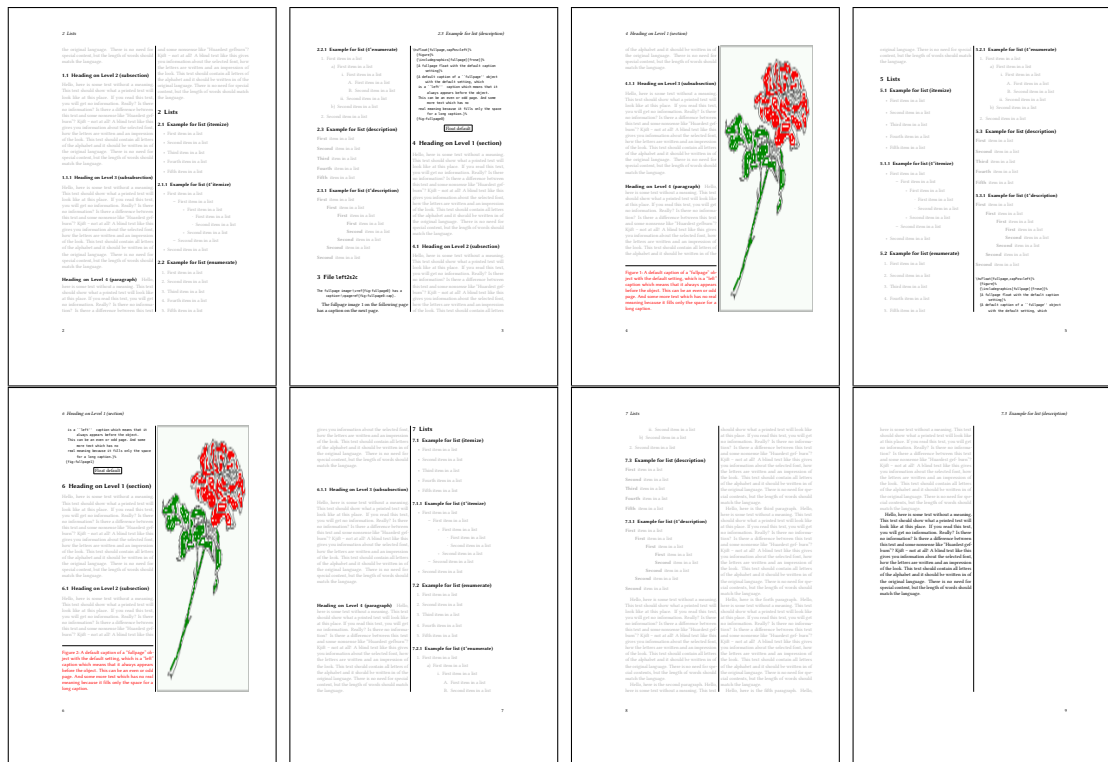


Figure 45: Output of left2s2c (pages 2–9)

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

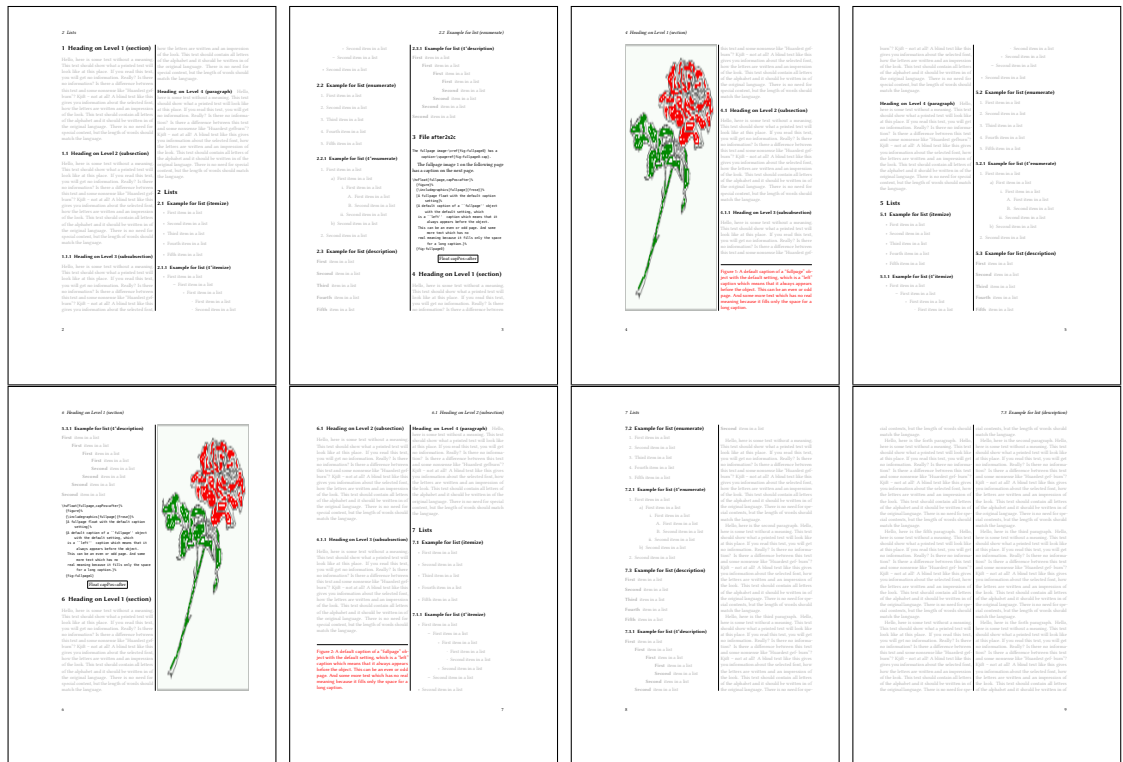


Figure 46: Output of after2s2c (pages 2–9)

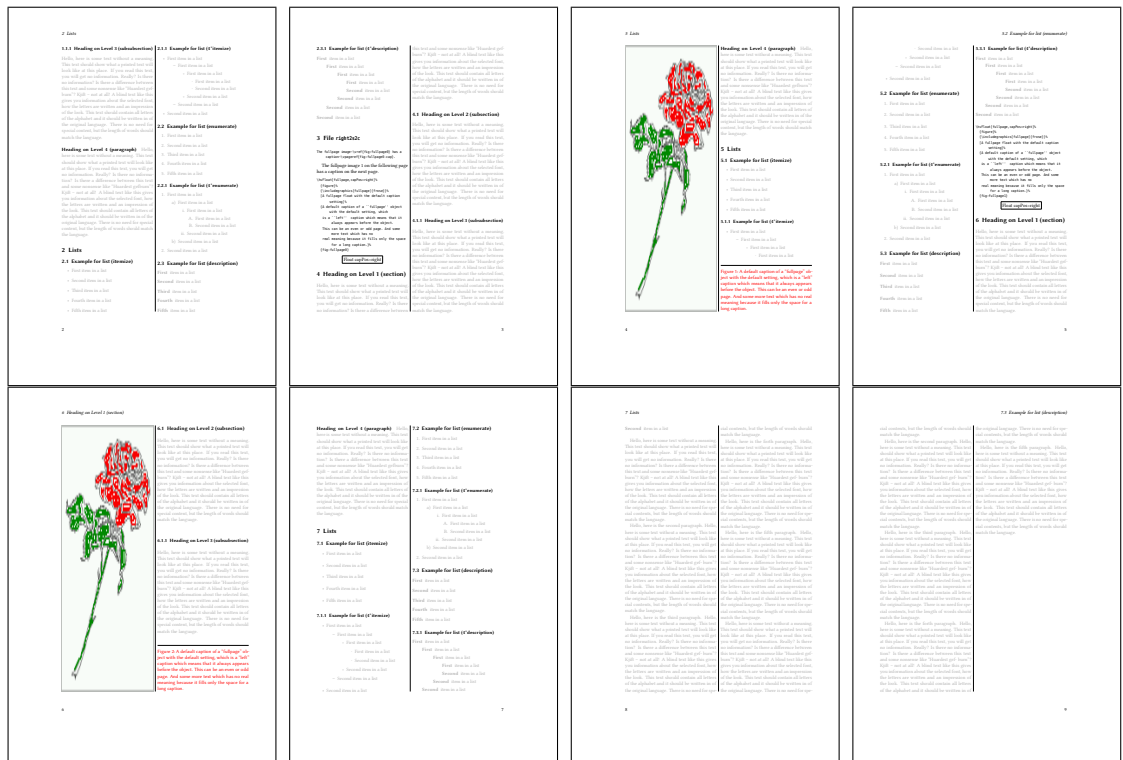


Figure 47: Output of right2s2c (pages 2–9)

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`.

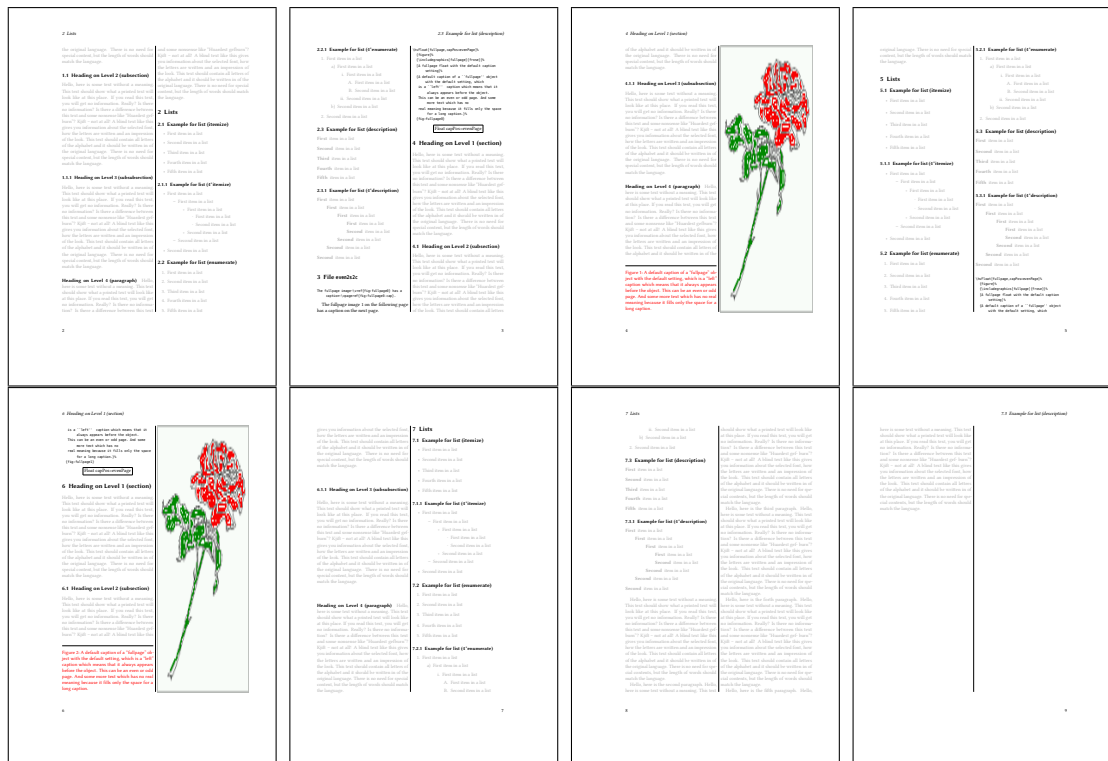


Figure 48: Output of even2s2c (pages 2–9)

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.

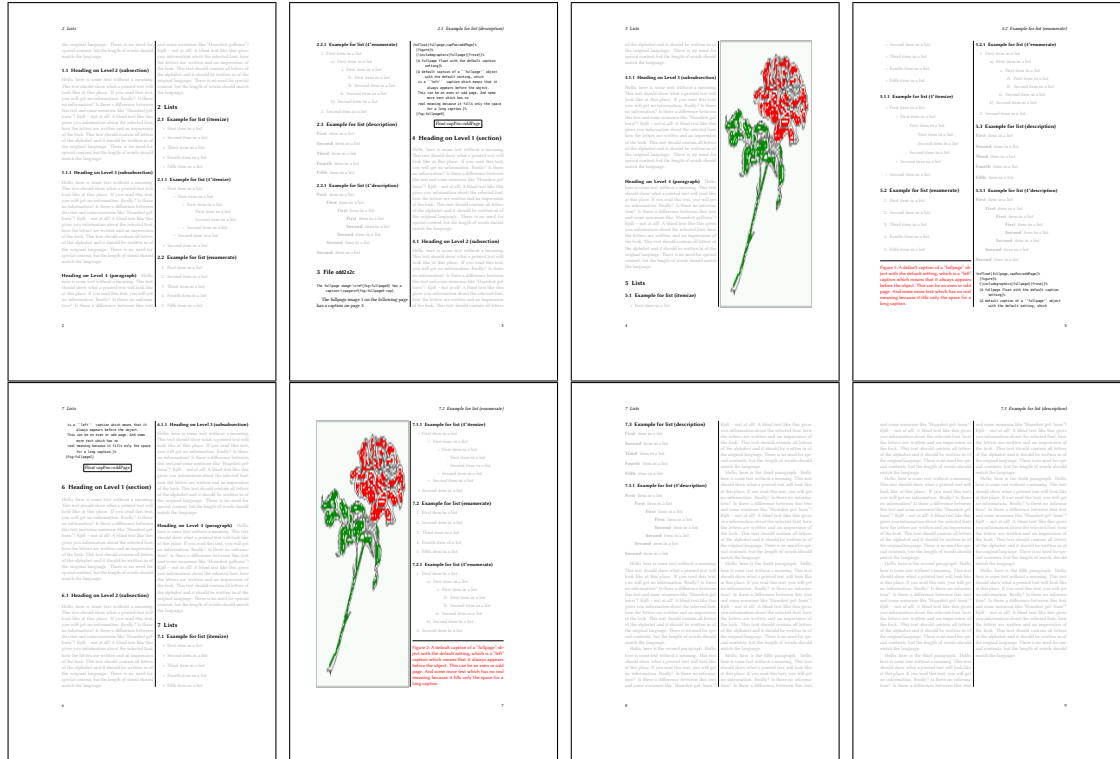


Figure 49: Output of odd2s2c (pages 2–9)

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}

```

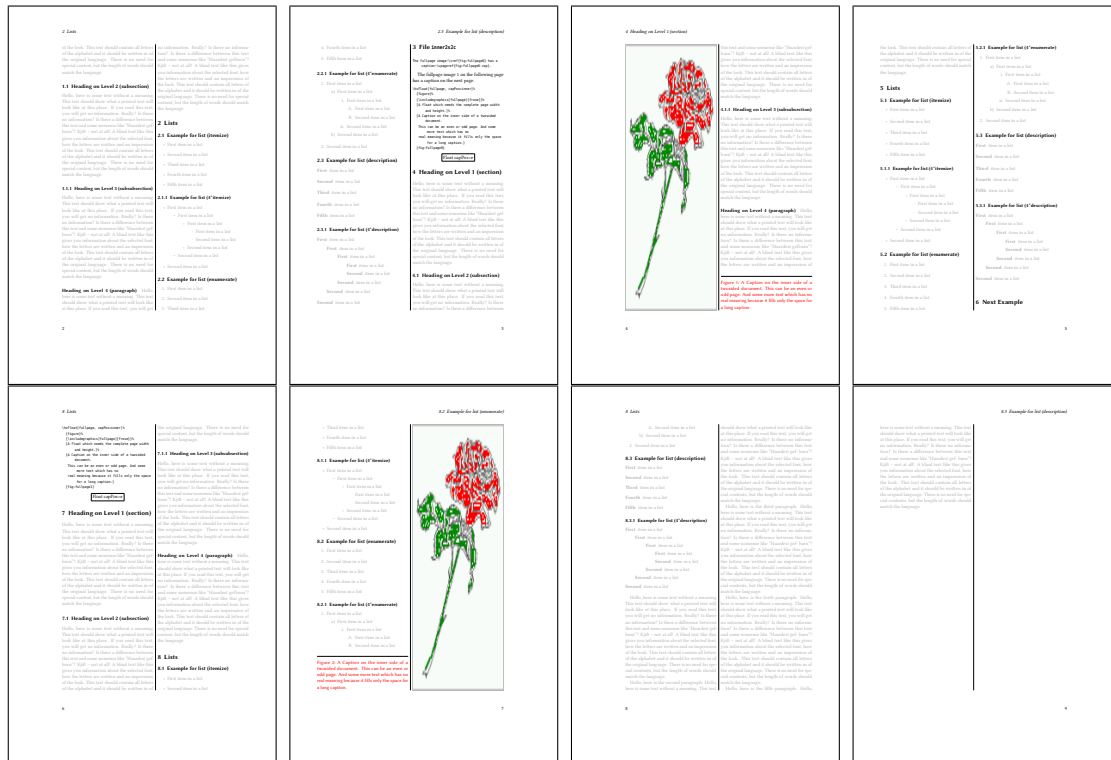


Figure 50: Output of inner2s2c (pages 2–9)

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}
```

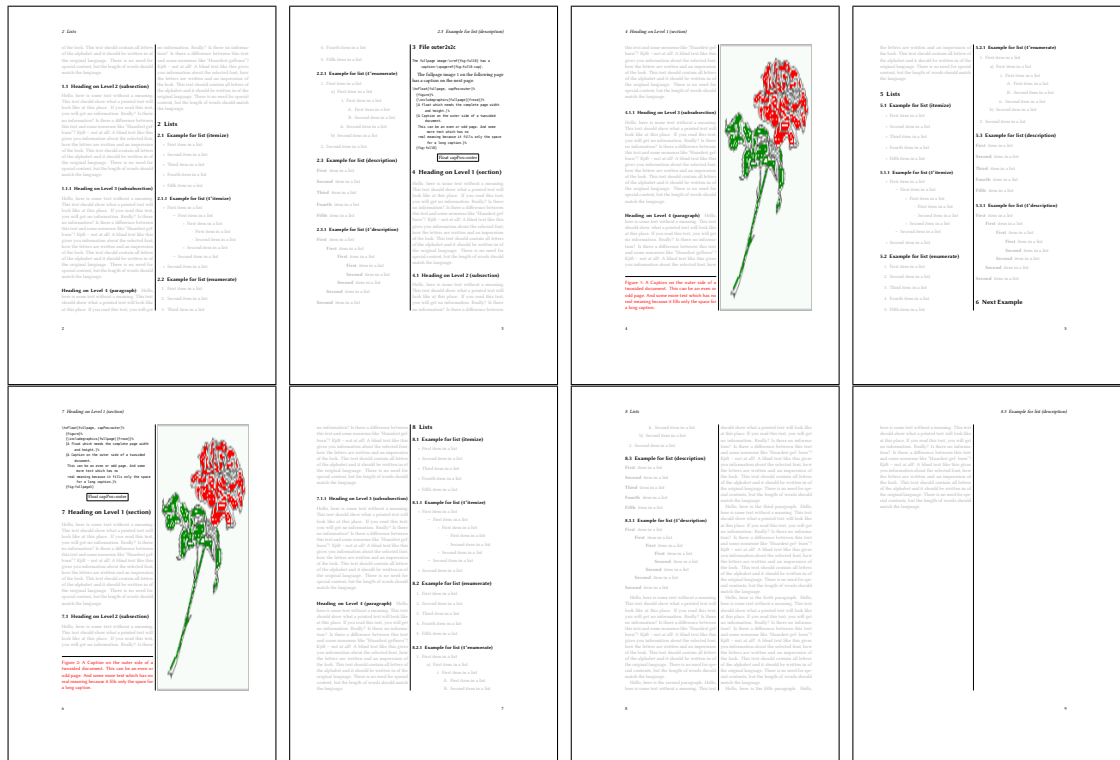


Figure 51: Output of outer2s2c (pages 2–9)

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}
```

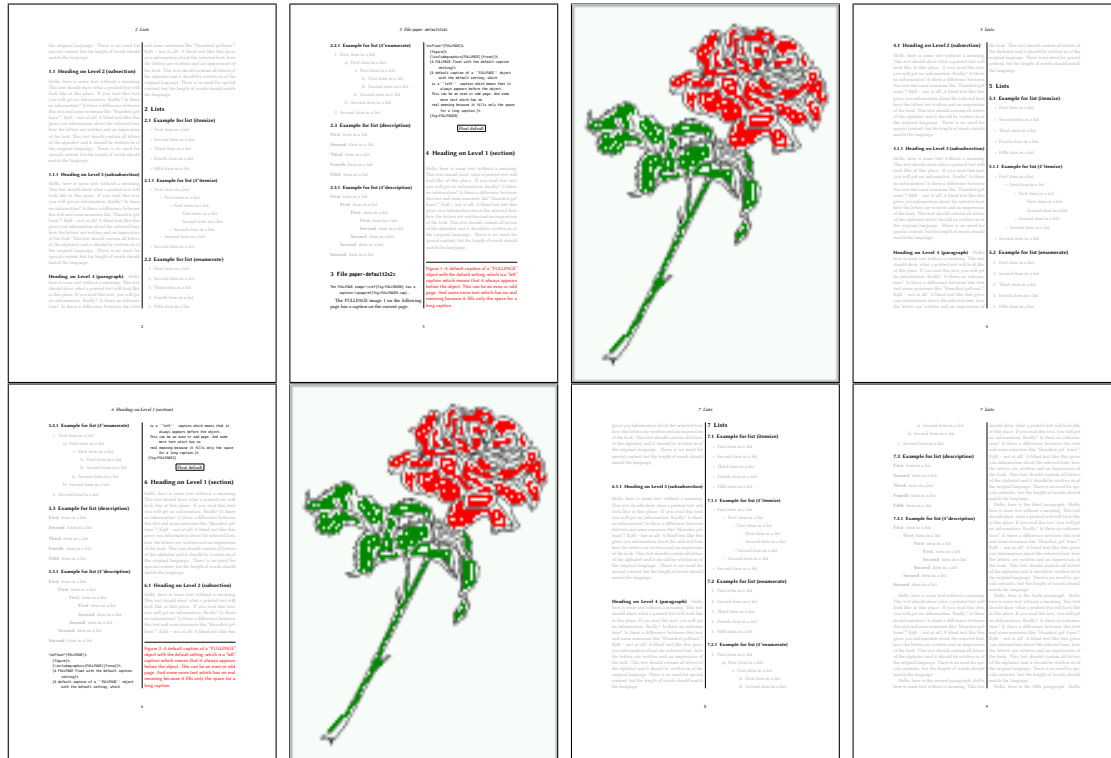


Figure 52: Output of paper-default2s2c (pages 2–9)

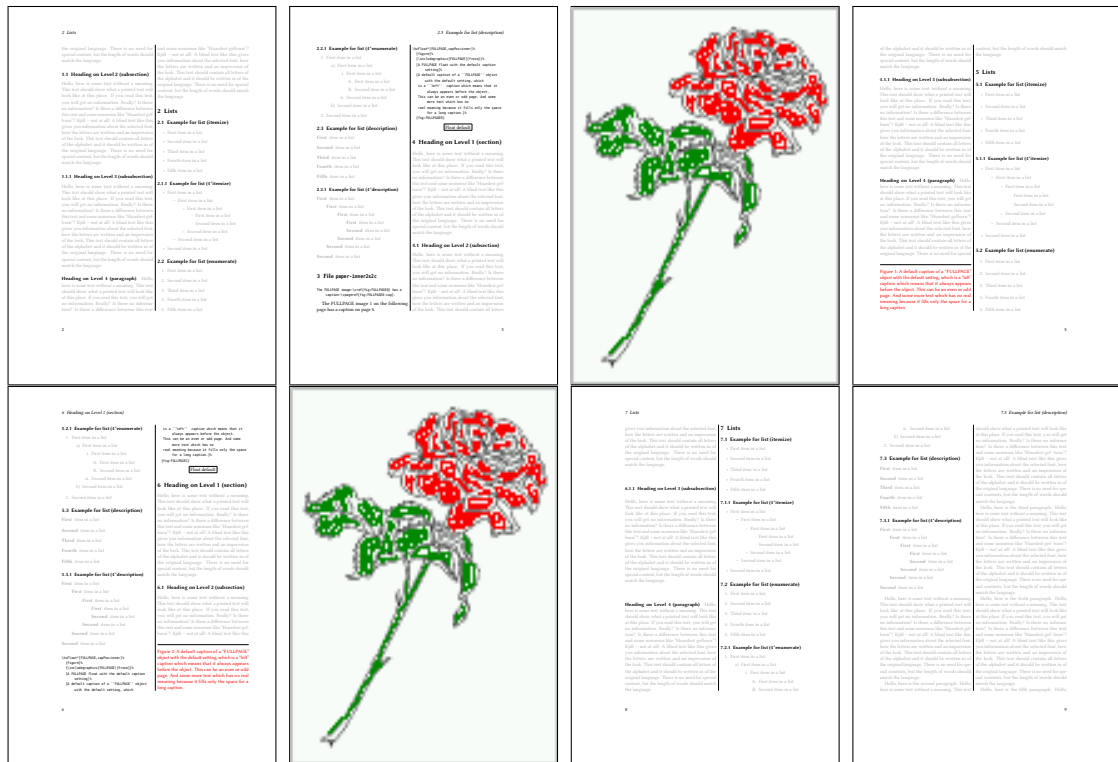


Figure 53: Output of paper-inner2s2c (pages 2–9)

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 \hvfloa[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.

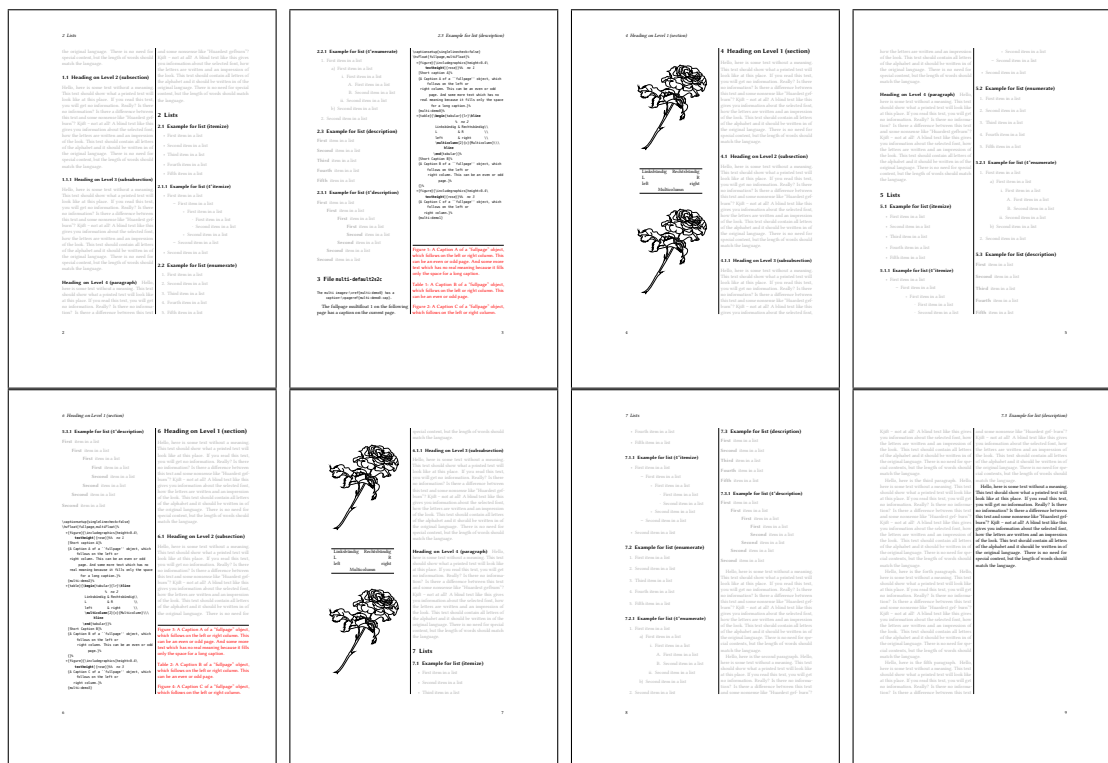


Figure 54: Output of multi-default2s2c (pages 2-9)

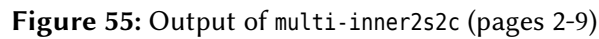
20 Subfloat page

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}

```



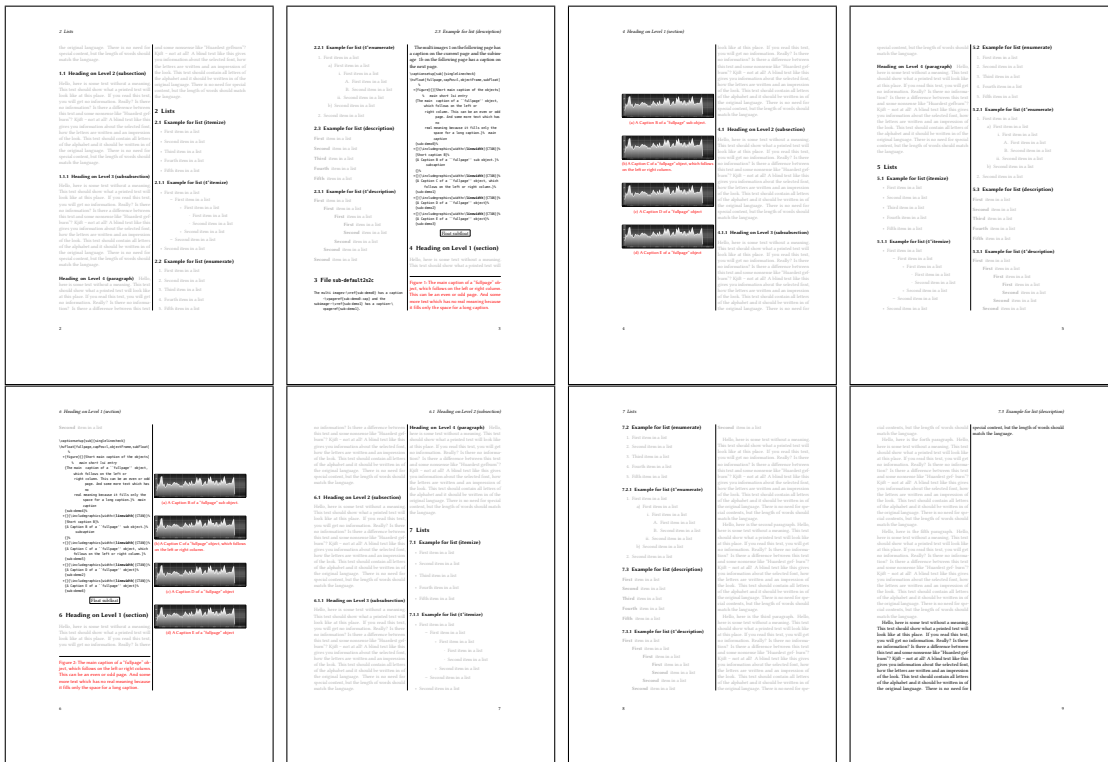


Figure 56: Output of sub-default2s2c (pages 2–9)

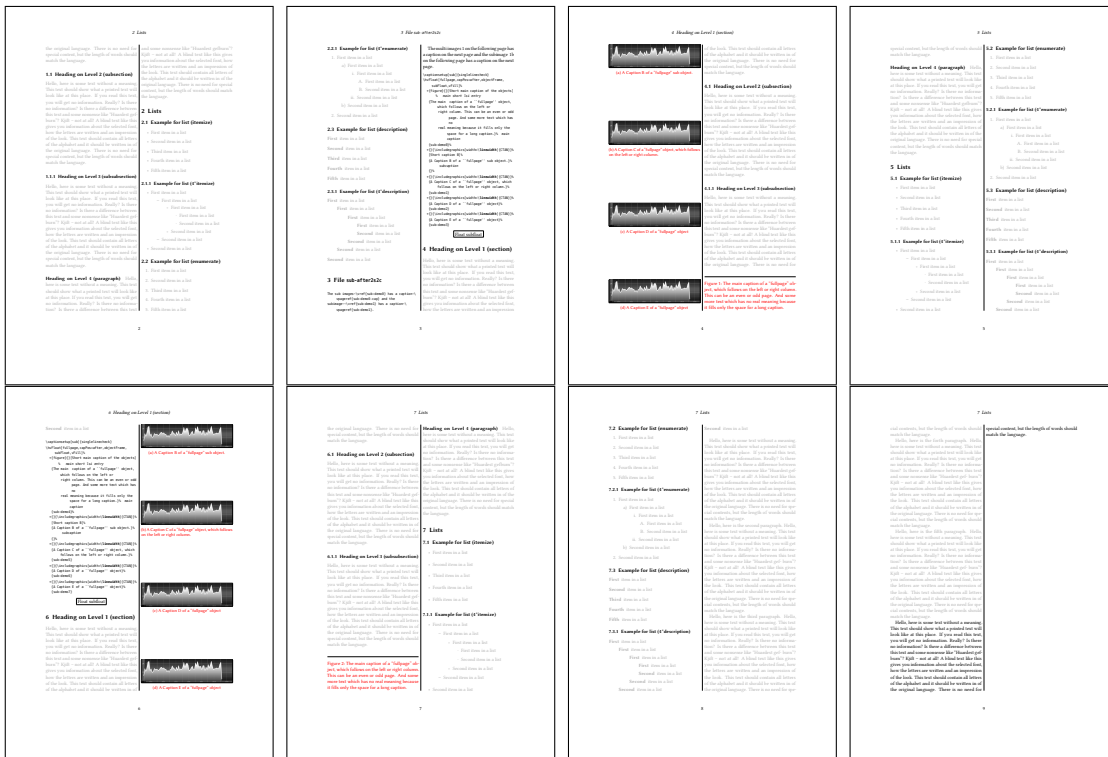


Figure 57: Output of sub-after2s2c (pages 2–9)

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.

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

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Figure 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=right,bindCorr=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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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}
```

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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And after the second paragraph follows the third paragraph. Hello, here is some 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 LÖF.
8 The parameter is \texttt{doublePage}}%
9 {fig:doublePage@sH}

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Fig. 64 After this fourth paragraph, we start a new paragraph sequence. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

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1 \hvFloat[doublePage,capPos=right,capVPos=top]%
2 {figure}%
3 {\includegraphics[width=2\textwidth]{images/sonne-meer}}%
4 [A doublepage image with a caption on the right side of the right part.]%
5 {A caption for a double-sided image that will be placed on the right side of the
6 right-hand part of the illustration. The illustration begins on the left edge of
7 the paper. A short form is used for the LOF.
8 The parameter is \texttt{doublePage}}%
9 {fig:doublePage0}

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Fig. 65 This is the second paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text



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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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 LOF.
8 The parameter is \texttt{doublePage}}%
9 {fig:doublePage0sH2}

```

Fig. 66

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

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21.4 Tabulars

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



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

The 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 & 3 & 1 & 1 & 1 & 0 & 1 & 1 & 0 & 0 & 0 & 0 & 20 & 0 & 2 & 2 & 2 & 1 \\ \addlinespace[3pt]
9 Zeile 2 & 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 & 0 & 1 & 0 & 3 & 7 & 2 & 1 \\ \addlinespace[3pt]
12 Zeile 6 & 2 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 2 & 0 & 5 & 2 & 2 & 5 & 4 & 2 \\ \addlinespace[3pt]
13 Zeile 5 & 0 & 0 & 4 & 2 & 1 & 2 & 2 & 1 & 0 & 0 & 0 & 1 & 1 & 0 & 2 & 5 & 4 & 3 \\ \addlinespace[3pt]
14 Zeile 8 & 0 & 1 & 1 & 0 & 0 & 0 & 1 & 1 & 0 & 3 & 2 & 1 & 2 & 1 & 3 & 5 & 3 & 4 \\ \addlinespace[3pt]
15 Zeile 9 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 2 & 1 & 0 & 0 & 0 & 0 & 4 & 2 & 1 & 4 & 5 & 2 \\ \addlinespace[3pt]
16 Zeile10 & 0 & 1 & 3 & 0 & 1 & 0 & 1 & 0 & 0 & 1 & 1 & 0 & 1 & 1 & 1 & 4 & 4 & 1 \\ \addlinespace[3pt]
17 Zeile11 & 0 & 2 & 2 & 1 & 1 & 0 & 1 & 0 & 0 & 0 & 0 & 2 & 6 & 1 & 0 & 2 & 1 & 1 \\ \addlinespace[3pt]
18 Zeile12 & 2 & 0 & 2 & 4 & 1 & 0 & 4 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 3 \\ \addlinespace[3pt]
19 Lärm & 2 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 2 & 0 & 0 & 2 & 2 & 2 \\ \addlinespace[3pt]
20 Zeile13 & 0 & 1 & 0 & 0 & 1 & 0 & 3 & 0 & 0 & 0 & 0 & 2 & 0 & 1 & 3 & 0 & 2 \\ \addlinespace[3pt]
21 Zeile14 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 3 & 2 & 1 & 1 & 0 \\ \addlinespace[3pt]
22 Zeile15 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 4 & 0 & 0 & 3 & 1 & 1 \\ \addlinespace[3pt]
23 Zeile16 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 5 & 0 & 1 \\ \addlinespace[3pt]
24 Artikel gesamt & 2 & 6 & 13 & 8 & 4 & 3 & 5 & 4 & 0 & 6 & 3 & 5 & 23 & 10 & 8 & 15 & 13 & 1 \\

```

```

25 \bottomrule
26 \end{tabular}}
27
28 \Blindtext
29
30 \hvFloat[doublePage,capPos=right,capVPos=top,floatCapSep=12pt]%
31 {table}%
32 {\usebox\hv0Box}%%%%%%%%%%
33 [A doublepage tabular with a caption on the right side of the right part.]%
34 {A caption for a double-sided tabular that will be placed on the right side of the
35 right-hand part of the illustration. The illustration begins on the left edge of
36 the paper. A short form is used for the LOF.
37 The parameter is \texttt{doublePage}}%
38 {tab:doublePage3}

```

Tab. 9

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22 References to the page

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

```
\hvfFloatSetDefaults
\hvfFloat[fullpage,capPos=evenPage]{figure}%
{\IncludeGraphics{images/frose}}%
[A float which needs the complete paper width and height.]%
```

	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	

{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 95, but the image itself is on page 96. With package `varioref` it is:

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

With the package `varioref` (<https://ctan.org/pkg/varioref>) one can get something like: see figure 68 on page 96, which uses a correct page number of the floating object and not the caption pagenummer which is on page 95. The figure 68 is on page 96 and the caption on page 95

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

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

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

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

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

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Figure 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 467 2022-03-06 21:27:05Z herbert $
2  %%
3  %%
4  %% IMPORTANT NOTICE:
5  %%
6  %% This is file `hvfloat.sty',
7  %%
8  %% Herbert Voss <hvoss@tug.org>
9  %%
10 %% This program can be redistributed and/or modified under the terms
11 %% of the LaTeX Project Public License Distributed from CTAN archives
12 %% in directory macros/latex/base/lppl.txt.
13 %%
14 %% DESCRIPTION:
15 %% `hvfloat' offers rotating of captions and objects for floats
16 %%
17 \NeedsTeXFormat{LaTeX2e}
18 \def\fileversion{2.38}
19 \def\filedate{2022/04/02}
20 %\message{'hvfloat' v\fileversion, \filedate\space (Herbert Voss)}
21 \ProvidesPackage{hvfloat}[\filedate\space v\fileversion\space special floating objects (hv)]
22 \let\hvFloatFileVersion\fileversion
23 %
24 \newif\ifhv@fbox \hv@fboxfalse
25 \newif\ifhv@hyperref \hv@hyperreftrue
26 \newif\ifhv@nostfloats \hv@nostfloatsfalse
27 \newif\ifhv@tugboat \hv@tugboatfalse
28
29 \DeclareOption{fbox}{\hv@fboxtrue\setlength{\fboxsep}{1pt}}
30 \DeclareOption{hyperref}{\hv@hyperreftrue}
31 \DeclareOption{nostfloats}{\hv@nostfloatstrue}
32 \DeclareOption{no-stfloats}{\hv@nostfloatstrue}
33
34 \ProcessOptions
35
36
37 \PassOptionsToPackage{hypcap}{caption}
38 \RequirePackage{caption}
39 \RequirePackage{varwidth}
40 \DeclareCaptionBox{varwidth}{\varwidth[b]{#1}#2\endvarwidth}
41
42 \PassOptionsToPackage{hypcap}{subcaption}
43 \RequirePackage{subcaption}
44 \RequirePackage{atbegshi}
45 \RequirePackage{picture,trimclip}
46
47 \RequirePackage{expl3,multido}
48 \RequirePackage{graphicx}
49 \RequirePackage{varwidth}
50
51 \RequirePackage{xkeyval}
52 \RequirePackage{ifoddpages}
53 \RequirePackage{afterpage}
54
55 \ifhv@hyperref
56   \RequirePackage{hyperref}
57 \fi
58 \ifhv@nostfloats\else
59   \RequirePackage{stfloats}% for bottom floats in a twocolumn mode
60 \fi
61 %
62 \providecommand*\LenToUnit[1]{\strip@pt\dimexpr#1*\p@/\unitlength}
63
64 \newlength\hvObjectWidth

```

```

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

```

```

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

```

```

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

```



```

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

```

```

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

```

```

394     \else
395     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
396     \fi
397   \or
398   \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}\else\usebox{\hvCaptionBox}\fi
399   \fi
400 }
401
402 \newcommand\put@ObjectBox[1][0]{%
403   \ifcase#1
404   \ifhv@fbox
405     \fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
406   \else
407     \parbox{\wd\hvObjectBox}{\ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi}%
408   \fi
409   \or
410   \ifhv@fbox
411     \fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
412   \else
413     \raisebox{-\height}{\ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi}%
414   \fi
415   \or
416   \ifhv@fbox
417     \fbbox{\usebox{\hvObjectBox}}%
418   \else
419     % rotated object with a depth need to raise up the \depth
420     \ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\raisebox{\depth}{\usebox{\hvObjectBox}}\fi%
421   \fi
422   \fi
423 }
424
425
426 \def\drawSepLine{%
427   \par\noindent
428   \if@twocolumn
429     \ifhv@twoColumnCaption
430       \rule{\linewidth}{0.4pt}\[-2.5ex]
431     \else
432       \rule{\columnwidth}{0.4pt}\[-2.5ex]
433     \fi
434   \else
435     \rule{\linewidth}{0.4pt}\[-2.5ex]
436   \fi
437   \vspace{\hv@sepLineskip}%
438 }
439
440 \newcounter{hv@tempCNTfigA}%
441 \newcounter{hv@tempCNTfigB}%
442 \newcounter{hv@tempCNTtabA}%
443 \newcounter{hv@tempCNTtabB}%
444 \newcounter{hv@pfigure}%
445 \newcounter{hv@ptable}%
446 \newcounter{subhv@pfigure}%
447 \newcounter{subhv@ptable}%
448
449 \newif\ifhv@star
450 \newif\if@hvsubstar
451 \setDefaults
452
453
454 %\newcommand*{\hvFloat}[5][+]{%
455 %  [#1]: keyvalues
456 %  #2: type figure | table | ...
457 %  #3: float contents
458 %  [#4]: short caption
459 %  #5: caption

```

```

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

```

```

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

```

```

590 }
591 %
592 \def\do@@hvFloat{% no special float page, caption and image on top of each other or side by side
593 \def\@tempa{90}%
594 \ifx\hvSet@rotAngle\@tempa
595 \setlength\hvMaxCapWidth{\textheight}%
596 \else
597 \setlength\hvMaxCapWidth{\hvWideWidth}%
598 \fi
599 %
600 % First we save the object in \hvObjectBox
601 %
602 \ifnum\hvSet@objectAngle=0 % rotate the object?
603 \ifhv@useOBox
604 \let\hvObjectBox\hvOBox
605 \else
606 \savebox\hvObjectBox{\hv@floatObject}%
607 \fi
608 \else
609 \savebox\hvObjectBox{%
610 \rotatebox{\hvSet@objectAngle}{%
611 \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi
612 }%
613 }%
614 \fi
615 \setlength\hvObjectWidth{\wd\hvObjectBox}%
616 %
617 % Now we save the caption with its defined \hvCapWidth
618 %
619 \ifx\hvSet@capWidth\hv@Width% captionwidth=objectwidth
620 \setlength\hvCapWidth{\hvObjectWidth}%
621 \else
622 \ifx\hvSet@capWidth\hv@Height% captionwidth=objectheight
623 \setlength\hvCapWidth{\ht\hvObjectBox}%
624 \else
625 \ifx\hvSet@capWidth\hv@LineWidth% captionwidth=objectheight
626 \setlength\hvCapWidth{\linewidth}%
627 \typeout{>>>>\the\hvCapWidth}%
628 \else
629 \ifx\hvSet@capWidth\hv@Natural% captionwidth=\linewidth-\objectwidth-separation
630 \ifhv@capbeside
631 \ifhv@wide
632 \setlength\hvCapWidth{\the\dimexpr\hvWideWidth-\hvObjectWidth-\hv@floatCapSep\relax}%
633 \else
634 \ifhv@star
635 \setlength\hvCapWidth{\the\dimexpr\textwidth-\hvObjectWidth-\hv@floatCapSep\relax}%
636 \else
637 \setlength\hvCapWidth{\the\dimexpr\linewidth-\hvObjectWidth-\hv@floatCapSep\relax}%
638 \fi
639 \fi
640 \else
641 \setlength\hvCapWidth{\columnwidth}%
642 \fi
643 \else
644 \ifhv@capbeside
645 \ifhv@wide
646 \setlength\hvCapWidth{\hvSet@capWidth\hvWideWidth}%
647 \setlength\@tempdima{\the\dimexpr\hvWideWidth-\hvObjectWidth-\hv@floatCapSep\relax}%
648 \else
649 \setlength\hvCapWidth{\hvSet@capWidth\columnwidth}%
650 \setlength\@tempdima{\the\dimexpr\columnwidth-\hvObjectWidth-\hv@floatCapSep\relax}%
651 \fi
652 \ifdim\hvCapWidth>\@tempdima
653 \setlength\hvCapWidth{\@tempdima}%
654 \fi
655 \else
656 \ifhv@wide

```

```

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

```



```

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

```

```

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

```

```

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

```

```

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

```

```

991 \if@firstcolumn% on right side
992 \setBottomCaption\setPageObject
993 \else
994 \afterpage{\setPageObject\setBottomCaption}% start next column
995 \fi
996 \else% left (even) page
997 \if@firstcolumn
998 \afterpage{\setPageObject\setBottomCaption}% start next column
999 \else
1000 \setPageObject\setBottomCaption
1001 \fi
1002 \fi
1003 \else% onecolumn
1004 \ifoddpage
1005 \setPageObject\setBottomCaption
1006 \else% even page
1007 \afterpage{\setPageObject\setBottomCaption}%
1008 \fi
1009 \fi
1010 \else% oneside
1011 \if@twocolumn
1012 \ifoddpage
1013 \if@firstcolumn% on right side
1014 \setBottomCaption\setPageObject
1015 \else
1016 \setPageObject\setBottomCaption
1017 \fi
1018 \else
1019 \if@firstcolumn% on left side
1020 \afterpage{\setPageObject\setBottomCaption}%
1021 \else
1022 \setPageObject\setBottomCaption
1023 \fi
1024 \fi
1025 \else % onecolumn
1026 \ifoddpage
1027 \setBottomCaption\setPageObject
1028 \else
1029 \afterpage{\setBottomCaption\setPageObject}%
1030 \fi
1031 \fi
1032 \fi
1033 \or% caption on the inner column 4->inner
1034 % \set@caption@object
1035 \if@twocolumn
1036 \ifoddpage
1037 \if@firstcolumn% on right side
1038 \setBottomCaption\setPageObject
1039 \else % right column on right side
1040 \setPageObject\setBottomCaption% start next firstcolumn next page
1041 \fi
1042 \else
1043 \if@firstcolumn% on left side
1044 \afterpage{\afterpage{\setBottomCaption\setPageObject}}% start next page/first column
1045 \else% left page/column
1046 \setBottomCaption\setPageObject% start on same page/column
1047 \fi
1048 \fi
1049 \else% onecolumn
1050 \setBottomCaption\setPageObject
1051 \fi
1052 \or% caption on the outer column 5->outer
1053 % \set@caption@object
1054 \if@twocolumn
1055 \ifoddpage
1056 \if@firstcolumn
1057 \afterpage{\afterpage{\setBottomCaption\setPageObject}}%

```

```

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

```

```

1124 \hv@typeout{hvfloat: switched to floattype p}%
1125 \hv@switchType>true
1126 \fi
1127 \fi
1128 \hv@typeout{do@hvFloat@doublePage: hv@tempWidthA=\the\hv@tempWidthA}%
1129 \ifhv@forceOutput
1130 \do@hvFloat@doublePAGECaptionRight{#1}% no cheque
1131 \else
1132 \checkoddpage
1133 \ifoddpage
1134 \if@twocolumn
1135 \if@firstcolumn
1136 \hv@typeout{do@hvFloat@doublePage: oddpage->twocolumn->firstcolumn}%
1137 \ifhv@switchType
1138 \hv@typeout{hvfloat: switched to floattype p}%
1139 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1140 \else
1141 \hv@typeout{calling do@hvFloat@doublePageCaptionRight}%
1142 %\afterpage{
1143 \afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1144 \fi
1145 \else
1146 \hv@typeout{do@hvFloat@doublePage: oddpage->twocolumn->secondcolumn}%
1147 \ifhv@tugboat
1148 \do@hvFloat@doublePageCaptionRight{#1}%
1149 \else
1150 \ifhv@switchType
1151 \do@hvFloat@doublePAGECaptionRight{#1}%
1152 \else
1153 \afterpage{\do@hvFloat@doublePageCaptionRight{#1}}%
1154 \fi
1155 \fi
1156 \fi
1157 \else
1158 \ifhv@switchType
1159 \do@hvFloat@doublePAGECaptionRight{#1}%
1160 \else
1161 \afterpage{\do@hvFloat@doublePageCaptionRight{#1}}%
1162 \fi
1163 \fi
1164 \else% we have an even page
1165 \if@twocolumn
1166 \if@firstcolumn
1167 \ifhv@switchType
1168 \afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}%
1169 \else
1170 \afterpage{\afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}}%
1171 \fi
1172 \else% second column
1173 \ifhv@switchType
1174 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1175 \else
1176 \afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1177 \fi
1178 \fi
1179 \else% onecolumn
1180 \ifhv@switchType
1181 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1182 \else
1183 \afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1184 \fi
1185 \fi
1186 \fi
1187 \let\c@fptop\hv@fptop
1188 \fi
1189 \endgroup% started at main macro \hvFloat
1190 }

```



```

1191 %
1192 \def\do@hvFloat@doublePageCaptionRight#1{% image on left and right page with caption on the right page
-----
1193 \hv@typeout{\do@hvFloat@doublePageCaptionRight->start}%
1194 \do@hvFloat@doublePageCaptionRightObjectLeft{0pt}%
1195 \afterpage{\do@hvFloat@doublePageCaptionRightObjectRight{#1}}%
1196 }
1197 %
1198 \def\do@hvFloat@doublePageCaptionRightObjectLeft#1{% left part of the object
1199 \hv@typeout{\do@hvFloat@doublePageCaptionRightObjectLeft: start}%
1200 \begin{\hv@floatType*}[!t]
1201 \hv@set@noverticalSpace
1202 \hfuzz=\maxdimen
1203 \let\c@hv@tempCNTfigA\c@figure
1204 \let\c@hv@tempCNTtabA\c@table
1205 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1206 \hv@typeout{Float position parameter is for left page: !t}%
1207 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1208 \clipbox*{0 -\depth}{\hv@leftPageObjectWidth}{\height}{\usebox{\hvObjectBox}%
1209 \ifx\hv@label\@empty
1210 \else
1211 \ifx\hv@floatType\hv@figure
1212 \global\refstepcounter{hv@tempCNTfigA}%
1213 \else
1214 \global\refstepcounter{hv@tempCNTtabA}% before caption
1215 \fi
1216 \label{\hv@label}%
1217 \fi
1218 \ifhv@global@sameHeight
1219 \hv@typeout{text should be of same height of both pages}%
1220 \par\noindent\phantom{\parbox{\textwidth}{\caption*{\hv@longCap}}}%
1221 \vspace{-2pt}%
1222 \fi
1223 \hv@reset@noverticalSpace
1224 \end{\hv@floatType*}%
1225 }
1226 \def\do@hvFloat@doublePageCaptionRightObjectRight#1{% right part of the object
1227 \begin{\hv@floatType*}[!t]
1228 \hv@set@noverticalSpace
1229 \hfuzz=\maxdimen
1230 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1231 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1232 \global\setlength\hv@tempWidthA{\the\dimexprlin+\oddsidemargin-\hvSet@bindCorrection}% FÜR DTK
1233 \hspace*{-\hv@tempWidthA}%
1234 \global\setlength\hv@leftPageObjectWidth{\the\dimexpr\paperwidth-lin-\evensidemargin-\hvSet@bindCorrection}% FÜR FTK
1235 \savebox{\hv@rightBox}{\clipbox*{\hv@leftPageObjectWidth}{-\depth}{\width}{\height}{\usebox{\hvObjectBox}}}%
1236 \global\setlength\hv@tempWidthB{\dimexpr\textwidth-\wd\hv@rightBox-\hvSet@bindCorrection+lin+\oddsidemargin-\hv@floatCapSep\relax}%
1237 \hv@typeout{Height of right box: \the\ht\hv@rightBox}%
1238 \hv@typeout{Depth of right box : \the\dp\hv@rightBox}%
1239 \ifdim\dp\hv@rightBox > \z@
1240 \raisebox{\depth}{\usebox{\hv@rightBox}}%
1241 \else
1242 \usebox{\hv@rightBox}
1243 \fi
1244 \c@hv@tempCNTfigB=\numexpr\c@figure-1\relax
1245 \c@hv@tempCNTtabB=\numexpr\c@table-1\relax
1246 \ifx\hv@label\@empty\else
1247 \ifx\hv@floatType\hv@figure
1248 \refstepcounter{hv@tempCNTfigB}%
1249 \else
1250 \refstepcounter{hv@tempCNTtabB}% before caption
1251 \fi
1252 \label{\hv@label-2}%
1253 \fi

```

```

1254 \ifx\hv@caption@format@temp\@empty\else
1255 \expandafter\captionsetup\expandafter{\hv@caption@format@temp}%
1256 \fi
1257 \c@figure=\numexpr\c@hv@tempCNTfigB-1\relax
1258 \c@table=\numexpr\c@hv@tempCNTtabB-1\relax
1259 \ifnum#1>\z@ % caption on the right
1260 \hv@typeout{doublePage: capAngle=\hvSet@capAngle}%
1261 \ifnum\hvSet@capAngle > \z@
1262 \hspace{\hv@floatCapSep}%
1263 \rlap{\rotatebox{\hvSet@capAngle}{\parbox[b]{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1264 \abovecaptionskip=0pt% local inside parbox
1265 \belowcaptionskip=0pt% local inside parbox
1266 \ifx\relax\hv@shortCap\relax
1267 \caption{\hv@longCap}%
1268 \else
1269 \caption[\hv@shortCap]{\hv@longCap}%
1270 \fi
1271 }}}%
1272 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1273 \else
1274 \global\setlength\hv@tempWidthB{\dimexpr\textwidth-\wd\hv@rightBox-\hvSet@bindCorrection+lin+\
1275 oddsidemargin-\hv@floatCapSep\relax}%
1276 \hspace{\hv@floatCapSep}%
1277 \rlap{\parbox[b]{\dimexpr\ht\hv@rightBox+\dp\hv@rightBox}{\hv@capVPos}{\hv@tempWidthB}{%
1278 \abovecaptionskip=0pt% local inside parbox
1279 \belowcaptionskip=0pt% local inside parbox
1280 \ifx\hv@shortCap\@empty
1281 \caption{\hv@longCap}%
1282 \else
1283 \caption[\hv@shortCap]{\hv@longCap}%
1284 \fi
1285 }}}%
1286 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1287 \fi
1288 \else % #1 = 0 caption below
1289 \ifx\relax\hv@shortCap\relax
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 \vspace{0pt}%
1297 \hv@reset@noverticalSpace
1298 \end{\hv@floatType*}
1299 %
1300 \newsavebox\hv@boxLeftPage
1301 \newsavebox\hv@boxRightPage
1302 %
1303 %% ||lin+evenside --- |lin+oddside ---||
1304 %
1305
1306 \def\do@hvFloat@doublePAGE#1{% image on left and right page with caption on the right
1307 -----
1308 % #1-> 0/1 caption under/right
1309 % \global\setlength\hv@tempWidthA{\the\dimexprlin+oddsidemargin-\hvSet@bindCorrection}%
1310 % \global\setlength\hv@leftPageObjectWidth{\the\dimexpr\paperwidth-lin-\evensidemargin-\
1311 hvSet@bindCorrection}%
1312 \expandafter\global\expandafter\savebox\expandafter\hvObjectBox\expandafter{\ifhv@use0Box\usebox{\hv0Box
1313 } \else\hv@floatObject\fi}%
1314 \expandafter\global\expandafter\savebox\expandafter\hv@boxLeftPage\expandafter{\clipbox*{0 -\depth}{ \
1315 hv@leftPageObjectWidth{ } \height}{\usebox\hvObjectBox}}%
1316 \expandafter\global\expandafter\savebox\expandafter\hv@boxRightPage\expandafter{\clipbox*{\
1317 hv@leftPageObjectWidth{ } -\depth{ } \width{ } \height}{\usebox\hvObjectBox}}%
1318 \checkoddpages
1319 \ifoddpages

```

```

1315 \hv@typeout{do@hvFloat@doublePAGE: oddpage}%
1316 \if@twocolumn
1317   \if@firstcolumn
1318     \hv@typeout{do@hvFloat@doublePAGE: ifoddpage->twocolumn->firstcolumn}%
1319     \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1320   \else
1321     \hv@typeout{do@hvFloat@doublePAGE: ifoddpage->twocolumn->secondcolumn}%
1322     \do@hvFloat@doublePAGECaptionRight{#1}%
1323   \fi
1324 \else
1325   \do@hvFloat@doublePAGECaptionRight{#1}%
1326 \fi
1327 \else
1328   \hv@typeout{do@hvFloat@doublePAGE: evenpage}%
1329   \if@twocolumn
1330     \if@firstcolumn
1331       \afterpage{\afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}}%
1332     \else
1333       \afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}%
1334     \fi
1335   \else
1336     \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}% onecolumn/left page
1337   \fi
1338 \fi
1339 \endgroup startet at main macro
1340 }
1341 %
1342 \def\do@hvFloat@doublePAGECaptionRight#1{% image on left and right page with caption on the right
-----
1343 % #1-> 0/1 caption under/right
1344 \hv@typeout{do@hvFloat@doublePAGECaptionRight->start}%
1345 \afterpage{%
1346   \hfuzz=\maxdimen
1347   \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1348   \ifhv@useOBox
1349     \global\let\hvObjectBox\hvOBox
1350   \else
1351     \global\savebox\hvObjectBox{\hv@floatObject}%
1352   \fi
1353   \noindent
1354   \global\setlength\hv@tempWidthA{\the\dimexprlin+\oddsidemargin-\hvSet@bindCorrection}%
1355   \global\setlength\hv@leftPageObjectWidth{\the\dimexpr\paperwidth-lin-\evensidemargin-\hvSet@bindCorrection}%
1356   \clipbox*{0 -\depth}{\hv@leftPageObjectWidth}{\height}{\usebox\hvObjectBox}%
1357   \null\newpage\if@twocolumn\newpage\fi
1358   \expandafter\global\expandafter\savebox\expandafter\hvObjectBox\expandafter{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1359   \noindent
1360   \hspace*{\dimexpr-\hv@tempWidthA}%
1361   \clipbox*{\the\hv@leftPageObjectWidth}{-\depth}{\width}{\height}{\usebox\hvObjectBox}%
1362   \begingroup
1363     \ifnum#1>0
1364       \medskip
1365       \ifdim\dp\hvObjectBox > \z@
1366         \rotatebox[origin=c]{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1367           \ifx\relax\hv@shortCap\relax
1368             \captionof{\hv@floatType}{\hv@longCap}%
1369           \else
1370             \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1371           \fi
1372         }}%
1373       \ifx\hv@label\@empty\else\label{\hv@label}\fi
1374     \else
1375       \rotatebox{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1376         \ifx\relax\hv@shortCap\relax
1377           \captionof{\hv@floatType}{\hv@longCap}%
1378         \else

```

```

1379         \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1380         \fi
1381     }%
1382     \ifx\hv@label\@empty\else\label{\hv@label}\fi
1383     \fi
1384     \else% caption not rotated
1385     \par\noindent
1386     \parbox{\textwidth}{%
1387         \ifx\relax\hv@shortCap\relax
1388             \captionof{\hv@floatType}{\hv@longCap}%
1389         \else
1390             \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1391         \fi
1392         \ifx\hv@label\@empty\else\label{\hv@label}\fi
1393     }%
1394     \fi
1395     \endgroup
1396     \newpage\if@twocolumn\newpage\fi
1397 }%
1398 }
1399 %
1400 %% ||lin+evenside --- |lin+oddside ---||
1401 %
1402 \def\do@hvFloat@doubleFULLPAGE#1{% image on left and right page with caption before/below/right/after
1403 % #1-> 0/1 caption under/right
1404 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1405 \ifx\hvSet@capPos\hv@After \global\hv@capPos=1
1406 \else
1407     \ifx\hvSet@capPos\hv@Before \global\hv@capPos=0
1408     \else
1409         \global\hv@capPos=2 % other caption type
1410     \fi\fi
1411     \checkoddpages
1412     \global\savebox{\hv@objectBox}{\ifhv@use@Box\usebox{\hv@Box}\else\hv@floatObject\fi}%
1413     \global\setlength\hv@tempWidthA{\dimexpr-\oddsidemargin-\lin-\parindent+\hvSet@bindCorrection}% the
1414         width of the right side offset
1415     \global\setlength\hv@tempWidthB{\dimexpr\ht\hvCaptionBox+\wd\hv@objectBox+2\hvSet@bindCorrection}%
1416     \global\setlength\hv@leftPageObjectWidth{\dimexpr\paperwidth-\hvSet@bindCorrection}%
1417     % \savebox\hv@leftBox{\clipbox*{0 0 \the\hv@leftPageObjectWidth{ \height}{\usebox\hv@objectBox}}}%
1418     % \savebox\hv@rightBox{\clipbox*{\the\hv@leftPageObjectWidth{ \depth{ \width{ \height}{\usebox\hv@objectBox}}}%
1419 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1420 \ifoddpage
1421     \hv@typeout{\do@hvFloat@doubleFULLPAGE: ifoddpage=true}%
1422     \ifcase\hv@capPos % =0 Caption before
1423     \hv@typeout{\do@hvFloat@doubleFULLPAGE: caption before}%
1424     \if@twocolumn
1425     \hv@typeout{\do@hvFloat@doubleFULLPAGE: twocolumn=true}%
1426     \if@firstcolumn
1427     \hv@typeout{\do@hvFloat@doubleFULLPAGE: firstcolumn=true}%
1428     \ifhv@twoColumnCaption
1429     \hv@typeout{\do@hvFloat@doubleFULLPAGE: twoColumnCaption=true}%
1430     \set@Normal@Bottom@Caption*
1431     \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1432     \else
1433     \afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1434     \fi
1435     \else% \if@firstcolumn
1436     \set@Normal@Bottom@Caption
1437     \do@hvFloat@doubleFULLPAGE@CaptionBefore
1438     \fi
1439     \else% \if@twocolumn
1440     \set@Normal@Bottom@Caption
1441     \do@hvFloat@doubleFULLPAGE@CaptionBefore
1442     \fi
1443     \or % =1 Caption after
1444     \hv@typeout{\do@hvFloat@doubleFULLPAGE: caption after}%

```

```

1444 \ifhv@twoColumnCaption
1445 \hv@typeout{do@hvFloat@doubleFULLPAGE: twoColumnCaption=true}%
1446 \if@firstcolumn
1447 \hv@typeout{do@hvFloat@doubleFULLPAGE: firstcolumn=true}%
1448 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol}%
1449 \else
1450 \hv@typeout{do@hvFloat@doubleFULLPAGE: firstcolumn=false}%
1451 \do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol
1452 \fi
1453 \else
1454 \if@twocolumn
1455 \if@firstcolumn
1456 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter}%
1457 \else
1458 \do@hvFloat@doubleFULLPAGE@CaptionAfter
1459 \fi
1460 \else
1461 \do@hvFloat@doubleFULLPAGE@CaptionAfter
1462 \fi
1463 \fi
1464 \else% ifcase >1 all other Captions
1465 \if@twocolumn
1466 \if@firstcolumn
1467 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}%
1468 \else
1469 \do@hvFloat@doubleFULLPAGE@CaptionOther{#1}%
1470 \fi
1471 \else % if@twocolumn
1472 \do@hvFloat@doubleFULLPAGE@CaptionOther{#1}%
1473 \fi
1474 \fi% ifcase
1475 \else% we have an even page
1476 \ifcase\hv@capPos% Before
1477 \if@twocolumn
1478 \if@firstcolumn
1479 \ifhv@twoColumnCaption
1480 \afterpage{\afterpage\set@Normal@Bottom@Caption*\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}%
1481 \else
1482 \afterpage{\afterpage{\afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}}%
1483 \fi
1484 \else
1485 \afterpage{\afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}%
1486 \fi
1487 \else% if@twocolumn
1488 \afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1489 \fi
1490 \or % capPos after
1491 \if@twocolumn
1492 \if@firstcolumn
1493 \ifhv@twoColumnCaption
1494 \afterpage{\afterpage\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol{#1}}}%
1495 \else
1496 \afterpage{\afterpage\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter{#1}}}%
1497 \fi
1498 \else
1499 \ifhv@twoColumnCaption
1500 \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol{#1}}}%
1501 \else
1502 \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter{#1}}}%
1503 \fi
1504 \fi
1505 \else% if@twocolumn
1506 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter}%
1507 \fi
1508 \else % ifcase Any other caption

```

```

1509 \if@twocolumn
1510 \if@firstcolumn
1511 \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}}%
1512 \else
1513 \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}}%
1514 \fi
1515 \else
1516 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}%
1517 \fi
1518 \fi% lifcase
1519 \fi% main ifoddpge
1520 \endgroup% started at main macro \hvFloat
1521 }
1522
1523 \def\set@Normal@Bottom@Caption{\@ifnextchar*\set@Normal@Bottom@CaptionStar\set@Normal@Bottom@Caption@}
1524 \def\set@Normal@Bottom@Caption@{%
1525 \begin{\hv@floatType}[!b]
1526 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1527 \ifhv@separatorLine\drawSepLine\fi
1528 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1529 \ifhv@onlyText
1530 \hv@longCap
1531 \else
1532 \ifx\hv@shortCap\@empty
1533 \captionof{\hv@floatType}{\hv@longCap}%
1534 \else
1535 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1536 \fi
1537 \fi
1538 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1539 \end{\hv@floatType}%
1540 }
1541 \def\set@Normal@Bottom@CaptionStar*{%
1542 \begin{\hv@floatType*}[!b]
1543 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1544 \ifhv@separatorLine\drawSepLine\fi
1545 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1546 \ifhv@onlyText
1547 \hv@longCap
1548 \else
1549 \ifx\hv@shortCap\@empty
1550 \captionof{\hv@floatType}{\hv@longCap}%
1551 \else
1552 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1553 \fi
1554 \fi
1555 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1556 \end{\hv@floatType*}%
1557 }
1558
1559 \def\do@hvFloat@doubleFULLPAGE@CaptionBefore{%
1560 \afterpage{%
1561 \hfuzz=\maxdimen
1562 \global\savebox{\hv@objectBox}{\ifhv@useOBox\usebox{\hv@OBox}\else\hv@floatObject\fi}%
1563 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\lineskip
}% no interlineskip
1564 \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1565 \thispagestyle{empty}%
1566 \ifx\hv@floatType\hv@figure
1567 \global\refstepcounter{hv@tempCNTfigB}%
1568 \else
1569 \global\refstepcounter{hv@tempCNTtabB}% before caption
1570 \fi
1571 \expandafter\label\expandafter{\hv@label}%
1572 \clipbox*{0 0 \the\hv@leftPageObjectWidth{} \height}{\usebox{\hv@objectBox}%
1573 \afterpage{%
1574 \if@twocolumn\newpage\null\newpage\fi

```

```

1575 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1576 \thispagestyle{empty}%
1577 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\
    lineskip}% -0.5\paperheight+0.5\ht\hvObjectBox
1578 \hspace*{\hv@tempWidthA}%
1579 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1580 \clipbox*{\the\hv@leftPageObjectWidth{\dp\hvObjectBox}{\wd\hvObjectBox}{\ht\hvObjectBox}{\usebox\
    \hvObjectBox}%
1581 \ifx\hv@floatType\hv@figure
1582 \global\refstepcounter{hv@tempCNTfigA}%
1583 \else
1584 \global\refstepcounter{hv@tempCNTtabA}% before caption
1585 \fi
1586 \expandafter\label\expandafter{\hv@label-2}%
1587 \newpage\if@twocolumn\null\newpage\fi
1588 }%
1589 }
1590
1591 \newif\ifhv@temp
1592
1593 \def\do@hvFloat@doubleFULLPAGE@CaptionAfter{%
1594 \afterpage{%
1595 \hfuzz=\maxdimen
1596 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1597 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\lineskip
    }% no interlineskip
1598 \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1599 \thispagestyle{empty}%
1600 \clipbox*{0\the\dp\hvObjectBox}{\the\hv@leftPageObjectWidth}{\the\ht\hvObjectBox}{\usebox\
    \hvObjectBox}%
1601 \ifx\hv@floatType\hv@figure
1602 \refstepcounter{hv@tempCNTfigA}%
1603 \else
1604 \refstepcounter{hv@tempCNTtabA}% before caption
1605 \fi
1606 \ifx\hv@label\@empty\else\label{\hv@label}\fi
1607 \newpage\if@twocolumn\null\newpage\fi
1608 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1609 \thispagestyle{empty}%
1610 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\
    lineskip}% -0.5\paperheight+0.5\ht\hvObjectBox
1611 \hspace*{\hv@tempWidthA}%
1612 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1613 \clipbox*{\the\hv@leftPageObjectWidth{\dp\hvObjectBox}{\wd\hvObjectBox}{\ht\hvObjectBox}{\usebox\
    \hvObjectBox}%
1614 \ifx\hv@floatType\hv@figure
1615 \refstepcounter{hv@tempCNTfigB}%
1616 \else
1617 \refstepcounter{hv@tempCNTtabB}% before caption
1618 \fi
1619 \expandafter\label\expandafter{\hv@label-2}%
1620 \newpage\if@twocolumn\null\newpage\fi
1621 \begin{\hv@floatType}[!b]
1622 \ifhv@separatorLine\drawSepLine\fi
1623 \expandafter\captionsetup\expandafter{\hv@caption@format}%
1624 \ifhv@onlyText
1625 \hv@longCap
1626 \else
1627 \ifx\hv@shortCap\@empty
1628 \captionof{\hv@floatType}{\hv@longCap}%
1629 \else
1630 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1631 \fi
1632 \fi
1633 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1634 \end{\hv@floatType}%
1635 }%

```



```

1636 }
1637
1638 \def\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol{%
1639 \hv@typeout{do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol: start} %
1640 \afterpage{%
1641 \hv@typeout{do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol: afterpage start} %
1642 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1643 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\lineskip
    }% no interlineskip
1644 \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1645 \thispagestyle{empty}%
1646 \ifx\hv@floatType\hv@figure
1647 \refstepcounter{hv@tempCNTfigA}%
1648 \else
1649 \refstepcounter{hv@tempCNTtabA}% before caption
1650 \fi
1651 \ifx\hv@label\empty\else\label{\hv@label}\fi
1652 \clipbox*{0 0 \the\hv@leftPageObjectWidth{ } \height}{\usebox{\hvObjectBox}%
1653 \newpage\if@twocolumn\null\newpage\fi
1654 \hv@typeout{do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol: insert newpage} %
1655 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1656 \thispagestyle{empty}%
1657 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\
    lineskip}% -0.5\paperheight+0.5\ht\hvObjectBox
1658 \hspace*{\hv@tempWidthA}%
1659 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1660 \clipbox*{\the\hv@leftPageObjectWidth{ } \dp\hvObjectBox{ } \wd\hvObjectBox{ } \ht\hvObjectBox{ }\usebox
    \hvObjectBox}%
1661 \ifx\hv@floatType\hv@figure
1662 \refstepcounter{hv@tempCNTfigB}%
1663 \else
1664 \refstepcounter{hv@tempCNTtabB}% before caption
1665 \fi
1666 \ifx\hv@label\empty\else\label{\hv@label-2}\fi
1667 \newpage\if@twocolumn\null\newpage\fi
1668 \begin{\hv@floatType*}[!b]
1669 \hv@twoColumnCaptiontrue
1670 \ifhv@separatorLine\drawSepLine\fi
1671 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1672 \ifhv@onlyText
1673 \hv@longCap
1674 \else
1675 \ifx\hv@shortCap\empty
1676 \captionof{\hv@floatType}{\hv@longCap}%
1677 \else
1678 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1679 \fi
1680 \fi
1681 \ifx\hv@label\empty\else\label{\hv@label-cap}\fi
1682 \end{\hv@floatType*}%
1683 }%
1684 \hv@typeout{do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol: afterpage done} %
1685 }
1686
1687 \def\do@hvFloat@doubleFULLPAGE@CaptionOther#1{%
1688 \afterpage{%
1689 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\lineskip
    }% -0.5\paperheight+0.5\ht\hvObjectBox
1690 \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1691 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1692 \thispagestyle{empty}%
1693 \hfuzz=\maxdimen
1694 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1695 \clipbox*{0 \depth{ } \hv@leftPageObjectWidth{ } \height}{\usebox{\hvObjectBox}%
1696 \ifx\hv@floatType\hv@figure
1697 \refstepcounter{hv@tempCNTfigA}%
1698 \else

```

```

1699 \refstepcounter{hv@tempCNTtabA}% before caption
1700 \fi
1701 \label{\hv@label}%
1702 \afterpage{%
1703   \if@twocolumn\newpage\if@firstcolumn\else\newpage\fi\fi
1704   \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1705   \thispagestyle{empty}%
1706   \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+1.5\lineskip}%
1707   \hspace*{\hv@tempWidthA}%
1708   \clipbox*{\hv@leftPageObjectWidth}{\dp\hvObjectBox}{\wd\hvObjectBox}{\ht\hvObjectBox}{\usebox\hvObjectBox}%
1709   \ifx\hv@floatType\hv@figure
1710     \refstepcounter{hv@tempCNTfigB}%
1711   \else
1712     \refstepcounter{hv@tempCNTtabB}% before caption
1713     \fi
1714     \expandafter\label\expandafter{\hv@label-2}%
1715     \savebox\hvCaptionBox{\parbox{0.9\ht\hvObjectBox}{\captionof{\hv@floatType}{\hv@longCap}}}%
1716     \ifnum#1 > 0\relax % rotation with 90°
1717 % \setlength\hv@tempWidthB{\dimexpr\ht\hvCaptionBox+\wd\hvObjectBox+2\hvSet@bindCorrection}%
1718 % \ifdim\hv@tempWidthB < 2\paperwidth
1719 % \rotatebox[origin=lb]{90}{\makebox[\paperheight][c]{\parbox{0.8\ht\hvObjectBox}{%
1720 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1721 % \ifhv@onlyText
1722 % \hv@longCap
1723 % \else
1724 % \ifx\hv@shortCap\@empty
1725 % \captionof{\hv@floatType}{\hv@longCap}%
1726 % \else
1727 % \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1728 % \fi
1729 % \fi
1730 % }}}% rotatebox
1731 % \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1732 % \else ifdim: no space left on page
1733 % \put(-2\ht\hvCaptionBox,0.5\ht\hvObjectBox){\makebox(0,0){\rotatebox{90}{\minipage{\textwidth}\centering
1734 % \parbox{0.8\textwidth}{%
1735 % \ifhv@onlyText
1736 % \hv@longCap
1737 % \else
1738 % \ifx\hv@shortCap\@empty
1739 % \captionof{\hv@floatType}{\hv@longCap}%
1740 % \else
1741 % \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1742 % \fi
1743 % \fi
1744 % }}%
1745 % \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1746 % \endminipage}}}%
1747 % \fi
1748 % \else ifnum, caption not rotated, under or over the right page
1749 % \setlength\hv@tempWidthA{\dimexpr\paperheight-\ht\hvObjectBox}%
1750 % \ifdim\hv@tempWidthA > \ht\hvCaptionBox
1751 % \else
1752 % \put(\the\dimexpr1.5\paperwidth-\wd\hvObjectBox-\hvSet@bindCorrection,\the\dimexpr\ht\hvCaptionBox+\abovecaptionskip+\belowcaptionskip){\makebox[0pt][c]{\parbox{\textwidth}{%
1753 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1754 % \ifhv@onlyText
1755 % \hv@longCap
1756 % \else
1757 % \ifx\hv@shortCap\@empty
1758 % \captionof{\hv@floatType}{\hv@longCap}%
1759 % \else
1760 % \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1761 % \fi

```

```

1762         \fi
1763     }}}%
1764     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1765     \fi
1766     \fi% end \ifnum#1>0
1767     \newpage\if@twocolumn\null\newpage\fi
1768 }%
1769 }%
1770 }
1771
1772
1773 \def\setBottomCaption{%
1774     \begin{\hv@floatType}[!b]%
1775     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1776     \ifhv@separatorLine\drawSepLine\fi
1777     \par
1778     \usebox\hvCaptionBox
1779     \end{\hv@floatType}%
1780 }
1781
1782 \def\setPageObject{%
1783     \ifhv@star
1784         \begin{\hv@floatType*}[p]%
1785     \else
1786         \begin{\hv@floatType}[p]%
1787     \fi
1788     \hfuzz=\maxdimen
1789     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1790     \ifhv@FULLPAGE
1791         \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep}%-0.5\baselineskip%
1792         \checkoddpage
1793         \if@twoside
1794             \ifoddpage
1795                 \hspace*{\the\dimexpr-\oddsidemargin-\parindent-\lin}%
1796             \else
1797                 \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1798             \fi
1799         \else
1800             \hspace*{\the\dimexpr-\oddsidemargin-\parindent-\lin}%
1801         \fi
1802         \AtBeginShipoutNext{\thispagestyle{empty}}%
1803         \usebox\hvObjectBox
1804     \else
1805         \usebox\hvObjectBox
1806     \fi
1807     \ifhv@star
1808         \end{\hv@floatType*}%
1809     \else
1810         \end{\hv@floatType}%
1811     \fi
1812 }
1813
1814 \ExplSyntaxOn
1815
1816 \def\getMultiCaptionAndLabel{%
1817     \global\sbox\hvCaptionBox{\minipage[b]{\linewidth}%
1818     \captionsetup{aboveskip=\z@, belowskip=\z@, position=below, parbox=none}% , skip=-1ex}%
1819     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1820     \parskip=-0.5\baselineskip
1821     \hv@cntb=\clist_count:N\l_clist_Type
1822     \advance\hv@cntb by \@ne
1823     \hv@cna=1
1824     \loop
1825         \edef\@capytype{\clist_item:Nn\l_clist_Type{\hv@cna}}%
1826         \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{\hv@cna}}%
1827         \ifx\@tempa\@empty
1828             \caption{\clist_item:Nn\l_clist_Type{\hv@cna}}%

```

```

1829 \else
1830 \expandafter\caption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{hv@canta}}%
1831 \fi
1832 \edef\@tempa{\clist_item:Nn\l_clist_Label{hv@canta}}%
1833 \ifx\@tempa\empty
1834 \else
1835 \expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{hv@canta}-cap}\fi
1836 \advance\hv@canta by \@ne
1837 \ifnum\hv@canta<\hv@cntb
1838 \repeat
1839 \vspace{-\baselineskip}% no vspace at the end
1840 \endminipage}%
1841 }
1842
1843 \def\getMultiObjectAndLabel{%
1844 \global\sbox\hvObjectBox{%
1845 \ifhv@vFill
1846 \minipage[b][\textheight][s]{\columnwidth}%
1847 \else
1848 \minipage{\columnwidth}%
1849 \fi
1850 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1851 \ifx\hvSet@objectPos\hv@Right\raggedleft\else
1852 \ifx\hvSet@objectPos\hv@Left\raggedleft\else
1853 \ifx\hvSet@objectPos\hv@Center\centering
1854 \fi\fi\fi
1855 \hv@cntb=\clist_count:N\l_clist_Type
1856 \advance\hv@cntb by \@ne
1857 \hv@canta=1
1858 \loop
1859 \def\@temp{\clist_item:Nn\l_clist_Object{hv@canta}}%
1860 \ifhv@objectFrame\frame{\@temp}\else\@temp\fi
1861 \edef\@tempa{\clist_item:Nn\l_clist_Label{hv@canta}}%
1862 \edef\@tempb{\clist_item:Nn\l_clist_Type{hv@canta}}%
1863 \edef\@capttype{hv@p\@tempb}%
1864 \ifx\@tempa\empty
1865 \else
1866 \refstepcounter{\@capttype}%
1867 \expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{hv@canta}}%
1868 \fi
1869 \ifnum\hv@canta<\clist_count:N\l_clist_Type\par\hv@vskip\fi
1870 \advance\hv@canta by \@ne
1871 \ifnum\hv@canta<\hv@cntb
1872 \ifhv@vFill\vfill\fi
1873 \repeat
1874 \endminipage}%
1875 }
1876 \def\getMultiSubCaptionAndLabel{%
1877 \global\sbox\hvCaptionBox{%
1878 \minipage{\linewidth}%
1879 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1880 \setlength\belowcaptionskip{5pt}%
1881 \setlength\abovecaptionskip{0pt}%
1882 \xdef\@capttype{\clist_item:Nn\l_clist_Type{1}}% the same for all subfloats
1883 \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{1}}%
1884 \ifx\@tempa\empty
1885 \caption{\clist_item:Nn\l_clist_Caption{1}}%
1886 \else
1887 \expandafter\caption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{1}}%
1888 \fi
1889 \edef\@tempa{\clist_item:Nn\l_clist_Label{1}}%
1890 \ifx\@tempa\empty\else\expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{1}-cap}\fi
1891 \endminipage}%
1892 }
1893
1894 \def\getMultiSubObjectAndLabel{%
1895 \global\sbox\hvObjectBox{%

```

```

1896 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1897 \ifhv@vFill
1898 \minipage[b][\textheight][s]{\columnwidth}%
1899 \captionsetup{belowskip=0pt}%
1900 \else
1901 \minipage{\columnwidth}%
1902 \fi
1903 % \ifx\hv@subcaption@format\@empty\else
1904 % \expandafter
1905 % \captionsetup\expandafter[\expandafter s\expandafter u\expandafter b\expandafter]\expandafter
1906 % {\hv@subcaption@format}%
1907 % \fi
1908 \ifx\hvSet@objectPos\hv@Right\raggedleft\else
1909 \ifx\hvSet@objectPos\hv@Left\raggedleft\else
1910 \ifx\hvSet@objectPos\hv@Center\centering
1911 \fi\fi\fi
1912 \hv@cmtb=\clist_count:N\l_clist_Caption
1913 \advance\hv@cmtb by \@ne
1914 \hv@cmta=2
1915 \edef\@captype{\clist_item:Nn\l_clist_Type{1}}% the same for all subfloats
1916 \ifx\@tempa\@empty
1917 \else
1918 % \refstepcounter{\@captype}%
1919 % \expandafter\label\expandafter{\@tempa}%
1920 \fi
1921 \loop
1922 \def\@temp{\clist_item:Nn\l_clist_Object{\hv@cmta}}%
1923 \ifhv@objectFrame\frame{\@temp}\else\@temp\fi
1924 \begingroup
1925 \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{\hv@cmta}}%
1926 \ifx\@tempa\@empty
1927 \subcaption{\clist_item:Nn\l_clist_Caption{\hv@cmta}}%
1928 \else
1929 \expandafter\subcaption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{\hv@cmta}}%
1930 \fi
1931 \edef\@tempa{\clist_item:Nn\l_clist_Label{\hv@cmta}}%
1932 \ifx\@tempa\@empty
1933 \else
1934 \expandafter\label\expandafter{\@tempa}{\clist_item:Nn\l_clist_Label{\hv@cmta}}%
1935 \fi
1936 \endgroup
1937 \ifnum\hv@cmta<\clist_count:N\l_clist_Type\par\hv@vskip\fi
1938 \advance\hv@cmta by \@ne
1939 \ifnum\hv@cmta<\hv@cmtb
1940 \ifhv@vFill\vfill\fi
1941 \repeat
1942 \edef\@tempa{\clist_item:Nn\l_clist_Label{1}}% the main label at the end
1943 \ifx\@tempa\@empty
1944 \else
1945 \edef\@temp{\hv@p\@captype}%
1946 \refstepcounter{\@temp}%
1947 \expandafter\label\expandafter{\@tempa}%
1948 \fi
1949 \endminipage}%
1950 }
1951 \ExplSyntaxOff
1952
1953 \def\getSingleCaptionAndLabel{%
1954 \global\sbox\hvCaptionBox{\minipage{\linewidth}%
1955 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1956 \setlength\belowcaptionskip{5pt}%
1957 \setlength\abovecaptionskip{0pt}%
1958 \ifhv@onlyText
1959 \hv@LongCap
1960 \else
1961 \edef\@captype{\hv@floatType}%
1962 \expandafter\ifx\expandafter\relax\hv@shortCap\relax

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1963     \caption{\hv@longCap}%
1964   \else
1965     \caption[\hv@shortCap]{\hv@longCap}%
1966   \fi
1967 \fi
1968 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1969 \endminipage}%
1970 }
1971
1972 \def\set@caption@object#1{%   first caption, then object #1=\hv@floatType
1973   \ifhv@multiFloat
1974     \setcounter{hv@pfigure}{\value{figure}}%
1975     \setcounter{hv@ptable}{\value{table}}%
1976     \getMultiCaptionAndLabel
1977   \else
1978     \ifhv@subFloat
1979       \setcounter{hv@pfigure}{\value{figure}}%
1980       \setcounter{hv@ptable}{\value{table}}%
1981       \getMultiSubCaptionAndLabel
1982     \else
1983       \getSingleCaptionAndLabel
1984     \fi
1985   \fi
1986   \edef\@capttype{hv@p#1}%
1987   \ifhv@multiFloat
1988     \getMultiObjectAndLabel
1989   \else
1990     \ifhv@subFloat
1991       \getMultiSubObjectAndLabel
1992     \else
1993       \global\sbox\hvObjectBox{%
1994         \refstepcounter{\@capttype}%
1995         \ifhv@objectFrame\frame{\hv@floatObject}\else\hv@floatObject\fi
1996         \expandafter\ifx\expandafter\relax\hv@label\relax
1997           \else
1998             \expandafter\label\expandafter{\hv@label}%
1999           \fi
2000       }%
2001     \fi
2002   \fi
2003 }
2004 %
2005 \endinput

```