

Package hvfloat

Controlling captions, fullpage and doublepage floats

ver 2.34

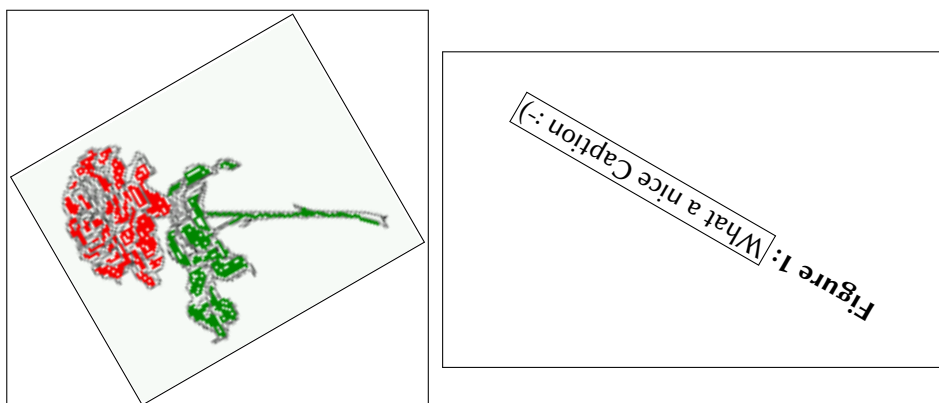
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The package hvfloat defines a macro to place objects and captions of floats in different positions with different rotating angles.

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 19 and 19.2 on page 45 and the optional `+` is explained in section 17.3 on page 34.

`\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:

$$\backslash hvDefFloatStyle\{name\}\{setting\}$$

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

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

3 The default use of floating environments

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

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



Fig. 2

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

Code for figure 2:

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

Code for table 3:

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

Tab. 3

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

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

```

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

```

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

4 Caption width

4.1 Default – natural width

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

```

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

```

Fig. 3

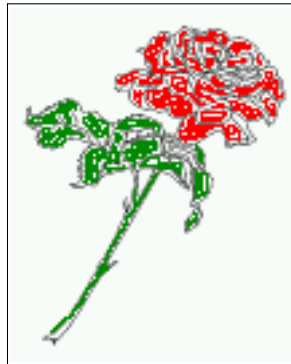


Figure 3: Default caption width setting, which is the natural width with respect to the current linewidth.

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

For a caption beside an object, the *natural* caption width (without the optional argument `wide`) is given by the current linewidth minus the width of the object and the space between object and caption, which is set by `floatCapSep` (see Table 2 on page 5).

```

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

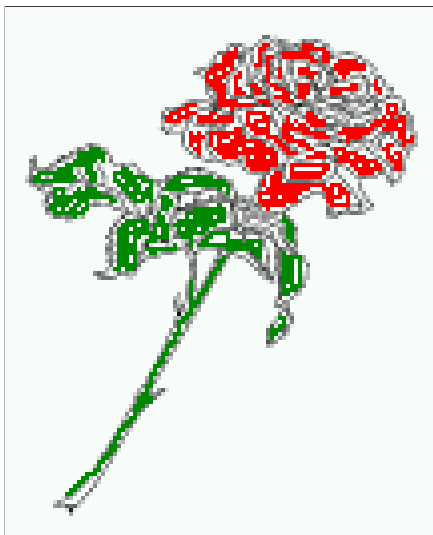


Figure 4: Caption right beside with a *natural* width, which is given by the width of the object, the separation between object and caption, and the current linewidth.

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}
```

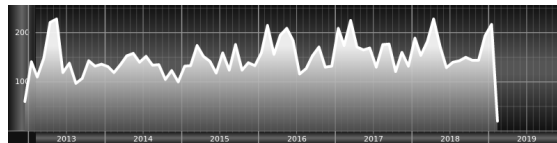


Figure 7: Caption below with a width of the given object which may be a problem if it is a very small object.

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

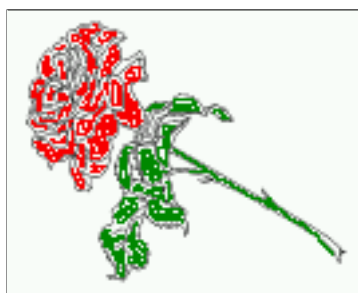


Figure 11: Caption vertically centered right beside the float with a caption width of the height of the image and a rotation of the caption and the object.

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

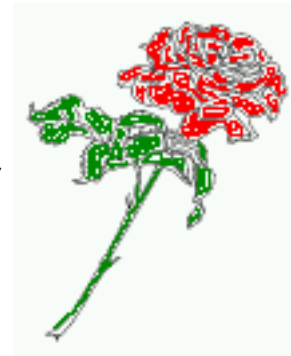
Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all!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

Code for figure 15:

```
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 odd page, the reason why figure 12 has the caption for *inner* on the right side and figure 14 for *outer* on the left side.

7 Vertical Position of the Caption

The caption can be placed beside the object in the positions

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

The code for figure 16:

```
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

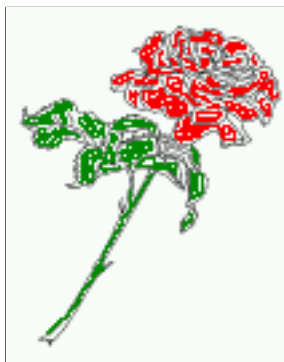


Fig. 17

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}
```

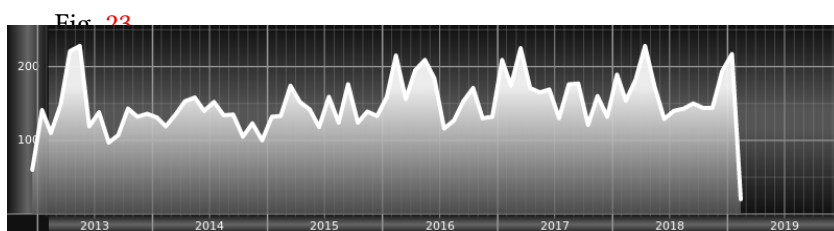
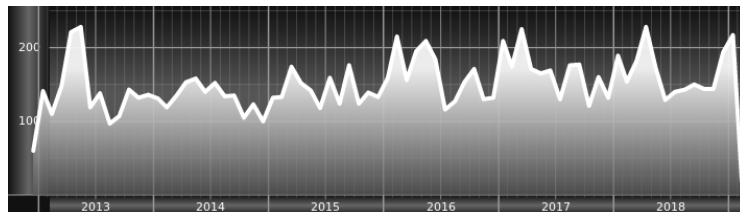


Figure 23: Caption at top right beside the float and object position left and the option `\texttt{wide}`.

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}
```

Figure 24: Caption at top left beside the object and object position left and the option `\texttt{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}
```

Fig. 25

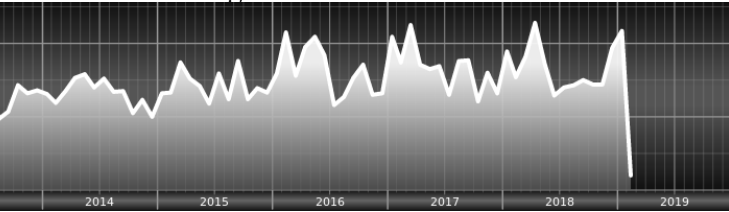


Figure 25: Caption at top and inner beside the float and object position right and the option wide.

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}
```

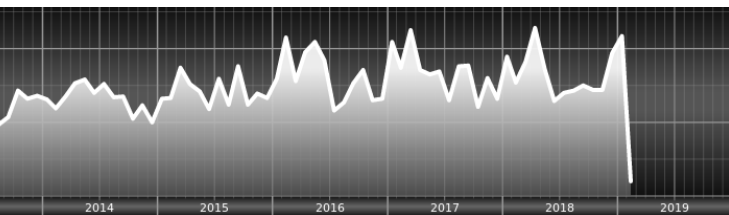


Figure 26: Caption at top inner beside the float and object position right and the option wide.

Fig. 26

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}
```

Fig. 27:

at top
side the
d object
right and
on wide.

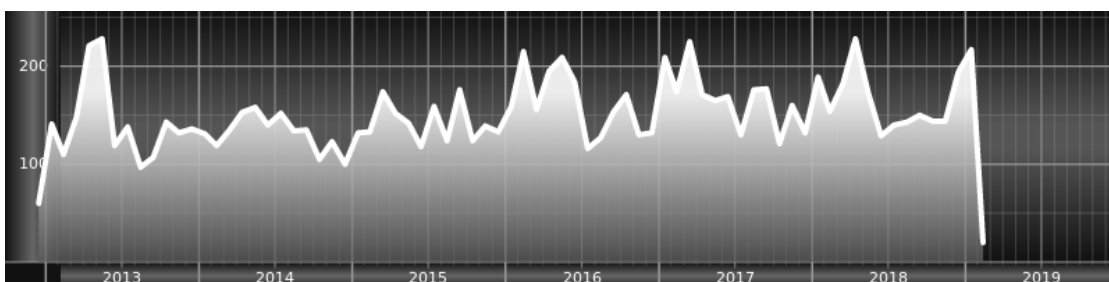


Fig. 27

11 The star version \hvFloat*

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

```
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.

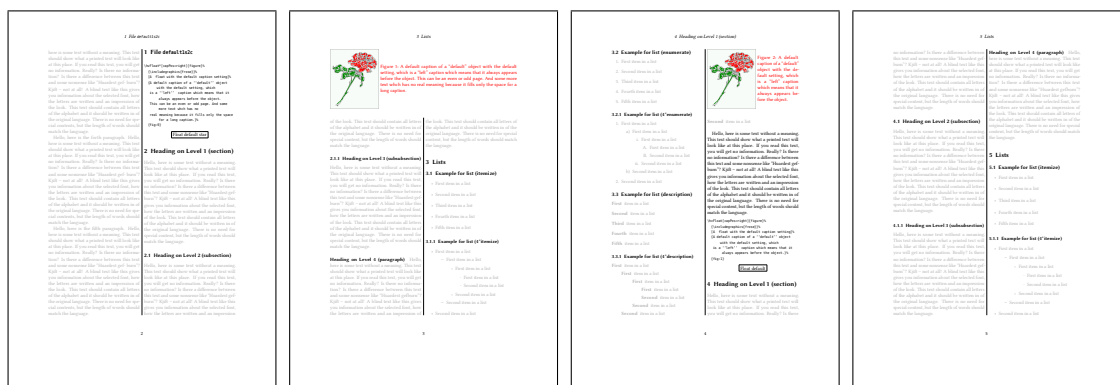


Figure 28: Output of default1s2c (pages 2–5)

12 Full Page Width in Landscape Mode

If you do not want to load the package lscap (or pdfscape) you can use the floatPos=p option to put the image on an own page and rotated by 90 degrees (figure 29).

Code for figure 29:

```
1 \hvFloat[%
2   floatPos=p,
3   capPos=bottom,
4   rotAngle=90,
5   objectPos=center,
6 ]{figure}{\includegraphics[width=0.9\textwidth]{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

Fig. 29 here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of

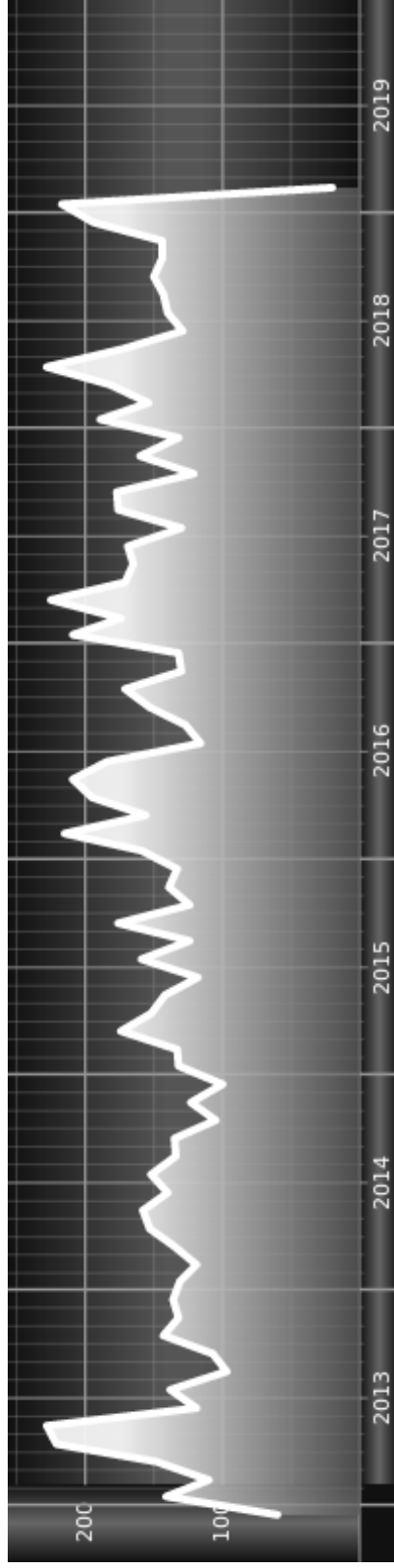


Figure 29: Caption and object in landscape mode. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

13 The nonFloat Option

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

The code for figure 30:

```
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}
```

Fig. 30

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

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

13 The nonFloat Option

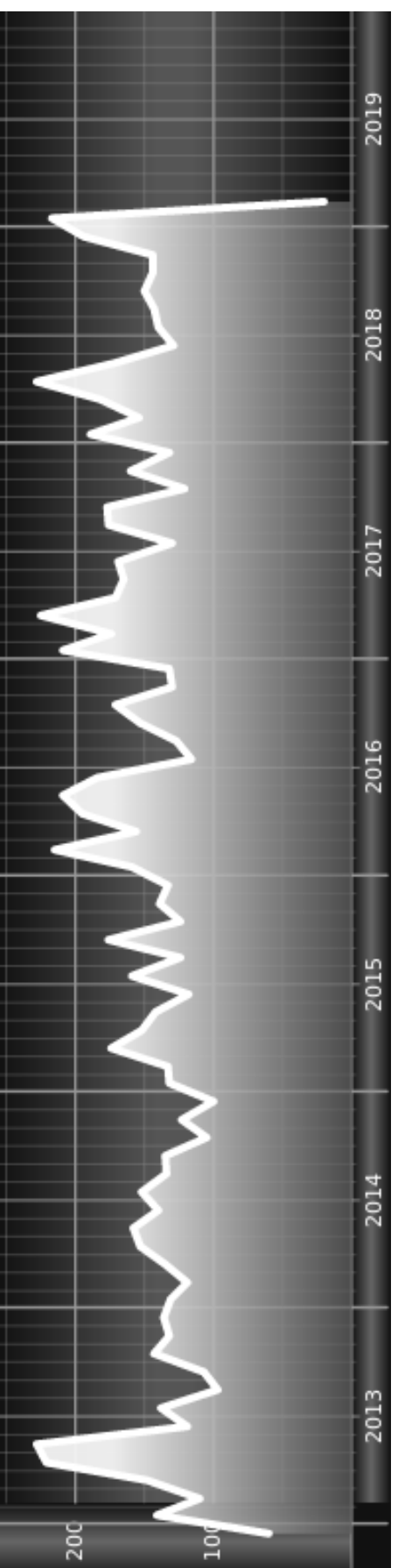
Sometimes it is better to put a “float” in a specific position of the page. This is possible with the nonfloat package and the keyword nonFloat.

```
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. 31

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

Figure 30: Caption right beside the float and object position left. The caption rotated by -90 degrees. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.



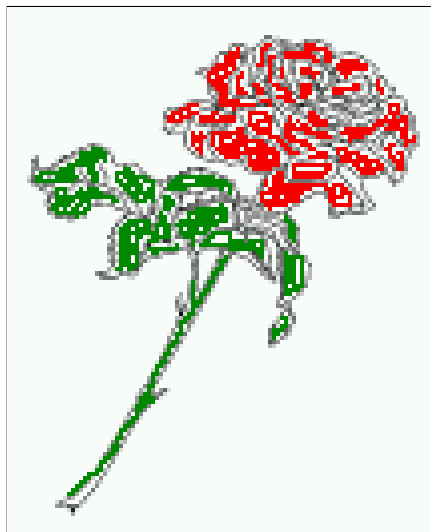


Figure 31: Caption of a “nonfloat” Object, using the nonfloat Package

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

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

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

```

In this case leave the third parameter empty.

Table 4: Demonstration of the useOBox Parameter

Tab. 4

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

Tab. 5

15 Text and objects

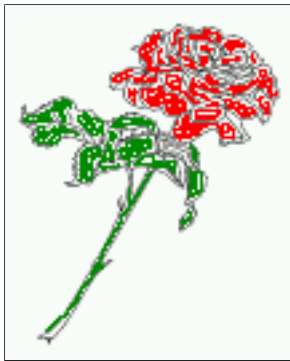
With the onlyText keyword it is no problem to put some text beside an image without getting the caption title Figure/Table. The object still can be a floating one or a nonfloating if the nonfloat keyword is used.

The code for figure 15:

```

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}

```



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

Fig. 15

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

16 Environment hvFloatEnv

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

```

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

```

Table 6: A caption for a nice table

left	center	right
L	C	R

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

```

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

```

Table 7: A caption for a nice table

left	center	right
L	C	R

17 Full page objects in onecolumn mode

For an image or table which needs the whole space of a page the caption can be printed at the bottom of the preceeding or following page. It is possible in oneside and twoside mode, but makes only real sense in the twoside mode. hvfloat defines three additional optional arguments for placing images in a complete column, page or paper:

```

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

```

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

17.1 Using the textarea

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

17.1.1 Using the default or capPos=before

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

```

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

```



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

```

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 <code>pagestyle</code> is set to empty
multiFloat	true false	For multiple objects with captions for every object. See section 17.3 on page 34.
subFloat	true false	For multiple objects with one main and more subcaptions. See section 18 on page 36.
separatorLine	true	Put a line with a predefined width of 0.4pt between the text and the caption. Only valid for the keyword <code>fullpage</code> .
capPos	value	caption before, after an object or on an evenPage or oddPage.

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

shows the output for a oneside document with a setting capPos=before .

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

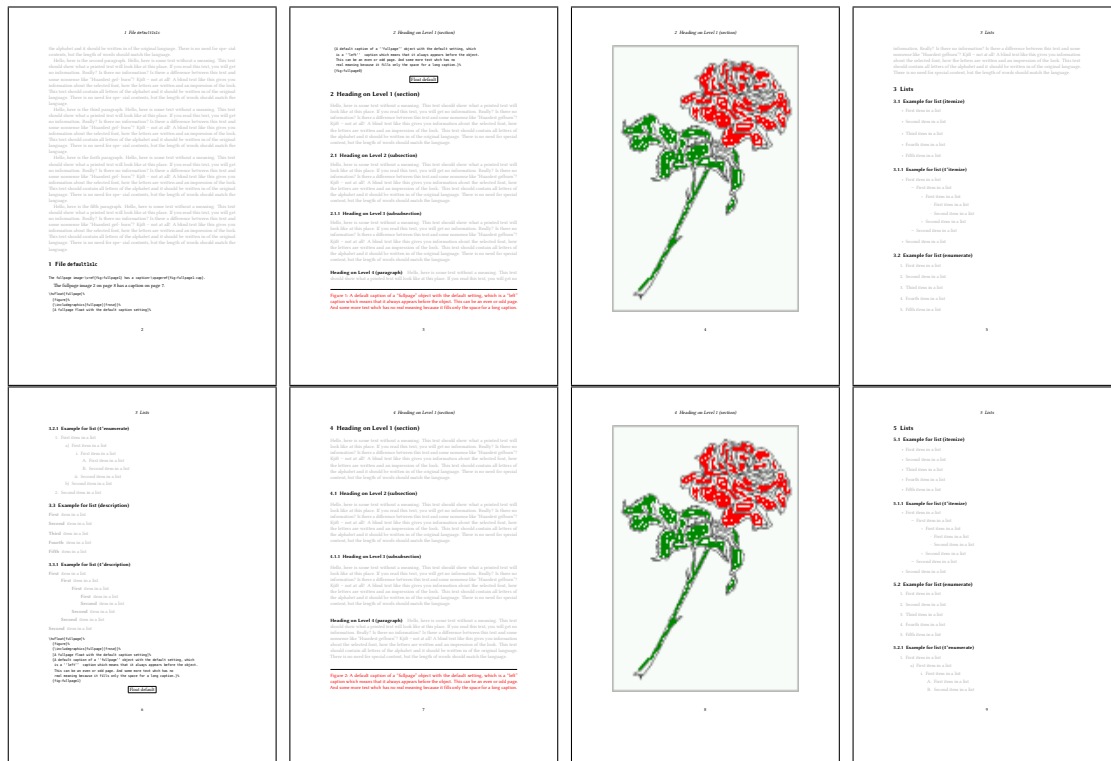


Figure 33: Output of default1s1c (pages 2–9)

17.1.2 Using capPos=after

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

```

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}

```

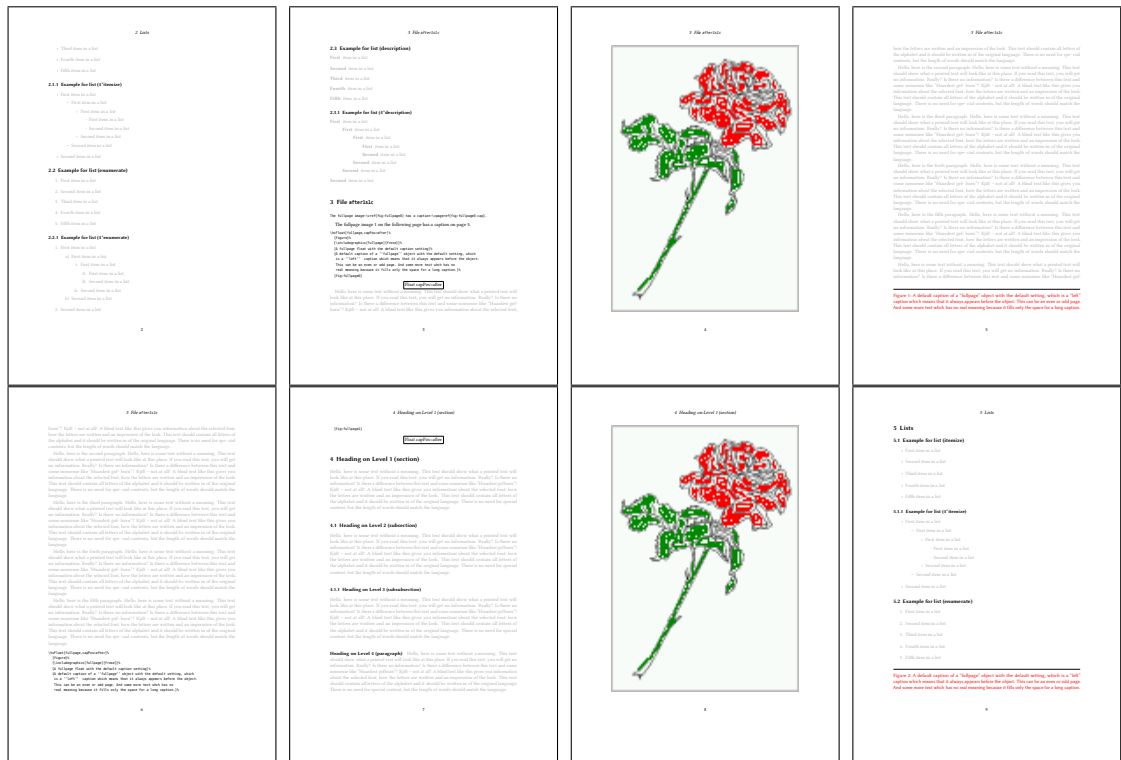


Figure 34: Output of after1s1c (pages 2–9)

17.1.3 Using capPos=evenPage — caption on an even page

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

```

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}

```

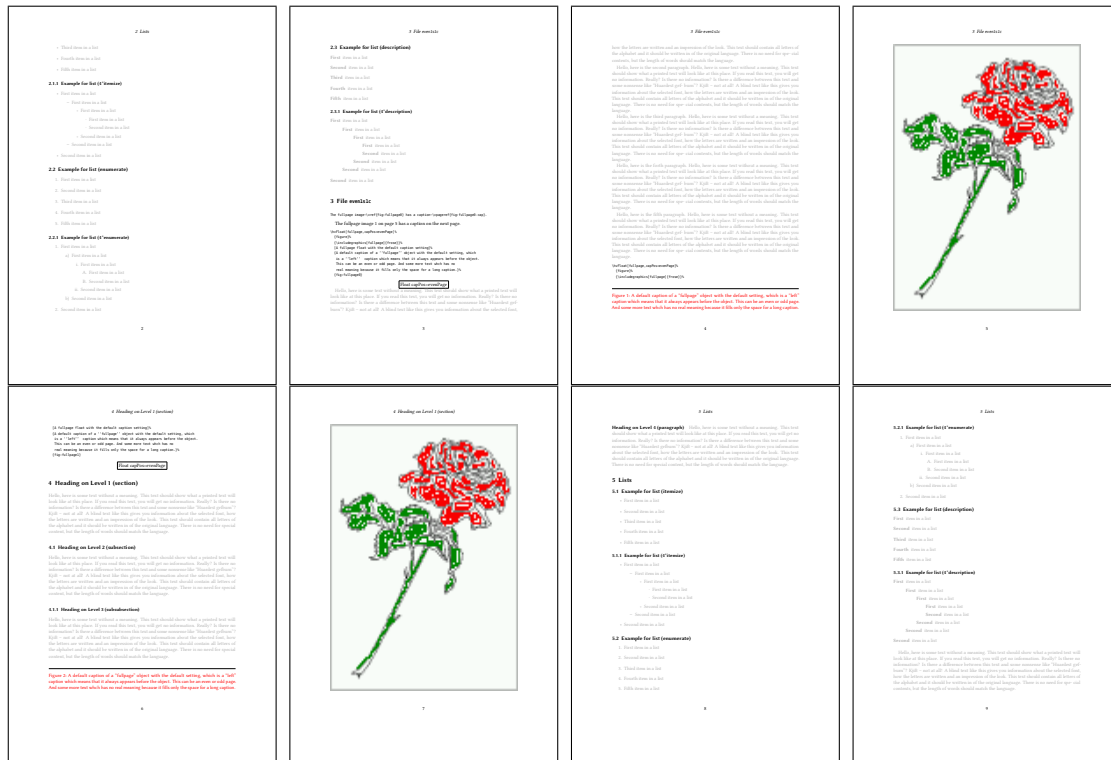


Figure 35: Output of even1s1c (pages 2–9)

17.1.4 Using capPos=oddPage — caption on an odd page

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

```
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}
```

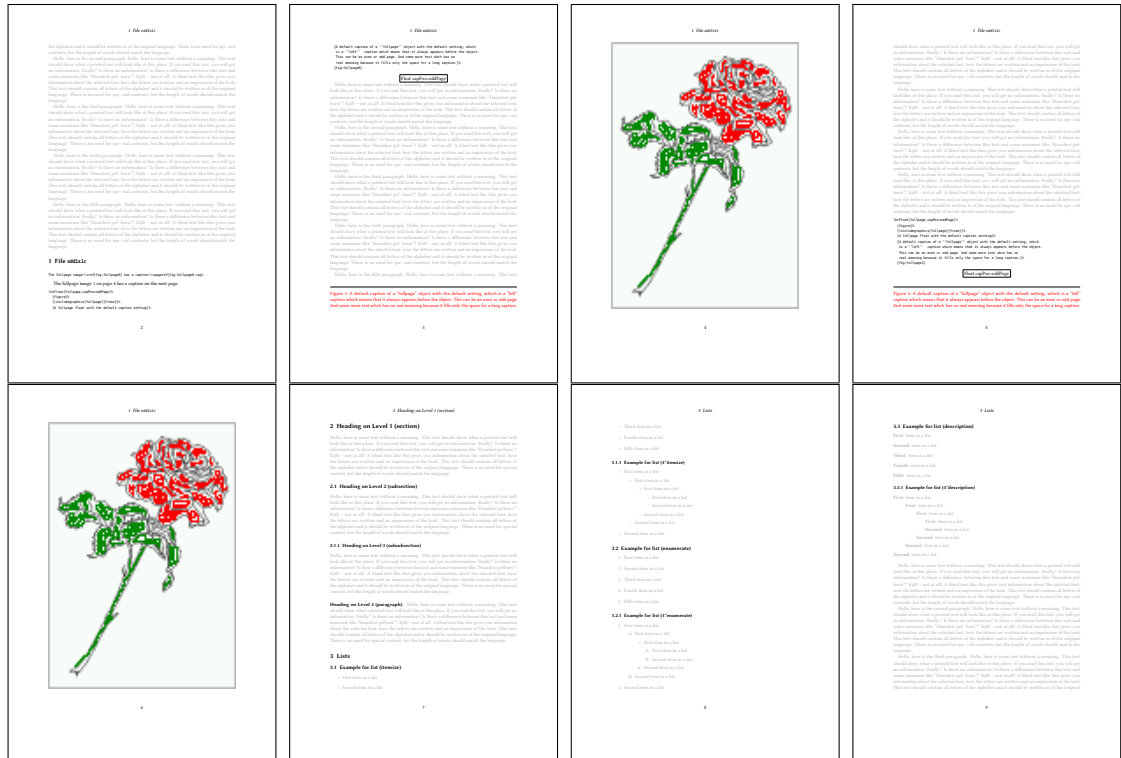


Figure 36: Output of odd1s1c (pages 2–9)

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

These settings make no sense in onecolumn mode.

17.2 Using the paper size

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

```

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}

```

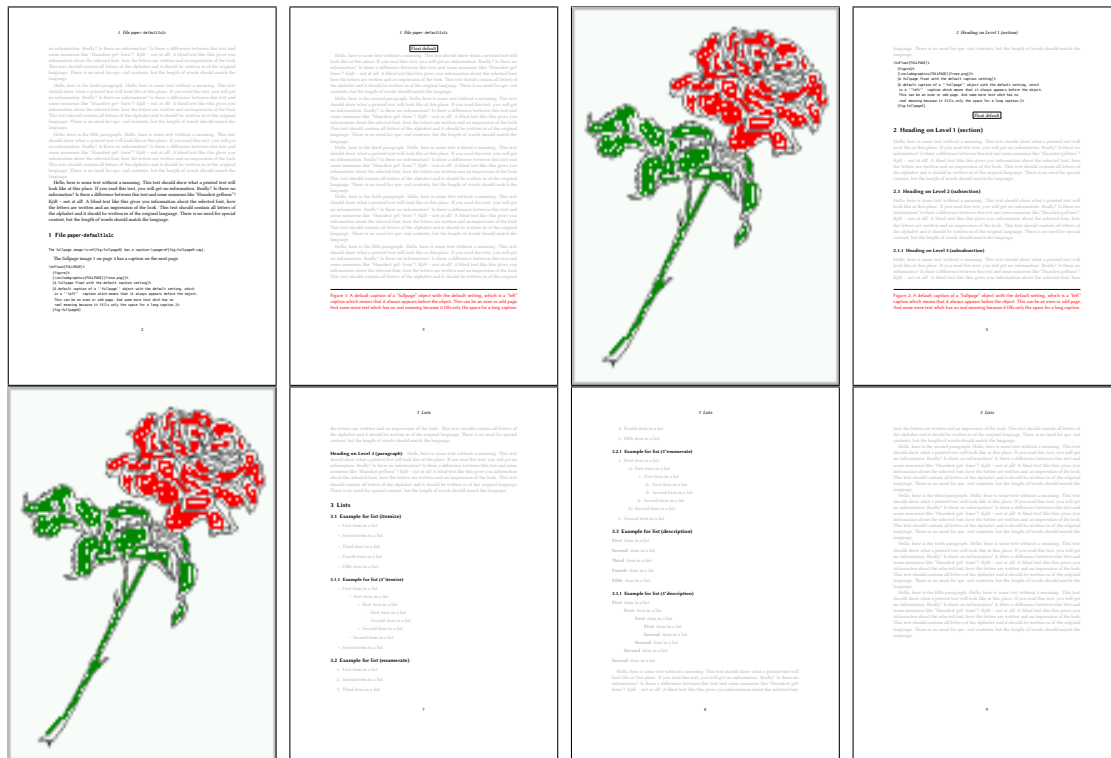


Figure 37: Output of paper-default1s1c (pages 2–9)

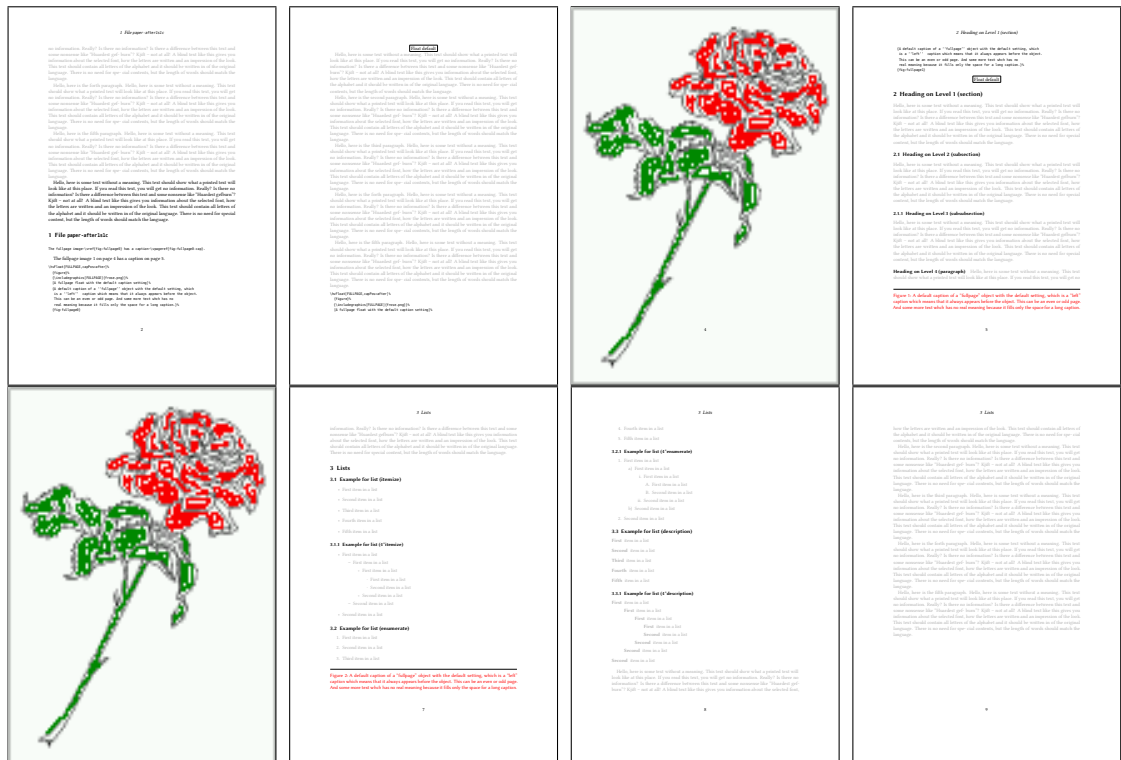


Figure 38: Output of paper-after1s1c (pages 2-9)

17.3 Multifloats

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

```
\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 36](#). The setting `\captionsetup{singlelinecheck=false}` is needed if you want the captions always left aligned.

17 Full page objects in onecolumn mode

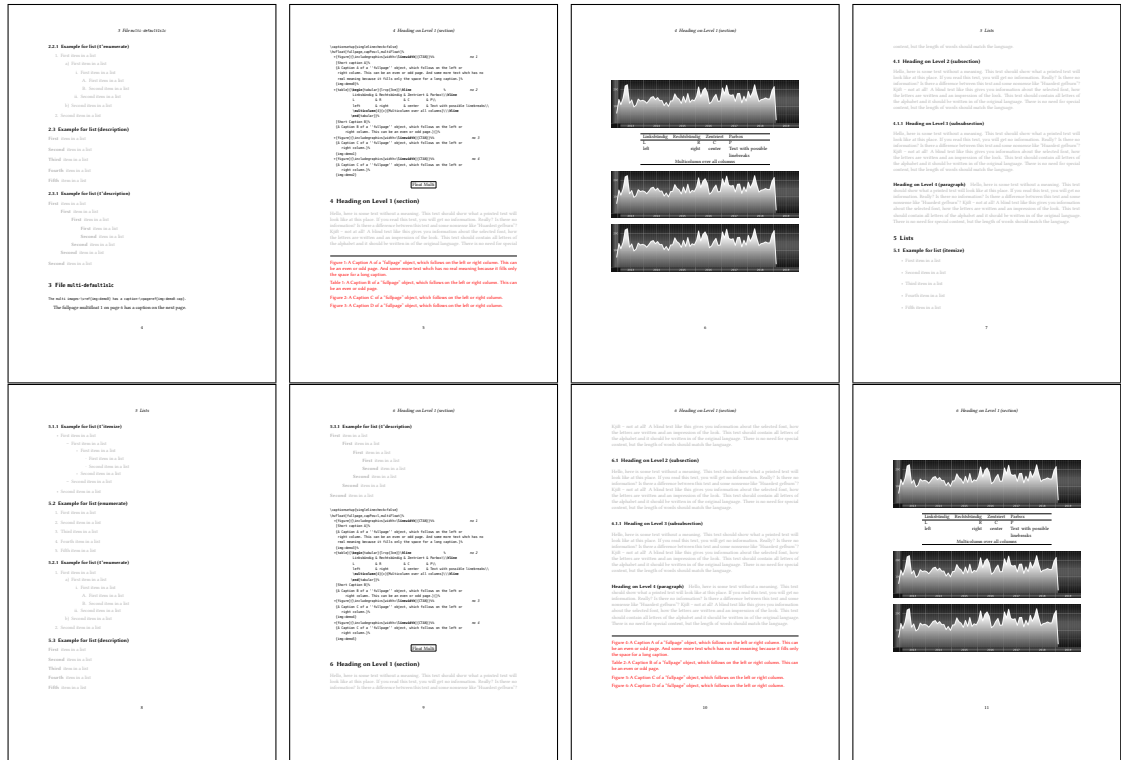


Figure 39: Output of multi-default1s1c (pages 4-11)

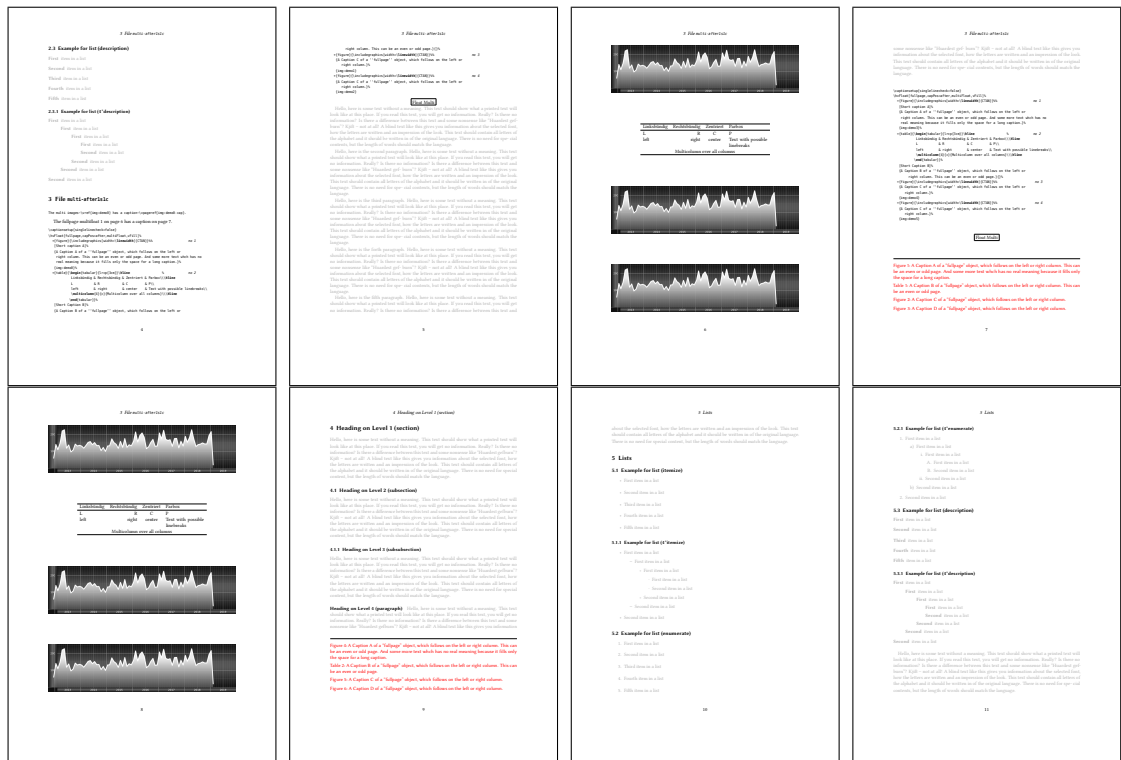


Figure 40: Output of multi-after1s1c (pages 4-11)

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 multifloat page:

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

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

```
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]`.

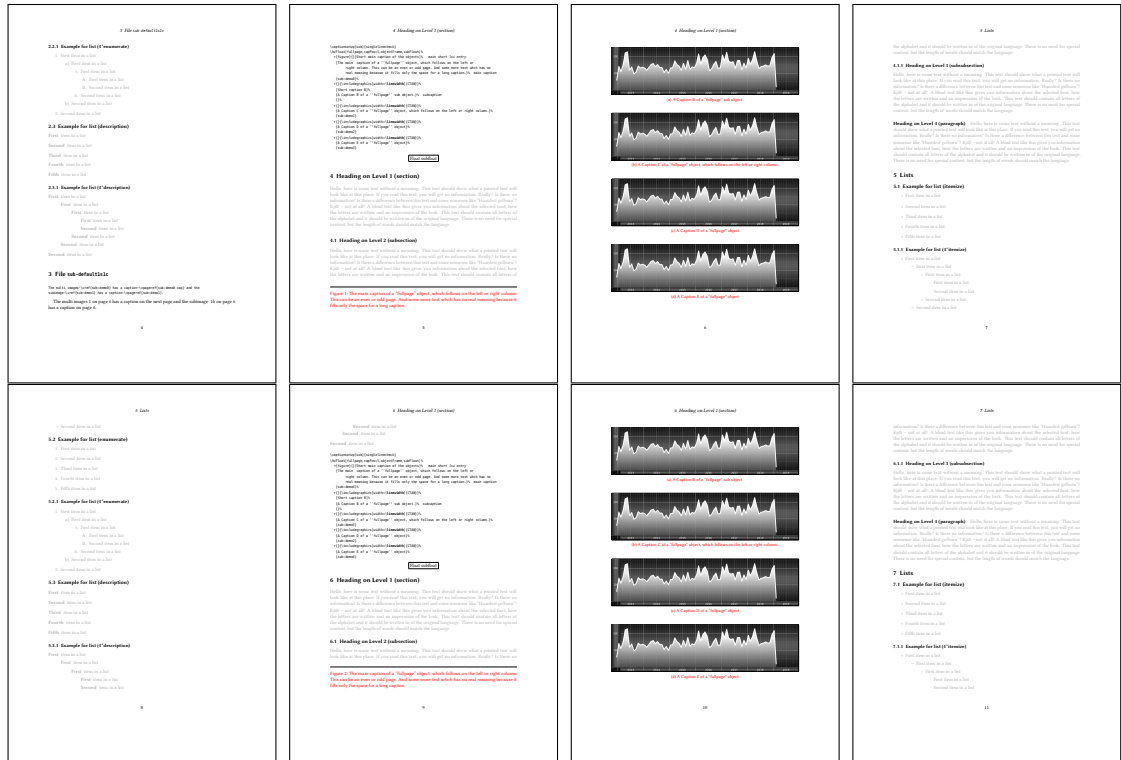


Figure 41: Output of sub-default1s1c (pages 4–11)

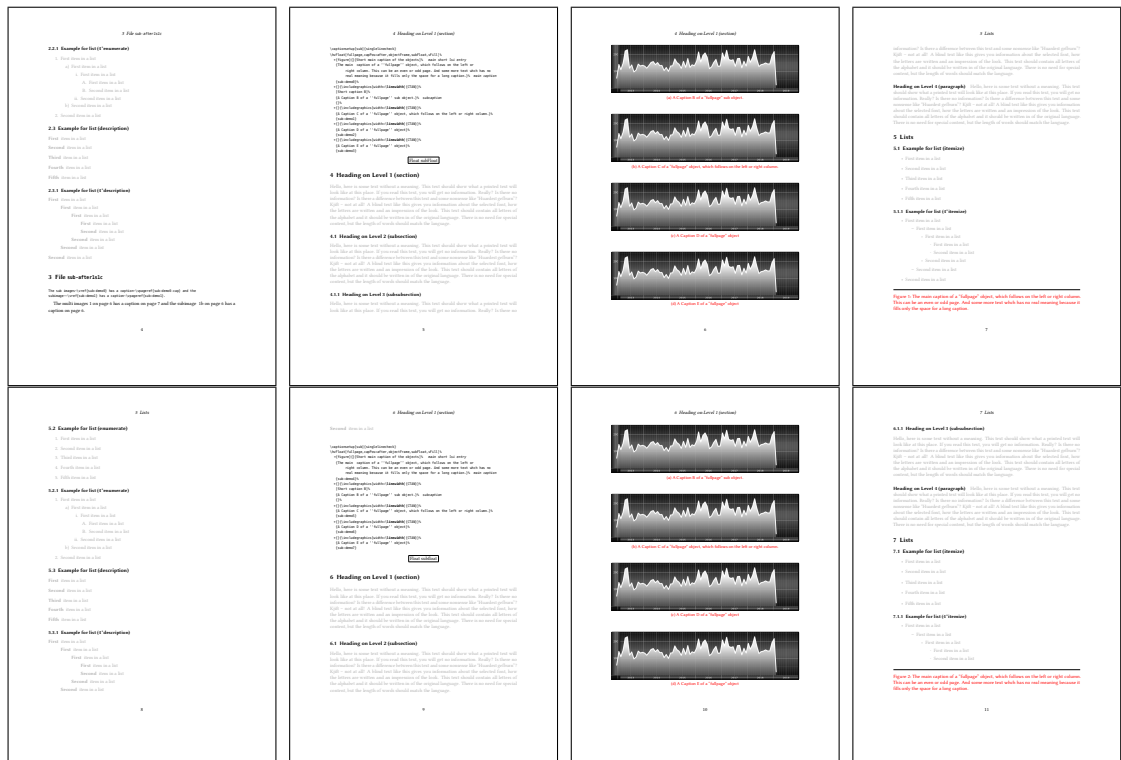


Figure 42: Output of sub-after1s1c (pages 4–11)

19 Full page objects in twocolumn mode

The filenames always have a “2c” for two columns in its names, e.g. left2s2c indicates capPos=before and the documentclass setting twoside and twocolumn. Depending to the used documentclass it can be a problem, if the caption should be placed on the first page of the whole document. In such a case use one of the other setting. Table 8 on page 27 shows the valid optional arguments for a full page floating object.

19.1 Default setting

For the twocolumn mode the caption can be in the left (first) or right (second) column. With the default setting (without using the keyword capPos) it is equivalent to the setting capPos=before, the caption is always placed *before* (left of) the object. This can be the first or the second column and both can be on different pages. With capPos=before (uppercase L) it is possible to get the caption and the object in the twocolumn mode always on one page. This is then the left (first) column for the caption (see figure 43).

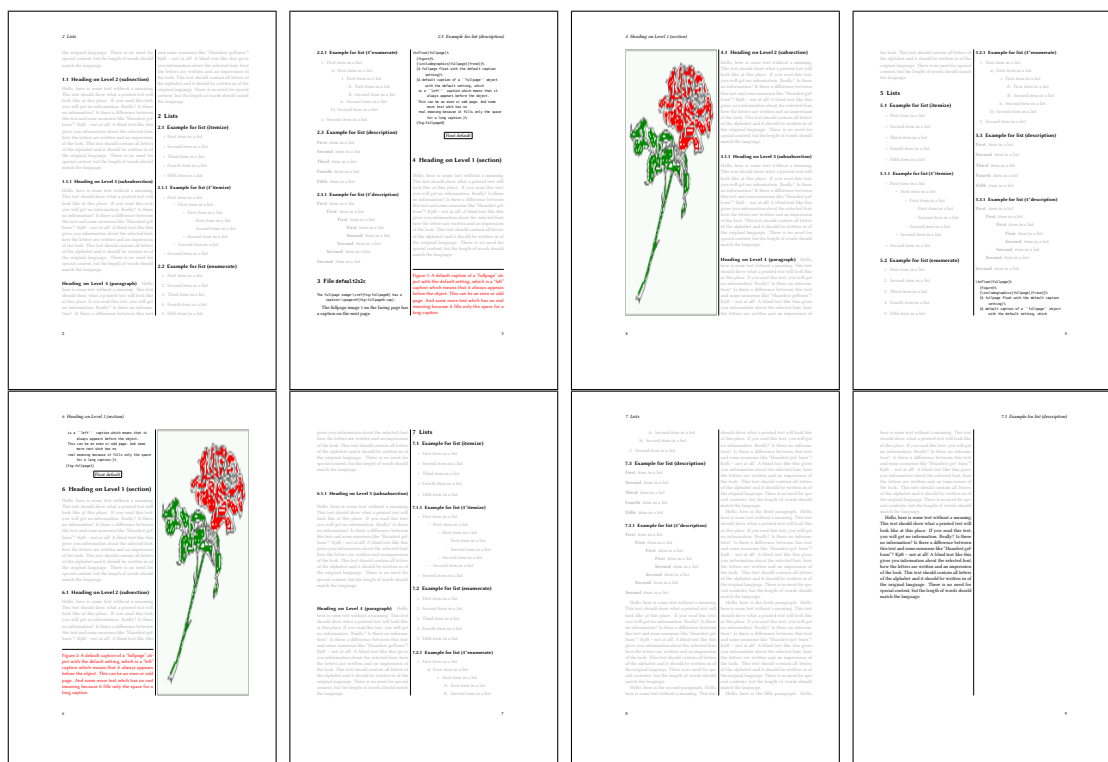


Figure 43: Output of default2s2c (pages 2–9)

```

1 \hFloat[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 43 shows that the caption and the object can be on different pages. If you do not like this behaviour, then use the setting capPos=left, which puts the caption before the

19 Full page objects in twocolumn mode

object, but always on the *same page* (see Figure 44).

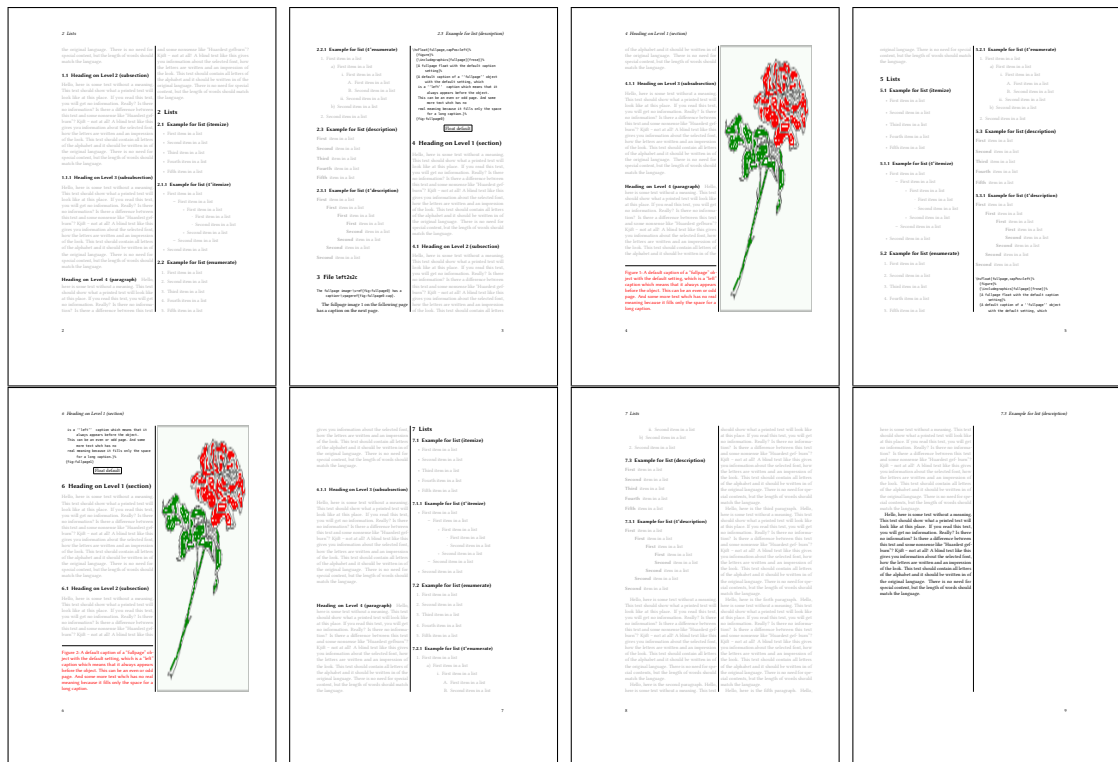


Figure 44: Output of left2s2c (pages 2–9)

19.1.1 Using capPos=after

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

```
1 \hvfloater[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 45 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.

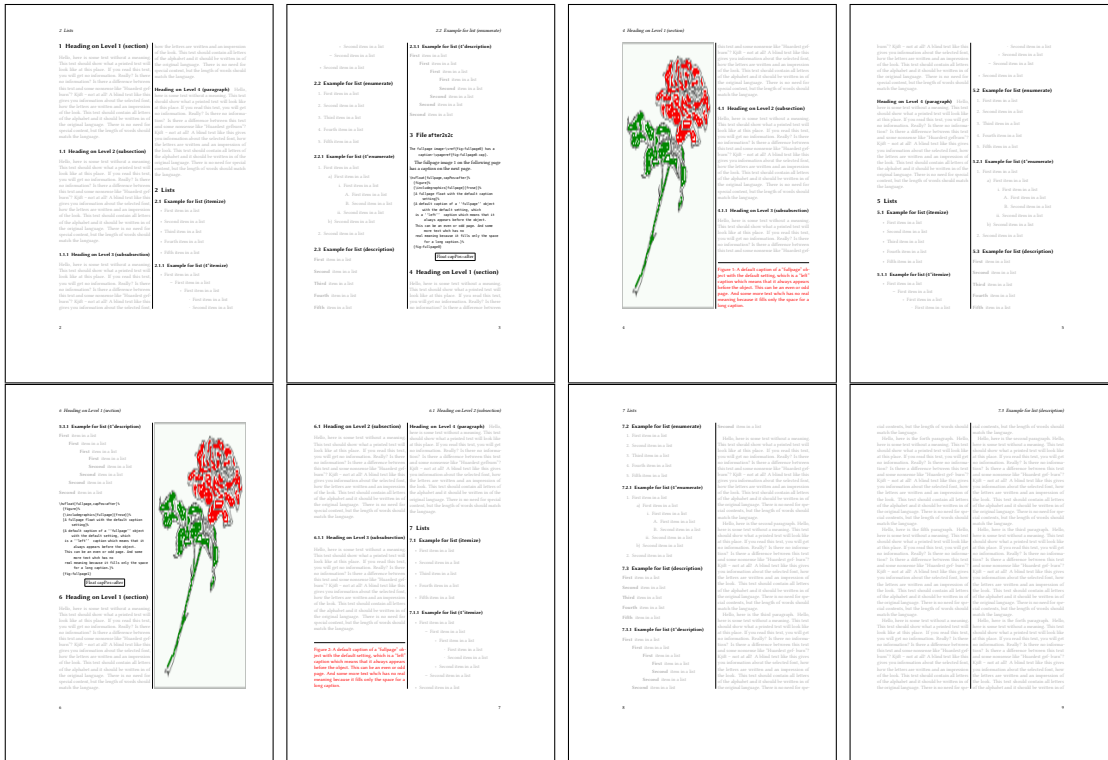


Figure 45: Output of after2s2c (pages 2–9)

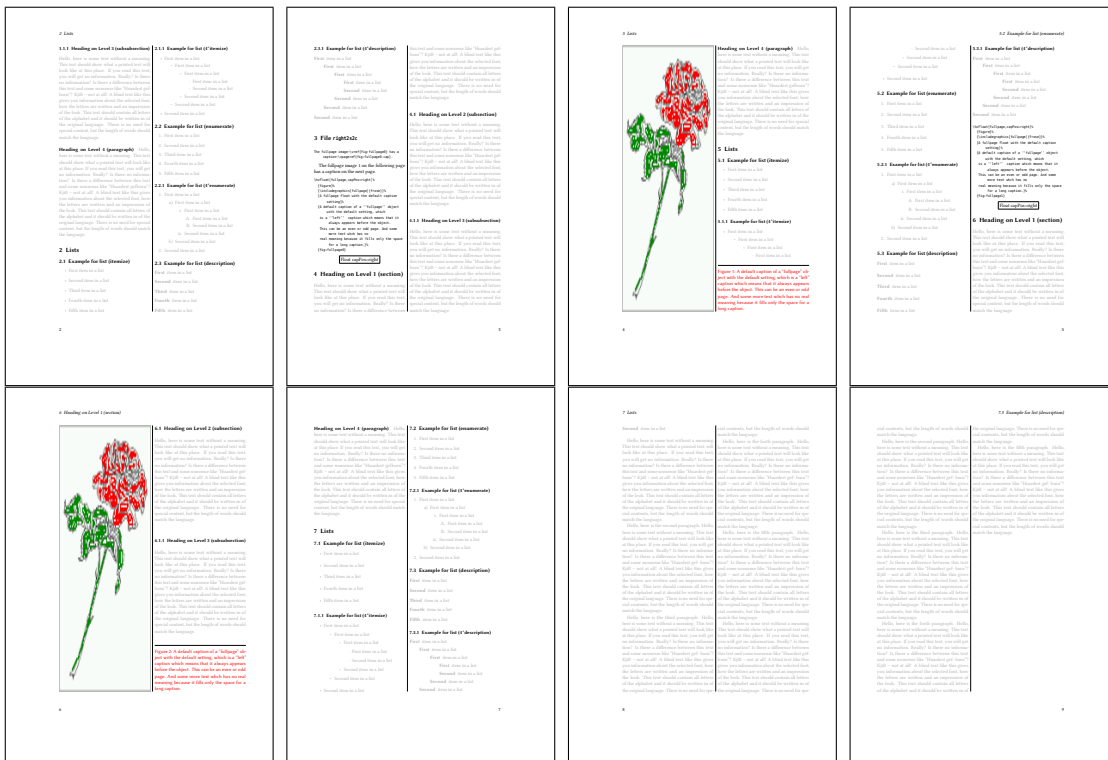


Figure 46: Output of right2s2c (pages 2–9)

19.1.2 Using capPos=evenPage — caption on an even page

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

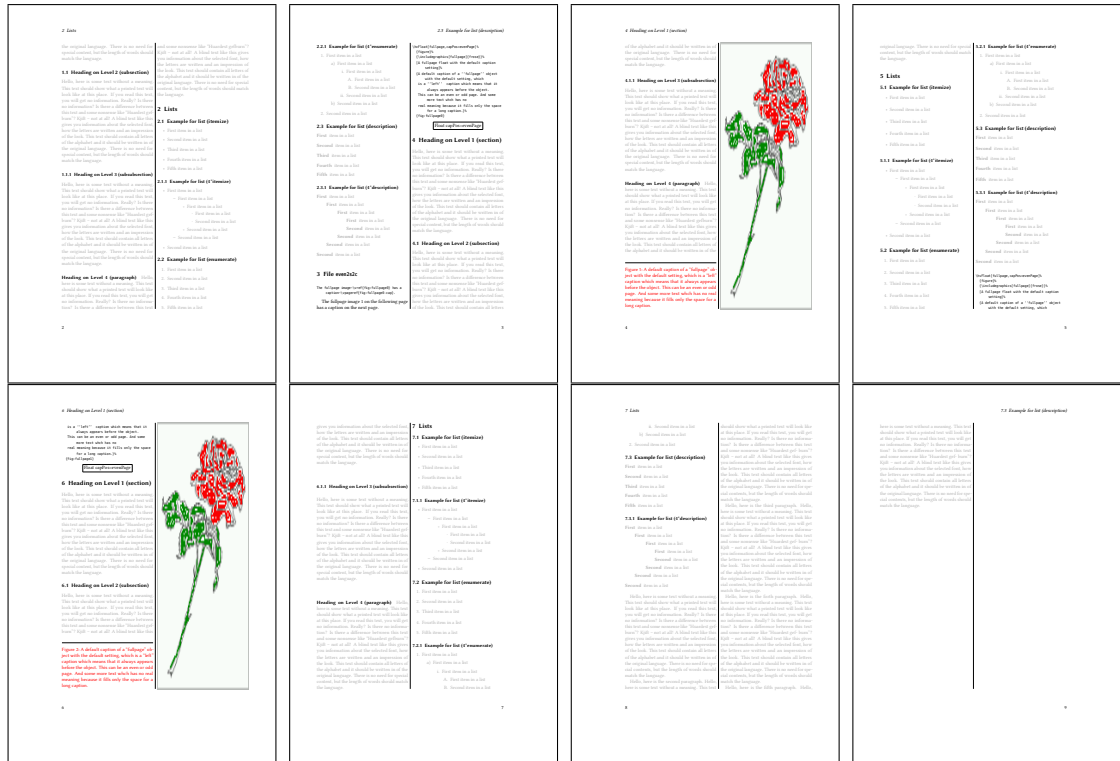


Figure 47: Output of even2s2c (pages 2–9)

19.1.3 Using capPos=oddPage — caption on an odd page

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

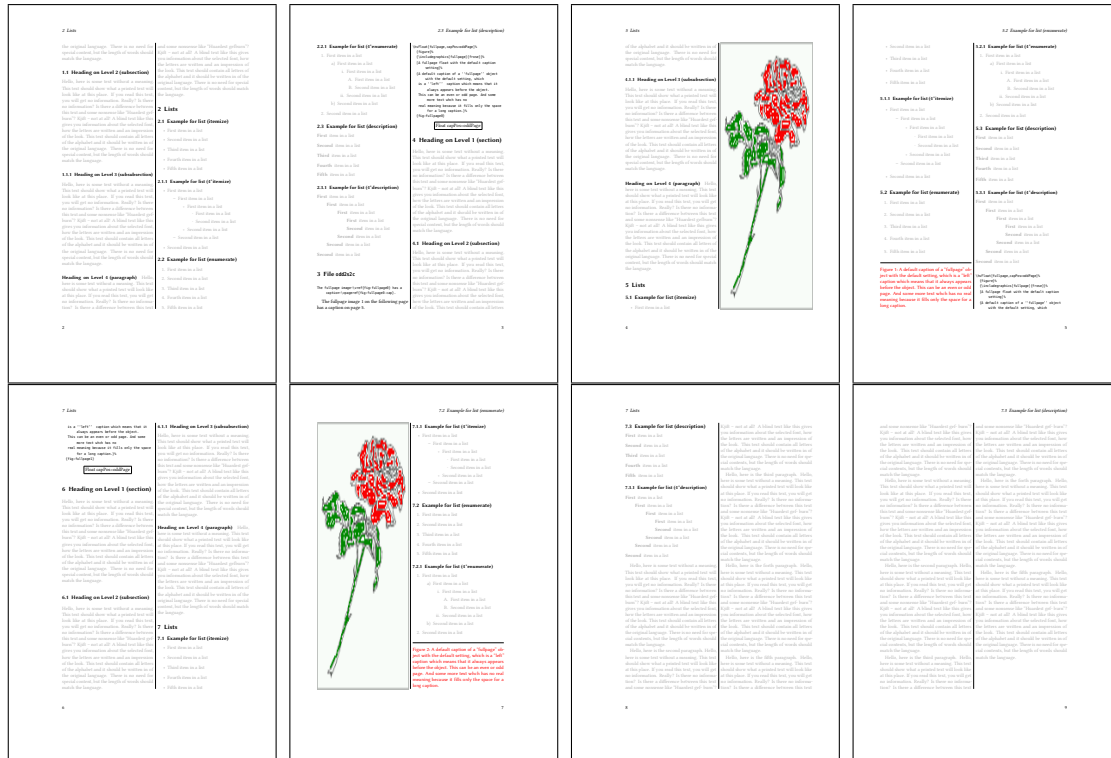


Figure 48: Output of odd2s2c (pages 2–9)

19 Full page objects in twocolumn mode

19.1.4 Using capPos=inner — caption in the inner column

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

```
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}
```

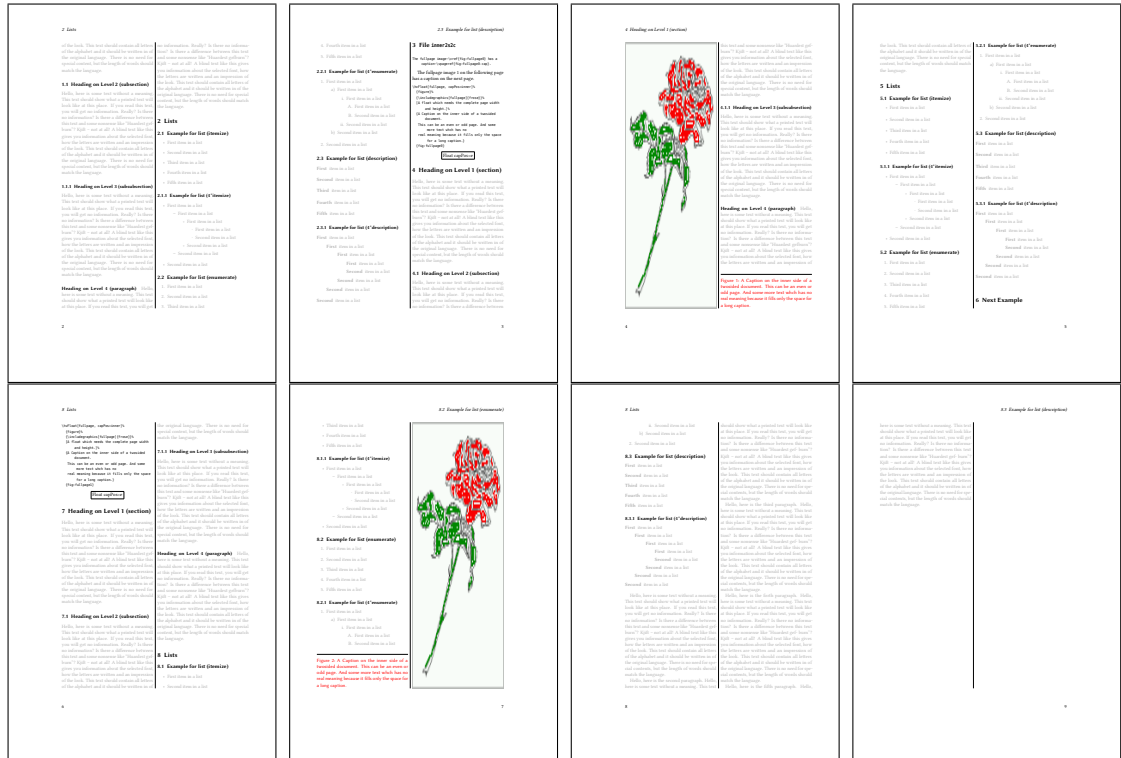


Figure 49: Output of inner2s2c (pages 2–9)

19.1.5 Using capPos=outer — caption on the outer column

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

```

1 \hvFloat[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}

```

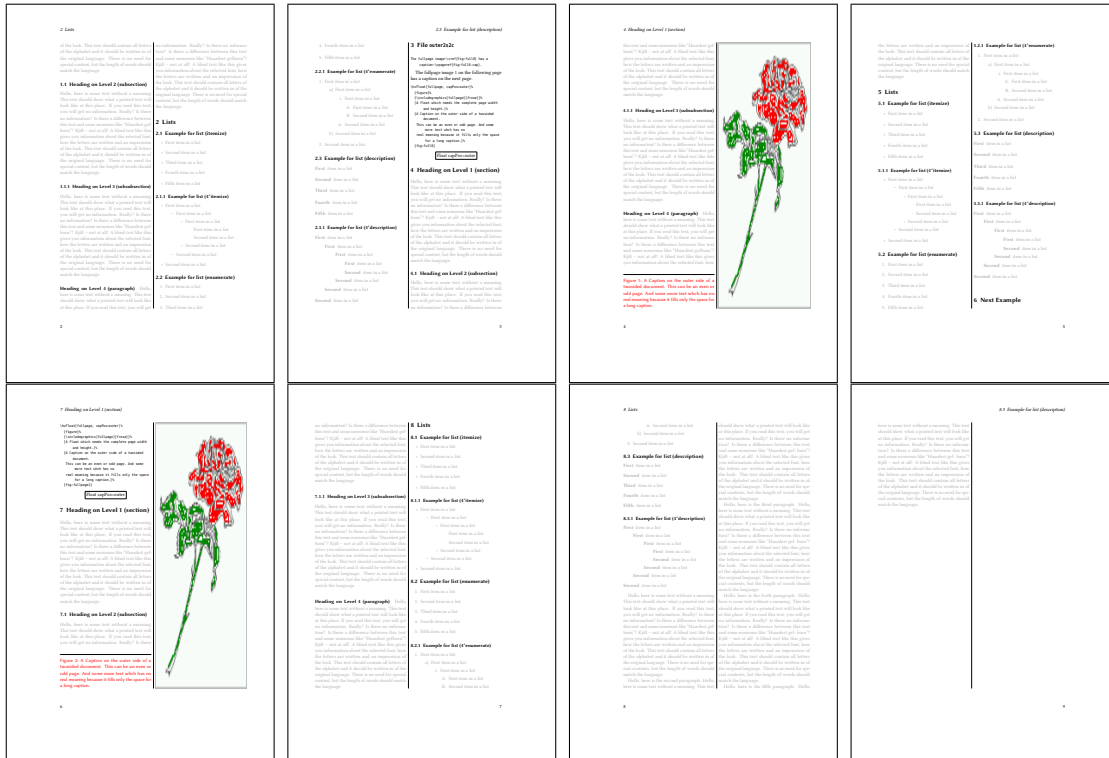


Figure 50: Output of outer2s2c (pages 2–9)

19.2 Using full page in twocolumn mode

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

```

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}

```

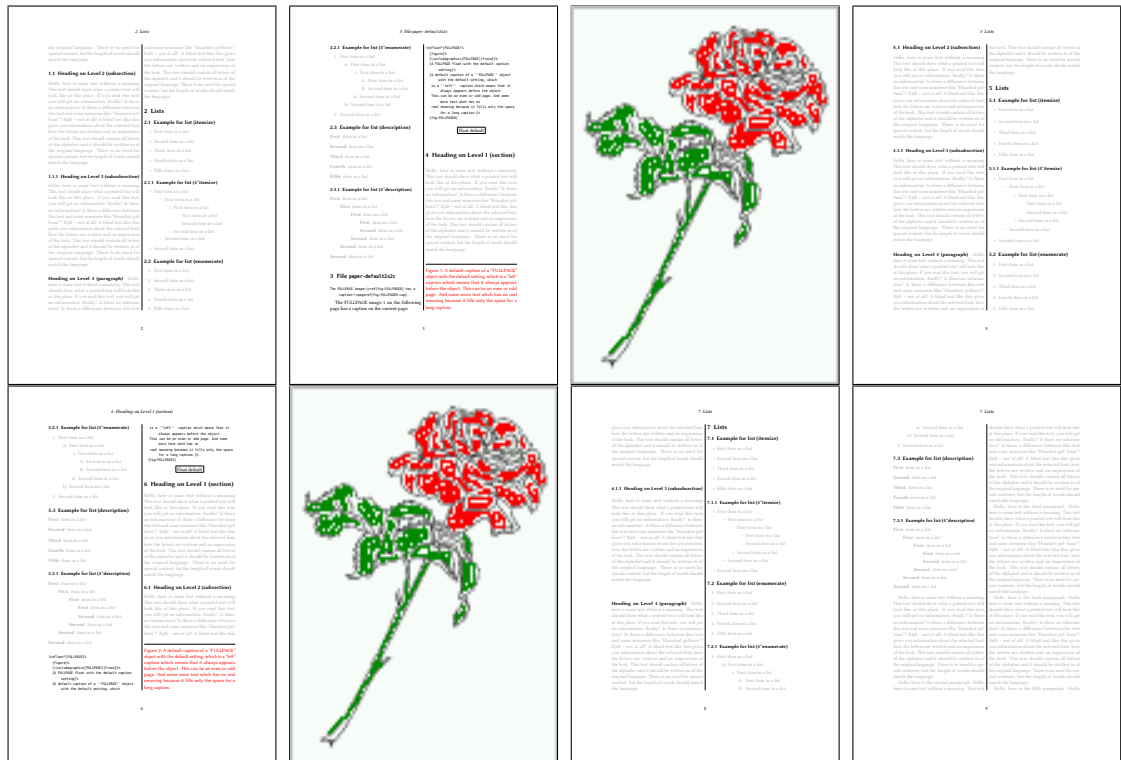


Figure 51: Output of paper-default2s2c (pages 2–9)

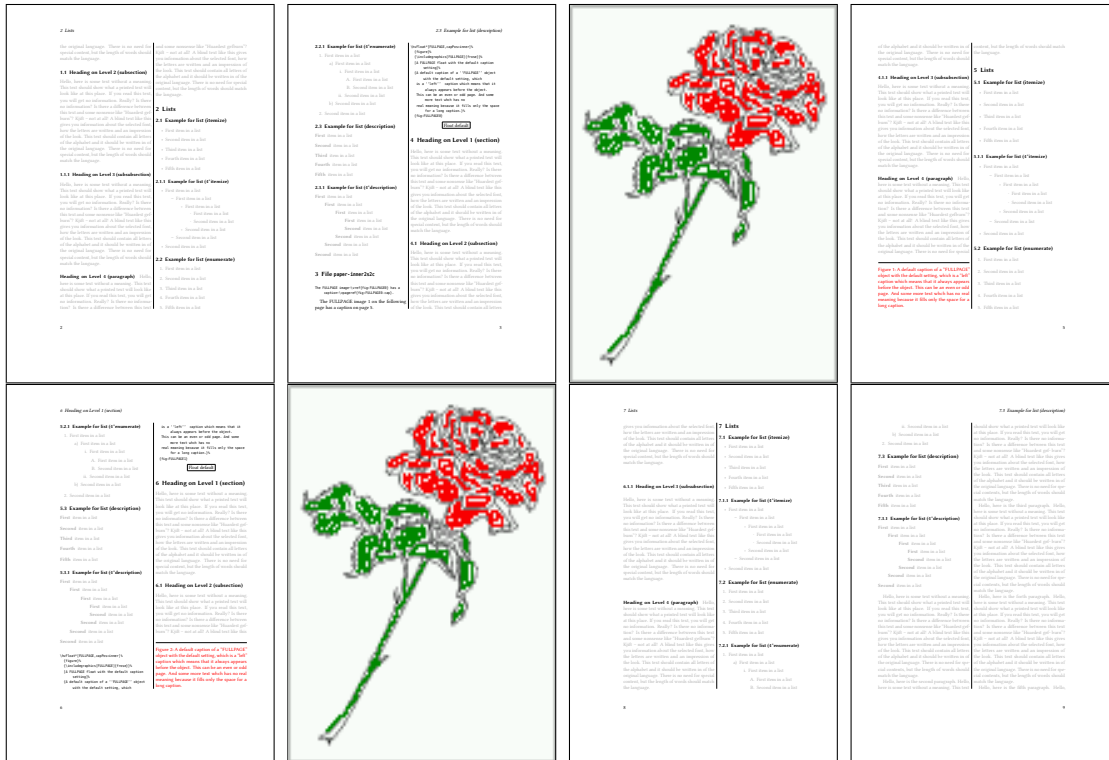


Figure 52: Output of paper-inner2s2c (pages 2-9)

19.3 Multifloats

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

```

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

```

20 Subfloat page

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

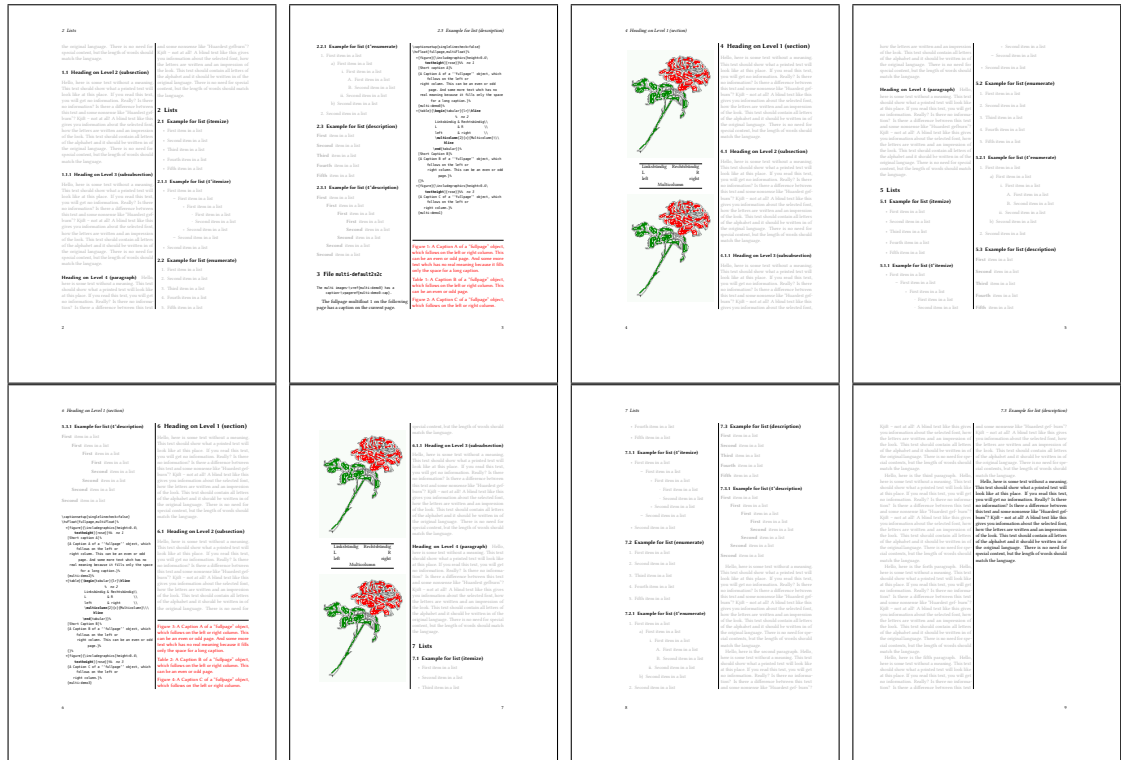


Figure 53: Output of multi-default2s2c (pages 2-9)

20 Subfloat page

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

```

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}

```

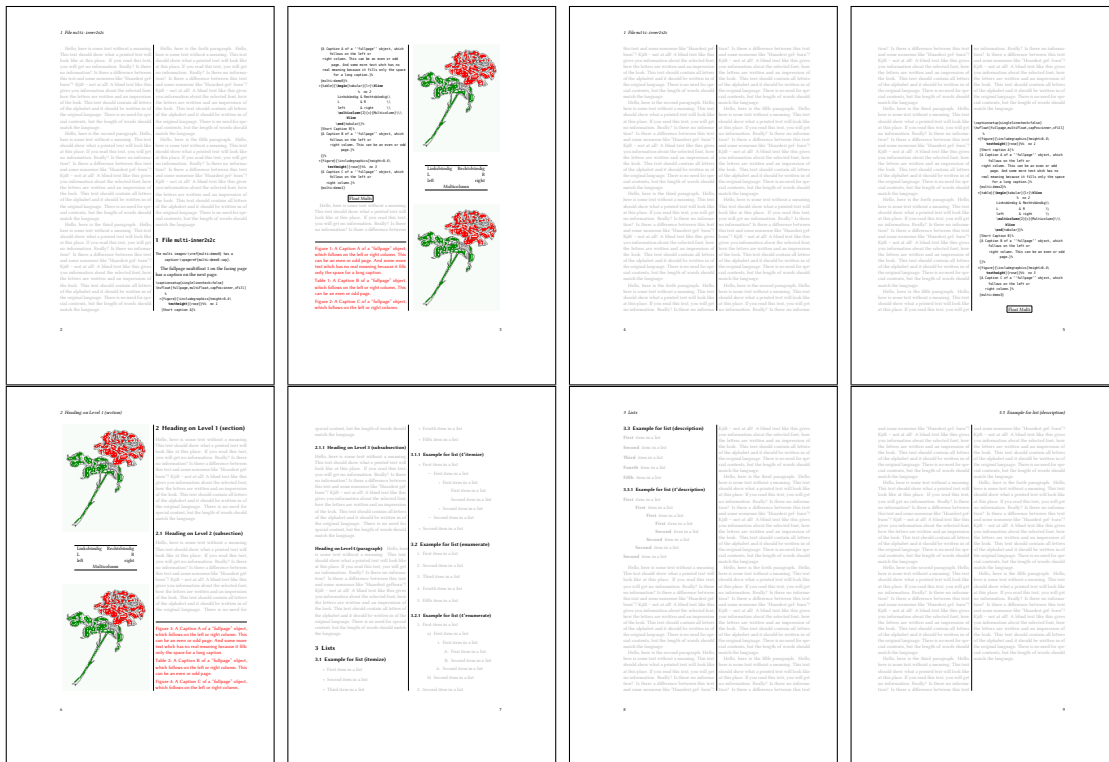


Figure 54: Output of multi-inner2s2c (pages 2-9)

The keyword `subFloat` defines the images or tabulars as subfloats. The package `subcaption` is loaded by default. For the subcaptions the `singlelinecheck` should be true (see listing).

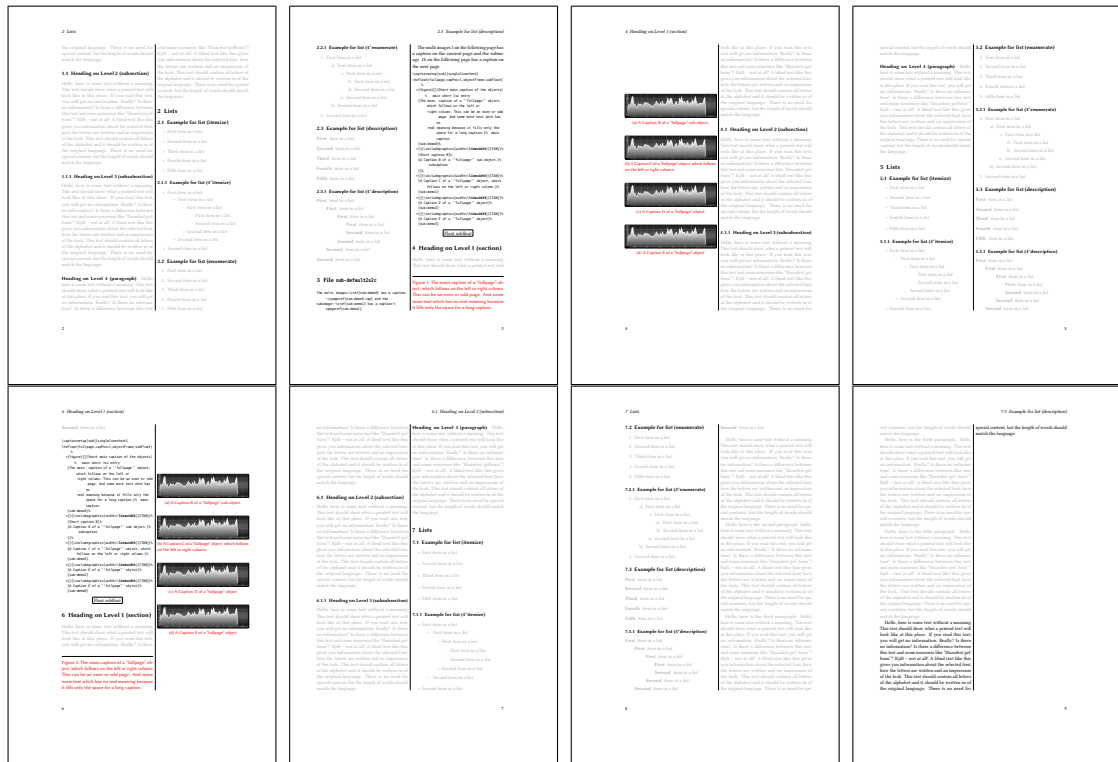


Figure 55: Output of sub-default2s2c (pages 2-9)

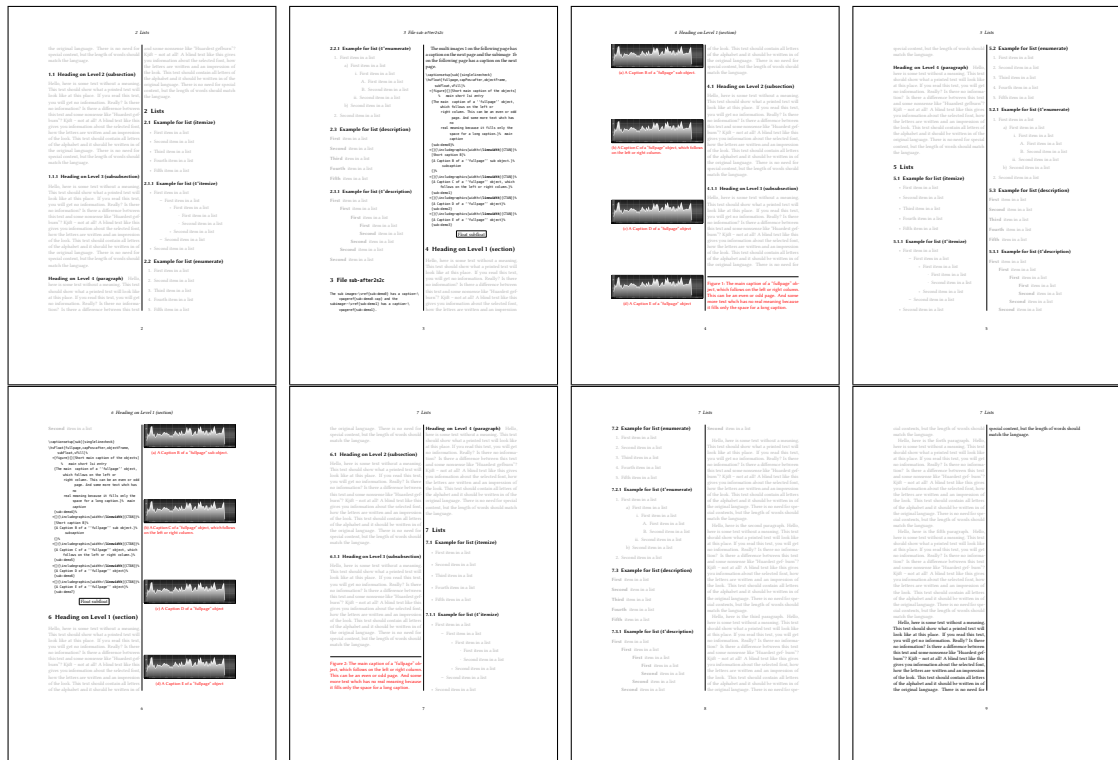


Figure 56: Output of sub-after2s2c (pages 2-9)

21 Doublepage objects – images and/or tabulars

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

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

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

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

21.1 doubleFULLPAGE

The scaling of the image is left to the user. If the proportion of the object doesn't fit $2\backslash\text{paperwidth}/\text{paperheight}$, 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[angle=90,width=2\paperwidth]{images/r+j}}%  
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}
```

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

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

Fig. 57

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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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, binCorr=5mm]%
2 {figure}%
3 {\includegraphics[angle=90,width=2\paperwidth]{images/r+j}}%
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. 58 In 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[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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Placing the caption on the image itself is not the best solution. With the optional arguments before and after for `capPos`, the caption can be placed on the bottom of the preceding or following page of the doublepage object. A givel label, e.g. `foo` will always point to the page with the left part of the object. Internally are two additional labels defined: `foo-cap` points to the caption and `foo-2` points to the right part of the doublepage object.

In the follwoing example 60 the caption is on page 66, the left image part on page 64 and the right part on page 65. In the follwoing example 61 the caption is on page 69, the left image part on page 70 and the right part on page 71. All three labels points to the same figure or table number:

```
\ref{foo} | \ref{foo-cap} | \ref{foo-2} → 60 | 60 | 60
\pageref{foo} | \pageref{foo-cap} | \pageref{foo-2} → 64 | 66 | 65
```

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

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Figure 60: 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. 61

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Figure 61: 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. 62

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And after the second paragraph follows the third paragraph. Hello, here is some text





Figure 62: A caption for a double-sided image that will be placed below the right-hand part of the illustration. The illustration begins on the left edge of the paper. No further text is placed on the pages. A short form is used for the LOF. The parameter is doublePAGE

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21.3 doublePage

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

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

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Fig. 63

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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. 64



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

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

words should match the language.

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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}

```

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Fig. 65

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21.4 Tabulars

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



Figure 65: 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 & 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 & 1 \\ \addlinespace[3pt]
14 Zeile 8 & 0 & 1 & 1 & 0 & 0 & 0 & 1 & 1 & 0 & 3 & 2 & 1 & 2 & 1 & 3 & 5 & 3 & 4 & 1 \\ \addlinespace[3pt]
15 Zeile 9 & 0 & 0 & 0 & 0 & 0 & 1 & 2 & 1 & 0 & 0 & 0 & 0 & 4 & 2 & 1 & 4 & 5 & 2 & 1 \\ \addlinespace[3pt]
16 Zeile10 & 0 & 1 & 3 & 0 & 1 & 0 & 1 & 0 & 0 & 1 & 1 & 0 & 1 & 1 & 1 & 4 & 4 & 1 & 1 \\ \addlinespace[3pt]
17 Zeile11 & 0 & 2 & 2 & 1 & 1 & 0 & 1 & 0 & 0 & 0 & 0 & 2 & 6 & 1 & 0 & 2 & 1 & 1 & 1 \\ \addlinespace[3pt]
18 Zeile12 & 2 & 0 & 2 & 4 & 1 & 0 & 4 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 3 & 1 \\ \addlinespace[3pt]
19 Lärm & 2 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 2 & 0 & 0 & 2 & 2 & 2 & 2 \\ \addlinespace[3pt]
20 Zeile13 & 0 & 1 & 0 & 0 & 1 & 0 & 3 & 0 & 0 & 0 & 0 & 2 & 0 & 1 & 3 & 0 & 2 & 1 & 1 \\ \addlinespace[3pt]
21 Zeile14 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 3 & 2 & 1 & 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 & 1 \\ \addlinespace[3pt]
23 Zeile16 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 5 & 0 & 1 & 1 & 1 \\ \addlinespace[3pt]
24 \midrule
   Artikel gesamt & 2 & 6 & 13 & 8 & 4 & 3 & 5 & 4 & 0 & 6 & 3 & 5 & 23 & 10 & 8 & 15 & 13 & 1 & 1

```

```

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

```

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 67 is on page 91, but the image itself is on page 92. 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 67 on page 92, which uses a correct page number of the floating object and not the caption pagenummer which is on page 91. The figure 67 is on page 92 and the caption on page 91

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

24 Global float setting

Instead of writing the following sequence into the preamble:

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

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

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

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

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

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



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25 The Package Source

```
1 %% $Id: hvfloat.sty 149 2021-08-14 17:39:18Z 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{2.34}
19 \def\filedate{2021/08/11}
20 %\message{`hvfloat' v\fileversion, \filedate\space (Herbert Voss)}
21 \ProvidesPackage{hvfloat}[\filedate\space v\fileversion\space special floating objects (hv)]
22 \let\hvFloatFileVersion\fileversion
23 %
24 \newif\ifhv@fbox \hv@fboxfalse
25 \newif\ifhv@hyperref \hv@hyperreffalse
26 \newif\ifhv@nostfloats \hv@nostfloatsfalse
27 \newif\ifhv@tugboat \hv@tugboatfalse
28
29 \DeclareOption{fbox}{\hv@fboxtrue\setlength{\fboxsep}{1pt}}
30 \DeclareOption{hyperref}{\hv@hyperreftrue}
31 \DeclareOption{nostfloats}{\hv@nostfloatstrue}
32 \DeclareOption{no-stfloats}{\hv@nostfloatstrue}
33
34 \ProcessOptions
35
36
37 \PassOptionsToPackage{hypcap}{caption}
38 \RequirePackage{caption}
39 \RequirePackage{varwidth}
40 \DeclareCaptionBox{varwidth}{\varwidth[b]{#1}#2\endvarwidth}
41
42 \PassOptionsToPackage{hypcap}{subcaption}
43 \RequirePackage{subcaption}
44 \RequirePackage{atbegshi}
45 \RequirePackage{picture,trimclip}
46
47 \RequirePackage{expl3,multido}
48 \RequirePackage{graphicx}
49 \RequirePackage{varwidth}
50
51 \RequirePackage{xkeyval}
52 \RequirePackage{ifoddpage}
53 \RequirePackage{afterpage}
54
55 \ifhv@hyperref
56   \RequirePackage{hyperref}
57 \fi
58 \ifhv@nostfloats\else
59   \RequirePackage{stfloats}% for bottom floats in a twocolumn mode
60 \fi
61 %
62 \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-1in-\topmargin-\headheight-\headsep-\textheight}}
71
72 \newsavebox\hvObjectBox
73 \newsavebox\hvCaptionBox
74 \newsavebox\hvOBox
75 \newsavebox\@tempbox
76 \newsavebox\hv@caption@box
77 \newsavebox\hv@leftBox
78 \newsavebox\hv@rightBox
79
80 \newif\ifhv@capbeside \hv@capbesidefalse
81 \newif\ifhv@switchType
82
83 \def\hv@Top{top}
84 \def\hv@Bottom{bottom}
85 \def\hv@After{after}
86 \def\hv@Before{before}
87 \def\hv@Right{right}
88 \def\hv@Left{left}
89 \def\hv@Center{center}
90 \def\hv@Outer{outer}
91 \def\hv@Inner{inner}
92 \def\hv@Even{evenPage}
93 \def\hv@Odd{oddPage}
94 \def\hv@Natural{n}
95 \def\hv@Width{w}
96 \def\hv@Height{h}
97 \def\hv@Zero{0}
98 %
99 \def\hv@figure{figure}
100 %
101 \define@key{hvSet}{floatPos}[tbp]{% LaTeX's position parameters http
102 \def\hvSet@floatPos{#1}%
103 }
104 \define@key{hvSet}{rotAngle}[0]{% rotates caption AND image together
105 \def\hvSet@rotAngle{#1}%
106 }
107 \define@key{hvSet}{capWidth}[n]{% (n)atural width|object (w)idth|object (h)eight|<scale of |
columnwidth>
108 \def\hvSet@capWidth{#1}%
109 }
110 \define@key{hvSet}{capAngle}[0]{% -360..+360, only integers
111 \def\hvSet@capAngle{#1}%
112 }
113
114 \define@choicekey*+{hvSet}{capPos}[\val\nr]{bottom,top,left,before,right,after,inner,outer,evenPage,
oddPage}[bottom]{%
115 \def\hvSet@capPos{#1}% it is relativ to the object, (e),(d) only valid for fullpage float
116 \ifcase\nr\relax
117 \hv@capbesidefalse
118 \or
119 \hv@capbesidefalse
120 \else
121 \hv@capbesidetrue
122 \fi
123 }\PackageWarning{hvfloating}{erroneous input (#1) for capPos ignored. Using bottom.}%
124 \def\hvSet@capPos{bottom}% it is relativ to the object, (e),(d) only valid for fullpage float
125 \hv@capbesidefalse
126 }
127
128 \define@choicekey*+{hvSet}{capVPos}[\val\nr]{bottom,center,top}[center]{%
129 \def\hvSet@capVPos{#1}% it is relativ to the object

```

```

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

```



```

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

```

```

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

```

```

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

```

```

394 \or
395 \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}\else\usebox{\hvCaptionBox}\fi
396 \fi
397 }
398
399 \newcommand\put@ObjectBox[1][0]{%
400 \ifcase#1
401 \ifhv@fbox
402 \fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
403 \else
404 \parbox{\wd\hvObjectBox}{\ifhv@ObjectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi}
405 \fi
406 \or
407 \ifhv@fbox
408 \fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
409 \else
410 \raisebox{-\height}{\ifhv@ObjectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi}%
411 \fi
412 \or
413 \ifhv@fbox
414 \fbbox{\usebox{\hvObjectBox}}%
415 \else
416 % rotated object with a depth need to raise up the \depth
417 \ifhv@ObjectFrame\frame{\usebox{\hvObjectBox}}\else\raisebox{\depth}{\usebox{\hvObjectBox}}\fi%
418 \fi
419 \fi
420 }
421
422
423 \def\drawSepLine{%
424 \par\noindent
425 \if@twocolumn
426 \ifhv@twoColumnCaption
427 \rule{\linewidth}{0.4pt}\[-2.5ex]
428 \else
429 \rule{\columnwidth}{0.4pt}\[-2.5ex]
430 \fi
431 \else
432 \rule{\linewidth}{0.4pt}\[-2.5ex]
433 \fi
434 \vspace{\hv@sepLineskip}%
435 }
436
437 \newcounter{hv@tempCNTfigA}%
438 \newcounter{hv@tempCNTfigB}%
439 \newcounter{hv@tempCNTtabA}%
440 \newcounter{hv@tempCNTtabB}%
441 \newcounter{hv@pfigure}%
442 \newcounter{hv@ptable}%
443 \newcounter{subhv@pfigure}%
444 \newcounter{subhv@ptable}%
445
446 \newif\ifhv@star
447 \newif\if@hvsubstar
448 \setDefault
449
450
451 %\newcommand*{\hvFloat}[5][+]{%
452 % [#1]: keyvalues
453 % #2: type figure | table | ...
454 % #3: float contents
455 % [#4]: short caption
456 % #5: caption
457 % #6: label
458 %
459

```

```

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

```



```

527 \clist_put_right:Nn\l_clist_Label{}}%
528 \else
529 \clist_put_right:Nn\l_clist_Label{#{3}}%
530 \fi
531 \@ifnextchar+\do@multiFloat@ii%
532 {\def\hvSet@CapWidth{n}%
533 \do@@@hvFloat}%
534 }
535 \ExplSyntaxOff
536
537
538 \newcount\hv@cmta
539 \newcount\hv@cmtb
540
541 \def\hvFloat@ii[#1]#2#3{% #1: key/value, #2: floattype, #3: object
542 \hv@maxImageWidth=\textwidth
543 % \ifx\relax#1\relax\else\setkeys{hvSet}{#1}\fi
544 \gdef\hv@floatType{#2}%
545 \ifx\relax#2\relax
546 \setkeys{hvSet}{nonFloat,onlyText}%
547 \xdef\hv@save@setting{\hv@save@setting,nonFloat,onlyText}% for later use after \endgroup inside
    figure/table env
548 \fi
549 % \xdef\hv@floatListOfExt{\@nameuse{ext@\hv@floatType}}%
550 \gdef\hv@floatObject{#3}%
551 \@ifnextchar[{\do@@hvFloat}{\do@@hvFloat[]}%
552 }
553
554 \def\do@@hvFloat[#1]#2#3{% #1: listof caption, #2. long caption #3: label
555 \gdef\hv@shortCap{#1}%
556 \gdef\hv@longCap{#2}%
557 \gdef\hv@label{#3}%
558 \ifhv@capbeside\def\@temp{1}\else\def\@temp{0}\fi
559 \ifhv@sameHeight\global\hv@global@sameHeighttrue\else\global\hv@global@sameHeightfalse\fi
560 \global\setlength\hvSet@bindCorrection{\hvSet@bindCorr}% for doublepage objects
561 \global\setlength\hv@floatCapSep{\hvSet@floatCapSep}%
562 %
563 \ifhv@fullpage
564 \def\hvSet@CapWidth{n}% relative value
565 \do@@@hvFloat% fullpage with caption on other page
566 \else
567 \ifhv@FULLPAGE
568 \def\hvSet@CapWidth{n}% relative value
569 \do@@@hvFloat% fullpage with caption on other page
570 \else
571 \ifhv@doubleFULLPAGE
572 \setlength\hvCapWidth{\textheight}%
573 \expandafter\do@hvFloat@doubleFULLPAGE\@temp% fullpage with caption rotated or under on an odd
    page
574 \else
575 \ifhv@doublePAGE
576 \expandafter\do@hvFloat@doublePAGE\@temp% fullpage with caption rotated or under on an odd
    page
577 \else
578 \ifhv@doublePage
579 \expandafter\do@hvFloat@doublePage\@temp% fullpage with caption rotated or under on an odd
    page
580 \else
581 \do@@@hvFloat
582 \fi
583 \fi
584 \fi
585 \fi
586 \fi
587 }
588 %
589 \def\do@@@hvFloat{% no special float page, caption and image on top of each other or side by side

```

```

590 \def\@tempa{90}%
591 \ifx\hvSet@rotAngle\@tempa
592 \setlength\hvMaxCapWidth{\textheight}%
593 \else
594 \setlength\hvMaxCapWidth{\hvWideWidth}%
595 \fi
596 %
597 % First we save the object in \hvObjectBox
598 %
599 \ifnum\hvSet@objectAngle=0 % rotate the object?
600 \ifhv@useOBox
601 \let\hvObjectBox\hvOBox
602 \else
603 \savebox\hvObjectBox{\hv@floatObject}%
604 \fi
605 \else
606 \savebox\hvObjectBox{%
607 \rotatebox{\hvSet@objectAngle}{%
608 \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi
609 }%
610 }%
611 \fi
612 \setlength\hvObjectWidth{\wd\hvObjectBox}%
613 %
614 % Now we save the caption with its defined \hvCapWidth
615 %
616 \ifx\hvSet@capWidth\hv@Width% captionwidth=objectwidth
617 \setlength\hvCapWidth{\hvObjectWidth}%
618 \else
619 \ifx\hvSet@capWidth\hv@Height% captionwidth=objectheight
620 \setlength\hvCapWidth{\ht\hvObjectBox}%
621 \else
622 \ifx\hvSet@capWidth\hv@Natural% captionwidth=\linewidth-\objectwidth-separation
623 \ifhv@capbeside
624 \ifhv@wide
625 \setlength\hvCapWidth{\the\dimexpr\hvWideWidth-\hvObjectWidth-\hv@floatCapSep\relax}%
626 \else
627 \ifhv@star
628 \setlength\hvCapWidth{\the\dimexpr\textwidth-\hvObjectWidth-\hv@floatCapSep\relax}%
629 \else
630 \setlength\hvCapWidth{\the\dimexpr\linewidth-\hvObjectWidth-\hv@floatCapSep\relax}%
631 \fi
632 \fi
633 \else
634 \setlength\hvCapWidth{\columnwidth}%
635 \fi
636 \else
637 \ifhv@capbeside
638 \ifhv@wide
639 \setlength\hvCapWidth{\hvSet@capWidth\hvWideWidth}%
640 \setlength\@tempdima{\the\dimexpr\hvWideWidth-\hvObjectWidth-\hv@floatCapSep\relax}%
641 \else
642 \setlength\hvCapWidth{\hvSet@capWidth\columnwidth}%
643 \setlength\@tempdima{\the\dimexpr\columnwidth-\hvObjectWidth-\hv@floatCapSep\relax}%
644 \fi
645 \ifdim\hvCapWidth>\@tempdima
646 \setlength\hvCapWidth{\@tempdima}%
647 \fi
648 \else
649 \ifhv@wide
650 \setlength\hvCapWidth{\hvSet@capWidth\hvWideWidth}%
651 \else
652 \setlength\hvCapWidth{\hvSet@capWidth\columnwidth}%
653 \fi
654 \fi
655 \fi
656 \fi

```

```

657 \fi
658 \saveCaptionSkip% we put this space ourselve
659 \ifnum\hvSet@capAngle=0 % need rotation?
660 \savebox\hvCaptionBox{% NO rotation
661 \minipage[b]{\hvCapWidth}%% minipage, to get hyphenation
662 \ifhv@nonFloat
663 \ifhv@onlyText
664 \hv@longCap
665 \else
666 \ifx\hv@floatType\hv@figure
667 \ifx\relax\hv@shortCap\relax
668 \figcaption{\hv@longCap\ifx\hv@label\empty\else\label{\hv@label}\fi}%
669 \else
670 \figcaption[\hv@shortCap]{\hv@longCap\ifx\hv@label\empty\else\label{\hv@label}\fi}%
671 \fi
672 \else
673 \ifx\relax\hv@shortCap\relax
674 \tabcaption{\hv@longCap\ifx\hv@label\empty\else\label{\hv@label}\fi}%
675 \else
676 \tabcaption[\hv@shortCap]{\hv@longCap\ifx\hv@label\empty\else\label{\hv@label}\fi}%
677 \fi
678 \fi
679 \fi
680 \else
681 \ifhv@onlyText
682 \hv@longCap
683 \else
684 \let\@capytype\hv@floatType
685 \ifx\hv@shortCap\empty\caption{\hv@longCap}\else\caption[\hv@shortCap]{\hv@longCap}\fi
686 \ifx\hv@label\empty\else\label{\hv@label}\fi
687 \fi
688 \fi
689 \endminipage
690 }%
691 \else
692 \savebox\hvCaptionBox{% Rotation
693 \rotatebox{\hvSet@capAngle}{%
694 \minipage[b]{\hvCapWidth}%% minipage, to get hyphenation
695 % \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
696 \ifhv@nonFloat
697 \ifhv@onlyText
698 \hv@longCap
699 \else
700 \ifx\hv@floatType\hv@figure
701 \ifx\hv@shortCap\empty \figcaption{\hv@longCap}\else\figcaption[\hv@shortCap]{\hv@longCap}\fi
702 \else
703 \ifx\hv@shortCap\empty \tabcaption{\hv@longCap}\else\tabcaption[\hv@shortCap]{\hv@longCap}\fi
704 \fi
705 \fi
706 \else
707 \ifhv@onlyText
708 \hv@longCap
709 \else
710 \let\@capytype\hv@floatType
711 \ifx\hv@shortCap\empty \caption{\hv@longCap}\else\caption[\hv@shortCap]{\hv@longCap}%
712 \fi
713 \fi
714 \fi
715 \ifx\hv@label\empty\else\label{\hv@label}\fi
716 \endminipage
717 }% \rotatebox
718 }% \sbox
719 \fi
720 %
721 % now we have the object and the caption with the right
722 % rotated angles saved in different boxes
723 %%

```

```

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

```

```

791 \fi
792 \fi
793 \fi
794 %%%
795 \savebox{\@tempboxa}{% ***** @tempbox start
796 \expandafter\ifcase\the\hv@capPos% 0 is LEFT START \ifcase
797 \ifx\hvSet@capVPos\hv@Center
798 \put@CaptionBox
799 \hspace{\hv@floatCapSep}% capfloatsep
800 \put@ObjectBox
801 \else
802 \ifx\hvSet@capVPos\hv@Top% caption and object at top aligned
803 \put@CaptionBox[1]%
804 \hspace{\hv@floatCapSep}% capfloatsep
805 \put@ObjectBox[1]%
806 \else% caption on bottom
807 \put@CaptionBox[2]%
808 \hspace{\hv@floatCapSep}% capfloatsep
809 \put@ObjectBox[2]%
810 \fi
811 \fi% end caption left
812 \or%1 is top
813 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
814 \begin{minipage}{\wd\hvCaptionBox}%
815 \else
816 \begin{minipage}{\wd\hvObjectBox}%
817 \fi
818 \centering
819 \ifhv@fbox
820 \fbox{\usebox{\hvCaptionBox}}\[\[0.5\hvBelowCaptionSkip]%
821 \fbox{\usebox{\hvObjectBox}}%
822 \else
823 \usebox{\hvCaptionBox}\[\[0.5\hvBelowCaptionSkip]%
824 \usebox{\hvObjectBox}%
825 \fi
826 \end{minipage}%
827 \or%2 is right
828 \ifx\hvSet@capVPos\hv@Center
829 \put@ObjectBox
830 \hspace{\hv@floatCapSep}%
831 \put@CaptionBox
832 \else
833 \ifx\hvSet@capVPos\hv@Top
834 \put@ObjectBox[1]%
835 \hspace{\hv@floatCapSep}% capfloatsep
836 \put@CaptionBox[1]%
837 \else
838 \put@ObjectBox[2]%
839 \hspace{\hv@floatCapSep}% capfloatsep
840 \put@CaptionBox[2]%
841 \fi
842 \fi
843 \or%3 bottom
844 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
845 \begin{minipage}{\wd\hvCaptionBox}%
846 \else
847 \begin{minipage}{\wd\hvObjectBox}%
848 \fi
849 \centering
850 \ifhv@fbox
851 \fbox{\usebox{\hvObjectBox}}\[\[0.5\hvAboveCaptionSkip]%
852 \fbox{\usebox{\hvCaptionBox}}%
853 \else
854 \ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi\[\[0.5\hvAboveCaptionSkip]%
855 \usebox{\hvCaptionBox}%
856 \fi

```



```

857 \end{minipage}%
858 \fi% \ifcase\the\hv@capPos
859 }% End savebox Object and caption %%%%%%%%%%%%%%% @tempboxa
860 %
861 % now we rotate the object and caption, if needed
862 %
863 \ifhv@wide
864 \ifoddpageoroneside
865 \if@twocolumn
866 \if@firstcolumn
867 \noindent
868 \hspace*{\dimexpr-\marginparwidth-\marginparsep}% oddpage first column
869 \fi
870 \fi
871 \else
872 \ifoddpage
873 \if@twocolumn
874 \if@firstcolumn
875 \noindent
876 \hspace*{\dimexpr-\marginparwidth-\marginparsep}% oddpage first column
877 \fi
878 \fi
879 \else% evenpage
880 \if@firstcolumn
881 \noindent
882 \hspace*{\dimexpr-\marginparwidth-\marginparsep}% <- for wide and left page
883 \fi
884 \fi
885 \fi
886 \fi
887 \ifx\hvSet@rotAngle\hv@Zero
888 \usebox{\@tempboxa}%
889 \else
890 \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}%
891 \fi
892 \ifhv@nonFloat
893 \ifx\hvSet@objectPos\hv@Center
894 % \ifhv@nonFloat
895 \hspace{\fill}%
896 % \fi
897 \fi
898 \endgroup% End the nonfloat part
899 \else
900 \ifhv@star
901 \@nameuse{end\hv@floatType}% End the floating environment
902 \else
903 \end{\hv@floatType}% End the floating environment
904 \fi
905 \fi
906 \endgroup% startet at main \hvFloat
907 }
908 %
909 \newenvironment{hvFloatEnv}[1][\textwidth]
910 {\minipage{#1}}
911 {\endminipage}
912 %
913
914 \ExplSyntaxOn
915 \let\clist@item@Nn\clist_item:Nn
916 \let\l@clist@Type\l_clist_Type
917 \let\l@clist@LofCaption\l_clist_LofCaption
918 \let\l@clist@Label\l_clist_Label
919 \let\clist@count@N\clist_count:N
920 \ExplSyntaxOff
921
922 \def\do@@@hvFloat{% special float page: caption <-> fullpage images
923 \ifx\hvSet@capPos\hv@After \global\hv@capPos=1

```

```

924 \else
925 \ifx\hvSet@capPos\hv@Even \global\hv@@capPos=2
926 \else
927 \ifx\hvSet@capPos\hv@Odd \global\hv@@capPos=3
928 \else
929 \ifx\hvSet@capPos\hv@Inner \global\hv@@capPos=4
930 \else
931 \ifx\hvSet@capPos\hv@Outer \global\hv@@capPos=5
932 \else
933 \ifx\hvSet@capPos\hv@Right \global\hv@@capPos=6% only for twocolumn mode
934 \else
935 \ifx\hvSet@capPos\hv@Left \global\hv@@capPos=7% only for twocolumn mode
936 \else
937 \global\hv@@capPos=0
938 \fi
939 \fi
940 \fi
941 \fi
942 \fi
943 \fi
944 \fi
945 \checkoddpage
946 \set@caption@object{\hv@floatType}% set caption and object into a box
947 \ifcase\hv@@capPos% caption before object 0-> _always_ left
948 \setBottomCaption\setPageObject
949 \or% caption after object 1-> _always_ right
950 \setPageObject\setBottomCaption
951 \or% caption on even page 2-> left page
952 \ifoddpage
953 \afterpage{\setBottomCaption\setPageObject}%
954 \else% we are on an even page
955 \setBottomCaption\setPageObject
956 \fi
957 \or% caption on odd page 3->right page
958 \if@twoside
959 \if@twocolumn
960 \ifoddpage
961 \if@firstcolumn% on right side
962 \setBottomCaption\setPageObject
963 \else
964 \afterpage{\setPageObject\setBottomCaption}% start next column
965 \fi
966 \else% left (even) page
967 \if@firstcolumn
968 \afterpage{\setPageObject\setBottomCaption}% start next column
969 \else
970 \setPageObject\setBottomCaption
971 \fi
972 \fi
973 \else% onecolumn
974 \ifoddpage
975 \setPageObject\setBottomCaption
976 \else% even page
977 \afterpage{\setPageObject\setBottomCaption}%
978 \fi
979 \fi
980 \else% oneside
981 \if@twocolumn
982 \ifoddpage
983 \if@firstcolumn% on right side
984 \setBottomCaption\setPageObject
985 \else
986 \setPageObject\setBottomCaption
987 \fi
988 \else
989 \if@firstcolumn% on left side
990 \afterpage{\setPageObject\setBottomCaption}%

```

```

991         \else
992         \setPageObject\setBottomCaption
993         \fi
994     \fi
995     \else % onecolumn
996     \ifoddpage
997     \setBottomCaption\setPageObject
998     \else
999     \afterpage{\setBottomCaption\setPageObject}%
1000     \fi
1001 \fi
1002 \fi
1003 \or%          caption on the inner column 4->inner
1004 % \set@caption@object
1005 \if@twocolumn
1006     \ifoddpage
1007     \if@firstcolumn% on right side
1008     \setBottomCaption\setPageObject
1009     \else % right column on right side
1010     \setPageObject\setBottomCaption% start next firstcolumn next page
1011     \fi
1012 \else
1013     \if@firstcolumn% on left side
1014     \afterpage{\afterpage{\setBottomCaption\setPageObject}}% start next page/first column
1015     \else% left page/column
1016     \setBottomCaption\setPageObject% start on same page/column
1017     \fi
1018 \fi
1019 \else% onecolumn
1020 \setBottomCaption\setPageObject
1021 \fi
1022 \or%          caption on the outer column 5->outer
1023 % \set@caption@object
1024 \if@twocolumn
1025     \ifoddpage
1026     \if@firstcolumn
1027     \afterpage{\afterpage{\setBottomCaption\setPageObject}}%
1028     \else
1029     \afterpage{\setBottomCaption\setPageObject}%
1030     \fi
1031 \else% even page (left)
1032     \if@firstcolumn
1033     \setBottomCaption\setPageObject
1034     \else
1035     %%          !!!! to-do: !!!!
1036     \fi
1037 \fi
1038 \else% onecolumn
1039 \setBottomCaption\setPageObject
1040 \fi
1041 \or%          caption after object on same page 6->right for twocolumn
1042 \if@twocolumn
1043     \if@firstcolumn
1044     \afterpage{\setPageObject\setBottomCaption}%
1045     \else
1046     \setPageObject\setBottomCaption
1047     \fi
1048 \else% always caption _after_ object for onecolumn
1049 \setPageObject\setBottomCaption
1050 \fi
1051 \or%          caption before object on same page 7->left for twocolumn
1052 \if@twocolumn
1053     \if@firstcolumn
1054     \setBottomCaption\setPageObject
1055     \else
1056     \afterpage{\setBottomCaption\setPageObject}%
1057     \fi

```

```

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

```

```

1124 \ifhv@switchType
1125 \do@hvFloat@doublePAGECaptionRight{#1}%
1126 \else
1127 \afterpage{\do@hvFloat@doublePageCaptionRight{#1}}%
1128 \fi
1129 \fi
1130 \else% we have an even page
1131 \if@twocolumn
1132 \if@firstcolumn
1133 \ifhv@switchType
1134 \afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}%
1135 \else
1136 \afterpage{\afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}}%
1137 \fi
1138 \else% second column
1139 \ifhv@switchType
1140 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1141 \else
1142 \afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1143 \fi
1144 \fi
1145 \else% onecolumn
1146 \ifhv@switchType
1147 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1148 \else
1149 \afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1150 \fi
1151 \fi
1152 \fi
1153 \let\c@fptop\hv@fptop
1154 \fi
1155 \endgroup% started at main macro \hvFloat
1156 }
1157 %
1158 \def\do@hvFloat@doublePageCaptionRight#1{% image on left and right page with caption on the right page
-----
1159 \do@hvFloat@doublePageCaptionRightObjectLeft{0pt}%
1160 \afterpage{\do@hvFloat@doublePageCaptionRightObjectRight{#1}}%
1161 }
1162 %
1163 \def\do@hvFloat@doublePageCaptionRightObjectLeft#1{% left part of the object
1164 \begin{\hv@floatType*}[!t]
1165 \hv@set@noverticalSpace
1166 \hfuzz=\maxdimen
1167 \let\c@hv@tempCNTfigA\c@figure
1168 \let\c@hv@tempCNTtabA\c@table
1169 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1170 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1171 \hv@typeout{Floatpositionsparameter: !t}%
1172 \global\savebox{\hvObjectBox}{\ifhv@useObject\usebox{\hvObjectBox}\else\hv@floatObject\fi}%
1173 \clipbox*{0 -\depth}{\hv@leftPageObjectWidth}{\height}{\usebox{\hvObjectBox}%
1174 \ifx\hv@label\@empty
1175 \else
1176 \ifx\hv@floatType\hv@figure
1177 \global\refstepcounter{hv@tempCNTfigA}%
1178 \else
1179 \global\refstepcounter{hv@tempCNTtabA}% before caption
1180 \fi
1181 \label{\hv@label}%
1182 \fi
1183 \ifhv@global@sameHeight
1184 \hv@typeout{text should be of same height of both pages}%
1185 \par\noindent\phantom{\parbox{\textwidth}{\caption*{\hv@LongCap}}}%
1186 % \vspace{-2pt}%
1187 \fi
1188 \hv@reset@noverticalSpace
1189 \end{\hv@floatType*}%

```

```

1190 }
1191 \def\do@hv@float@doublePageCaptionRightObjectRight#1{% right part of the object
1192 \begin{hv@floatType*}[!t]
1193   \hv@set@noverticalSpace
1194   \hfuzz=\maxdimen
1195   \expandafter\hv@floatSet\expandafter{\hv@save@setting}%
1196   \global\savebox\hvObjectBox{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1197   \hspace*{-\hv@tempWidthA}%
1198   \savebox\hv@rightBox{\clipbox*{\hv@leftPageObjectWidth{} -\depth{} \width{} \height{} }\usebox\hvObjectBox}%
1199   \global\setlength\hv@tempWidthB{\dimexpr\textwidth-\wd\hv@rightBox-\hv@set@bindCorrection+lin+\oddsidemargin-\hv@floatCapSep\relax}%
1200   \hv@typeout{Height of right box: \the\ht\hv@rightBox}%
1201   \hv@typeout{Depth of right box : \the\dp\hv@rightBox}%
1202   \ifdim\dp\hv@rightBox > \z@
1203     \raisebox{\depth}{\usebox\hv@rightBox}%
1204   \else
1205     \usebox\hv@rightBox
1206   \fi
1207   \c@hv@tempCNTfigB=\numexpr\c@figure-1\relax
1208   \c@hv@tempCNTtabB=\numexpr\c@table-1\relax
1209   \ifx\hv@label\@empty\else
1210     \ifx\hv@floatType\hv@figure
1211       \refstepcounter{hv@tempCNTfigB}%
1212     \else
1213       \refstepcounter{hv@tempCNTtabB}% before caption
1214     \fi
1215     \label{\hv@label-2}%
1216   \fi
1217   \ifx\hv@caption@format@temp\@empty\else
1218     \expandafter\captionsetup\expandafter{\hv@caption@format@temp}%
1219   \fi
1220   \c@figure=\numexpr\c@hv@tempCNTfigB-1\relax
1221   \c@table=\numexpr\c@hv@tempCNTtabB-1\relax
1222   \ifnum#1>\z@ % caption on the right
1223     \hv@typeout{doublePage: capAngle=\hv@set@capAngle}%
1224     \ifnum\hv@set@capAngle > \z@
1225       \hspace{\hv@floatCapSep}%
1226       \rlap{\rotatebox{\hv@set@capAngle}{\parbox[b]{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1227         \abovecaptionskip=0pt% local inside parbox
1228         \belowcaptionskip=0pt% local inside parbox
1229         \ifx\relax\hv@shortCap\relax
1230           \caption{\hv@longCap}%
1231         \else
1232           \caption[\hv@shortCap]{\hv@longCap}%
1233         \fi
1234       }}}%
1235     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1236   \else
1237     \global\setlength\hv@tempWidthB{\dimexpr\textwidth-\wd\hv@rightBox-\hv@set@bindCorrection+lin+\oddsidemargin-\hv@floatCapSep\relax}%
1238     \hspace{\hv@floatCapSep}%
1239     \rlap{\parbox[b]{\dimexpr\ht\hv@rightBox+\dp\hv@rightBox}{\hv@capVPos}{\hv@tempWidthB}{%
1240       \abovecaptionskip=0pt% local inside parbox
1241       \belowcaptionskip=0pt% local inside parbox
1242       \ifx\hv@shortCap\@empty
1243         \caption{\hv@longCap}%
1244       \else
1245         \caption[\hv@shortCap]{\hv@longCap}%
1246       \fi
1247     }}%
1248     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1249   \fi
1250   \else % #1 = 0 caption below
1251     \ifx\relax\hv@shortCap\relax
1252       \caption{\hv@longCap}%
1253     \else

```



```

1254 \caption[\hv@shortCap]{\hv@longCap}%
1255 \fi
1256 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1257 \fi
1258 \vspace{0pt}%
1259 \hv@reset@noverticalSpace
1260 \end{\hv@floatType*}
1261 }
1262 %
1263 \newsavebox\hv@boxLeftPage
1264 \newsavebox\hv@boxRightPage
1265 %
1266 %% ||lin+evenside --- |lin+oddside ---||
1267 %
1268
1269 \def\do@hvFloat@doublePAGE#1{% image on left and right page with caption on the right
-----
1270 % #1-> 0/1 caption under/right
1271 % \global\setlength\hv@tempWidthA{\the\dimexprlin+oddsidemargin-\hvSet@bindCorrection}%
1272 % \global\setlength\hv@leftPageObjectWidth{\the\dimexpr\paperwidth-lin-\evensidemargin-\hvSet@bindCorrection}%
1273 \expandafter\global\expandafter\savebox\expandafter\hvObjectBox\expandafter{\ifhv@useOBox\usebox{\hvOBox}
\else\hv@floatObject\fi}%
1274 \expandafter\global\expandafter\savebox\expandafter\hv@boxLeftPage\expandafter{\clipbox*{0 -\depth}{ \hv@leftPageObjectWidth}{ \height}{\usebox\hvObjectBox}}%
1275 \expandafter\global\expandafter\savebox\expandafter\hv@boxRightPage\expandafter{\clipbox*{\hv@leftPageObjectWidth}{ -\depth}{ \width}{ \height}{\usebox\hvObjectBox}}%
1276 \checkoddpag
1277 \ifoddpag
1278 \if@twocolumn
1279 \if@firstcolumn
1280 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1281 \else
1282 \do@hvFloat@doublePAGECaptionRight{#1}%
1283 \fi
1284 \else
1285 \do@hvFloat@doublePAGECaptionRight{#1}%
1286 \fi
1287 \else
1288 \if@twocolumn
1289 \if@firstcolumn
1290 \afterpage{\afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}}%
1291 \else
1292 \afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}%
1293 \fi
1294 \else
1295 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}% onecolumn/left page
1296 \fi
1297 \fi
1298 \endgroup% startet at main macro
1299 }
1300 %
1301 \def\do@hvFloat@doublePAGECaptionRight#1{% image on left and right page with caption on the right
-----
1302 % #1-> 0/1 caption under/right
1303 \afterpage{%
1304 \hfuzz=\maxdimen
1305 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1306 \ifhv@useOBox
1307 \global\let\hvObjectBox\hvOBox
1308 \else
1309 \global\savebox\hvObjectBox{\hv@floatObject}%
1310 \fi
1311 \noindent
1312 \global\setlength\hv@tempWidthA{\the\dimexprlin+oddsidemargin-\hvSet@bindCorrection}%
1313 \global\setlength\hv@leftPageObjectWidth{\the\dimexpr\paperwidth-lin-\evensidemargin-\hvSet@bindCorrection}%

```

```

1314 \clipbox*{0 -\depth{ } \hv@leftPageObjectWidth{ } \height{ }}{\usebox\hvObjectBox}%
1315 \null\newpage\if@twocolumn\null\newpage\fi
1316 \expandafter\global\expandafter\savebox\expandafter\hvObjectBox\expandafter{\ifhv@useObject\usebox{\hvObjectBox}\else\hv@floatObject\fi}%
1317 \noindent
1318 \hspace*{\dimexpr-\hv@tempWidthA}%
1319 \clipbox*{\the\hv@leftPageObjectWidth{ } -\depth{ } \width{ } \height{ }}{\usebox\hvObjectBox}%
1320 \begingroup
1321 \ifnum#1>0
1322 \medskip
1323 \ifdim\dp\hvObjectBox > \z@
1324 \rotatebox[origin=c]{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1325 \ifx\relax\hv@shortCap\relax
1326 \captionof{\hv@floatType}{\hv@longCap}%
1327 \else
1328 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1329 \fi
1330 }}%
1331 \ifx\hv@label\@empty\else\label{\hv@label}\fi
1332 \else
1333 \rotatebox{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1334 \ifx\relax\hv@shortCap\relax
1335 \captionof{\hv@floatType}{\hv@longCap}%
1336 \else
1337 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1338 \fi
1339 }}%
1340 \ifx\hv@label\@empty\else\label{\hv@label}\fi
1341 \fi
1342 \else% caption not rotated
1343 \par\noindent
1344 \parbox{\textwidth}{%
1345 \ifx\relax\hv@shortCap\relax
1346 \captionof{\hv@floatType}{\hv@longCap}%
1347 \else
1348 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1349 \fi
1350 \ifx\hv@label\@empty\else\label{\hv@label}\fi
1351 }%
1352 \fi
1353 \endgroup
1354 \newpage\if@twocolumn\null\newpage\fi
1355 }%
1356 }
1357 %
1358 %% ||lin=evenside --- |lin=oddside ---||
1359 %
1360 \def\do@hvFloat@doubleFULLPAGE#1{% image on left and right page with caption before/below/right/after
1361 % #1-> 0/1 caption under/right
1362 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1363 \ifx\hvSet@capPos\hv@After \global\hv@capPos=1
1364 \else
1365 \ifx\hvSet@capPos\hv@Before \global\hv@capPos=0
1366 \else
1367 \global\hv@capPos=2 % other caption type
1368 \fi\fi
1369 \checkoddpages
1370 \global\savebox{\hvObjectBox}{\ifhv@useObject\usebox{\hvObjectBox}\else\hv@floatObject\fi}%
1371 \global\setlength\hv@tempWidthA{\dimexpr-\oddsidemargin-\lin-\parindent+\hvSet@bindCorrection}% the
width of the right side offset
1372 \global\setlength\hv@tempWidthB{\dimexpr\ht\hvCaptionBox+\wd\hvObjectBox+2\hvSet@bindCorrection}%
1373 \global\setlength\hv@leftPageObjectWidth{\dimexpr\paperwidth-\hvSet@bindCorrection}%
1374 % \savebox\hv@leftBox{\clipbox*{0 0 \the\hv@leftPageObjectWidth{ } \height{ }}{\usebox\hvObjectBox}}%
1375 % \savebox\hv@rightBox{\clipbox*{\the\hv@leftPageObjectWidth{ } \depth{ } \width{ } \height{ }}{\usebox\hvObjectBox}}%
1376 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1377 \ifoddpage

```

```

1378 \ifcase\hv@capPos % =0 Caption before
1379 \if@twocolumn
1380 \if@firstcolumn
1381 \ifhv@twoColumnCaption
1382 \set@Normal@Bottom@Caption*
1383 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1384 \else
1385 \afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1386 \fi
1387 \else% \if@firstcolumn
1388 \set@Normal@Bottom@Caption
1389 \do@hvFloat@doubleFULLPAGE@CaptionBefore
1390 \fi
1391 \else% \if@twocolumn
1392 \set@Normal@Bottom@Caption
1393 \do@hvFloat@doubleFULLPAGE@CaptionBefore
1394 \fi
1395 \or % =1 Caption after
1396 \ifhv@twoColumnCaption
1397 \if@firstcolumn
1398 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol}%
1399 \else
1400 \do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol
1401 \fi
1402 \else
1403 \if@twocolumn
1404 \if@firstcolumn
1405 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter}%
1406 \else
1407 \do@hvFloat@doubleFULLPAGE@CaptionAfter
1408 \fi
1409 \else
1410 \do@hvFloat@doubleFULLPAGE@CaptionAfter
1411 \fi
1412 \fi
1413 \else% \ifcase >1 all other Captions
1414 \if@twocolumn
1415 \if@firstcolumn
1416 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}%
1417 \else
1418 \do@hvFloat@doubleFULLPAGE@CaptionOther{#1}%
1419 \fi
1420 \else % \if@twocolumn
1421 \do@hvFloat@doubleFULLPAGE@CaptionOther{#1}%
1422 \fi
1423 \fi% \ifcase
1424 \else% we have an even page
1425 \ifcase\hv@capPos% Before
1426 \if@twocolumn
1427 \if@firstcolumn
1428 \ifhv@twoColumnCaption
1429 \afterpage{\afterpage\set@Normal@Bottom@Caption*\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}%
1430 \else
1431 \afterpage{\afterpage{\afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}%
1432 \fi
1433 \else
1434 \afterpage{\afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}%
1435 \fi
1436 \else% \if@twocolumn
1437 \afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1438 \fi
1439 \or % capPos after
1440 \if@twocolumn
1441 \if@firstcolumn
1442 \ifhv@twoColumnCaption

```

```

1443 \afterpage{\afterpage\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol{#1}}}%
1444 \else
1445 \afterpage{\afterpage\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter{#1}}}%
1446 \fi
1447 \else
1448 \ifhv@twoColumnCaption
1449 \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol{#1}}}%
1450 \else
1451 \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter{#1}}}%
1452 \fi
1453 \fi
1454 \else% \if@twocolumn
1455 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter}%
1456 \fi
1457 \else % \ifcase Any other caption
1458 \if@twocolumn
1459 \if@firstcolumn
1460 \afterpage{\afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}}}%
1461 \else
1462 \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}}%
1463 \fi
1464 \else
1465 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}%
1466 \fi
1467 \fi% \ifcase
1468 \fi% main ifoddpge
1469 \endgroup% started at main macro \hvFloat
1470 }
1471
1472 \def\set@Normal@Bottom@Caption{\@ifnextchar*\set@Normal@Bottom@CaptionStar\set@Normal@Bottom@Caption@}
1473 \def\set@Normal@Bottom@Caption@{%
1474 \begin{\hv@floatType}[!b]
1475 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1476 \ifhv@separatorLine\drawSepLine\fi
1477 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1478 \ifhv@onlyText
1479 \hv@longCap
1480 \else
1481 \ifx\hv@shortCap\@empty
1482 \captionof{\hv@floatType}{\hv@longCap}%
1483 \else
1484 \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1485 \fi
1486 \fi
1487 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1488 \end{\hv@floatType}%
1489 }
1490 \def\set@Normal@Bottom@CaptionStar*{%
1491 \begin{\hv@floatType*}[!b]
1492 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1493 \ifhv@separatorLine\drawSepLine\fi
1494 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1495 \ifhv@onlyText
1496 \hv@longCap
1497 \else
1498 \ifx\hv@shortCap\@empty
1499 \captionof{\hv@floatType}{\hv@longCap}%
1500 \else
1501 \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1502 \fi
1503 \fi
1504 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1505 \end{\hv@floatType*}%
1506 }
1507
1508 \def\do@hvFloat@doubleFULLPAGE@CaptionBefore{%
1509 \afterpage{%

```

```

1510 \hfuzz=\maxdimen
1511 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1512 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}% no
interlineskip
1513 \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1514 \thispagestyle{empty}%
1515 \ifx\hv@floatType\hv@figure
1516 \global\refstepcounter{hv@tempCNTfigB}%
1517 \else
1518 \global\refstepcounter{hv@tempCNTtabB}% before caption
1519 \fi
1520 \expandafter\label\expandafter{\hv@label}%
1521 \clipbox*{0 0 \the\hv@leftPageObjectWidth{ } \height}{\usebox{\hvObjectBox}%
1522 \afterpage{%
1523 \if@twocolumn\newpage\null\newpage\fi
1524 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1525 \thispagestyle{empty}%
1526 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}%
-0.5\paperheight+0.5\ht\hvObjectBox
1527 \hspace*{\hv@tempWidthA}%
1528 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1529 \clipbox*{\the\hv@leftPageObjectWidth{ } \dp\hvObjectBox{ } \wd\hvObjectBox{ } \ht\hvObjectBox}{\usebox\hvObjectBox}%
1530 \ifx\hv@floatType\hv@figure
1531 \global\refstepcounter{hv@tempCNTfigA}%
1532 \else
1533 \global\refstepcounter{hv@tempCNTtabA}% before caption
1534 \fi
1535 \expandafter\label\expandafter{\hv@label-2}%
1536 \newpage\if@twocolumn\null\newpage\fi
1537 }}%
1538 }
1539
1540 \newif\ifhv@temp
1541
1542 \def\do@hvFloat@doubleFULLPAGE@CaptionAfter{%
1543 \afterpage{%
1544 \hfuzz=\maxdimen
1545 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1546 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}% no
interlineskip
1547 \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1548 \thispagestyle{empty}%
1549 \clipbox*{0 \the\dp\hvObjectBox{ } \the\hv@leftPageObjectWidth{ } \the\ht\hvObjectBox}{\usebox\hvObjectBox}%
1550 \ifx\hv@floatType\hv@figure
1551 \refstepcounter{hv@tempCNTfigA}%
1552 \else
1553 \refstepcounter{hv@tempCNTtabA}% before caption
1554 \fi
1555 \ifx\hv@label\@empty\else\label{\hv@label}\fi
1556 \newpage
1557 \if@twocolumn\null\newpage\fi
1558 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1559 \thispagestyle{empty}%
1560 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}%
-0.5\paperheight+0.5\ht\hvObjectBox
1561 \hspace*{\hv@tempWidthA}%
1562 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1563 \clipbox*{\the\hv@leftPageObjectWidth{ } \dp\hvObjectBox{ } \wd\hvObjectBox{ } \ht\hvObjectBox}{\usebox\hvObjectBox}%
1564 \ifx\hv@floatType\hv@figure
1565 \refstepcounter{hv@tempCNTfigB}%
1566 \else
1567 \refstepcounter{hv@tempCNTtabB}% before caption
1568 \fi
1569 \expandafter\label\expandafter{\hv@label-2}%

```

```

1570 \newpage\if@twocolumn\null\newpage\fi
1571 \begin{\hv@floatType}[!b]
1572 \ifhv@separatorLine\drawSepLine\fi
1573 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1574 \ifhv@onlyText
1575 \hv@longCap
1576 \else
1577 \ifx\hv@shortCap\@empty
1578 \captionof{\hv@floatType}{\hv@longCap}%
1579 \else
1580 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1581 \fi
1582 \fi
1583 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1584 \end{\hv@floatType}%
1585 }%
1586 }
1587
1588 \def\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol{%
1589 \afterpage{%
1590 \global\savebox{\hv@objectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@float0object\fi}%
1591 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}% no
interlineskip
1592 \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1593 \thispagestyle{empty}%
1594 \ifx\hv@floatType\hv@figure
1595 \refstepcounter{hv@tempCNTfigA}%
1596 \else
1597 \refstepcounter{hv@tempCNTtabA}% before caption
1598 \fi
1599 \ifx\hv@label\@empty\else\label{\hv@label}\fi
1600 \clipbox*{0 0 \the\hv@leftPageObjectWidth{ } \height}{\usebox{\hv@objectBox}%
1601 \newpage\if@twocolumn\null\newpage\fi
1602 \global\savebox{\hv@objectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@float0object\fi}%
1603 \thispagestyle{empty}%
1604 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}%
-0.5\paperheight+0.5\ht\hv0objectBox
1605 \hspace*{\hv@tempWidthA}%
1606 \global\savebox{\hv@objectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@float0object\fi}%
1607 \clipbox*{\the\hv@leftPageObjectWidth{ } \dp\hv0objectBox{ } \wd\hv0objectBox{ } \ht\hv0objectBox}{\usebox
\hv0objectBox}%
1608 \ifx\hv@floatType\hv@figure
1609 \refstepcounter{hv@tempCNTfigB}%
1610 \else
1611 \refstepcounter{hv@tempCNTtabB}% before caption
1612 \fi
1613 \ifx\hv@label\@empty\else\label{\hv@label-2}\fi
1614 \newpage
1615 \begin{\hv@floatType*}[!b]
1616 \hv@twoColumnCaptiontrue
1617 \ifhv@separatorLine\drawSepLine\fi
1618 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1619 \ifhv@onlyText
1620 \hv@longCap
1621 \else
1622 \ifx\hv@shortCap\@empty
1623 \captionof{\hv@floatType}{\hv@longCap}%
1624 \else
1625 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1626 \fi
1627 \fi
1628 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1629 \end{\hv@floatType*}%
1630 }%
1631 }
1632
1633 \def\do@hvFloat@doubleFULLPAGE@CaptionOther#1{%

```



```

1634 \afterpage{%
1635   \hfuzz=\maxdimen
1636   \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1637   \thispagestyle{empty}%
1638   \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}% -0.5\
      paperheight+0.5\ht\hvObjectBox
1639   \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1640   \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1641   \clipbox*{0 \depth}{ \hv@leftPageObjectWidth{ } \height}{\usebox{\hvObjectBox}%
1642   \ifx\hv@floatType\hv@figure
1643     \refstepcounter{hv@tempCNTfigA}%
1644   \else
1645     \refstepcounter{hv@tempCNTtabA}% before caption
1646   \fi
1647   \label{\hv@label}%
1648   \afterpage{%
1649     \if@twocolumn\newpage\if@firstcolumn\else\null\newpage\fi\fi
1650     \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1651     \thispagestyle{empty}%
1652     \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip+2\lineskip}%
      -0.5\paperheight+0.5\ht\hvObjectBox
1653     \hspace*{\hv@tempWidthA}%
1654     \clipbox*{\hv@leftPageObjectWidth{ } \dp\hvObjectBox{ } \wd\hvObjectBox{ } \ht\hvObjectBox{ }\usebox{\hvObjectBox}%
1655     \ifx\hv@floatType\hv@figure
1656       \refstepcounter{hv@tempCNTfigB}%
1657     \else
1658       \refstepcounter{hv@tempCNTtabB}% before caption
1659     \fi
1660     \expandafter\label\expandafter{\hv@label-2}%
1661     \savebox{\hvCaptionBox}{\parbox{0.9\ht\hvObjectBox}{\captionof*{\hv@floatType}{\hv@longCap}}}%
1662     \ifnum#1 > 0\relax % rotation with 90°
1663 % \setlength{\hv@tempWidthB}{\dimexpr\ht\hvCaptionBox+\wd\hvObjectBox+2\hv@Set@bindCorrection}%
1664     \ifdim\hv@tempWidthB < 2\paperwidth
1665       \rotatebox[origin=lb]{90}{\makebox[\paperheight][c]{\parbox{0.8\ht\hvObjectBox}{%
1666 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1667         \ifhv@onlyText
1668           \hv@longCap
1669         \else
1670           \ifx\hv@shortCap\@empty
1671             \captionof{\hv@floatType}{\hv@longCap}%
1672           \else
1673             \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1674           \fi
1675         \fi
1676       }}}% rotatebox
1677       \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1678     \else% ifdim: no space left on page
1679       \put(-2\ht\hvCaptionBox,0.5\ht\hvObjectBox){\makebox(0,0){\rotatebox{90}{\minipage{\textwidth}\centering
      \parbox{0.8\textwidth}{%
1680         \ifhv@onlyText
1681           \hv@longCap
1682         \else
1683           \ifx\hv@shortCap\@empty
1684             \captionof{\hv@floatType}{\hv@longCap}%
1685           \else
1686             \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1687           \fi
1688         \fi
1689       }}%
1690       \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1691     \endminipage}}}%
1692   \fi
1693   \else% ifnum, caption not rotated, under or over the right page
1694     \setlength{\hv@tempWidthA}{\dimexpr\paperheight-\ht\hvObjectBox}%
1695     \ifdim\hv@tempWidthA > \ht\hvCaptionBox

```

```

1697 \else
1698 \put(\the\dimexpr1.5\paperwidth-\wd\hvObjectBox-\hvSet@bindCorrection,\the\dimexpr\ht\
% hvCaptionBox+\abovecaptionskip+\belowcaptionskip){\makebox[0pt][c]{\parbox{\textwidth}{%%
1699 \expandafter\captionsetup\expandafter{\hv@caption@format}%
1700 \ifhv@onlyText
1701 \hv@longCap
1702 \else
1703 \ifx\hv@shortCap\@empty
1704 \captionof{\hv@floatType}{\hv@longCap}%
1705 \else
1706 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1707 \fi
1708 \fi
1709 }}}%
1710 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1711 \fi
1712 \fi% end \ifnum#1>0
1713 \newpage\if@twocolumn\null\newpage\fi
1714 }%
1715 }%
1716 }
1717
1718
1719 \def\setBottomCaption{%
1720 \begin{\hv@floatType}[!b]%
1721 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1722 \ifhv@separatorLine\drawSepLine\fi
1723 \par
1724 \usebox\hvCaptionBox
1725 \end{\hv@floatType}%
1726 }
1727
1728 \def\setPageObject{%
1729 \ifhv@star
1730 \begin{\hv@floatType*}[p]%
1731 \else
1732 \begin{\hv@floatType}[p]%
1733 \fi
1734 \hfuzz=\maxdimen
1735 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1736 \ifhv@FULLPAGE
1737 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep}%-0.5\baselineskip%
1738 \checkoddpage
1739 \if@twoside
1740 \ifoddpage
1741 \hspace*{\the\dimexpr-\oddsidemargin-\parindent-\lin}%
1742 \else
1743 \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1744 \fi
1745 \else
1746 \hspace*{\the\dimexpr-\oddsidemargin-\parindent-\lin}%
1747 \fi
1748 \AtBeginShipoutNext{\thispagestyle{empty}}%
1749 \usebox\hvObjectBox
1750 \else
1751 \usebox\hvObjectBox
1752 \fi
1753 \ifhv@star
1754 \end{\hv@floatType*}%
1755 \else
1756 \end{\hv@floatType}%
1757 \fi
1758 }
1759
1760 \ExplSyntaxOn
1761
1762 \def\getMultiCaptionAndLabel{%

```

```

1763 \global\sbox\hvCaptionBox{\minipage[b]{\linewidth}%
1764 \captionsetup{aboveskip=\z@,belowskip=\z@,position=below,parbox=none}%, skip=-1ex}%
1765 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1766 \parskip=-0.5\baselineskip
1767 \hv@cntb=\clist_count:N\l_clist_Type
1768 \advance\hv@cntb by \@ne
1769 \hv@canta=1
1770 \loop
1771 \edef\@captype{\clist_item:Nn\l_clist_Type{\hv@canta}}%
1772 \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{\hv@canta}}%
1773 \ifx\@tempa\@empty
1774 \caption{\clist_item:Nn\l_clist_Caption{\hv@canta}}%
1775 \else
1776 \expandafter\caption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{\hv@canta}}%
1777 \fi
1778 \edef\@tempa{\clist_item:Nn\l_clist_Label{\hv@canta}}%
1779 \ifx\@tempa\@empty
1780 \else
1781 \expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{\hv@canta}-cap}\fi
1782 \advance\hv@canta by \@ne
1783 \ifnum\hv@canta<\hv@cntb
1784 \repeat
1785 \vspace{-.5\baselineskip}% no vspace at the end
1786 \endminipage}%
1787 }
1788
1789 \def\getMultiObjectAndLabel{%
1790 \global\sbox\hvObjectBox{%
1791 \ifhv@vFill
1792 \minipage[b][\textheight]{s}{\columnwidth}%
1793 \else
1794 \minipage{\columnwidth}%
1795 \fi
1796 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1797 \ifx\hvSet@objectPos\hv@Right\raggedleft\else
1798 \ifx\hvSet@objectPos\hv@Left\raggedleft\else
1799 \ifx\hvSet@objectPos\hv@Center\centering
1800 \fi\fi\fi
1801 \hv@cntb=\clist_count:N\l_clist_Type
1802 \advance\hv@cntb by \@ne
1803 \hv@canta=1
1804 \loop
1805 \def\@temp{\clist_item:Nn\l_clist_Object{\hv@canta}}%
1806 \ifhv@objectFrame\frame{\@temp}\else\@temp\fi
1807 \edef\@tempa{\clist_item:Nn\l_clist_Label{\hv@canta}}%
1808 \edef\@tempb{\clist_item:Nn\l_clist_Type{\hv@canta}}%
1809 \edef\@captype{\hv@p\@tempb}%
1810 \ifx\@tempa\@empty
1811 \else
1812 \refstepcounter{\@captype}%
1813 \expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{\hv@canta}}%
1814 \fi
1815 \ifnum\hv@canta<\clist_count:N\l_clist_Type\par\hv@vskip\fi
1816 \advance\hv@canta by \@ne
1817 \ifnum\hv@canta<\hv@cntb
1818 \ifhv@vFill\vfill\fi
1819 \repeat
1820 \endminipage}%
1821 }
1822 \def\getMultiSubCaptionAndLabel{%
1823 \global\sbox\hvCaptionBox{%
1824 \minipage{\linewidth}%
1825 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1826 \setlength\belowcaptionskip{5pt}%
1827 \setlength\abovecaptionskip{0pt}%
1828 \xdef\@captype{\clist_item:Nn\l_clist_Type{1}}% the same for all subfloats
1829 \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{1}}%

```

```

1830 \ifx\@tempa\@empty
1831 \caption{\clist_item:Nn\l_clist_Caption{1}}%
1832 \else
1833 \expandafter\caption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{1}}%
1834 \fi
1835 \edef\@tempa{\clist_item:Nn\l_clist_Label{1}}%
1836 \ifx\@tempa\@empty\else\expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{1}-cap}\fi
1837 \endminipage}%
1838 }
1839
1840 \def\getMultiSubObjectAndLabel{%
1841 \global\sbox\hvObjectBox{%
1842 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1843 \ifhv@vFill
1844 \minipage[b][\textheight][s]{\columnwidth}%
1845 \captionsetup{belowskip=0pt}%
1846 \else
1847 \minipage{\columnwidth}%
1848 \fi
1849 % \ifx\hv@subcaption@format\@empty\else
1850 % \expandafter
1851 % \captionsetup\expandafter[\expandafter s\expandafter u\expandafter b\expandafter]\expandafter
1852 % {\hv@subcaption@format}%
1853 % \fi
1854 \ifx\hvSet@objectPos\hv@Right\raggedleft\else
1855 \ifx\hvSet@objectPos\hv@Left\raggedleft\else
1856 \ifx\hvSet@objectPos\hv@Center\centering
1857 \fi\fi\fi
1858 \hv@cntb=\clist_count:N\l_clist_Caption
1859 \advance\hv@cntb by \@ne
1860 \hv@canta=2
1861 \edef\@captype{\clist_item:Nn\l_clist_Type{1}}% the same for all subfloats
1862 \ifx\@tempa\@empty
1863 \else
1864 % \refstepcounter{\@captype}%
1865 % \expandafter\label\expandafter{\@tempa}%
1866 \fi
1867 \loop
1868 \def\@temp{\clist_item:Nn\l_clist_Object{\hv@canta}}%
1869 \ifhv@objectFrame\frame{\@temp}\else\@temp\fi
1870 \begingroup
1871 \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{\hv@canta}}%
1872 \ifx\@tempa\@empty
1873 \subcaption{\clist_item:Nn\l_clist_Caption{\hv@canta}}%
1874 \else
1875 \expandafter\subcaption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{\hv@canta}}%
1876 \fi
1877 \edef\@tempa{\clist_item:Nn\l_clist_Label{\hv@canta}}%
1878 \ifx\@tempa\@empty
1879 \else
1880 \expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{\hv@canta}}%
1881 \fi
1882 \endgroup
1883 \ifnum\hv@canta<\clist_count:N\l_clist_Type\par\hv@vskip\fi
1884 \advance\hv@canta by \@ne
1885 \ifnum\hv@canta<\hv@cntb
1886 \ifhv@vFill\vfill\fi
1887 \repeat
1888 \edef\@tempa{\clist_item:Nn\l_clist_Label{1}}% the main label at the end
1889 \ifx\@tempa\@empty
1890 \else
1891 \edef\@temp{\hv@p\@captype}%
1892 \refstepcounter{\@temp}%
1893 \expandafter\label\expandafter{\@tempa}%
1894 \fi
1895 \endminipage}%
1896 }

```

```

1897 \ExplSyntaxOff
1898
1899 \def\getSingleCaptionAndLabel{%
1900   \global\sbox\hvCaptionBox{\minipage{\linewidth}%
1901     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1902     \setlength\belowcaptionskip{5pt}%
1903     \setlength\abovecaptionskip{0pt}%
1904     \ifhv@onlyText
1905       \hv@longCap
1906     \else
1907       \edef\@capttype{\hv@floatType}%
1908       \expandafter\ifx\expandafter\relax\hv@shortCap\relax
1909         \caption{\hv@longCap}%
1910       \else
1911         \caption[\hv@shortCap]{\hv@longCap}%
1912       \fi
1913     \fi
1914     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1915   \endminipage}%
1916 }
1917
1918 \def\set@caption@object#1{% first caption, then object #1=\hv@floatType
1919   \ifhv@multiFloat
1920     \setcounter{hv@pfigure}{\value{figure}}%
1921     \setcounter{hv@ptable}{\value{table}}%
1922     \getMultiCaptionAndLabel
1923   \else
1924     \ifhv@subFloat
1925       \setcounter{hv@pfigure}{\value{figure}}%
1926       \setcounter{hv@ptable}{\value{table}}%
1927       \getMultiSubCaptionAndLabel
1928     \else
1929       \getSingleCaptionAndLabel
1930     \fi
1931   \fi
1932   \edef\@capttype{hv@p#1}%
1933   \ifhv@multiFloat
1934     \getMultiObjectAndLabel
1935   \else
1936     \ifhv@subFloat
1937       \getMultiSubObjectAndLabel
1938     \else
1939       \global\sbox\hvObjectBox{%
1940         \refstepcounter{\@capttype}%
1941         \ifhv@objectFrame\frame{\hv@floatObject}\else\hv@floatObject\fi
1942         \expandafter\ifx\expandafter\relax\hv@label\relax
1943           \else
1944             \expandafter\label\expandafter{\hv@label}%
1945           \fi
1946       }%
1947     \fi
1948   \fi
1949 }
1950 %
1951 \endinput

```