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# Package hvfloat Controlling captions, fullpage and doublepage floats ver 2.44

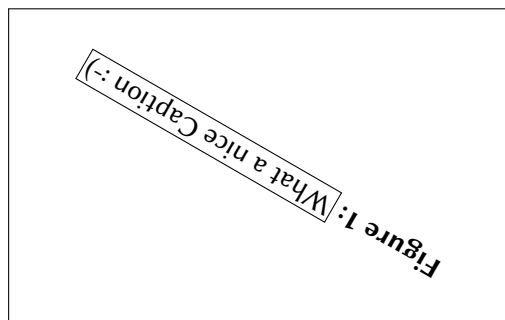
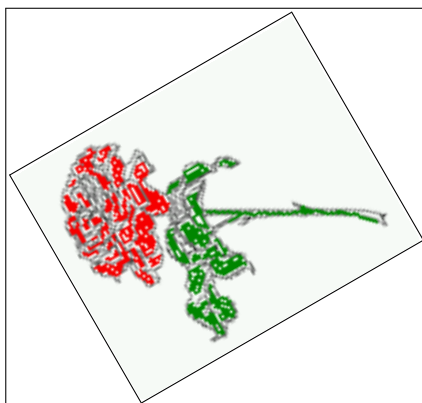
Herbert Voß\*

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

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

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



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\*[hvoss@tug.org](mailto:hvoss@tug.org)

Thanks to Karl Berry, Frank Mittelbach, Rolf Niepraschk

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## 1 The package options

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

`hyperref`    Load package `hyperref`.

`nostfloats`   do not load package `stfloats`.

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

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

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

## 2 The Macros and optional arguments

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

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

The star version is explained in section 12 on page 23 and 20.2 on page 49 and the optional `+` is explained in section 18.3 on page 38.

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

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

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

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

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

**Table 1:** A Caption without any sense and any object

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

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

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

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

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

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

There are the following keywords:

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

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



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



**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
```

Fig. 2

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

```

10 \end{tabularx}}%
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 15 for some more informations about tabulars as objects.

## 4 Caption width

### 4.1 Default – natural width

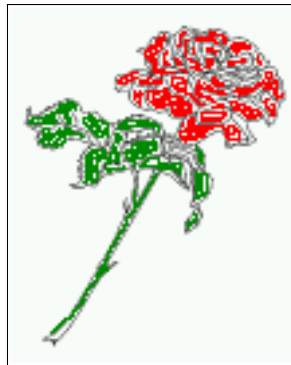
The default setting is the natural width of a paragraph with respect to the current linewidth or columnwidth for a caption below or above an object. It behaves in the same way as a caption set by one of the default floating environments like `figure` or `table`:

```

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

```

Fig. 3



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

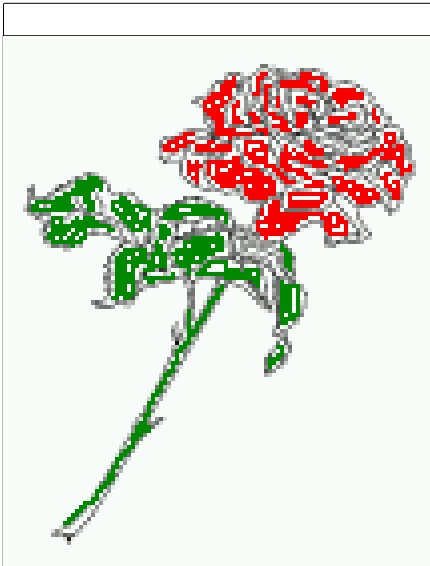
!! For the following examples the package option `fbox` is disabled. All frames are now set with the macro `\frame` or the optional keyword `objectFrame`.

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

```

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

```



**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.

Fig. 4

## 4.2 Relative linewidth

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

```
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}
```



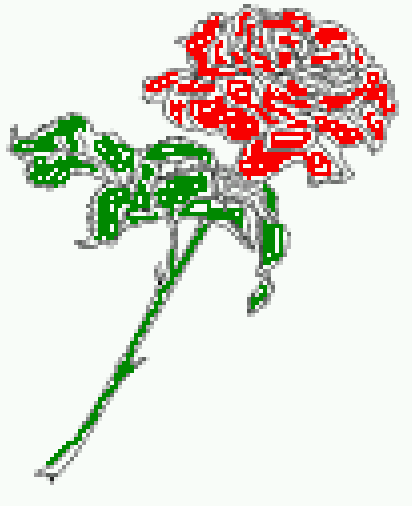
**Figure 5:** Caption below with a width of 0.9 of the current line width (column width), which is in this special case 376.42744pt. Divide it by 28.82 to get cm.

Fig. 5

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

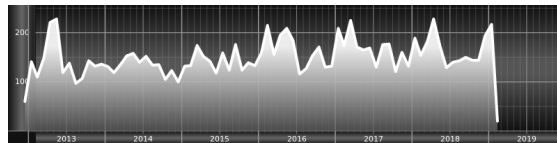


**Figure 6:** Caption right beside with a width setting of  $0.9\text{\linewidth}$  for this example and therefore corrected by the macro to the maximum

### 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 onside 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

```

5 an odd page.}{fig:20}

**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.



Fig. 12

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

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

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

Fig. 13



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

Fig. 14



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

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

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

Code for figure 15:

```

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

```

Fig. 15



**Figure 15:** Caption vertically centered right beside the float with a caption width of  $0.5\text{\columnwidth}$  and `capPos=outer`

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

## 7 Vertical Position of the Caption

The caption can be placed beside the object in the positions

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

The code for figure 16:

```

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

```

Fig. 16

The code for figure 17:

```

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

```





**Figure 16:** Caption at bottom right beside the float

```

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

```

**Figure 17:** Caption at top left beside the float

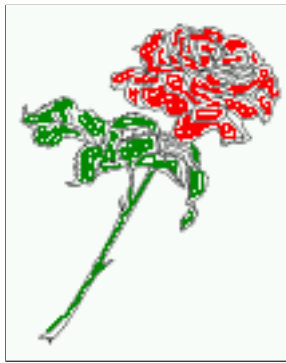


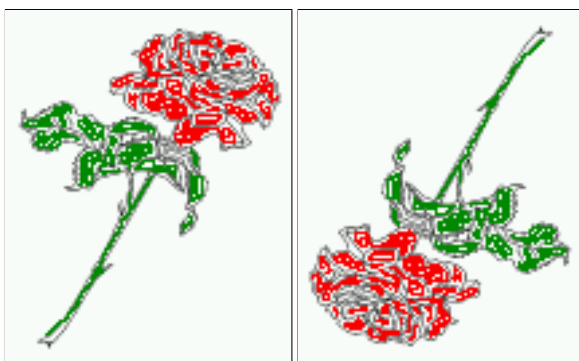
Fig. 17

The code for figure 18:

```

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

```



**Figure 18:** Caption centered right beside the float

Fig. 18

## 8 Caption format

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

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

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

Fig. 19

**Figure 19**

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

## 9 Horizontal Position of the Float

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

The code for figure 20:

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

Fig. 20



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

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

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

The same with capPos=left :

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

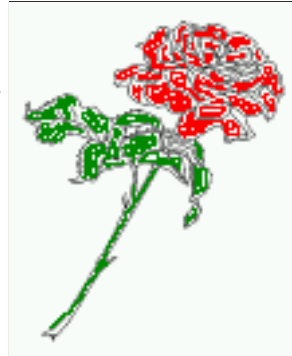


Fig. 21

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

The code for figure 22:

```

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

```

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



Fig. 22

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

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

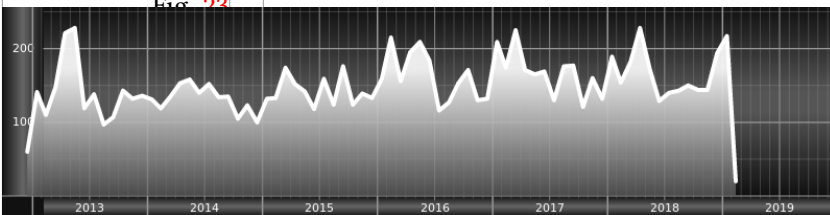
## 10 Wide floats

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

The code for figure 23:

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

Fig. 23



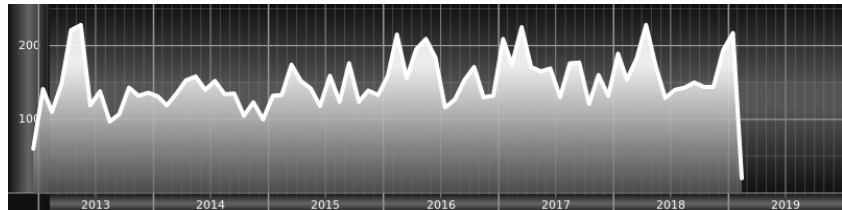
**Figure 23:** Caption at top right beside the float and object position left and the option `wide`.

The code for figure 24:

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

Fig. 24

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

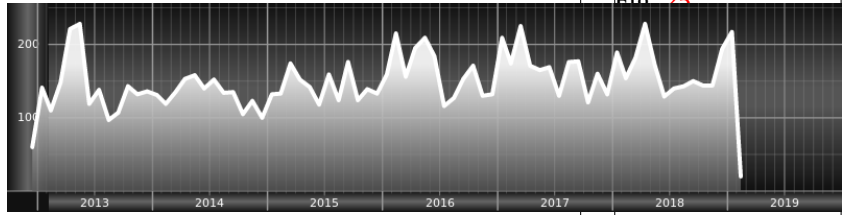


For a twosided document it will place the object always in the margin.

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

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

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



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

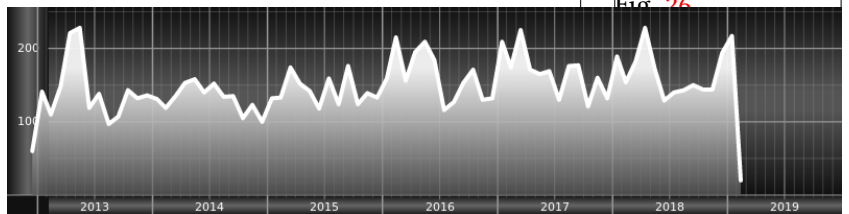
Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all!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

```

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

```

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

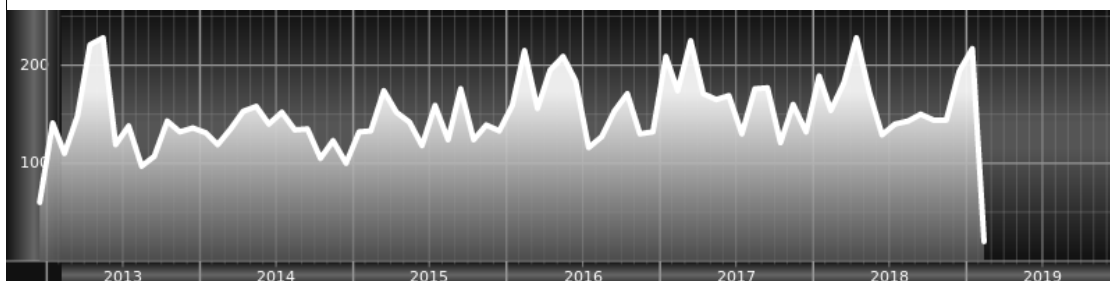


The caption can be typeset completely into the margin with:

```

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

```



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

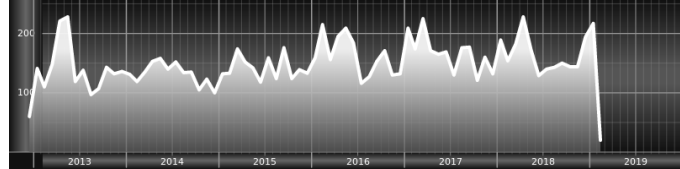
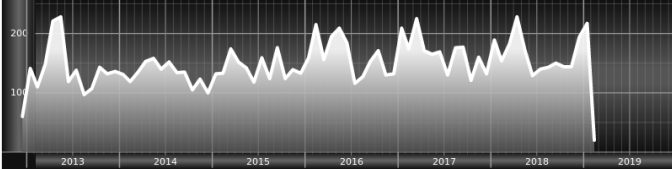
With the optional argument `capWidth=l` the caption can be terminated to the current line width. With the optional argument `capHPos=right` one can set the caption to the left, center, or right of the full width which is `linewidth` and `margin width`.

```

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

```

Fig. 28



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

## 11 Margin floats

With the optional argument `inMargin` the object and the caption can be placed into the margin. This is done internally with the command `\marginnote` from the package of the same name.

```

1 \hvFloat[inMargin]{figure}{\includegraphics[width=\marginparwidth]{images/thea}}
2   {An image in the margin of the document.}
3   {thea}
4
5   ...
6
7 \hvFloat[inMargin]{table}{\small\begin{tabular}{@{}ccc@{}}\hline Mon& Di& Mi\\ frei & Dienst &
8   frei\\
9   Dienst & Dienst & Frei\\\hline \end{tabular}}
10  {A tabular in the margin just like the image.}
11  {thea2}

```



**Figure 29:** An image in the margin of the document.

Mon	Di	Mi
frei	Dienst	frei
Dienst	Dienst	Frei

**Table 4:** A tabular in the margin just like the image.

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 is possible with a short tabular, dependent to the width of 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.

## 12 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 30) 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.

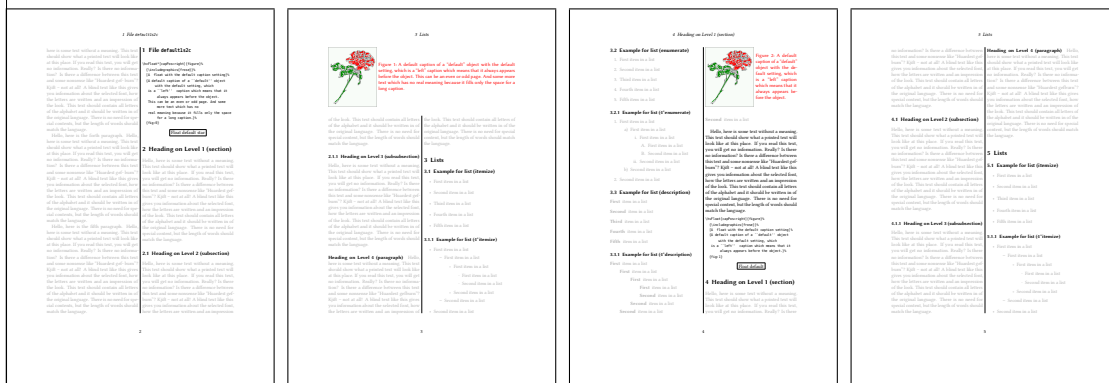


Figure 30: Output of default1s2c (pages 2 –5)

## 13 Full Page Width in Landscape Mode

If you do not want to load the package lscap (or pdf lscap) you can use the floatPos=p option to put the image on an own page and rotated by 90 degrees (figure 31).

Code for figure 31:

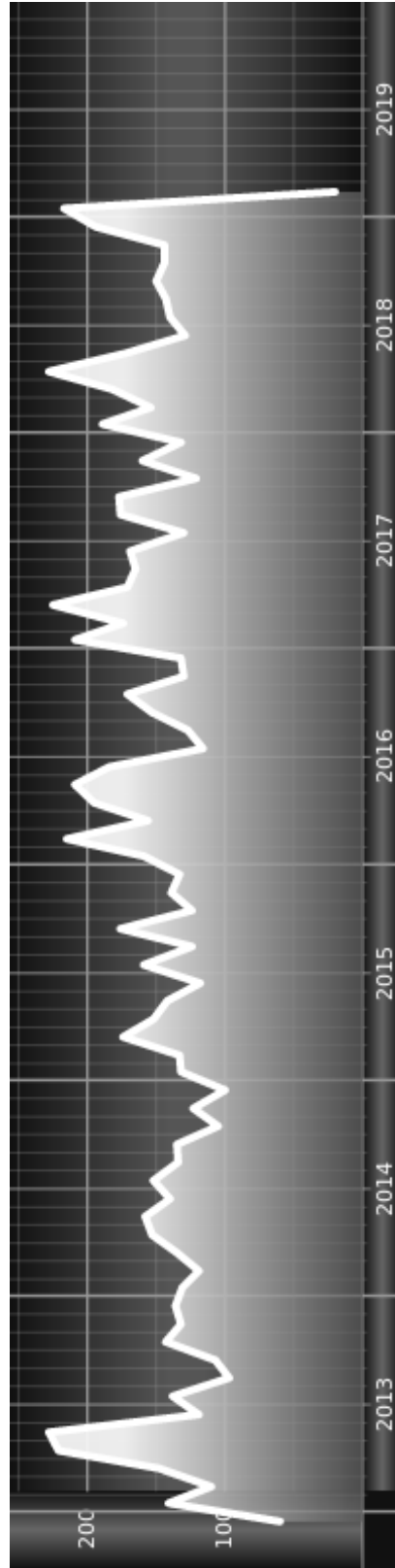
```

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

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

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

Fig. 31



**Figure 31: 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.



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 32:

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

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

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

## 14 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.

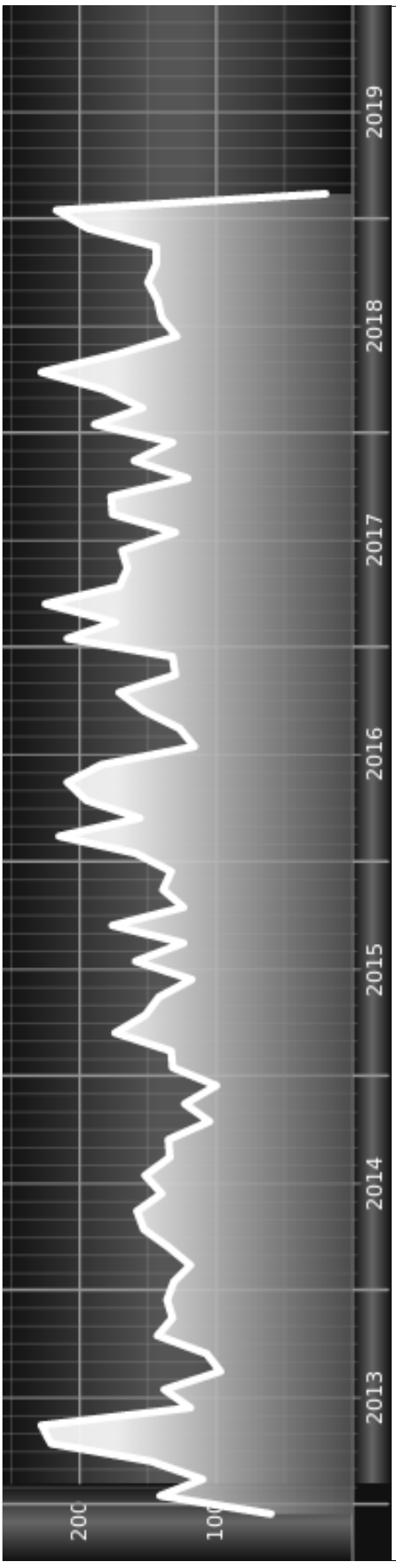
```
1 Some nonsense text before the following \emph{non floating} object.
2
3 \hvFloat[%
4   nonFloat,
5   capWidth=0.25,
6   capPos=right,
7   capVPos=bottom,
8   objectPos=center,
9   objectFrame,
10 ]{figure}{\includegraphics[scale=1.5]{images/rose}}%
11   [Nonfloat Captions]{%
12   Caption of a ``nonfloat''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

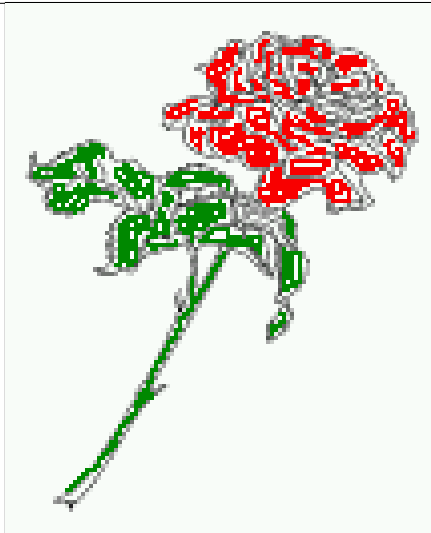
Some nonsense text before the following *non floating* object.

Fig. 32

Fig. 33

**Figure 32: 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 33:** Caption of a “nonfloat” Object, using the nonfloat Package

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

The image 33 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.

## 15 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 5 and 6:

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 5 and 6 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.

Tab. 5

**Table 5: Demonstration of the useOBox Parameter**

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

Tab. 6

## 16 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 16:

```

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

```

Fig. 16



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

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 6:** Demonstration of the use0Box Parameter

## 17 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 7:** 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 8:** A caption for a nice table

left	center	right
L	C	R

## 18 Full page objects in onecolumn mode

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

```

\define@key{Gin}{fullpage}[true]{%           \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 34 on the next page shows the meaning of the optional arguments fullpage, FullPage, and FULLPAGE for `\includegraphics [...]{tiger}`.

### 18.1 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 preceding 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:

#### 18.1.1 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

```

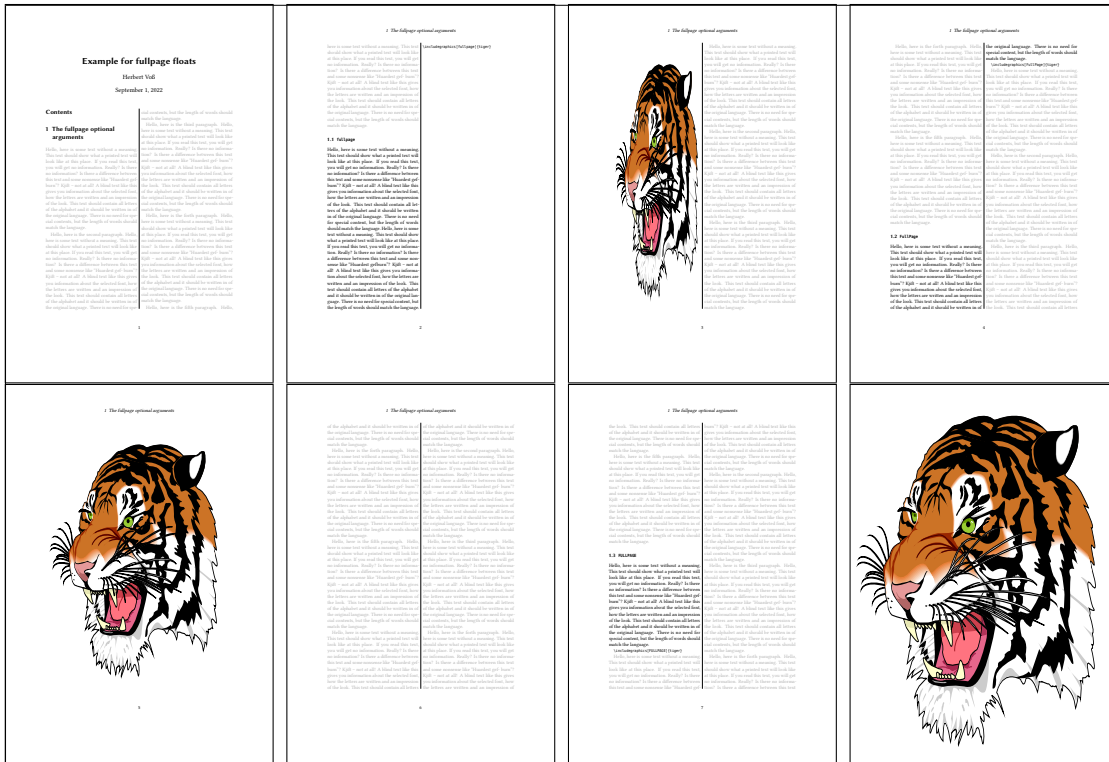


Figure 34: Output of fullpage1s2c (pages 1–8)

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 9: Valid optional arguments for a full page object.

Name	Type	Description
fullpage	true false	Put the caption on the bottom of the preceding or following page and the object alone a page.
FULLPAGE	true false	The same for full papersize objects over one or two columns. The pagestyle is set to empty
multiFloat	true false	For multiple objects with captions for every object. See section 18.3 on page 38.
subFloat	true false	For multiple objects with one main and more subcaptions. See section 19 on page 40.
separatorLine	true	Put a line with a predefined width of 0.4pt between the text and the caption. Only valid for the keyword fullpage.
capPos	value	caption before, after an object or on an evenPage or oddPage.

With this setting the caption is always placed *before* the following object. This maybe sufficient for a onside 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 onside mode. Figure 35 on the following page

shows the output for a onside 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 9 on the previous page shows the valid optional arguments for a full page floating object.

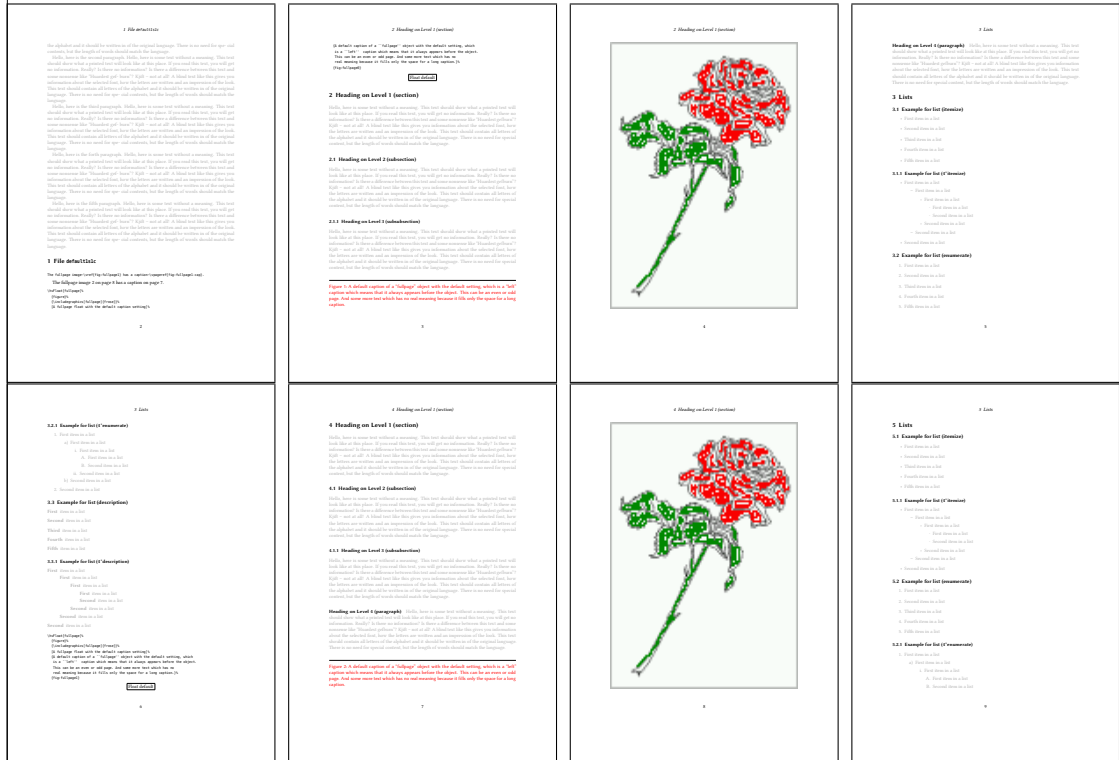


Figure 35: Output of default1s1c (pages 2–9)



### 18.1.2 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 \hvFloat[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}
    
```

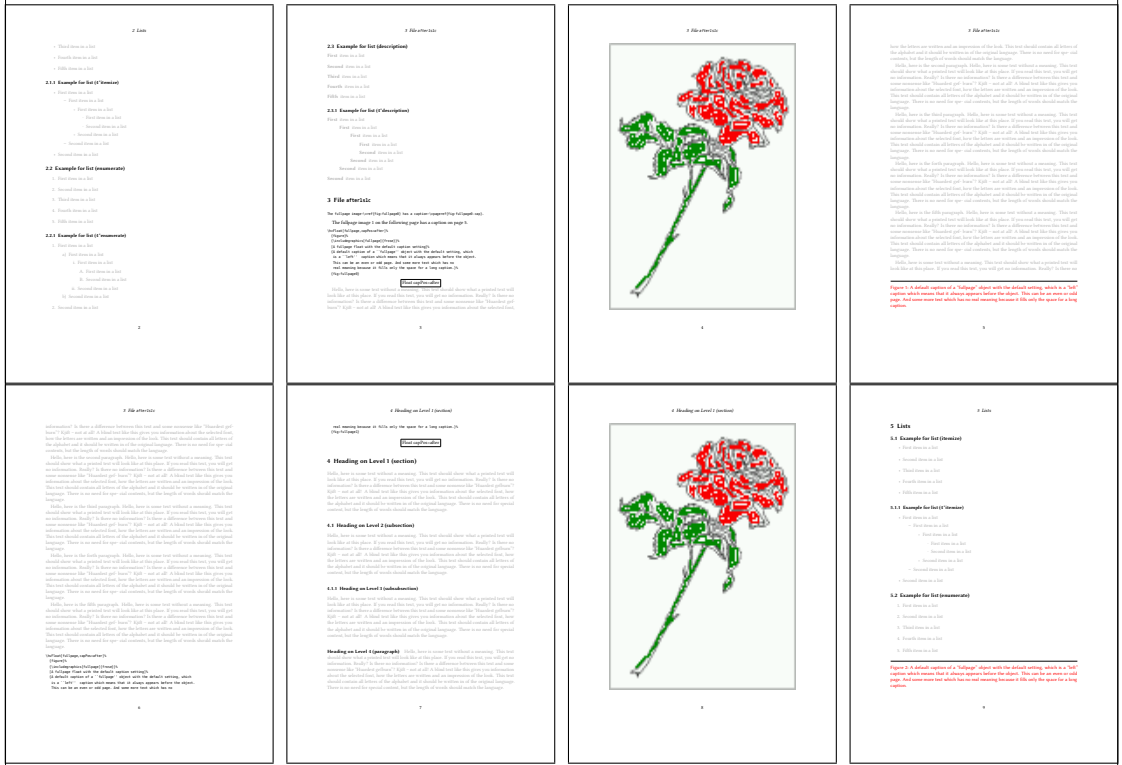


Figure 36: Output of after1s1c (pages 2–9)

### 18.1.3 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}
    
```

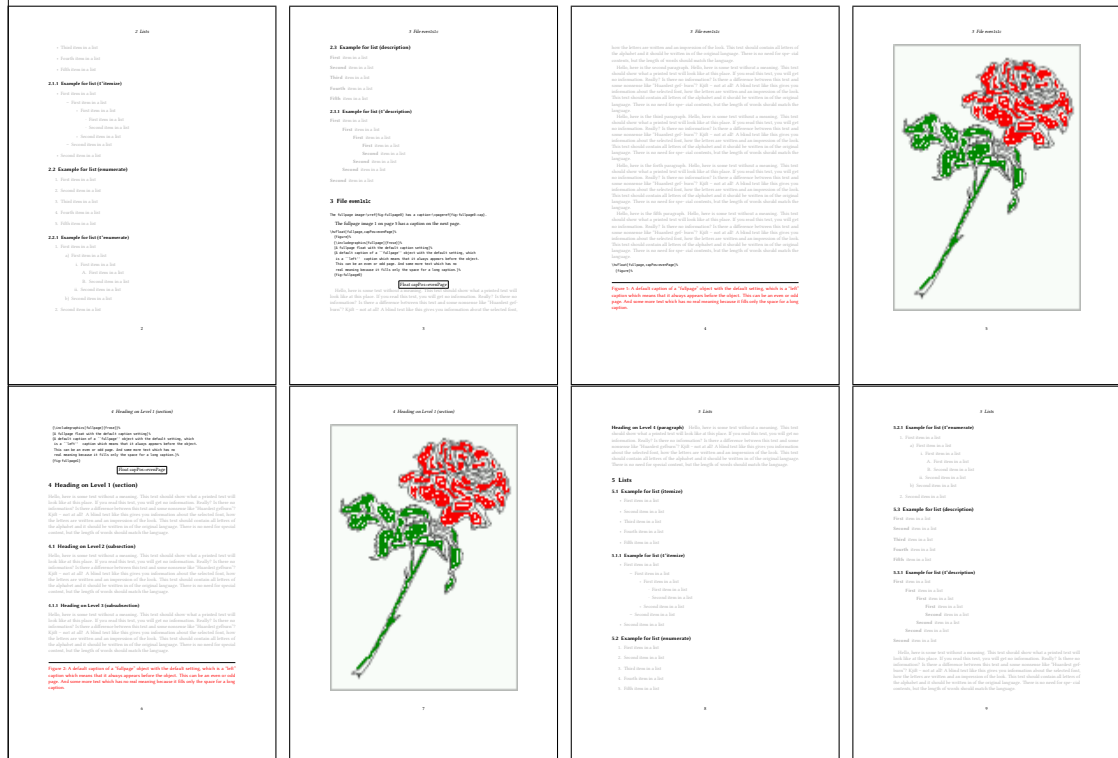


Figure 37: Output of even1s1c (pages 2–9)

### 18.1.4 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}
    
```

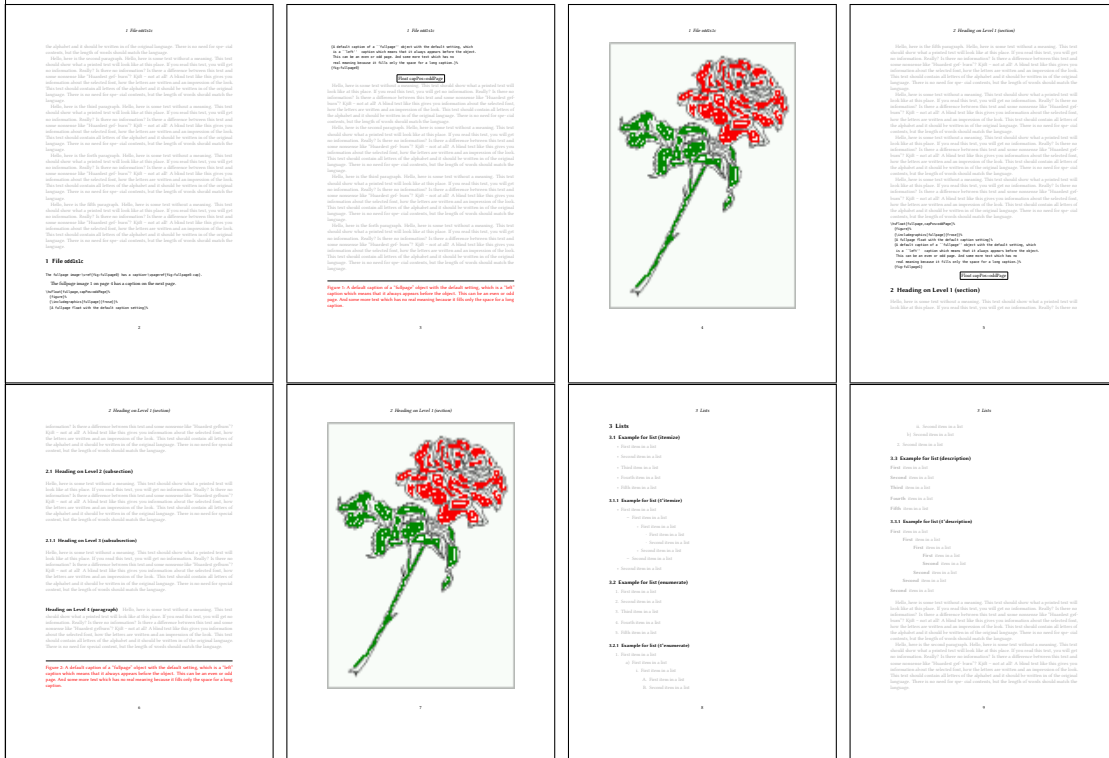


Figure 38: Output of odd1s1c (pages 2–9)

### 18.1.5 Using capPos=inner or capPos=outer — caption on the inner or outer side

These settings make no sense in onecolumn mode.

## 18.2 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}
    
```

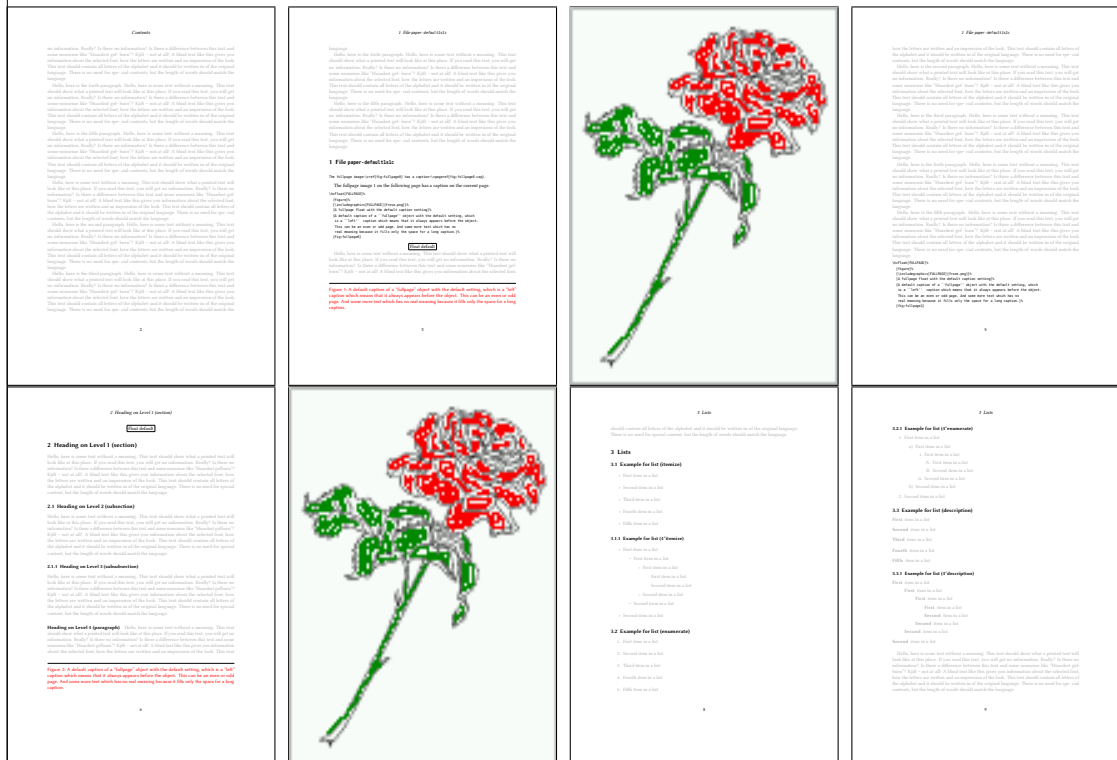


Figure 39: Output of paper-default1s1c (pages 2–9)




<p>1 File paper-after1s1c</p> <p>The following image is a "before" image of a flower with red petals and green leaves. The image is used to illustrate the output of the paper-after1s1c command.</p> 	<p>2 Heading on Level 1 (part 1)</p> <p>2 Heading on Level 1 (part 2)</p> <p>2.1 Heading on Level 2 (part 1)</p> <p>2.1.1 Heading on Level 3 (part 1)</p> <p>2.1.1.1 Heading on Level 4 (part 1)</p>		<p>2.1.1.1.1 Heading on Level 5 (part 1)</p> <p>2.1.1.1.1.1 Heading on Level 6 (part 1)</p> <p>2.1.1.1.1.1.1 Heading on Level 7 (part 1)</p>
	<p>3 Lists</p> <p>3.1 Example for list (description)</p> <p>3.1.1 Example for list (description)</p> <p>3.1.1.1 Example for list (description)</p> <p>3.1.1.1.1 Example for list (description)</p> <p>3.1.1.1.1.1 Example for list (description)</p> <p>3.1.1.1.1.1.1 Example for list (description)</p>	<p>3 Lists</p> <p>3.1 Example for list (description)</p> <p>3.1.1 Example for list (description)</p> <p>3.1.1.1 Example for list (description)</p> <p>3.1.1.1.1 Example for list (description)</p> <p>3.1.1.1.1.1 Example for list (description)</p> <p>3.1.1.1.1.1.1 Example for list (description)</p>	<p>3 Lists</p> <p>3.1 Example for list (description)</p> <p>3.1.1 Example for list (description)</p> <p>3.1.1.1 Example for list (description)</p> <p>3.1.1.1.1 Example for list (description)</p> <p>3.1.1.1.1.1 Example for list (description)</p> <p>3.1.1.1.1.1.1 Example for list (description)</p>

Figure 40: Output of paper-after1s1c (pages 2–9)

### 18.3 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 19 on page 40](#). The setting `\captionsetup{singlelinecheck=false}` is needed if you want the captions always left aligned.

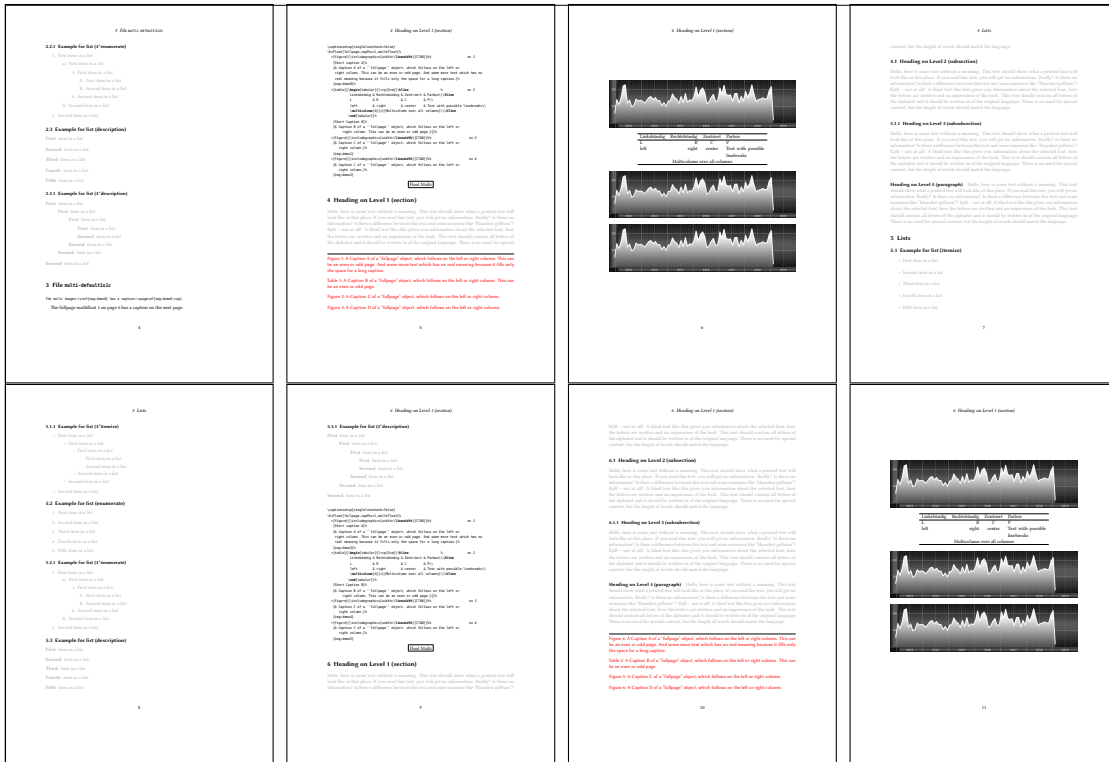


Figure 41: Output of multi-default1s1c (pages 4–11)

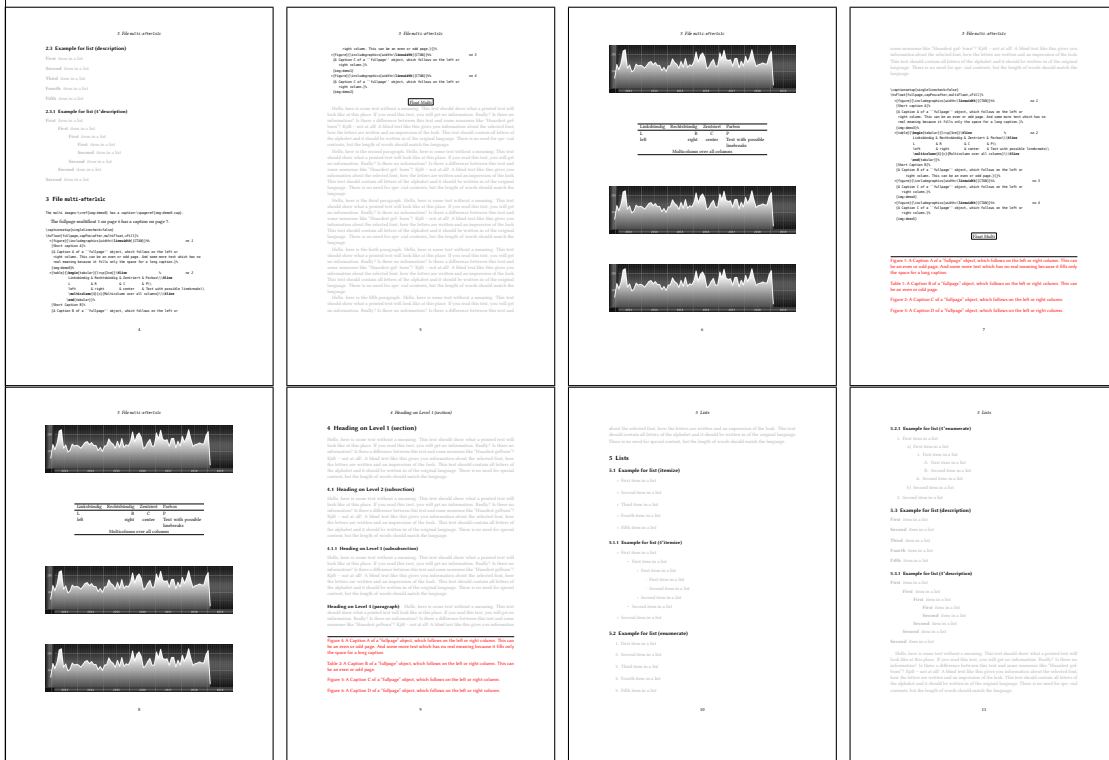


Figure 42: Output of multi-after1s1c (pages 4–11)

## 19 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]`.



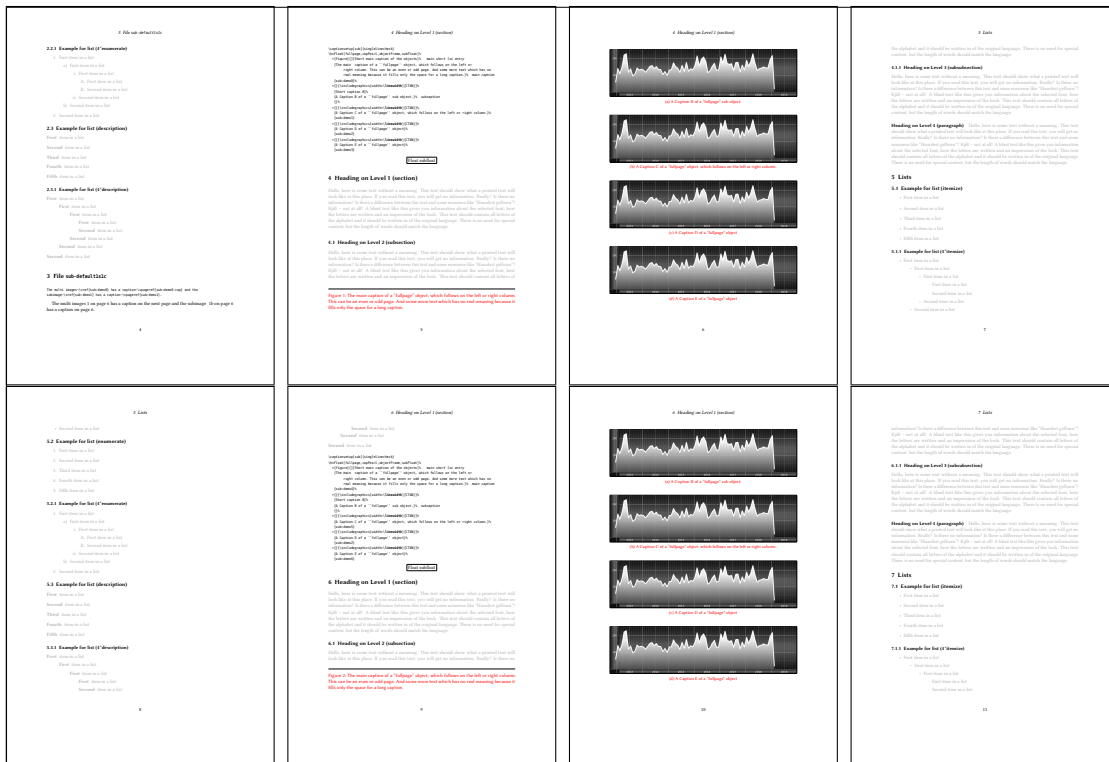


Figure 43: Output of sub-default1s1c (pages 4–11)

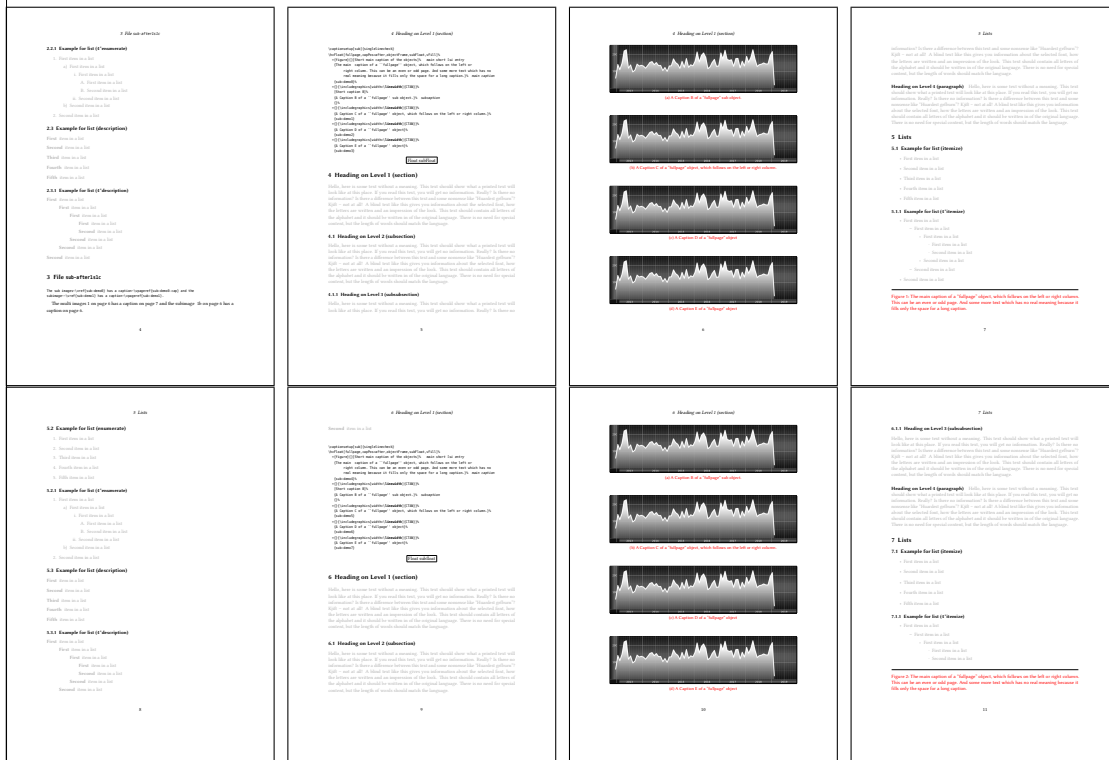


Figure 44: Output of sub-after1s1c (pages 4–11)

## 20 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 9 on page 31 shows the valid optional arguments for a full page floating object.

### 20.1 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 45).

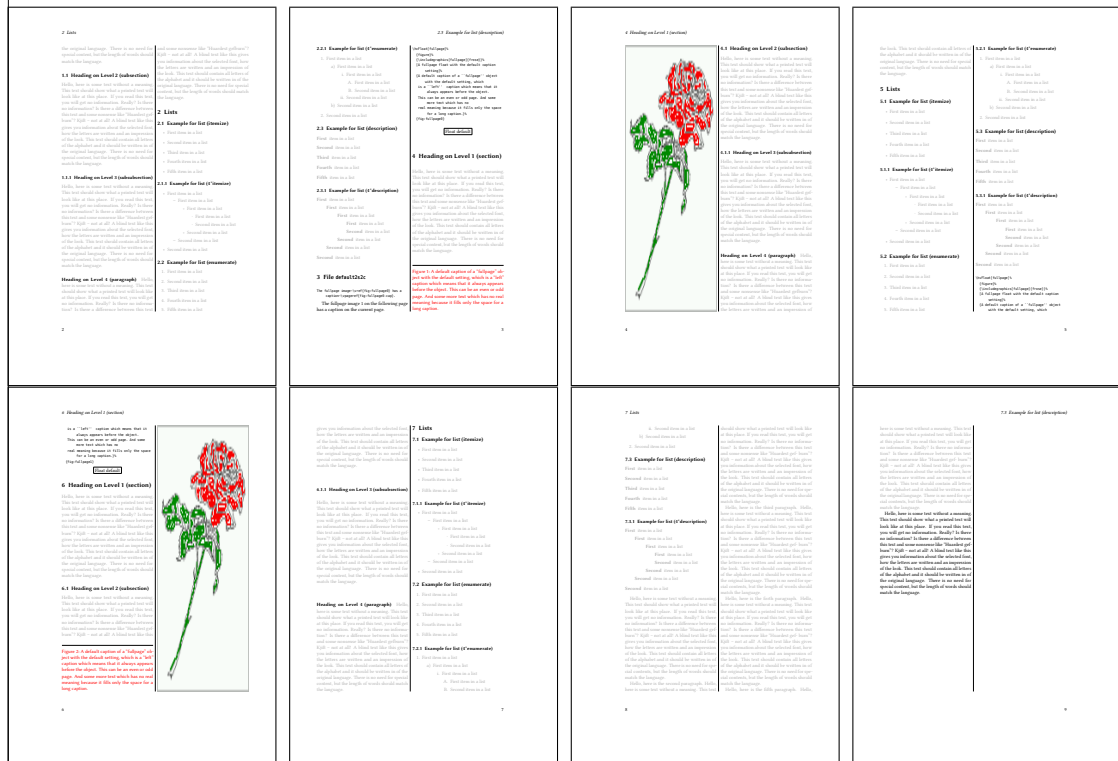


Figure 45: Output of default2s2c (pages 2–9)

```

1 \hvFloat[fullpage]{figure}%
2 {\includegraphics[width=\columnwidth,height=0.9\textheight]{images/rose}}%
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 45 shows that the caption and the object can be on different pages. If you do not like this behaviour, then use the setting capPos=left, which puts the caption before the

object, but always on the *same page* (see Figure 46).

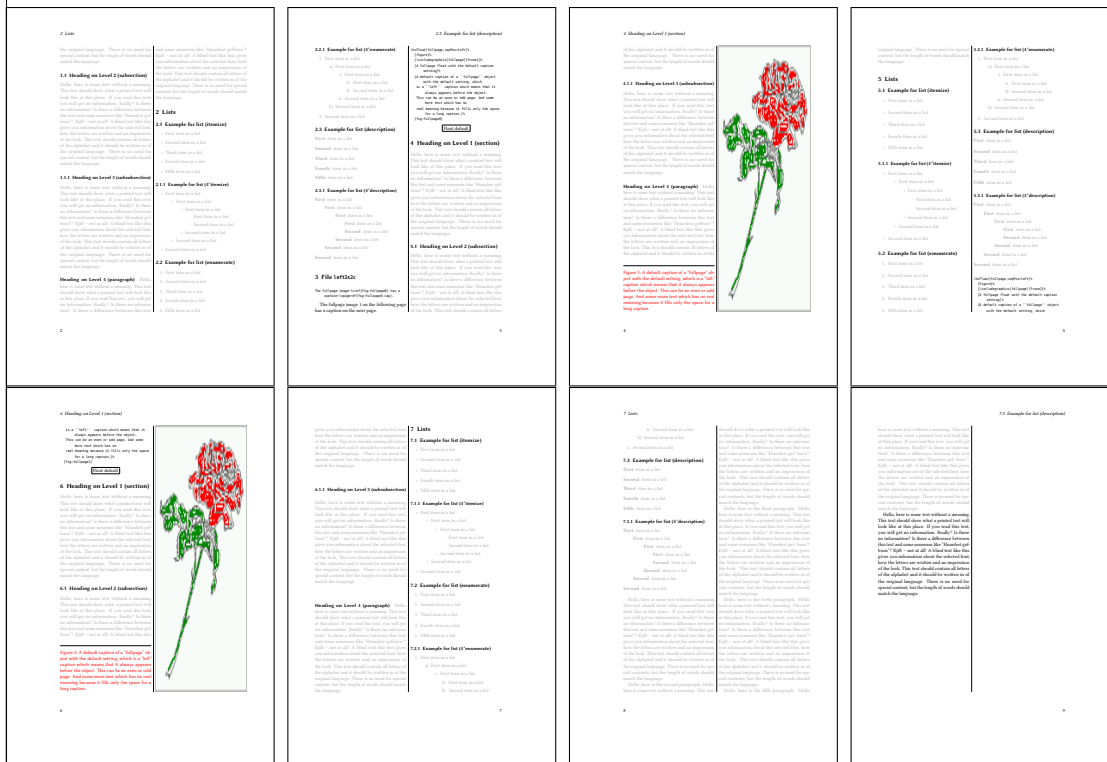


Figure 46: Output of left2s2c (pages 2-9)

### 20.1.1 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 48 on the next page)

```

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

The caption and the object can be on different pages (Figure 47 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.

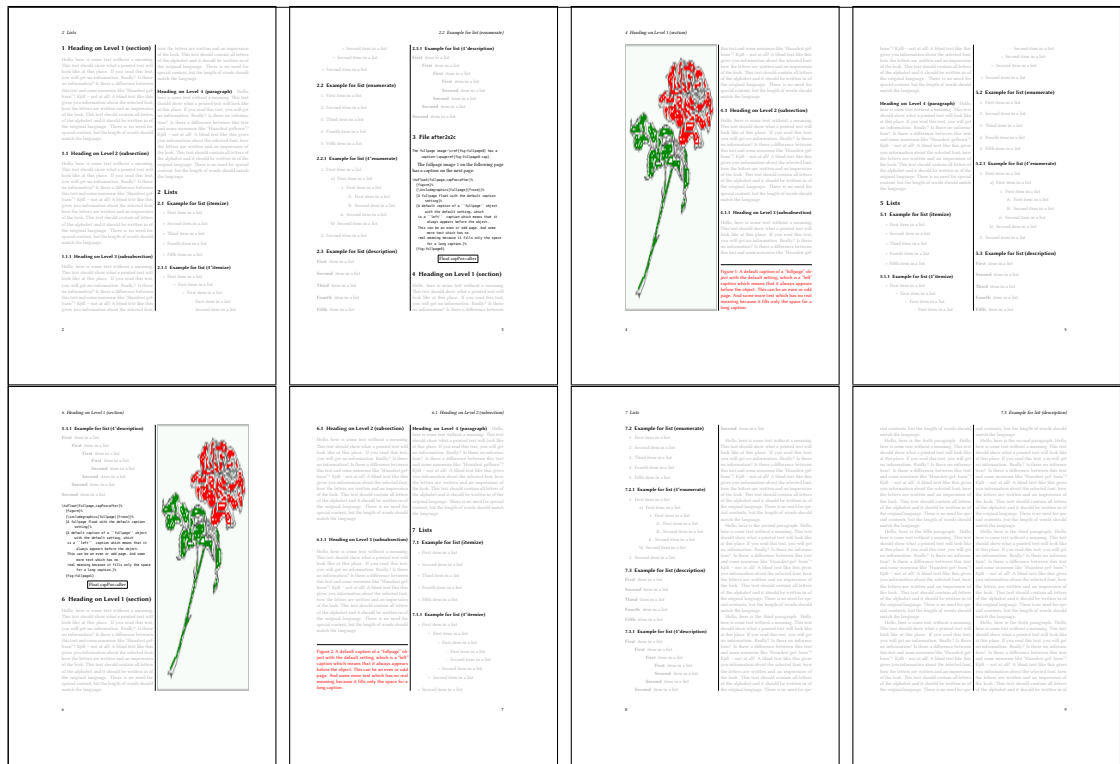


Figure 47: Output of after2s2c (pages 2–9)

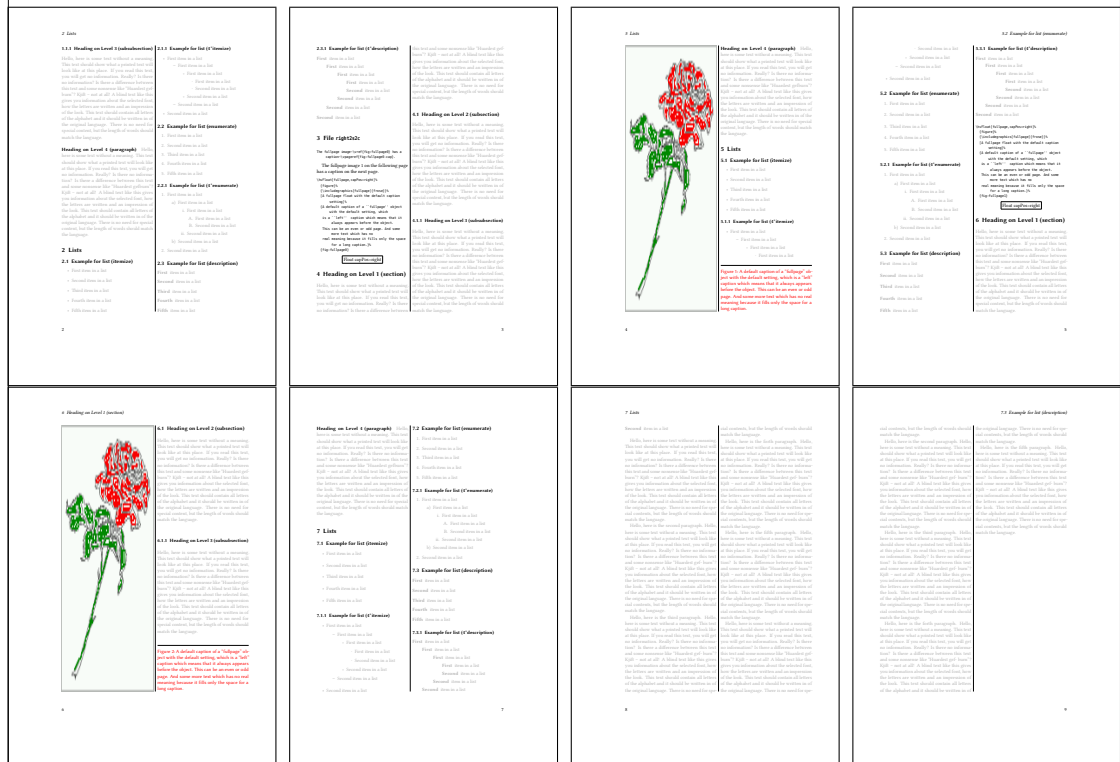


Figure 48: Output of right2s2c (pages 2–9)

### 20.1.2 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 49: Output of even2s2c (pages 2–9)

### 20.1.3 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.

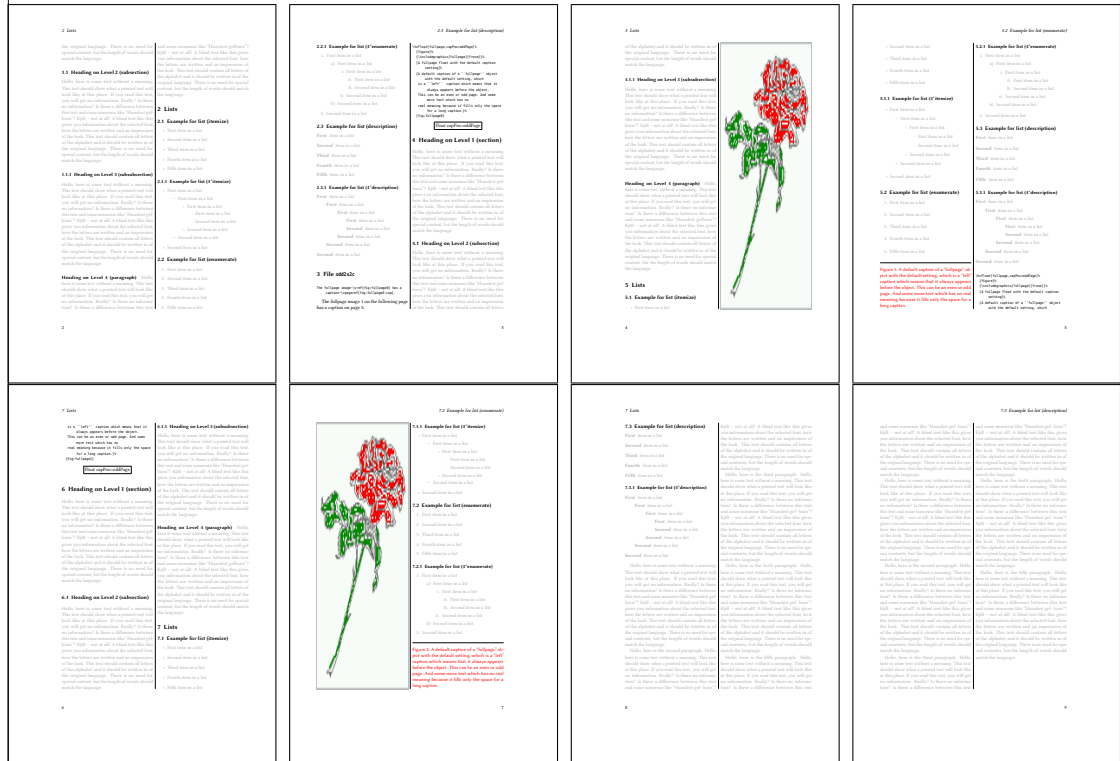


Figure 50: Output of odd2s2c (pages 2–9)

### 20.1.4 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 \hvFloat[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}
    
```

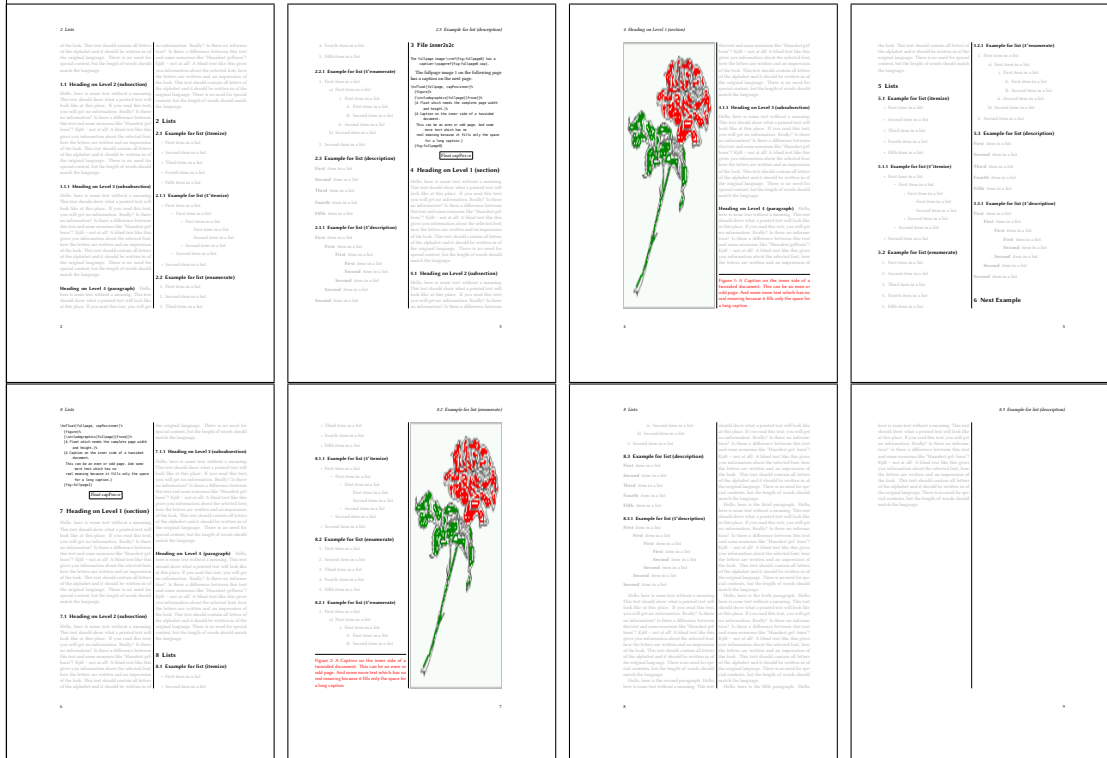


Figure 51: Output of inner2s2c (pages 2–9)

### 20.1.5 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}
    
```

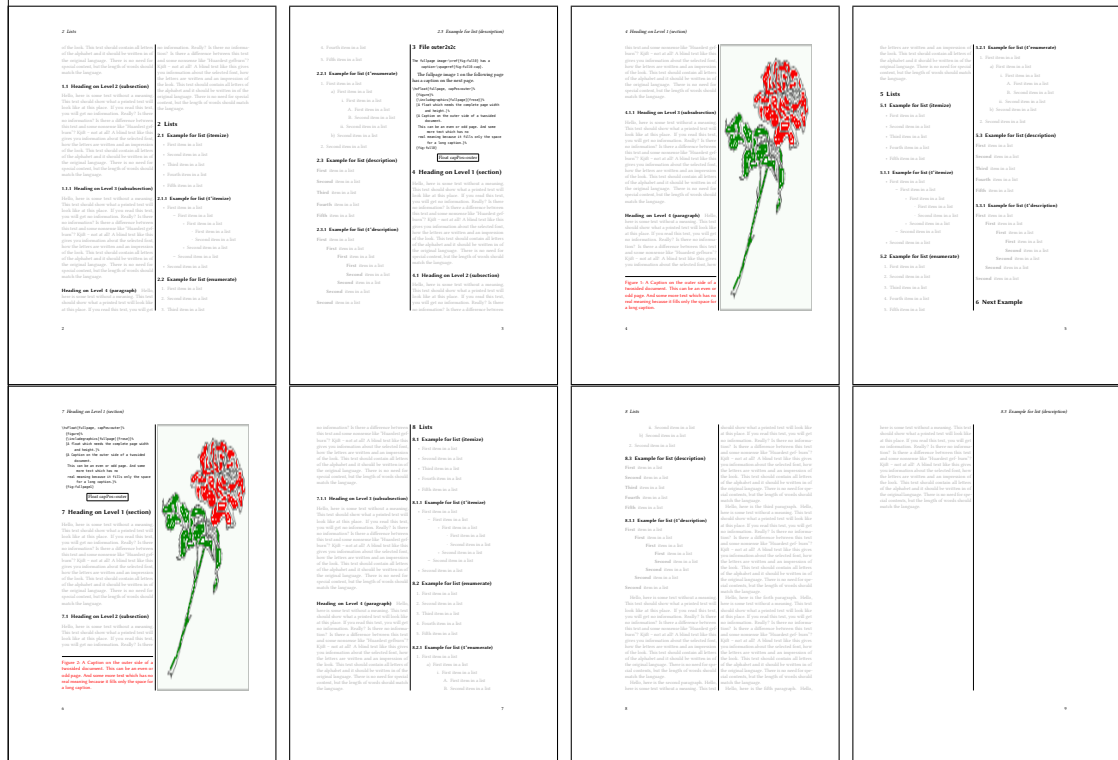


Figure 52: Output of outer2s2c (pages 2–9)



## 20.2 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}

```

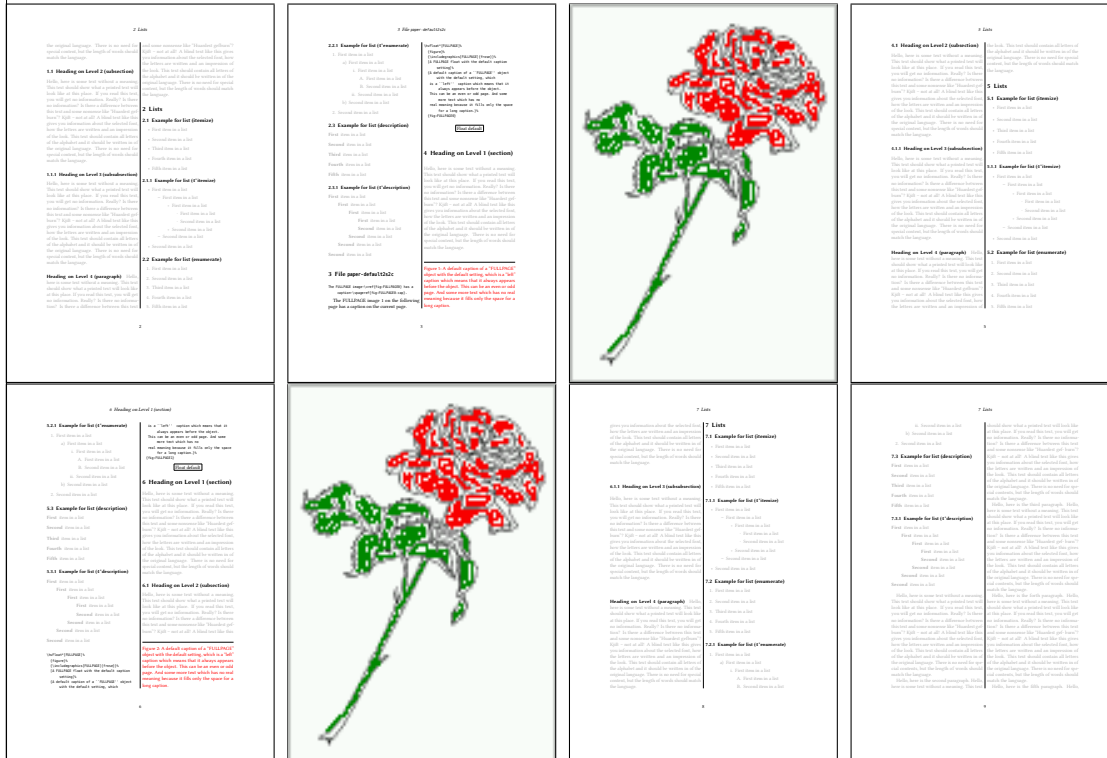


Figure 53: Output of paper-default2s2c (pages 2–9)

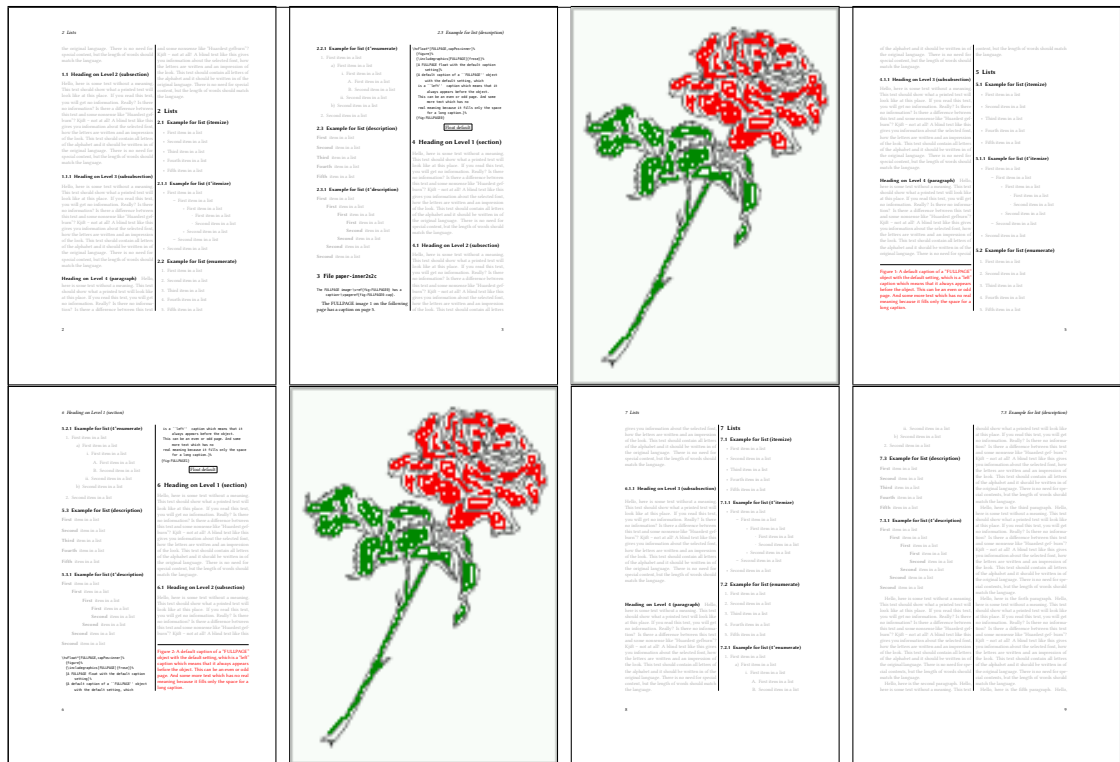


Figure 54: Output of paper-inner2s2c (pages 2–9)

### 20.3 Multifloats

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

```

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

The page with the objects has no additional informations it holds only the figures and/or tabulars. If you want it like subfigures or subtabulars then go to section 19 on page 40. The setting `\captionsetup{singlelinecheck=false}` is needed if you want the captions always left aligned.

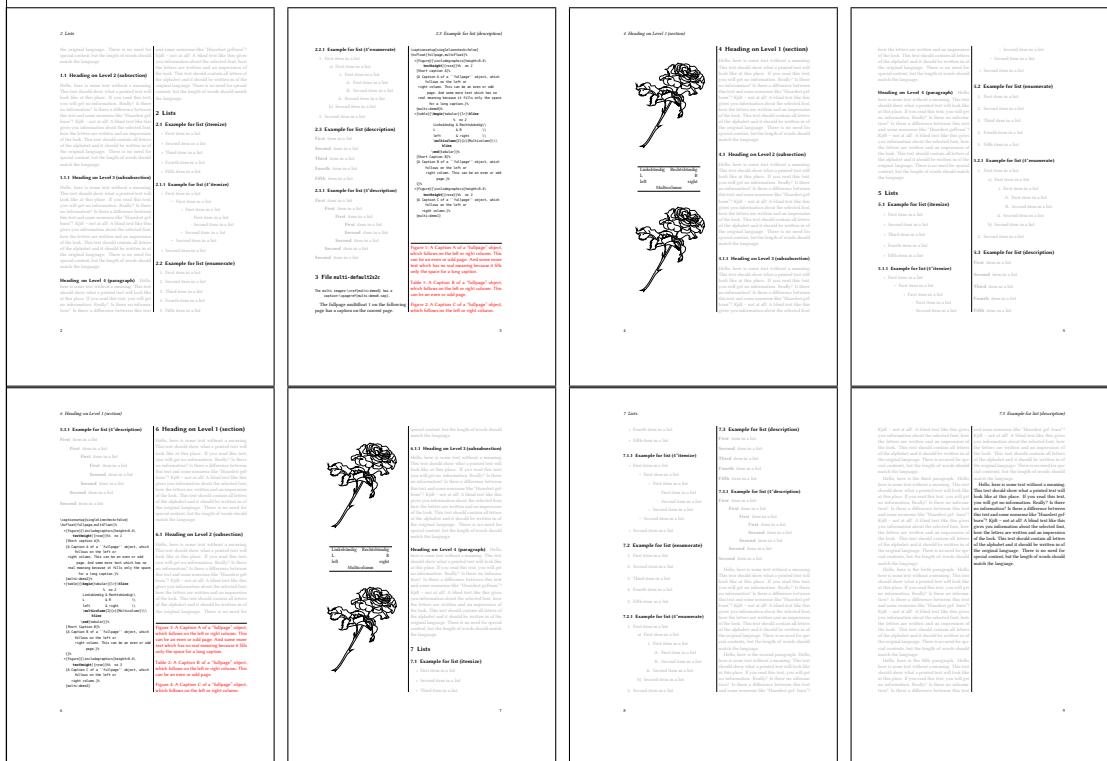


Figure 55: Output of multi-default2s2c (pages 2-9)

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

```

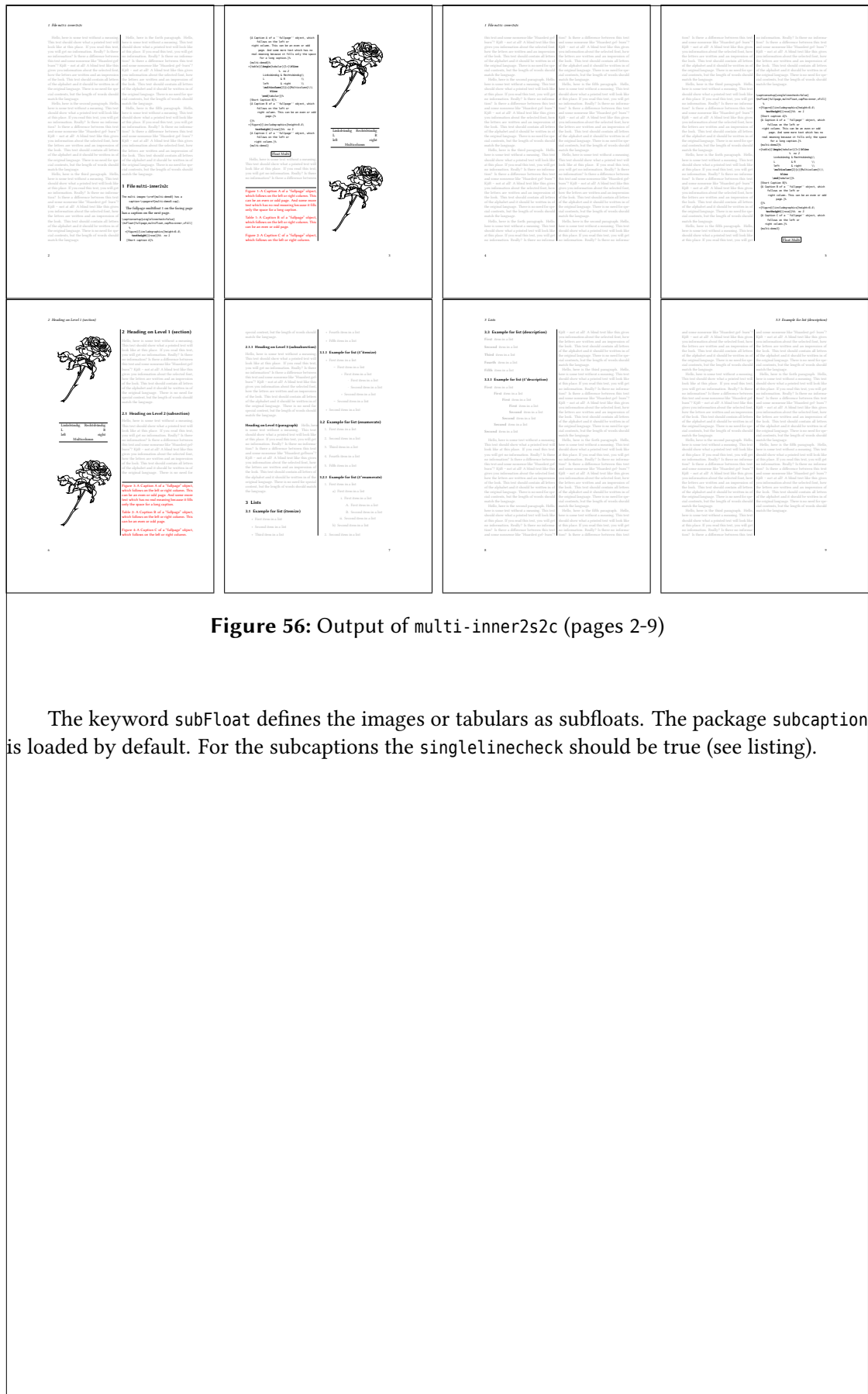


Figure 56: Output of multi-inner2s2c (pages 2-9)

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).

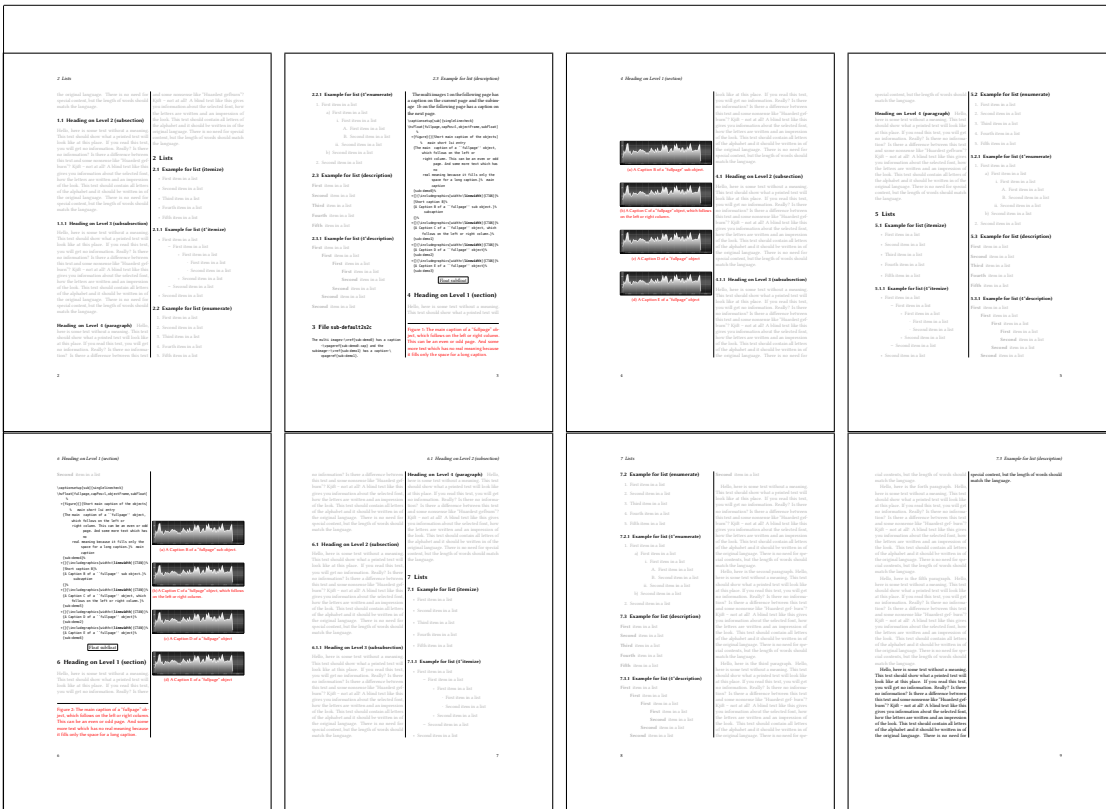


Figure 57: Output of sub-default2s2c (pages 2–9)

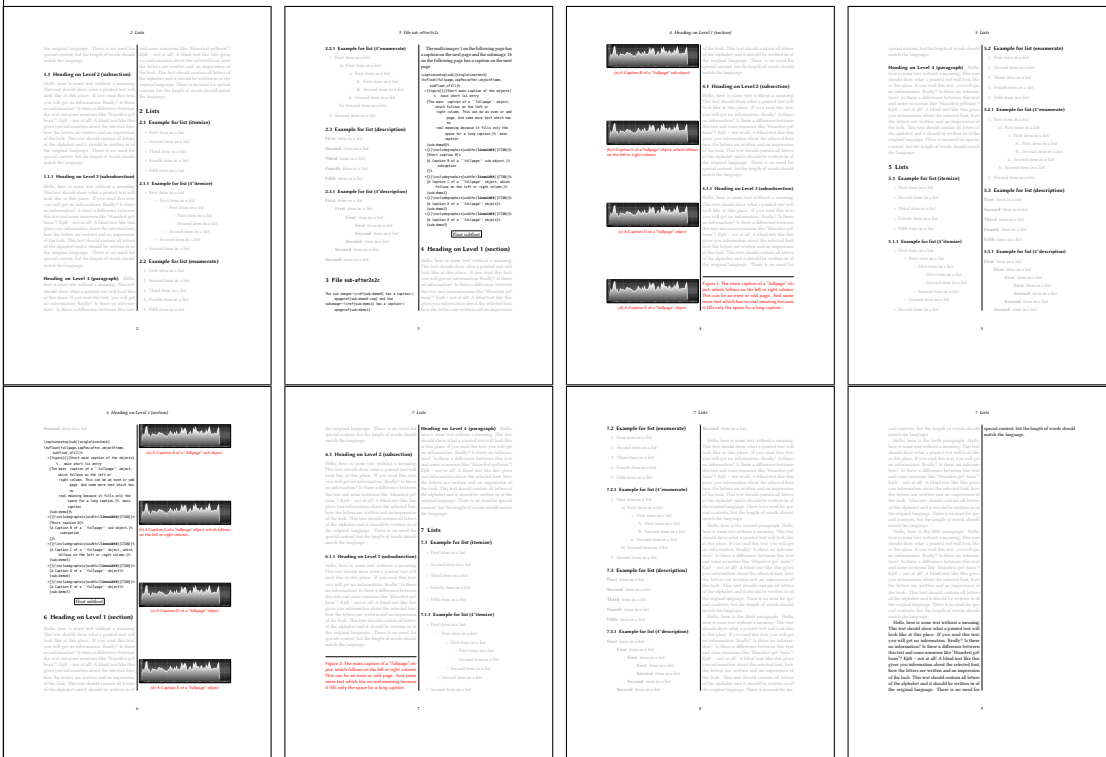


Figure 58: Output of sub-after2s2c (pages 2–9)

## 22 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  $2\text{\paperwidth}-4\text{\margin}$ . 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  $2\text{\paperwidth}$ . The caption can only be under the right part of the object. The will be *no additional text* on the double page.

**doubleFULLPAGE** A splitted object with or without a caption on the right or below of a double page. The object can fill the complete double page. The user has to scale the image to be sure that the object will not be greater than  $2\text{\paperwidth}$ . 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.

### 22.1 doubleFULLPAGE

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

```

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

```

Fig. 59

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

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

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

```

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

```

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

Fig. 60





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

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

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

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```

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}

```

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

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Fig. 61







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

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

In the follwoing example 62 the caption is on page 70, the left image part on page 68 and the right part on page 69. In the follwoing example 63 the caption is on page 73, the left image part on page 74 and the right part on page 75. All three labels points to the same figure or table number:

```
\ref{foo} | \ref{foo-cap} | \ref{foo-2} → 62 | 62 | 62
\pageref{foo} | \pageref{foo-cap} | \pageref{foo-2} → 68 | 70 | 69
```

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

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

Fig. 62





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**Figure 62:** 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}

```

Fig. 63

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**Figure 63:** 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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## 22.2 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.

```

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}

```

Fig. 64

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.

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





**Figure 64:** 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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### 22.3 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.

```

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}

```

Fig. 65

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

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

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

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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
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7 the paper. A short form is used for the LOF.
8 The parameter is \texttt{doublePage}}%
9 {fig:doublePage@sH2}

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**Figure 67:** 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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## 22.4 Tabulars

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

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

```

1 \global\savebox\hv0Box{%
2 \begin{tabular}{l*{18}r} \toprule
3 & \textbf{1972} & \textbf{1973} & \textbf{1974} & \textbf{1975} & \textbf{1976}
4 & \textbf{1977} & \textbf{1978} & \textbf{1979} & \textbf{1980} & \textbf{1981} & \textbf{1982} & \
& \textbf{1983} & \textbf{1984} & \textbf{1985}
5 & \textbf{1986} & \textbf{1987} & \textbf{1988} & \textbf{1989}
6 \\ \midrule
7 \addlinespace[3pt]
8 Zeile 1 & 1 & 1 & 3 & 1 & 1 & 1 & 0 & 1 & 1 & 0 & 0 & 0 & 0 & 20 & 0 & 2 & 2 & 2 & 1 \\ \addlinespace[3pt]
9 Zeile 2 & 1 & 1 & 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 & 1 & 5 & 3 & 1 & 7 & 7 & 3 \\ \addlinespace[3pt]
11 Zeile 4 & 1 & 0 & 5 & 1 & 2 & 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 & 1 & 2 & 0 & 5 & 2 & 2 & 5 & 4 & 2 \\ \addlinespace[3pt]
13 Zeile 5 & 0 & 0 & 4 & 2 & 1 & 2 & 2 & 1 & 0 & 0 & 0 & 1 & 1 & 0 & 2 & 5 & 4 & 3 \\ \addlinespace[3pt]
14 Zeile 8 & 0 & 1 & 1 & 0 & 0 & 0 & 1 & 1 & 1 & 0 & 3 & 2 & 1 & 2 & 1 & 3 & 5 & 3 & 4 \\ \addlinespace[3pt]
15 Zeile 9 & 0 & 0 & 0 & 0 & 0 & 1 & 2 & 1 & 0 & 0 & 0 & 0 & 4 & 2 & 1 & 4 & 5 & 2 \\ \addlinespace[3pt]
16 Zeile10 & 0 & 1 & 3 & 0 & 1 & 0 & 1 & 0 & 0 & 1 & 1 & 0 & 1 & 1 & 1 & 4 & 4 & 1 \\ \addlinespace[3pt]
17 Zeile11 & 0 & 2 & 2 & 1 & 1 & 0 & 1 & 0 & 0 & 0 & 0 & 2 & 6 & 1 & 0 & 2 & 1 & 1 \\ \addlinespace[3pt]
18 Zeile12 & 2 & 0 & 2 & 4 & 1 & 0 & 4 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 3 \\ \addlinespace[3pt]
19 Lärm & 2 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 2 & 0 & 0 & 2 & 2 & 2 \\ \addlinespace[3pt]
20 Zeile13 & 0 & 1 & 0 & 0 & 1 & 0 & 3 & 0 & 0 & 0 & 0 & 2 & 0 & 1 & 3 & 0 & 2 \\ \addlinespace[3pt]
21 Zeile14 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 3 & 2 & 1 & 1 & 0 \\ \addlinespace[3pt]
22 Zeile15 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 4 & 0 & 0 & 3 & 1 & 1 \\ \addlinespace[3pt]
23 Zeile16 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 5 & 0 & 1 \\ \addlinespace[3pt] \
midrule
24 Artikel gesamt & 2 & 6 & 13 & 8 & 4 & 3 & 5 & 4 & 0 & 6 & 3 & 5 & 23 & 10 & 8 & 15 & 13 & 1 \\ \
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. 10

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

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

**Table 10:** A caption for a double-sided tabular that will be placed on the right side of the right-hand part of the illustration. The illustration begins on the left edge of the paper. A short form is used for the LOF. The parameter is doublePage

words should match the language.

## 23 References to the page

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

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

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

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

The caption of figure 69 is on page 97, but the image itself is on page 98. With package `varioref` it is:

With the package `\pack{varioref}` ([\url{https://ctan.org/pkg/varioref}](https://ctan.org/pkg/varioref)) one can get something like: see figure-`\vref{demo:fullpage}`, which uses a correct page number of the 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 **69 on page 98**, which uses a correct page number of the floating object and not the caption page number which is on the next page. The figure **69** is on page **98** and the caption on page **97**

## 24 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 68:** Caption at bottom right beside the float with a caption width of `0.5\columnwidth`.

## 25 Global float setting

Instead of writing the following sequence into the preamble:

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

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

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



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

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**Figure 69:** 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



---

---

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

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## 26 The Package Source

```
1 %% $Id: hvfloat.sty 653 2022-11-20 21:54:52Z herbert $
2 %%
3 %%
4 %% IMPORTANT NOTICE:
5 %%
6 %% This is file `hvfloat.sty',
7 %%
8 %% Herbert Voss <hvoss@tug.org>
9 %% Copyright (C) 2003-22
10 %%
11 %% This program can be redistributed and/or modified under the terms
12 %% of the LaTeX Project Public License Distributed from CTAN archives
13 %% in directory macros/latex/base/lppl.txt.
14 %%
15 %% DESCRIPTION:
16 %% `hvfloat' offers rotating of captions and objects for floats
17 %%
18 \NeedsTeXFormat{LaTeX2e}
19 \def\fileversion{2.44}
20 \def\filedate{2022/11/21}
21 \ProvidesPackage{hvfloat}[\filedate\space \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\fbboxsep{1pt}}
30 \DeclareOption{hyperref}{\hv@hyperreftrue}
31 \DeclareOption{nostfloats}{\hv@nostfloatstrue}
32 \DeclareOption{no-stfloats}{\hv@nostfloatstrue}
33
34 \ProcessOptions
35
36
37 \PassOptionsToPackage{hycap}{caption}
38 \RequirePackage{caption}
39 \RequirePackage{varwidth}
40 \DeclareCaptionBox{varwidth}{\varwidth[b]{#1}#2\endvarwidth}
41
42 \PassOptionsToPackage{hycap}{subcaption}
43 \RequirePackage{subcaption}
44 \RequirePackage{atbegshi}
45 \RequirePackage{picture,trimclip}
46 \RequirePackage{etoolbox,marginnote}% for "floats" in the margin
47
48 \RequirePackage{expl3,multido}
49 \RequirePackage{graphicx}
50 \RequirePackage{varwidth}
51
52 \RequirePackage{xkeyval}
53 \RequirePackage{ifoddpages}
54 \RequirePackage{afterpage}
55
56 \ifhv@hyperref
57   \RequirePackage{hyperref}
58 \fi
59
60 \ifhv@nostfloats
61 \else
62   \RequirePackage{stfloats}% for bottom floats in a twocolumn mode
63   % \RequirePackage{floatpag}% for bottom floats in a twocolumn mode
64 \fi
```

```

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

```



```

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

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

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

```

```

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

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```

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

```

```

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

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

```

```

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

```



```

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

```

```

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

```

```

791 \hv@@capPos=0
792 \else
793 \ifx\hvSet@capPos\hv@Top
794 \hv@@capPos=1
795 \else
796 \ifx\hvSet@capPos\hv@Right
797 \hv@@capPos=2
798 \else
799 \ifx\hvSet@capPos\hv@Bottom
800 \hv@@capPos=3
801 \else
802 \ifx\hvSet@capPos\hv@Inner
803 \ifoddpagoroneside\hv@@capPos=0\else\hv@@capPos=2\fi
804 \else
805 \ifx\hvSet@capPos\hv@Outer
806 \ifoddpag\hv@@capPos=2\else\hv@@capPos=0\fi
807 % \ifoddpagoroneside\hv@@capPos=2\else\hv@@capPos=0\fi
808 % even page (left=0) | odd page (oneside) (right=2)
809 \else
810 \ifx\hvSet@capPos\hv@Before
811 \hv@@capPos=0% same as cappos=left
812 \else
813 \ifx\hvSet@capPos\hv@After
814 \hv@@capPos=2% same as cappos=right
815 \fi
816 \fi
817 \fi
818 \fi
819 \fi
820 \fi
821 \fi
822 \fi
823 %%%
824 %\typeout{>>>>>>>Pos: \the\hv@@capPos}%
825 \savebox{\@tempboxa}{% ***** @tempbox start
826 \expandafter%
827 \ifcase\the\hv@@capPos % 0 is LEFT START \ifcase
828 \ifx\hvSet@capVPos\hv@Center
829 \put@CaptionBox
830 \hspace{\hv@floatCapSep}% capfloatsep
831 \put@ObjectBox
832 \else
833 \ifx\hvSet@capVPos\hv@Top% caption and object at top aligned
834 \put@CaptionBox[1]%
835 \hspace{\hv@floatCapSep}% capfloatsep
836 \put@ObjectBox[1]%
837 \else% caption on bottom
838 \put@CaptionBox[2]%
839 \hspace{\hv@floatCapSep}% capfloatsep
840 \put@ObjectBox[2]%
841 \fi
842 \fi% end caption left
843 \or%l is top
844 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
845 \begin{minipage}{\wd\hvCaptionBox}%
846 \else
847 \begin{minipage}{\wd\hvObjectBox}%
848 \fi
849 \ifx\hvSet@capHPos\hv@Left% horizontal justification
850 \raggedright
851 \else
852 \ifx\hvSet@capHPos\hv@Center
853 \centering
854 \else
855 \raggedleft
856 \fi
857 \fi

```

```

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

```

```

924     \fi
925     \fi
926     \else% evenpage
927     \if@firstcolumn
928     \noindent
929     \hspace*{\dimexpr-\marginparwidth-\marginparsep}% <- for wide and left page
930     \fi
931     \fi
932     \fi
933 \fi
934 \ifx\hvSet@rotAngle\hv@Zero
935     \usebox{\@tempboxa}%
936 \else
937     \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}%
938 \fi
939 \ifhv@nonFloat
940     \ifx\hvSet@objectPos\hv@Center
941 %     \ifhv@nonFloat
942     \hspace{\fill}%
943 %     \fi
944     \fi
945     \endgroup% End the nonfloat part
946 \else
947     \ifhv@star
948     \@nameuse{end\hv@floatType*}% End the floating environment
949     \else
950     \end{\hv@floatType}% End the floating environment
951     \fi
952     \fi
953 \endgroup% startet at main \hvFloat
954 }
955
956
957 \def\do@@@hvFloatInMargin{% no special float page, caption and image on top of each other or side by side
958 \def\@tempa{90}%
959 \ifx\hvSet@rotAngle\@tempa \setlength\hvMaxCapWidth{\texttheight}\else\setlength\hvMaxCapWidth{\marginparwidth}\fi
960 %
961 % First we save the object in \hvObjectBox
962 %
963 \ifnum\hvSet@objectAngle=0 % rotate the object?
964     \ifhv@useOBox\let\hvObjectBox\hvOBox\else\savebox\hvObjectBox{\hv@floatObject}\fi
965 \else
966     \savebox\hvObjectBox{\rotatebox{\hvSet@objectAngle}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}%
967 \fi
968 \setlength\hvObjectWidth{\wd\hvObjectBox}%
969 %
970 % Now we save the caption with its defined \hvCapWidth
971 %
972 \renewcommand*{\raggedleftmarginnote}{}%
973 \renewcommand*{\raggedrightmarginnote}{}%
974 \marginnote{%
975 \ifx\hvSet@capWidth\hv@Width \setlength\hvCapWidth{\hvObjectWidth}%
976 \else
977     \ifx\hvSet@capWidth\hv@Height \setlength\hvCapWidth{\ht\hvObjectBox}%
978     \else
979     \ifx\hvSet@capWidth\hv@LineWidth \setlength\hvCapWidth{\marginparwidth}%
980     \else
981     \ifx\hvSet@capWidth\hv@Natural% captionwidth=\linewidth-\objectwidth-separation
982     \ifhv@capbeside
983     \hvCapWidth=\the\dimexpr\marginparwidth-\hvObjectWidth-\hv@floatCapSep\relax
984     \else
985     \setlength\hvCapWidth{\marginparwidth}%
986     \fi
987     \else
988     \ifhv@capbeside

```

```

989     \setlength\hvCapWidth{\hvSet@capWidth\marginparwidth}%
990     \@tempdima=\the\dimexpr\marginparwidth-\hvObjectWidth-\hv@floatCapSep\relax
991     \ifdim\hvCapWidth>\@tempdima \hvCapWidth=\@tempdima \fi
992     \else
993       \setlength\hvCapWidth{\hvSet@capWidth\marginwidth}%
994     \fi
995   \fi
996 \fi
997 \fi
998 \fi
999 \saveCaptionSkip% we put this space ourselve
1000 \ifnum\hvSet@capAngle=0 % need rotation?
1001   \savebox\hvCaptionBox{% NO rotation
1002     \minipage[b]{\hvCapWidth}%% minipage, to get hyphenation
1003   \ifx\hv@floatType\hv@figure
1004     \ifx\relax\hv@shortCap\relax
1005       \figcaption{\hv@longCap\ifx\hv@label\@empty\else\label{\hv@label}\fi}%
1006     \else
1007       \figcaption[\hv@shortCap]{\hv@longCap\ifx\hv@label\@empty\else\label{\hv@label}\fi}%
1008     \fi
1009   \else
1010     \ifx\relax\hv@shortCap\relax
1011       \tabcaption{\hv@longCap\ifx\hv@label\@empty\else\label{\hv@label}\fi}%
1012     \else
1013       \tabcaption[\hv@shortCap]{\hv@longCap\ifx\hv@label\@empty\else\label{\hv@label}\fi}%
1014     \fi
1015     \fi
1016     \endminipage
1017   }% end CaptionBox without rotation
1018 \else
1019   \savebox\hvCaptionBox{% with Rotation
1020     \rotatebox{\hvSet@capAngle}{%
1021       \minipage[b]{\hvCapWidth}%% minipage, to get hyphenation
1022     \ifx\hv@floatType\hv@figure
1023       \ifx\hv@shortCap\@empty \figcaption{\hv@longCap}\else\figcaption[\hv@shortCap]{\hv@longCap}\fi
1024     \else
1025       \ifx\hv@shortCap\@empty \tabcaption{\hv@longCap}\else\tabcaption[\hv@shortCap]{\hv@longCap}\fi
1026     \fi
1027     \ifx\hv@label\@empty\else\label{\hv@label}\fi
1028     \endminipage
1029   }% rotatebox
1030 }% end \avesbox
1031 \fi
1032 %
1033 % now we have the object and the caption with the right
1034 % rotated angles saved in different boxes
1035 %%
1036 \restoreCaptionSkip% save old values
1037 % \def\fps@figure{\hvSet@floatPos}%
1038 \ifx\hvSet@floatPos\@empty \else\@namedef{fps@\hv@floatType}{\hvSet@floatPos}\fi
1039 \noindent
1040 \begingroup% Start the nonfloat part
1041 \checkoddpage
1042 \ifx\hvSet@objectPos\hv@Right \raggedleft\fi
1043 \ifx\hvSet@objectPos\hv@Center \hspace*{\fill}\fi
1044 \ifx\hvSet@objectPos\hv@Outer \ifoddpage\raggedleft\fi\fi
1045 \ifx\hvSet@objectPos\hv@Inner \ifoddpage\else\raggedleft\fi\fi
1046 %
1047 % to rotate object and caption together, we save all in another box
1048 % the caption comes first, if its on the left or the top
1049 % 0 caption left, inner and odd page, onside inner
1050 % 1 caption top
1051 % 2 caption right, inner and even page, onside outer
1052 % 3 caption bottom
1053 %
1054 \ifx\hvSet@capPos\hv@Left \hv@capPos=0
1055 \else

```

```

1056 \ifx\hvSet@capPos\hv@Top \hv@capPos=1
1057 \else
1058 \ifx\hvSet@capPos\hv@Right \hv@capPos=2
1059 \else
1060 \ifx\hvSet@capPos\hv@Bottom \hv@capPos=3
1061 \else
1062 \ifx\hvSet@capPos\hv@Inner \ifoddpageoroneside\hv@capPos=0\else\hv@capPos=2\fi
1063 \else
1064 \ifx\hvSet@capPos\hv@Outer \ifoddpage\hv@capPos=2\else\hv@capPos=0\fi
1065 % \ifoddpageoroneside\hv@capPos=2\else\hv@capPos=0\fi
1066 % even page (left=0) | odd page (oneside) (right=2)
1067 \else
1068 \ifx\hvSet@capPos\hv@Before \hv@capPos=0% same as cappos=left
1069 \else
1070 \ifx\hvSet@capPos\hv@After \hv@capPos=2% same as capPos=right
1071 \fi
1072 \fi
1073 \fi
1074 \fi
1075 \fi
1076 \fi
1077 \fi
1078 \fi
1079 %%%
1080 %\typeout{>>>>>>>Pos: \the\hv@capPos}%
1081 \savebox{\@tempboxa}{% ***** @tempbox start
1082 \expandafter\ifcase\the\hv@capPos % 0 is LEFT START \ifcase
1083 \ifx\hvSet@capVPos\hv@Center
1084 \put@CaptionBox
1085 \hspace{\hv@floatCapSep}% capfloatsep
1086 \put@ObjectBox
1087 \else
1088 \ifx\hvSet@capVPos\hv@Top% caption and object at top aligned
1089 \put@CaptionBox[1]%
1090 \hspace{\hv@floatCapSep}% capfloatsep
1091 \put@ObjectBox[1]%
1092 \else% caption on bottom
1093 \put@CaptionBox[2]%
1094 \hspace{\hv@floatCapSep}% capfloatsep
1095 \put@ObjectBox[2]%
1096 \fi
1097 \fi% end caption left
1098 \or%1 is top
1099 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
1100 \begin{minipage}{\wd\hvCaptionBox}%
1101 \else
1102 \begin{minipage}{\wd\hvObjectBox}%
1103 \fi
1104 \ifx\hvSet@capHPos\hv@Left% horizontal justification
1105 \raggedright
1106 \else
1107 \ifx\hvSet@capHPos\hv@Center \centering\else\raggedleft\fi
1108 \fi
1109 \ifhv@fbox
1110 \fbox{\usebox{\hvCaptionBox}}\@[0.5\hvBelowCaptionSkip]%
1111 \fbox{\usebox{\hvObjectBox}}%
1112 \else
1113 \usebox{\hvCaptionBox}\@[0.5\hvBelowCaptionSkip]%
1114 \usebox{\hvObjectBox}%
1115 \fi
1116 \end{minipage}%
1117 \or%2 is right
1118 \ifx\hvSet@capVPos\hv@Center
1119 \put@ObjectBox
1120 \hspace{\hv@floatCapSep}%
1121 \put@CaptionBox
1122 \else

```

```

1123 \ifx\hvSet@capVPos\hv@Top
1124 \put@ObjectBox[1]%
1125 \hspace{\hv@floatCapSep}% capfloatsep
1126 \put@CaptionBox[1]%
1127 \else
1128 \put@ObjectBox[2]% bottom
1129 \hspace{\hv@floatCapSep}% capfloatsep
1130 \put@CaptionBox[2]%
1131 \fi
1132 \fi
1133 \or%3 bottom
1134 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox\begin{minipage}{\wd\hvCaptionBox}\else\begin{minipage}{\wd\
hvObjectBox}\fi
1135 \ifx\hvSet@capHPos\hv@Left% horizontal justification
1136 \raggedright
1137 \else
1138 \ifx\hvSet@capHPos\hv@Center \centering\else\raggedleft\fi
1139 \fi
1140 \ifhv@fbox
1141 \fbox{\usebox{\hvObjectBox}}\@[0.5\hvAboveCaptionSkip]%
1142 \fbox{\usebox{\hvCaptionBox}}%
1143 \else
1144 \ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi\@[0.5\
hvAboveCaptionSkip]%
1145 \usebox{\hvCaptionBox}%
1146 \fi
1147 \end{minipage}%
1148 \fi% \ifcase\the\hv@capPos
1149 }% End savebox Object and caption %%%%%%%%%%%%%%%%% @tempboxa
1150 %
1151 % now we rotate the object and caption, if needed
1152 %
1153 \ifx\hvSet@rotAngle\hv@Zero\usebox{@tempboxa}\else\rotatebox{\hvSet@rotAngle}{\usebox{@tempboxa}}\fi
1154 \ifx\hvSet@objectPos\hv@Center \hspace{\fill}\fi
1155 \endgroup% End the nonfloat part
1156 }% end marginnote
1157 \endgroup}% end of \marginnote and \@@hvFloatInMargin
1158
1159
1160
1161 %
1162 \newenvironment{hvFloatEnv}[1][\textwidth]
1163 {\minipage{#1}}
1164 {\endminipage}
1165 %
1166
1167 \ExplSyntaxOn
1168 \let\clist@item@Nn\clist_item:Nn
1169 \let\l@clist@Type\l_clist_Type
1170 \let\l@clist@LofCaption\l_clist_LofCaption
1171 \let\l@clist@Label\l_clist_Label
1172 \let\clist@count@N\clist_count:N
1173 \ExplSyntaxOff
1174
1175 \def\do@@@hvFloat{% special float page: caption <-> fullpage images
1176 \ifx\hvSet@capPos\hv@After \global\hv@capPos=1
1177 \else
1178 \ifx\hvSet@capPos\hv@Even \global\hv@capPos=2
1179 \else
1180 \ifx\hvSet@capPos\hv@Odd \global\hv@capPos=3
1181 \else
1182 \ifx\hvSet@capPos\hv@Inner \global\hv@capPos=4
1183 \else
1184 \ifx\hvSet@capPos\hv@Outer \global\hv@capPos=5
1185 \else
1186 \ifx\hvSet@capPos\hv@Right \global\hv@capPos=6% only for twocolumn mode
1187 \else

```



```

1188     \ifx\hvSet@capPos\hv@Left   \global\hv@capPos=7% only for twocolumn mode
1189     \else
1190         \global\hv@capPos=0
1191     \fi
1192 \fi
1193 \fi
1194 \fi
1195 \fi
1196 \fi
1197 \fi
1198 \checkoddpage
1199 \set@caption@object{\hv@floatType}% set caption and object into a box
1200 \ifcase\hv@capPos% caption before object 0-> _always_ left
1201     \setBottomCaption\setPageObject
1202 \or% caption after object 1-> _always_ right
1203     \setPageObject\setBottomCaption
1204 \or% caption on even page 2-> left page
1205     \ifoddpage
1206         \afterpage{\setBottomCaption\setPageObject}%
1207     \else% we are on an even page
1208         \setBottomCaption\setPageObject
1209     \fi
1210 \or% caption on odd page 3->right page
1211 \if@twoside
1212     \if@twocolumn
1213         \ifoddpage
1214             \if@firstcolumn% on right side
1215                 \setBottomCaption\setPageObject
1216             \else
1217                 \afterpage{\setPageObject\setBottomCaption}% start next column
1218             \fi
1219         \else% left (even) page
1220             \if@firstcolumn
1221                 \afterpage{\setPageObject\setBottomCaption}% start next column
1222             \else
1223                 \setPageObject\setBottomCaption
1224             \fi
1225         \fi
1226     \else% onecolumn
1227         \ifoddpage
1228             \setPageObject\setBottomCaption
1229         \else% even page
1230             \afterpage{\setPageObject\setBottomCaption}%
1231         \fi
1232     \fi
1233 \else% oneside
1234     \if@twocolumn
1235         \ifoddpage
1236             \if@firstcolumn% on right side
1237                 \setBottomCaption\setPageObject
1238             \else
1239                 \setPageObject\setBottomCaption
1240             \fi
1241         \else
1242             \if@firstcolumn% on left side
1243                 \afterpage{\setPageObject\setBottomCaption}%
1244             \else
1245                 \setPageObject\setBottomCaption
1246             \fi
1247         \fi
1248     \else % onecolumn
1249         \ifoddpage
1250             \setBottomCaption\setPageObject
1251         \else
1252             \afterpage{\setBottomCaption\setPageObject}%
1253         \fi
1254     \fi

```

```

1255 \fi
1256 \or% caption on the inner column 4->inner
1257 % \set@caption@object
1258 \if@twocolumn
1259 \ifoddpage
1260 \if@firstcolumn% on right side
1261 \setBottomCaption\setPageObject
1262 \else % right column on right side
1263 \setPageObject\setBottomCaption% start next firstcolumn next page
1264 \fi
1265 \else
1266 \if@firstcolumn% on left side
1267 \afterpage{\afterpage{\setBottomCaption\setPageObject}}% start next page/first column
1268 \else% left page/column
1269 \setBottomCaption\setPageObject% start on same page/column
1270 \fi
1271 \fi
1272 \else% onecolumn
1273 \setBottomCaption\setPageObject
1274 \fi
1275 \or% caption on the outer column 5->outer
1276 % \set@caption@object
1277 \if@twocolumn
1278 \ifoddpage
1279 \if@firstcolumn
1280 \afterpage{\afterpage{\setBottomCaption\setPageObject}}%
1281 \else
1282 \afterpage{\setBottomCaption\setPageObject}%
1283 \fi
1284 \else% even page (left)
1285 \if@firstcolumn
1286 \setBottomCaption\setPageObject
1287 \else
1288 %%% !!!! to-do: !!!!
1289 \fi
1290 \fi
1291 \else% onecolumn
1292 \setBottomCaption\setPageObject
1293 \fi
1294 \or% caption after object on same page 6->right for twocolumn
1295 \if@twocolumn
1296 \if@firstcolumn
1297 \afterpage{\setPageObject\setBottomCaption}%
1298 \else
1299 \setPageObject\setBottomCaption
1300 \fi
1301 \else% always caption _after_ object for onecolumn
1302 \setPageObject\setBottomCaption
1303 \fi
1304 \or% caption before object on same page 7->left for twocolumn
1305 \if@twocolumn
1306 \if@firstcolumn
1307 \setBottomCaption\setPageObject
1308 \else
1309 \afterpage{\setBottomCaption\setPageObject}%
1310 \fi
1311 \else% onecolumn -> same as before
1312 \setBottomCaption\setPageObject
1313 \fi
1314 \fi
1315 \endgroup% startet at main \hvFloat
1316 }
1317 %
1318
1319
1320 %% ----- the doublepage obejcts -----
1321 %% ||lin+evenside --- |lin+oddside ---||

```

```

1322 %
1323 \def\do@hvFloat@doublePage#1{% image on left and right page with caption on the right page
1324 % #1-> 0/1 caption under/right
1325 \hv@typeout{>>>doublePage: start with definitions of \hv@floatObject}%
1326 \global\hv@leftPageObjectWidth=\the\dimexpr\paperwidth-lin-\evensidemargin-\hvSet@bindCorrection\relax
1327 \global\hv@tempWidthA=\the\dimexprlin+\oddsidemargin-\hvSet@bindCorrection\relax
1328 \xdef\hv@caption@format@temp{\hv@caption@format}% it gets lost otherwise for next afterpage
1329 \@dblfpbot=0\p@ \@plus 1fil%
1330 \global\hv@switchTypefalse
1331 \setcounter{hv@tempCNTfigA}{\value{figure}}%
1332 \setcounter{hv@tempCNTfigB}{\value{figure}}%
1333 \setcounter{hv@tempCNTtabA}{\value{table}}%
1334 \setcounter{hv@tempCNTtabB}{\value{table}}%
1335 \savebox\hvCaptionBox{% NO rotation
1336 \minipage{\textwidth}% minipage, to get hyphenation
1337 \let\@capttype\hv@floatType
1338 \caption*{\hv@longCap}%
1339 \endminipage}%
1340 \savebox\hvObjectBox{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1341 \ifnum#1=0\relax % no rotation, caption below
1342 \hv@typeout{Texthöhe: \the\textheight}%
1343 \hv@typeout{Objekthöhe: \the\ht\hvObjectBox}%
1344 \hv@typeout{Captionhöhe: \the\ht\hvCaptionBox}%
1345 \@tempdima=\dimexpr\ht\hvObjectBox+\ht\hvCaptionBox+\abovecaptionskip+\belowcaptionskip+\textfloatsep
\relax%+\floatsep\relax
1346 \hv@typeout{Summe: \the\@tempdima}%
1347 \ifdim\@tempdima > \dimexpr\textheight-\hv@minTextlines\relax
1348 \hv@typeout{hvfloat: switched to floattype p}%
1349 \hv@switchType>true
1350 \fi
1351 \fi
1352 \hv@typeout{do@hvFloat@doublePage: hv@tempWidthA=\the\hv@tempWidthA}%
1353 \ifhv@forceOutput
1354 \do@hvFloat@doublePAGECaptionRight{#1}% no cheque
1355 \else
1356 \checkoddpage
1357 \ifoddpage
1358 \if@twocolumn
1359 \if@firstcolumn
1360 \hv@typeout{do@hvFloat@doublePage: oddpage->twocolumn->firstcolumn}%
1361 \ifhv@switchType
1362 \hv@typeout{hvfloat: switched to floattype p}%
1363 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1364 \else
1365 \hv@typeout{calling do@hvFloat@doublePageCaptionRight}%
1366 %\afterpage{
1367 \afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1368 \fi
1369 \else
1370 \hv@typeout{do@hvFloat@doublePage: oddpage->twocolumn->secondcolumn}%
1371 \ifhv@tugboat
1372 \do@hvFloat@doublePageCaptionRight{#1}%
1373 \else
1374 \ifhv@switchType
1375 \do@hvFloat@doublePAGECaptionRight{#1}%
1376 \else
1377 \afterpage{\do@hvFloat@doublePageCaptionRight{#1}}%
1378 \fi
1379 \fi
1380 \fi
1381 \else
1382 \ifhv@switchType
1383 \do@hvFloat@doublePAGECaptionRight{#1}%
1384 \else
1385 \afterpage{\do@hvFloat@doublePageCaptionRight{#1}}%
1386 \fi
1387 \fi

```

```

1388 \else% we have an even page
1389 \if@twocolumn
1390 \if@firstcolumn
1391 \ifhv@switchType
1392 \afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}%
1393 \else
1394 \afterpage{\afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}}%
1395 \fi
1396 \else% second column
1397 \ifhv@switchType
1398 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1399 \else
1400 \afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1401 \fi
1402 \fi
1403 \else% onecolumn
1404 \ifhv@switchType
1405 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1406 \else
1407 \afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1408 \fi
1409 \fi
1410 \fi
1411 \let\c@fptop\hv@fptop
1412 \fi
1413 \endgroup% started at main macro \hvFloat
1414 }
1415 %
1416 \def\do@hvFloat@doublePageCaptionRight#1{% image on left and right page with caption on the right page
-----
1417 \hv@typeout{\do@hvFloat@doublePageCaptionRight->start}%
1418 \do@hvFloat@doublePageCaptionRightObjectLeft{0pt}%
1419 \afterpage{\do@hvFloat@doublePageCaptionRightObjectRight{#1}}%
1420 }
1421 %
1422 \def\do@hvFloat@doublePageCaptionRightObjectLeft#1{% left part of the object
1423 \begin{\hv@floatType*}[!t]
1424 \hv@typeout{>>>doublePage: start with left side of the object \hv@floatObject}%
1425 \hv@set@noverticalSpace
1426 \hfuzz=\maxdimen
1427 \let\c@hv@tempCNTfigA\c@figure
1428 \let\c@hv@tempCNTtabA\c@table
1429 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1430 \hv@typeout{Float position parameter is for left page: !t}%
1431 \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1432 \clipbox*{0 -\depth}{ \hv@leftPageObjectWidth}{ \height}{\usebox{\hvObjectBox}%
1433 \ifx\hv@label\@empty
1434 \else
1435 \ifx\hv@floatType\hv@figure
1436 \global\refstepcounter{hv@tempCNTfigA}%
1437 \else
1438 \global\refstepcounter{hv@tempCNTtabA}% before caption
1439 \fi
1440 \label{\hv@label}%
1441 \fi
1442 \ifhv@global@sameHeight
1443 \hv@typeout{text should be of same height of both pages}%
1444 \par\noindent\phantom{\parbox{\textwidth}{\caption*{\hv@LongCap}}}%
1445 % \vspace{-2pt}%
1446 \fi
1447 \hv@reset@noverticalSpace
1448 \end{\hv@floatType*}%
1449 }
1450 \def\do@hvFloat@doublePageCaptionRightObjectRight#1{% right part of the object
1451 \begin{\hv@floatType*}[!t]
1452 \hv@typeout{>>>doublePage: start with right side of the object \hv@floatObject}%
1453 \hv@set@noverticalSpace

```

```

1454 \hfuzz=\maxdimen
1455 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1456 \savebox\hvObjectBox{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1457 \hv@tempWidthA=\the\dimexpr\lin+\oddsidemargin-\hvSet@bindCorrection\relax% FÜR DTK
1458 \hspace*{-\hv@tempWidthA}%
1459 \hv@leftPageObjectWidth=\the\dimexpr\paperwidth-\lin-\evensidemargin-\hvSet@bindCorrection\relax% FÜR
FTK
1460 \savebox\hv@rightBox{\clipbox*{\hv@leftPageObjectWidth{-\depth}{\width}{\height}}{\usebox\
hvObjectBox}}%
1461 \hv@tempWidthB=\dimexpr\textwidth-\wd\hv@rightBox-\hvSet@bindCorrection+\lin+\oddsidemargin-\
hv@floatCapSep\relax
1462 \hv@typeout{Height of right box: \the\ht\hv@rightBox}%
1463 \hv@typeout{Depth of right box : \the\dp\hv@rightBox}%
1464 \ifdim\dp\hv@rightBox > \z@
1465 \raisebox{\depth}{\usebox\hv@rightBox}%
1466 \else
1467 \usebox\hv@rightBox
1468 \fi
1469 \c@hv@tempCNTfigB=\numexpr\c@figure-1\relax
1470 \c@hv@tempCNTtabB=\numexpr\c@table-1\relax
1471 \ifx\hv@label\empty\else
1472 \ifx\hv@floatType\hv@figure
1473 \refstepcounter{hv@tempCNTfigB}%
1474 \else
1475 \refstepcounter{hv@tempCNTtabB}% before caption
1476 \fi
1477 \label{\hv@label-2}%
1478 \fi
1479 \ifx\hv@caption@format@temp\empty\else
1480 \expandafter\captionsetup\expandafter{\hv@caption@format@temp}%
1481 \fi
1482 \c@figure=\numexpr\c@hv@tempCNTfigB-1\relax
1483 \c@table=\numexpr\c@hv@tempCNTtabB-1\relax
1484 \ifnum#1>\z@ % caption on the right
1485 \hv@typeout{doublePage: capAngle=\hvSet@capAngle}%
1486 \ifnum\hvSet@capAngle > \z@
1487 \hspace{\hv@floatCapSep}%
1488 \rlap{\rotatebox{\hvSet@capAngle}{\parbox[b]{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1489 \abovecaptionskip=0pt% local inside parbox
1490 \belowcaptionskip=0pt% local inside parbox
1491 \ifx\relax\hv@shortCap\relax
1492 \caption{\hv@longCap}%
1493 \else
1494 \caption[\hv@shortCap]{\hv@longCap}%
1495 \fi
1496 }}}%
1497 \ifx\hv@label\empty\else\label{\hv@label-cap}\fi
1498 \else
1499 \hv@tempWidthB=\dimexpr\textwidth-\wd\hv@rightBox-\hvSet@bindCorrection+\lin+\oddsidemargin-\
hv@floatCapSep\relax
1500 \hspace{\hv@floatCapSep}%
1501 \rlap{\parbox[b][\dimexpr\ht\hv@rightBox+\dp\hv@rightBox][\hv@capVPos]{\hv@tempWidthB}{%
1502 \abovecaptionskip=0pt % local inside parbox
1503 \belowcaptionskip=0pt % local inside parbox
1504 \ifx\hv@shortCap\empty
1505 \caption{\hv@longCap}%
1506 \else
1507 \caption[\hv@shortCap]{\hv@longCap}%
1508 \fi
1509 }}}%
1510 \ifx\hv@label\empty\else\label{\hv@label-cap}\fi
1511 \fi
1512 \else % #1 = 0 caption below
1513 \ifx\relax\hv@shortCap\relax
1514 \caption{\hv@longCap}%
1515 \else
1516 \caption[\hv@shortCap]{\hv@longCap}%

```

```

1517     \fi
1518     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1519     \fi
1520     \vspace{0pt}%
1521     \hv@reset@noverticalSpace
1522     \end{\hv@floatType*}
1523 }
1524 %
1525 \newsavebox\hv@boxLeftPage
1526 \newsavebox\hv@boxRightPage
1527 %
1528 %% ||lin+evenside --- |lin+oddside ---||
1529 %
1530 %
1531 \def\do@hvFloat@doublePAGE#1{% image on left and right page with caption on the right
-----
1532 % #1-> 0/1 caption under/right
1533 % \global\setlength\hv@tempWidthA{\the\dimexprlin+oddsidemargin-\hvSet@bindCorrection}%
1534 % \global\setlength\hv@leftPageObjectWidth{\the\dimexprpaperwidth-lin-\evensidemargin-
    \hvSet@bindCorrection}%
1535 \expandafter\global\expandafter\savebox\expandafter\hvObjectBox\expandafter{\ifhv@useOBox\usebox{\hvOBox
    }\else\hv@floatObject\fi}%
1536 \expandafter\global\expandafter\savebox\expandafter\hv@boxLeftPage\expandafter{\clipbox*{0 -\depth} \
    \hv@leftPageObjectWidth} \height}{\usebox\hvObjectBox}}%
1537 \expandafter\global\expandafter\savebox\expandafter\hv@boxRightPage\expandafter{\clipbox*{\
    \hv@leftPageObjectWidth} -\depth} \width} \height}{\usebox\hvObjectBox}}%
1538 \checkoddpages
1539 \ifoddpages
1540   \hv@typeout{do@hvFloat@doublePAGE: oddpage}%
1541   \if@twocolumn
1542     \if@firstcolumn
1543       \hv@typeout{do@hvFloat@doublePAGE: ifoddpages->twocolumn->firstcolumn}%
1544       \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1545     \else
1546       \hv@typeout{do@hvFloat@doublePAGE: ifoddpages->twocolumn->secondcolumn}%
1547       \do@hvFloat@doublePAGECaptionRight{#1}%
1548     \fi
1549   \else
1550     \do@hvFloat@doublePAGECaptionRight{#1}%
1551   \fi
1552 \else
1553   \hv@typeout{do@hvFloat@doublePAGE: evenpage}%
1554   \if@twocolumn
1555     \if@firstcolumn
1556       \afterpage{\afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}}%
1557     \else
1558       \afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}%
1559     \fi
1560   \else
1561     \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}% onecolumn/left page
1562   \fi
1563 \fi
1564 \endgroup% startet at main macro
1565 }
1566 %
1567 \def\do@hvFloat@doublePAGECaptionRight#1{% image on left and right page with caption on the right
-----
1568 % #1-> 0/1 caption under/right
1569 \hv@typeout{do@hvFloat@doublePAGECaptionRight->start}%
1570 \afterpage{%
1571   \hfuzz=\maxdimen
1572   \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1573   \ifhv@useOBox
1574     \global\let\hvObjectBox\hvOBox
1575   \else
1576     \global\savebox\hvObjectBox{\hv@floatObject}%
1577   \fi

```

```

1578 \noindent
1579 \global\hv@tempWidthA=\the\dimexprlin+\oddsidemargin-\hvSet@bindCorrection%
1580 \global\hv@leftPageObjectWidth=\the\dimexpr\paperwidth-lin-\evensidemargin-\hvSet@bindCorrection%
1581 \clipbox*{0 -\depth{} \hv@leftPageObjectWidth{} \height}{\usebox\hvObjectBox}%
1582 \null\newpage\if@twocolumn\newpage\fi
1583 \expandafter\global\expandafter\savebox\expandafter\hvObjectBox\expandafter{\ifhv@use0Box\usebox{\
hv0Box}\else\hv@floatObject\fi}%
1584
1585 \noindent
1586 \hspace*{\dimexpr-\hv@tempWidthA}%
1587 \clipbox*{\the\hv@leftPageObjectWidth{} -\depth{} \width{} \height}{\usebox\hvObjectBox}%
1588 \begingroup
1589 \ifnum#1>0
1590 \medskip
1591 \ifdim\dp\hvObjectBox > \z@
1592 \rotatebox[origin=c]{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1593 \ifx\relax\hv@shortCap\relax
1594 \captionof{\hv@floatType}{\hv@longCap}%
1595 \else
1596 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1597 \fi
1598 \ifx\hv@label\@empty\else\label{\hv@label}\fi
1599 \else
1600 \rotatebox{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1601 \ifx\relax\hv@shortCap\relax
1602 \captionof{\hv@floatType}{\hv@longCap}%
1603 \else
1604 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1605 \fi
1606 }}%
1607 \ifx\hv@label\@empty\else\label{\hv@label}\fi
1608 \fi
1609 \else% caption not rotated
1610 \par\noindent
1611 \parbox{\textwidth}{%
1612 \ifx\relax\hv@shortCap\relax
1613 \captionof{\hv@floatType}{\hv@longCap}%
1614 \else
1615 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1616 \fi
1617 \ifx\hv@label\@empty\else\label{\hv@label}\fi
1618 }%
1619 \fi
1620 \endgroup
1621 \newpage\if@twocolumn\newpage\fi
1622 }%
1623 }
1624 %
1625 %% ||lin+evenside --- |lin+oddside --- ||
1626 %
1627 \def\do@hvFloat@doubleFULLPAGE#1{% image on left and right page with caption before/below/right/after
1628 % #1-> 0/1 caption under/right
1629 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1630 \ifx\hvSet@capPos\hv@After \global\hv@capPos=1
1631 \else
1632 \ifx\hvSet@capPos\hv@Before \global\hv@capPos=0
1633 \else
1634 \global\hv@capPos=2 % other caption type
1635 \fi\fi
1636 \checkodddpage
1637 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1638 \global\hv@tempWidthA=\dimexpr-\oddsidemargin-lin-\parindent+\hvSet@bindCorrection% the width of the
right side offset
1639 \global\hv@tempWidthB=\dimexpr\ht\hvCaptionBox+\wd\hvObjectBox+2\hvSet@bindCorrection%
1640 \global\hv@leftPageObjectWidth=\dimexpr\paperwidth-\hvSet@bindCorrection%
1641 % \savebox\hv@leftBox{\clipbox*{0 0 \the\hv@leftPageObjectWidth{} \height}{\usebox\hvObjectBox}}%
1642 % \savebox\hv@rightBox{\clipbox*{\the\hv@leftPageObjectWidth{} \depth{} \width{} \height}{\usebox\

```

```

    hvObjectBox}}%
1643 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1644 \ifoddpge
1645   \hv@typeout{do@hvFloat@doubleFULLPAGE: ifoddpge=true}%
1646   \ifcase\hv@capPos % =0 Caption before
1647     \hv@typeout{do@hvFloat@doubleFULLPAGE: caption before}%
1648     \if@twocolumn
1649       \hv@typeout{do@hvFloat@doubleFULLPAGE: twocolumn=true}%
1650       \if@firstcolumn
1651         \hv@typeout{do@hvFloat@doubleFULLPAGE: firstcolumn=true}%
1652         \ifhv@twoColumnCaption
1653           \hv@typeout{do@hvFloat@doubleFULLPAGE: twoColumnCaption=true}%
1654           \set@Normal@Bottom@Caption*
1655           \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1656         \else
1657           \afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1658         \fi
1659       \else% \if@firstcolumn
1660         \set@Normal@Bottom@Caption
1661         \do@hvFloat@doubleFULLPAGE@CaptionBefore
1662       \fi
1663     \else% \if@twocolumn
1664       \set@Normal@Bottom@Caption
1665       \do@hvFloat@doubleFULLPAGE@CaptionBefore
1666     \fi
1667   \or % =1 Caption after
1668     \hv@typeout{do@hvFloat@doubleFULLPAGE: caption after}%
1669     \ifhv@twoColumnCaption
1670       \hv@typeout{do@hvFloat@doubleFULLPAGE: twoColumnCaption=true}%
1671       \if@firstcolumn
1672         \hv@typeout{do@hvFloat@doubleFULLPAGE: firstcolumn=true}%
1673         \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol}%
1674       \else
1675         \hv@typeout{do@hvFloat@doubleFULLPAGE: firstcolumn=false}%
1676         \do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol
1677       \fi
1678     \else
1679       \if@twocolumn
1680         \if@firstcolumn
1681           \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter}%
1682         \else
1683           \do@hvFloat@doubleFULLPAGE@CaptionAfter
1684         \fi
1685       \else
1686         \do@hvFloat@doubleFULLPAGE@CaptionAfter
1687       \fi
1688     \fi
1689   \else% \ifcase >1 all other Captions
1690     \if@twocolumn
1691       \if@firstcolumn
1692         \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}%
1693       \else
1694         \do@hvFloat@doubleFULLPAGE@CaptionOther{#1}%
1695       \fi
1696     \else % \if@twocolumn
1697       \do@hvFloat@doubleFULLPAGE@CaptionOther{#1}%
1698     \fi
1699   \fi% \ifcase
1700 \else% we have an even page
1701 \ifcase\hv@capPos% Before
1702   \if@twocolumn
1703     \if@firstcolumn
1704       \ifhv@twoColumnCaption
1705         \afterpage{\afterpage\set@Normal@Bottom@Caption*\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}%
1706       \else
1707         \afterpage{\afterpage{\afterpage{\set@Normal@Bottom@Caption\

```



```

do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}%
1708   \fi
1709   \else
1710     \afterpage{\afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}%
1711   \fi
1712   \else% |if@twocolumn
1713     \afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1714   \fi
1715 \or % capPos after
1716   \if@twocolumn
1717     \if@firstcolumn
1718       \ifhv@twoColumnCaption
1719         \afterpage{\afterpage\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol{#1}}}%
1720       \else
1721         \afterpage{\afterpage\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter{#1}}}%
1722       \fi
1723     \else
1724       \ifhv@twoColumnCaption
1725         \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol{#1}}}%
1726       \else
1727         \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter{#1}}}%
1728       \fi
1729     \fi
1730   \else% |if@twocolumn
1731     \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter}%
1732   \fi
1733 \else % lifcase Any other caption
1734   \if@twocolumn
1735     \if@firstcolumn
1736       \afterpage{\afterpage\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}}%
1737     \else
1738       \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}}%
1739     \fi
1740   \else
1741     \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}%
1742   \fi
1743 \fi% lifcase
1744 \fi% main ifoddpape
1745 \endgroup% started at main macro \hvFloat
1746 }
1747
1748 \def\set@Normal@Bottom@Caption{\@ifnextchar*\set@Normal@Bottom@CaptionStar\set@Normal@Bottom@Caption@}
1749 \def\set@Normal@Bottom@Caption@{%
1750   \begin{\hv@floatType}[!b]
1751     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1752     \ifhv@separatorLine\drawSepLine\fi
1753 %     \expandafter\captionsetup\expandafter{\hv@caption@format}%
1754     \ifhv@onlyText
1755       \hv@longCap
1756     \else
1757       \ifx\hv@shortCap\@empty
1758         \captionof{\hv@floatType}{\hv@longCap}%
1759       \else
1760         \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1761       \fi
1762     \fi
1763     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1764   \end{\hv@floatType}%
1765 }
1766 \def\set@Normal@Bottom@CaptionStar*{%
1767   \begin{\hv@floatType*}[!b]
1768     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1769     \ifhv@separatorLine\drawSepLine\fi
1770 %     \expandafter\captionsetup\expandafter{\hv@caption@format}%
1771     \ifhv@onlyText
1772       \hv@longCap
1773     \else

```

```

1774     \ifx\hv@shortCap\@empty
1775       \captionof{\hv@floatType}{\hv@longCap}%
1776     \else
1777       \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1778     \fi
1779     \fi
1780     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1781   \end{\hv@floatType*}%
1782 }
1783
1784 \def\do@hvFloat@doubleFULLPAGE@CaptionBefore{%
1785   \afterpage{%
1786     \hfuzz=\maxdimen
1787     \global\savebox{\hv@objectBox}{\ifhv@useOBox\usebox{\hv@OBox}\else\hv@floatObject\fi}%
1788     \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\lineskip
1789       }% no interlineskip
1790     \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1791     \thispagestyle{empty}%
1792     \ifx\hv@floatType\hv@figure
1793       \global\refstepcounter{hv@tempCNTfigB}%
1794     \else
1795       \global\refstepcounter{hv@tempCNTtabB}% before caption
1796     \fi
1797     \expandafter\label\expandafter{\hv@label}%
1798     \clipbox*{0 0 \the\hv@leftPageObjectWidth{} \height}{\usebox{\hv@objectBox}%
1799   \afterpage{%
1800     \if@twocolumn\newpage\null\newpage\fi
1801     \global\savebox{\hv@objectBox}{\ifhv@useOBox\usebox{\hv@OBox}\else\hv@floatObject\fi}%
1802     \thispagestyle{empty}%
1803     \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\
1804       lineskip}% -0.5\paperheight+0.5\ht\hv@objectBox
1805     \hspace*{\hv@tempWidthA}%
1806     \global\savebox{\hv@objectBox}{\ifhv@useOBox\usebox{\hv@OBox}\else\hv@floatObject\fi}%
1807     \clipbox*{\the\hv@leftPageObjectWidth{} \dp\hv@objectBox{} \wd\hv@objectBox{} \ht\hv@objectBox}{\usebox
1808       \hv@objectBox}%
1809     \ifx\hv@floatType\hv@figure
1810       \global\refstepcounter{hv@tempCNTfigA}%
1811     \else
1812       \global\refstepcounter{hv@tempCNTtabA}% before caption
1813     \fi
1814     \expandafter\label\expandafter{\hv@label-2}%
1815     \newpage\if@twocolumn\null\newpage\fi
1816   }}%
1817 }
1818
1819 \newif\ifhv@temp
1820
1821 \def\do@hvFloat@doubleFULLPAGE@CaptionAfter{%
1822   \afterpage{%
1823     \hfuzz=\maxdimen
1824     \global\savebox{\hv@objectBox}{\ifhv@useOBox\usebox{\hv@OBox}\else\hv@floatObject\fi}%
1825     \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\lineskip
1826       }% no interlineskip
1827     \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1828     \thispagestyle{empty}%
1829     \clipbox*{0 \the\dp\hv@objectBox{} \the\hv@leftPageObjectWidth{} \the\ht\hv@objectBox}{\usebox\
1830       hv@objectBox}%
1831     \ifx\hv@floatType\hv@figure
1832       \refstepcounter{hv@tempCNTfigA}%
1833     \else
1834       \refstepcounter{hv@tempCNTtabA}% before caption
1835     \fi
1836     \ifx\hv@label\@empty\else\label{\hv@label}\fi
1837     \newpage\if@twocolumn\null\newpage\fi
1838     \global\savebox{\hv@objectBox}{\ifhv@useOBox\usebox{\hv@OBox}\else\hv@floatObject\fi}%
1839     \thispagestyle{empty}%
1840     \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\

```

```

1836     \lineskip}%      -0.5\paperheight+0.5\ht\hvObjectBox
1837     \hspace*{\hv@tempWidthA}%
1838     \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1839     \clipbox*{\the\hv@leftPageObjectWidth{} \dp\hvObjectBox{} \wd\hvObjectBox{} \ht\hvObjectBox}{\usebox
1840     \hvObjectBox}%
1841     \ifx\hv@floatType\hv@figure
1842     \refstepcounter{hv@tempCNTfigB}%
1843     \else
1844     \refstepcounter{hv@tempCNTtabB}%   before caption
1845     \fi
1846     \expandafter\label\expandafter{\hv@label-2}%
1847     \newpage\if@twocolumn\null\newpage\fi
1848     \begin{\hv@floatType}[!b]
1849     \ifhv@separatorLine\drawSepLine\fi
1850     \expandafter\captionsetup\expandafter{\hv@caption@format}%
1851     \ifhv@onlyText
1852     \hv@longCap
1853     \else
1854     \ifx\hv@shortCap\@empty
1855     \captionof{\hv@floatType}{\hv@longCap}%
1856     \else
1857     \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1858     \fi
1859     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1860     \end{\hv@floatType}%
1861 }%
1862 }
1863 \def\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol{%
1864 \hv@typeout{do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol: start} %
1865 \afterpage{%
1866 \hv@typeout{do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol: afterpage start} %
1867 \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1868 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\lineskip
1869 }% no interlineskip
1870 \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1871 \thispagestyle{empty}%
1872 \ifx\hv@floatType\hv@figure
1873 \refstepcounter{hv@tempCNTfigA}%
1874 \else
1875 \refstepcounter{hv@tempCNTtabA}%   before caption
1876 \fi
1877 \ifx\hv@label\@empty\else\label{\hv@label}\fi
1878 \clipbox*{0 0 \the\hv@leftPageObjectWidth{} \height}{\usebox\hvObjectBox}%
1879 \newpage\if@twocolumn\null\newpage\fi
1880 \hv@typeout{do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol: insert newpage} %
1881 \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1882 \thispagestyle{empty}%
1883 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\
1884 \lineskip}%      -0.5\paperheight+0.5\ht\hvObjectBox
1885 \hspace*{\hv@tempWidthA}%
1886 \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1887 \clipbox*{\the\hv@leftPageObjectWidth{} \dp\hvObjectBox{} \wd\hvObjectBox{} \ht\hvObjectBox}{\usebox
1888 \hvObjectBox}%
1889 \ifx\hv@floatType\hv@figure
1890 \refstepcounter{hv@tempCNTfigB}%
1891 \else
1892 \refstepcounter{hv@tempCNTtabB}%   before caption
1893 \fi
1894 \ifx\hv@label\@empty\else\label{\hv@label-2}\fi
1895 \newpage\if@twocolumn\null\newpage\fi
1896 \begin{\hv@floatType*}[!b]
1897 \hv@twoColumnCaptiontrue
1898 \ifhv@separatorLine\drawSepLine\fi
1899 \expandafter\captionsetup\expandafter{\hv@caption@format}%
1900 \ifhv@onlyText

```

```

1898     \hv@longCap
1899     \else
1900     \ifx\hv@shortCap\@empty
1901     \captionof{\hv@floatType}{\hv@longCap}%
1902     \else
1903     \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1904     \fi
1905     \fi
1906     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1907 \end{\hv@floatType*}%
1908 }%
1909 \hv@typeout{do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol: afterpage done} %
1910 }
1911
1912 \def\do@hvFloat@doubleFULLPAGE@CaptionOther#1{%
1913 \afterpage{%
1914 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\lineskip
1915 }% -0.5\paperheight+0.5\ht\hvObjectBox
1916 \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1917 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1918 \thispagestyle{empty}%
1919 \hfuzz=\maxdimen
1920 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1921 \clipbox*{0 \depth} \hv@leftPageObjectWidth{ \height}{\usebox\hvObjectBox}%
1922 \ifx\hv@floatType\hv@figure
1923 \refstepcounter{hv@tempCNTfigA}%
1924 \else
1925 \refstepcounter{hv@tempCNTtabA}% before caption
1926 \fi
1927 \label{\hv@label}%
1928 \afterpage{%
1929 \if@twocolumn\newpage\if@firstcolumn\else\null\newpage\fi\fi
1930 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1931 \thispagestyle{empty}%
1932 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\
1933 lineskip}% -0.5\paperheight+0.5\ht\hvObjectBox
1934 \hspace*{\hv@tempWidthA}%
1935 \clipbox*{\hv@leftPageObjectWidth{ \dp\hvObjectBox} \wd\hvObjectBox} \ht\hvObjectBox}{\usebox\
1936 hvObjectBox}%
1937 \ifx\hv@floatType\hv@figure
1938 \refstepcounter{hv@tempCNTfigB}%
1939 \else
1940 \refstepcounter{hv@tempCNTtabB}% before caption
1941 \fi
1942 \expandafter\label\expandafter{\hv@label-2}%
1943 \savebox\hvCaptionBox{\parbox{0.9\ht\hvObjectBox}{\captionof*{\hv@floatType}{\hv@longCap}}}%
1944 \ifnum#1 > 0\relax % rotation with 90°
1945 % \setlength\hv@tempWidthB{\dimexpr\ht\hvCaptionBox+\wd\hvObjectBox+2\hv@set@bindCorrection}%
1946 \ifdim\hv@tempWidthB < 2\paperwidth
1947 \rotatebox[origin=lb]{90}{\makebox[\paperheight][c]{\parbox{0.8\ht\hvObjectBox}{%
1948 \expandafter\captionsetup\expandafter{\hv@caption@format}%
1949 \ifhv@onlyText
1950 \hv@longCap
1951 \else
1952 \ifx\hv@shortCap\@empty
1953 \captionof{\hv@floatType}{\hv@longCap}%
1954 \else
1955 \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1956 \fi
1957 \fi
1958 }}}% rotatebox
1959 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1960 \else% ifdim: no space left on page
1961 \put(-2\ht\hvCaptionBox,0.5\ht\hvObjectBox){\makebox(0,0){\rotatebox{90}{\minipage{\textwidth}\
1962 centering
1963 \parbox{0.8\textwidth}{%
1964 \ifhv@onlyText

```

```

1961     \hv@longCap
1962     \else
1963         \ifx\hv@shortCap\@empty
1964             \captionof{\hv@floatType}{\hv@longCap}%
1965         \else
1966             \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1967         \fi
1968     \fi
1969 }%
1970     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1971     \endminipage}}}%
1972 \fi
1973 \else% ifnum, caption not rotated, under or over the right page
1974 \hv@tempWidthA=\the\dimexpr\paperheight-\ht\hvObjectBox\relax
1975 \ifdim\hv@tempWidthA > \ht\hvCaptionBox
1976 \else
1977     \put(\the\dimexpr1.5\paperwidth-\wd\hvObjectBox-\hvSet@bindCorrection,\the\dimexpr\ht\
1978 %         \hvCaptionBox+\abovecaptionskip+\belowcaptionskip){\makebox[0pt][c]{\parbox{\textwidth}{%
1979 \ifhv@onlyText
1980     \hv@longCap
1981 \else
1982     \ifx\hv@shortCap\@empty
1983         \captionof{\hv@floatType}{\hv@longCap}%
1984     \else
1985         \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1986     \fi
1987 \fi
1988 }}}}%
1989 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1990 \fi
1991 \fi% end |ifnum#1>0
1992 \newpage\if@twocolumn\null\newpage\fi
1993 }%
1994 }%
1995 }
1996
1997
1998 \def\setBottomCaption{%
1999 \ifhv@twoColumnCaption
2000     \begin{\hv@floatType*}[!b]%
2001 \else
2002     \begin{\hv@floatType}[!b]%
2003 \fi
2004 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
2005 \ifhv@separatorLine\drawSepLine\fi
2006 \par
2007 \usebox\hvCaptionBox
2008 \ifhv@twoColumnCaption
2009     \end{\hv@floatType*}%
2010 \else
2011     \end{\hv@floatType}%
2012 \fi
2013 }
2014
2015 \def\setPageObject{%
2016 \ifhv@star
2017     \begin{\hv@floatType*}[p]%
2018 \else
2019     \begin{\hv@floatType}[p]%
2020 \fi
2021 \hv@tempcnt=\@floatpenalty% suppress "float too big" message
2022 \hfuzz=\maxdimen
2023 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
2024 \ifhv@FULLPAGE
2025     \@floatpenalty=\z@% no message that float too large
2026     \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep}%-0.5\baselineskip%

```

```

2027 \checkoddpaper
2028 \if@twoside
2029 \ifoddpage
2030 \hspace*{\the\dimexpr-\oddsidemargin-\parindent-lin}%
2031 \else
2032 \hspace*{\the\dimexpr-\evensidemargin-\parindent-lin}%
2033 \fi
2034 \else
2035 \hspace*{\the\dimexpr-\oddsidemargin-\parindent-lin}%
2036 \fi
2037 \AtBeginShipoutNext{\thispagestyle{empty}}% to prevent heading/footer
2038 % \afterpage{\AddToHookNext{shipout/after}{\thispagestyle{empty}}}%
2039 \usebox\hvObjectBox
2040 \else
2041 \usebox\hvObjectBox
2042 \fi
2043 \ifhv@star
2044 \end{\hv@floatType}%
2045 \else
2046 \end{\hv@floatType}%
2047 \fi
2048 \@floatpenalty=\hv@tempcnt% restore
2049 }
2050
2051 \ExplSyntaxOn
2052
2053 \def\getMultiCaptionAndLabel{%
2054 \ifhv@twoColumnCaption\hv@tempWidthA=\textwidth \else \hv@tempWidthA=\linewidth\fi
2055 \global\sbox\hvCaptionBox{\minipage[b]{\hv@tempWidthA}%
2056 \captionsetup{aboveskip=\z@,belowskip=\z@,position=below,parbox=none}% , skip=-lex}%
2057 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
2058 \parskip=-0.5\baselineskip
2059 \hv@cntb=\clist_count:N\L_clist_Type
2060 \advance\hv@cntb by \@ne
2061 \hv@canta=1
2062 \loop
2063 \edef\@captive{\clist_item:Nn\L_clist_Type{\hv@canta}}%
2064 \edef\@tempa{\clist_item:Nn\L_clist_LofCaption{\hv@canta}}%
2065 \ifx\@tempa\@empty
2066 \caption{\clist_item:Nn\L_clist_Caption{\hv@canta}}%
2067 \else
2068 \expandafter\caption\expandafter[\@tempa]{\clist_item:Nn\L_clist_Caption{\hv@canta}}%
2069 \fi
2070 \edef\@tempa{\clist_item:Nn\L_clist_Label{\hv@canta}}%
2071 \ifx\@tempa\@empty
2072 \else
2073 \expandafter\label\expandafter{\clist_item:Nn\L_clist_Label{\hv@canta}-cap}\fi
2074 \advance\hv@canta by \@ne
2075 \ifnum\hv@canta<\hv@cntb
2076 \repeat
2077 \vspace{-\baselineskip}% no vspace at the end
2078 \endminipage}%
2079 }
2080
2081 \def\getMultiObjectAndLabel{%
2082 \global\sbox\hvObjectBox{%
2083 \ifhv@vFill
2084 \minipage[b][\textheight][s]{\columnwidth}%
2085 \else
2086 \minipage{\columnwidth}%
2087 \fi
2088 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
2089 \ifx\hvSet@objectPos\hv@Right\raggedleft\else
2090 \ifx\hvSet@objectPos\hv@Left\raggedleft\else
2091 \ifx\hvSet@objectPos\hv@Center\centering
2092 \fi\fi\fi
2093 \hv@cntb=\clist_count:N\L_clist_Type

```

```

2094 \advance\hv@cncb by \@ne
2095 \hv@cncb=1
2096 \loop
2097 \def\@temp{\clist_item:Nn\l_clist_Object{\hv@cncb}}%
2098 \ifhv@objectFrame\frame{\@temp}\else\@temp\fi
2099 \edef\@tempa{\clist_item:Nn\l_clist_Label{\hv@cncb}}%
2100 \edef\@tempb{\clist_item:Nn\l_clist_Type{\hv@cncb}}%
2101 \edef\@capttype{\hv@p@\@tempb}%
2102 \ifx\@tempa\@empty
2103 \else
2104 \refstepcounter{\@capttype}%
2105 \expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{\hv@cncb}}%
2106 \fi
2107 \ifnum\hv@cncb<\clist_count:N\l_clist_Type\par\hv@vskip\fi
2108 \advance\hv@cncb by \@ne
2109 \ifnum\hv@cncb<\hv@cncb
2110 \ifhv@vFill\vfill\fi
2111 \repeat
2112 \endminipage}%
2113 }
2114 \def\getMultiSubCaptionAndLabel{%
2115 \global\abox\hvCaptionBox{%
2116 \minipage{\linewidth}%
2117 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
2118 \setlength\belowcaptionskip{5pt}%
2119 \setlength\abovecaptionskip{0pt}%
2120 \xdef\@capttype{\clist_item:Nn\l_clist_Type{1}}% the same for all subfloats
2121 \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{1}}%
2122 \ifx\@tempa\@empty
2123 \caption{\clist_item:Nn\l_clist_Caption{1}}%
2124 \else
2125 \expandafter\caption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{1}}%
2126 \fi
2127 \edef\@tempa{\clist_item:Nn\l_clist_Label{1}}%
2128 \ifx\@tempa\@empty\else\expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{1}-cap}\fi
2129 \endminipage}%
2130 }
2131
2132 \def\getMultiSubObjectAndLabel{%
2133 \global\abox\hvObjectBox{%
2134 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
2135 \ifhv@vFill
2136 \minipage[b][\textheight][s]{\columnwidth}%
2137 \captionsetup{belowskip=0pt}%
2138 \else
2139 \minipage{\columnwidth}%
2140 \fi
2141 % \ifx\hv@subcaption@format\@empty\else
2142 % \expandafter
2143 % \captionsetup\expandafter[\expandafter s\expandafter u\expandafter b\expandafter]\expandafter
2144 % {\hv@subcaption@format}%
2145 % \fi
2146 \ifx\hvSet@objectPos\hv@Right\raggedleft\else
2147 \ifx\hvSet@objectPos\hv@Left\raggedleft\else
2148 \ifx\hvSet@objectPos\hv@Center\centering
2149 \fi\fi\fi
2150 \hv@cncb=\clist_count:N\l_clist_Caption
2151 \advance\hv@cncb by \@ne
2152 \hv@cncb=2
2153 \edef\@capttype{\clist_item:Nn\l_clist_Type{1}}% the same for all subfloats
2154 \ifx\@tempa\@empty
2155 \else
2156 % \refstepcounter{\@capttype}%
2157 % \expandafter\label\expandafter[\@tempa]%
2158 \fi
2159 \loop
2160 \def\@temp{\clist_item:Nn\l_clist_Object{\hv@cncb}}%

```

```

2161 \ifhv@objectFrame\frame{\@temp}\else\@temp\fi
2162 \begingroup
2163 \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{\hv@cmta}}%
2164 \ifx\@tempa\@empty
2165 \subcaption{\clist_item:Nn\l_clist_Caption{\hv@cmta}}%
2166 \else
2167 \expandafter\subcaption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{\hv@cmta}}%
2168 \fi
2169 \edef\@tempa{\clist_item:Nn\l_clist_Label{\hv@cmta}}%
2170 \ifx\@tempa\@empty
2171 \else
2172 \expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{\hv@cmta}}%
2173 \fi
2174 \endgroup
2175 \ifnum\hv@cmta<\clist_count:N\l_clist_Type\par\hv@vskip\fi
2176 \advance\hv@cmta by \@ne
2177 \ifnum\hv@cmta<\hv@cmtb
2178 \ifhv@vFill\vfill\fi
2179 \repeat
2180 \edef\@tempa{\clist_item:Nn\l_clist_Label{1}}% the main label at the end
2181 \ifx\@tempa\@empty
2182 \else
2183 \edef\@temp{\hv@p\@capttype}%
2184 \refstepcounter{\@temp}%
2185 \expandafter\label\expandafter{\@tempa}%
2186 \fi
2187 \endminipage}%
2188 }
2189 \ExplSyntaxOff
2190
2191 \def\getSingleCaptionAndLabel{%
2192 \global\sbox\hvCaptionBox{\minipage{\linewidth}}%
2193 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
2194 \setlength\belowcaptionskip{5pt}%
2195 \setlength\abovecaptionskip{0pt}%
2196 \ifhv@onlyText
2197 \hv@longCap
2198 \else
2199 \edef\@capttype{\hv@floatType}%
2200 \expandafter\ifx\expandafter\relax\hv@shortCap\relax
2201 \expandafter\ifx\hv@longCap\@empty \else % empty caption?
2202 \caption{\hv@longCap}%
2203 \fi
2204 \else
2205 \expandafter\ifx\hv@longCap\@empty
2206 \caption[\hv@shortCap]{}%
2207 \else
2208 \caption[\hv@shortCap]{\hv@longCap}%
2209 \fi
2210 \fi
2211 \fi
2212 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
2213 \endminipage}%
2214 }
2215
2216 \def\set@caption@object#1{% first caption, then object #1=\hv@floatType
2217 \ifhv@multiFloat
2218 \setcounter{\hv@pfigure}{\value{figure}}%
2219 \setcounter{\hv@ptable}{\value{table}}%
2220 \getMultiCaptionAndLabel
2221 \else
2222 \ifhv@subFloat
2223 \setcounter{\hv@pfigure}{\value{figure}}%
2224 \setcounter{\hv@ptable}{\value{table}}%
2225 \getMultiSubCaptionAndLabel
2226 \else
2227 \getSingleCaptionAndLabel

```



```

2228 \fi
2229 \fi
2230 \edef\@capttype{hv@p#1}%
2231 \ifhv@multiFloat
2232 \getMultiObjectAndLabel
2233 \else
2234 \ifhv@subFloat
2235 \getMultiSubObjectAndLabel
2236 \else
2237 \global\sbox\hvObjectBox{%
2238 \refstepcounter{\@capttype}%
2239 \ifhv@objectFrame\frame{\hv@floatObject}\else\hv@floatObject\fi
2240 \expandafter\ifx\expandafter\relax\hv@label\relax
2241 \else
2242 \expandafter\label\expandafter{\hv@label}%
2243 \fi
2244 }%
2245 \fi
2246 \fi
2247 }
2248 %
2249 \endinput

```