

Package hvfloat Controlling captions, fullpage and doublepage floats ver 2.45

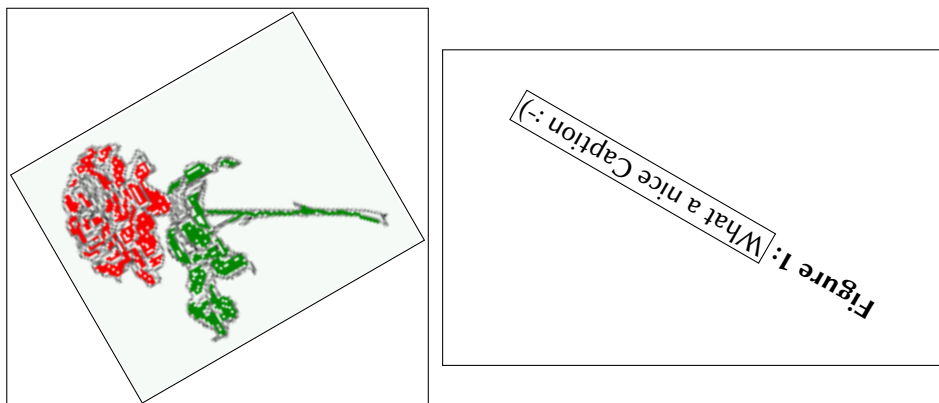
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The package hvfloat defines a macro to place objects and captions of floats in different positions with different rotating angles.

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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Contents

1	The package options	7
2	The Macros and optional arguments	7
3	The default use of floating environments	9
4	Caption width	10
4.1	Default – natural width	10
4.2	Relative linewidth	11
4.3	Identical object and caption width	12
4.4	caption width to height of the object	12
5	Caption left or right of the object	12
5.1	Caption right with specific length	13
5.2	Caption left and rotated	13
6	Caption inner or outer	14
7	Vertical Position of the Caption	16
8	Caption format	18
9	Horizontal Position of the Float	18
10	Wide floats	20
11	Margin floats	22
12	The star version <code>\hvFloat*</code>	23
13	Full Page Width in Landscape Mode	23
14	The <code>nonFloat</code> Option	25
15	Tabulars as Objects	27
16	Text and objects	28
17	Environment <code>hvFloatEnv</code>	29
18	Full page objects in onecolumn mode	30
18.1	Using the <code>textarea</code>	30
18.1.1	Using the default or <code>capPos=before</code>	30
18.1.2	Using <code>capPos=after</code>	33
18.1.3	Using <code>capPos=evenPage</code> — caption on an even page	34
18.1.4	Using <code>capPos=oddPage</code> — caption on an odd page	35
18.1.5	Using <code>capPos=inner</code> or <code>capPos=outer</code> — caption on the inner or outer side	35
18.2	Using the paper size	36
18.3	Multifloats	38
19	Subfloat page	40

20 Full page objects in twocolumn mode	42
20.1 Default setting	42
20.1.1 Using capPos=after	43
20.1.2 Using capPos=evenPage — caption on an even page	45
20.1.3 Using capPos=oddPage — caption on an odd page	46
20.1.4 Using capPos=inner — caption in the inner column	47
20.1.5 Using capPos=outer — caption on the outer column	48
20.2 Using full page in twocolumn mode	49
20.3 Multifloats	50
21 Subfloat page	51
22 Doublepage objects – images and/or tabulars	54
22.1 doubleFULLPAGE	54
22.2 doublePAGE	76
22.3 doublePage	80
22.4 Tabulars	92
23 References to the page	95
24 Defining a style	96
25 Global float setting	96
26 The Package Source	103

List of Tables

1	The Caption without sense ...	7
2	The optional keywords for the macro \hvFloat	8
3	With the only Option capPos=top to place the caption on top of the table, which is often the default.	10
4	22
5	Demonstration of the use0Box Parameter	28
6	Demonstration of the use0Box Parameter	29
7	A caption for a nice table	29
8	A caption for a nice table	30
9	Valid optional arguments for a full page object.	31
10	A doublepage tabular with a caption on the right side of the right part.	95

List of Figures

1	What a nice Caption :-)	1
2	Without any keywords (only the fbox package option)	9
3	Default caption width setting, which is the natural width with respect to the current linewidth.	10
4	Caption right beside with a <i>natural</i> width, which is given by the width of the object, the separation between object and caption, and the current linewidth. .	11
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.	11
6	Caption right beside with a width setting of $0.9\linewidth$ which is too big for this example and therefore corrected by the macro to the maximal width. . . .	12
7	Caption below with a width of the given object which may be a problem if it is a very small object.	12
8	Caption beside with a width of the given object height which may be a problem if it is a very small object.	13
9	Caption beside object and vertically centered	13
10	Centered Caption beside Object	14
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.	14
12	Centered Caption on the inner side	15
13	Centered Caption on the inner side	15
14	Centered Caption beside Object	16
15	Centered Caption beside Object	16
16	Caption at bottom right beside the float	17
17	Caption at top left beside the float	17
18	Caption centered right beside the float	17
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.	18

20	Caption at top right beside the float and object position left	19
21	Caption at top right beside the float and object position left	19
22	Caption at top left beside the float and object position right	19
23	Caption at top right beside the float and object position left and the option wide.	20
24	Caption at top left beside the object and object position left and the option wide.	20
25	Caption at top and inner beside the float and object position right and the option wide.	21
26	Caption at top inner beside the float and object position right and the option wide.	21
27	Caption at top inner beside the float and object position right and the option wide.	22
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.	22
29	22
30	Output of default1s2c (pages 2 –5)	23
31	Object and Caption in landscape mode	24
32	Rotated Caption in Landscape	26
33	Nonfloat Captions	27
34	Output of fullpage1s2c (pages 1–8)	31
35	Output of default1s1c (pages 2–9)	32
36	Output of after1s1c (pages 2–9)	33
37	Output of even1s1c (pages 2–9)	34
38	Output of odd1s1c (pages 2–9)	35
39	Output of paper-default1s1c (pages 2–9)	36
40	Output of paper-after1s1c (pages 2–9)	37
41	Output of multi-default1s1c (pages 4–11)	39
42	Output of multi-after1s1c (pages 4–11)	39
43	Output of sub-default1s1c (pages 4–11)	41
44	Output of sub-after1s1c (pages 4–11)	41
45	Output of default2s2c (pages 2–9)	42
46	Output of left2s2c (pages 2–9)	43
47	Output of after2s2c (pages 2–9)	44
48	Output of right2s2c (pages 2–9)	44
49	Output of even2s2c (pages 2–9)	45
50	Output of odd2s2c (pages 2–9)	46
51	Output of inner2s2c (pages 2–9)	47
52	Output of outer2s2c (pages 2–9)	48
53	Output of paper-default2s2c (pages 2–9)	49
54	Output of paper-inner2s2c (pages 2–9)	50
55	Output of multi-default2s2c (pages 2–9)	51
56	Output of multi-inner2s2c (pages 2–9)	52
57	Output of sub-default2s2c (pages 2–9)	53
58	Output of sub-after2s2c (pages 2–9)	53
59	A doublepage image with a caption on the image.	57
60	A doublepage image with a caption on the image.	62

List of Figures

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 <code>doubleFULLPAGE</code>	65
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 <code>doubleFULLPAGE</code>	70
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 <code>doubleFULLPAGE</code>	73
64	A <code>doublepage</code> image with a caption below the right part.	79
65	A <code>doublepage</code> image with a caption on the right side of the right part.	83
66	A <code>doublepage</code> image with a caption on the right side of the right part.	87
67	A <code>doublepage</code> image with a caption on the right side of the right part.	91
68	Caption at bottom right beside the float with a caption width of <code>0.5\columnwidth</code>	96
69	A float which needs the complete paper width and height.	97

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 `hvfloa` 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 `hvfloa` 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 `hvfloa`, 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:
\verb|\tabcaption[The Caption without sense ...]%
```

2 The Macros and optional arguments

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

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

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

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

There are the following keywords:

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

<i>Keyword</i>	<i>Default</i>	<i>Description</i>
<code>floatPos</code>	<code>tbp</code>	This is the same default placement setting as in standard \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 (l) eft, (c) enter, (r) 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>forceLeft</code>	<code>false</code>	In some cases a doublepage float starts on an odd page. With <code>forceLeft</code> it uses only one <code>\afterpage</code> instead of two to force a start on an even page.
<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}
```



Fig. 2

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

Code for figure 2:

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

Code for table 3:

```
1 \hvFloat[capPos=top]{table}{%
2 \begin{tabularx}{\textwidth}{>{\ttfamily}\l\l|X}
3 \rmfamily Name & Type & Description\\ \hline
4 \CMD{hvFloat} & command & places object and caption in different ways\\
5 hvFloatEnv & environment & places object and caption exactly Here\\
6 \CMD{figcaption} & command & writes a figure caption in a non floating environment\\
```

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

```

7  \CMD{\tabcaption} & command & writes a table caption in a non floating environment\
8  \CMD{\hvFloatSetDefaults} & command & sets all options to the defaults\
9  \CMD{\hvDefFloatStyle} & command & define a user style
10 \end{tabularx}}%
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}

```

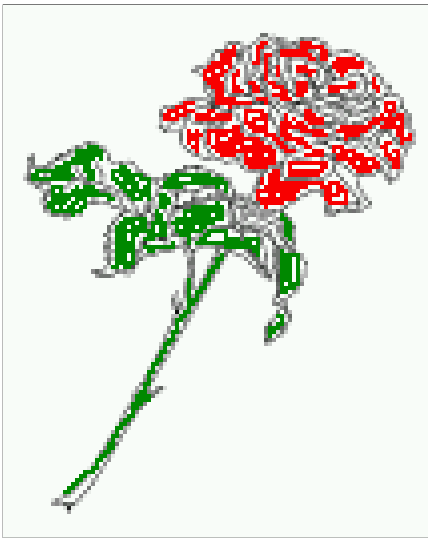


Figure 4: Caption right beside with a *natural* width, which is given by the width of the object, the separation between object and caption, and the current linewidth.

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

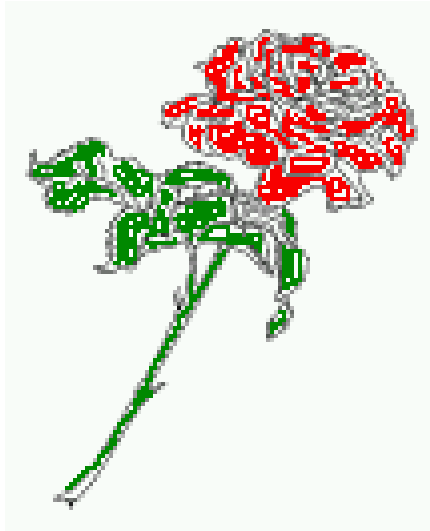


Figure 6: Caption right beside with a width setting of 0.9\linewidth w for this example and therefore corrected by the macro to the maxima

4.3 Identical object and caption width

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

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

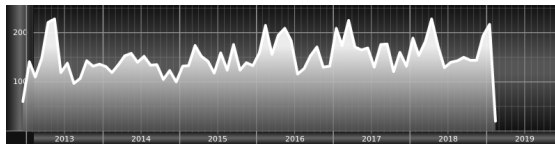


Figure 7: Caption below with a width of the given object which may be a problem if it is a very small object.

4.4 caption width to height of the object

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

```
1 \hvFloat[floatPos=!htb, capPos=after, capWidth=h, capAngle=90, objectFrame]{figure}{\
2 includegraphics{images/rose}}%
3 {Caption beside with a width of the given object height which may be a problem
4 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.



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

5.1 Caption right with specific length

Code for figure 9:

```

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. float
capPos=right

5.2 Caption left and rotated

Code for figure 10:

```

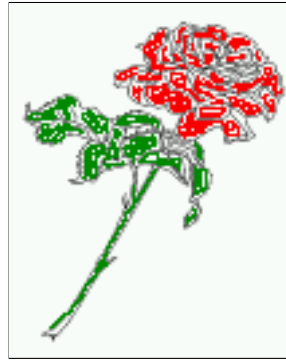
1 \hvFloat%
2 [floatPos=htb,
3   capPos=left,
4   capWidth=h,% of \columnwidth
5   capAngle=90,
6   objectFrame
7 ]{figure}{\includegraphics{images/rose}}%
8 [Centered Caption beside Object]%
9 {Caption vertically centered left beside the float with a caption width
10  of \texttt{capWidth=h}, which is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

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.



(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.

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}

```

Fig. 12

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



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

Now the same Image with `capPos=outer`. The current page number 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.

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

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

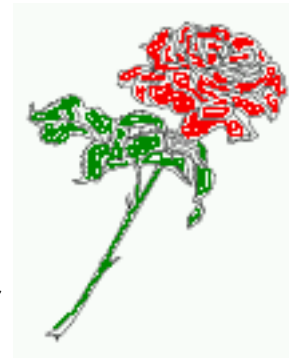


Figure 14: Caption at the bottom right beside the float with a caption width of 0.5\columnwidth and $\text{capPos}=\text{outer}$.

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

Code for figure 15:

```

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

```

Fig. 15



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

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}

```




Figure 16: Caption at bottom right beside the float

The code for figure 17:

Fig. 16

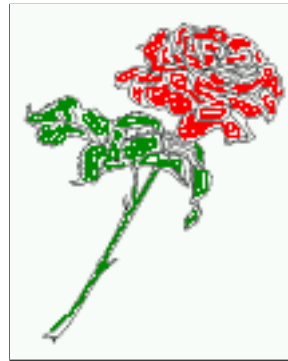
```

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

```

Fig. 18

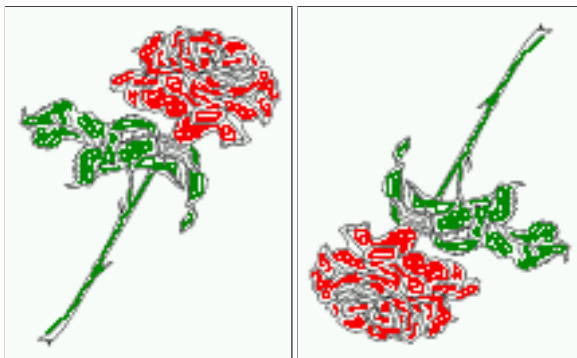


Figure 18: Caption centered right beside the float

8 Caption format

The `\caption` and `\subcaption` macros are fully under the control of the package `caption`. The formatting can be set with the macros `\captionsetup`, `\subcaptionsetup`, or via the optional argument setting of `\hvFloat` with the keywords `capFormat` and `subcapFormat`. The argument itself will then be used internally by `\captionsetup` and/or `\subcaptionsetup` in a minipage, the reason why it will be local to the current image..

```

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

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

The same with `capPos=left` :

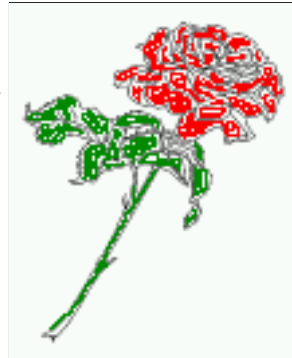
Fig. 21

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



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

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



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

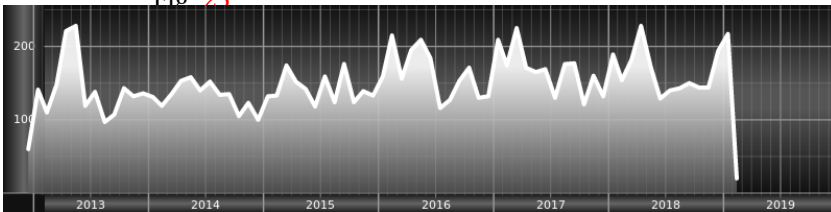


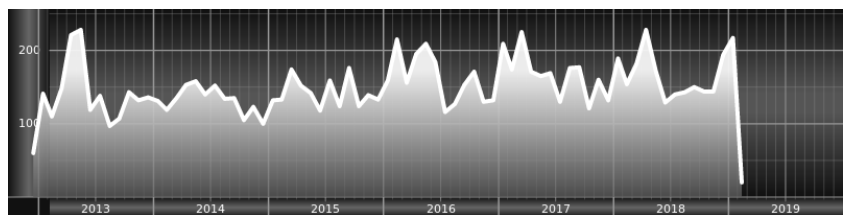
Figure 23: Caption at top right beside the float and object position left and the option `wide`.

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.

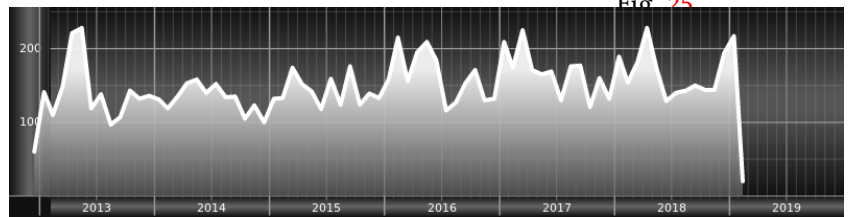
```
1 \hvFloat[wide,
2   capPos=inner,
```

```

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`.

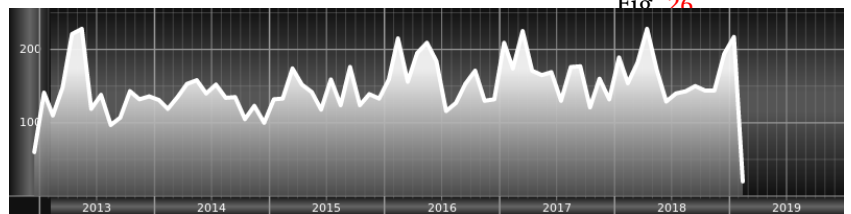
Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! 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}

```

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`.

Fig. 27

```

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

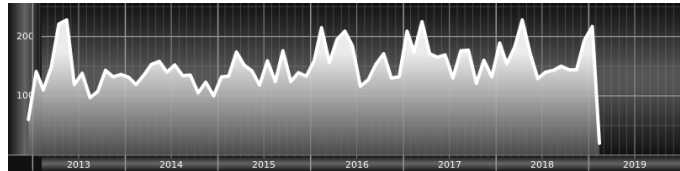
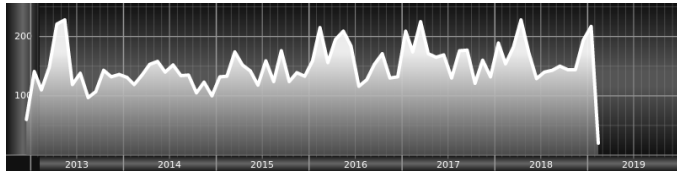
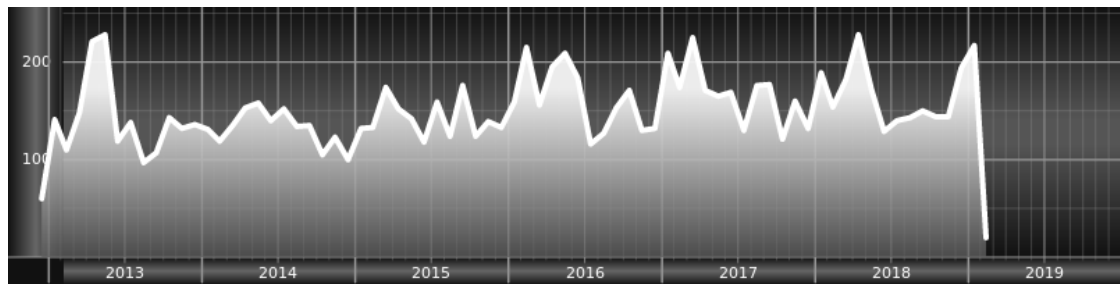


Figure 28: Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift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



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

```

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.}
{thea2}

```

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

Mon	Di	Mi
frei	Dienst	frei
Dienst	Dienst	Frei

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

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.

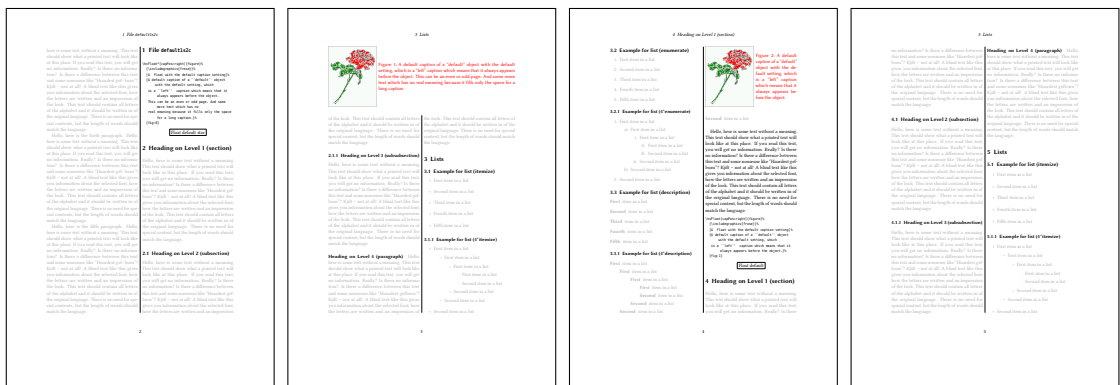


Figure 30: Output of default1s2c (pages 2 –5)

13 Full Page Width in Landscape Mode

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

Fig. 31

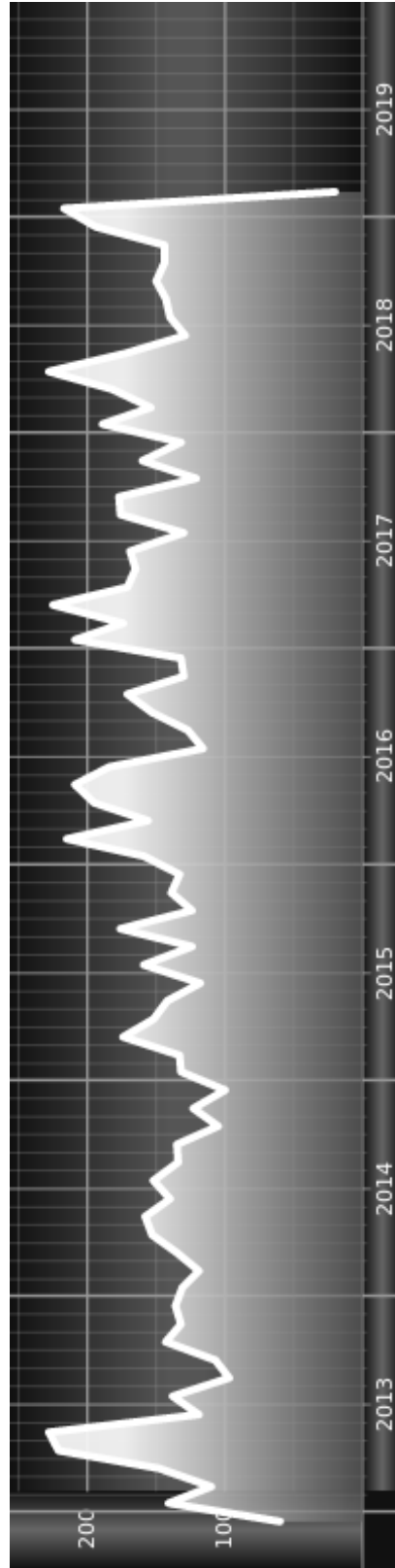


Figure 31: Caption and object in landscape mode. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense 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.

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 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.

Fig. 32

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. 33

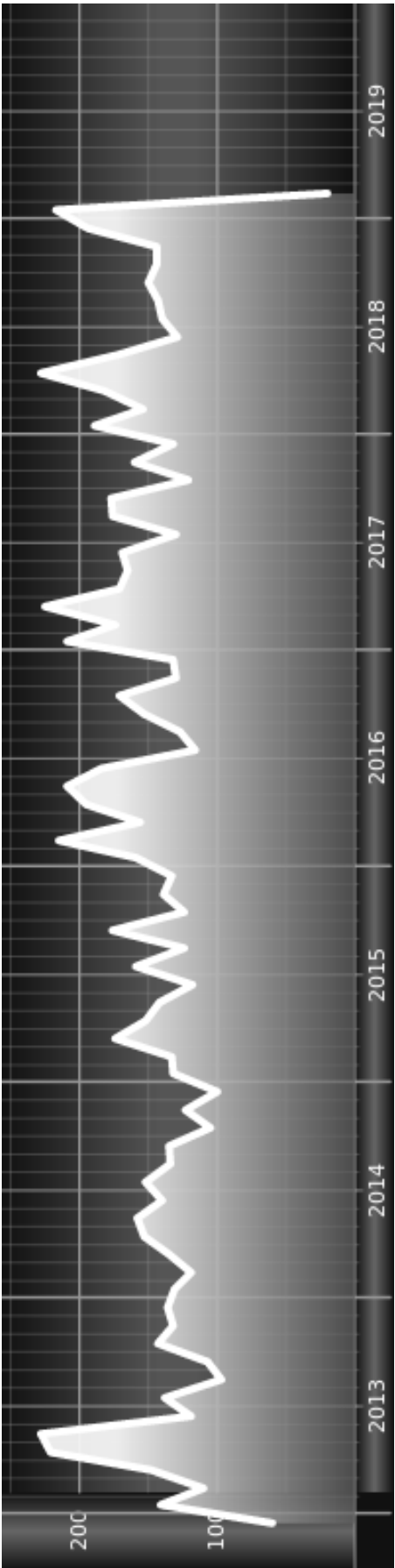


Figure 32: Caption right beside the float and object position left. The caption rotated by -90 degrees. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? 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.

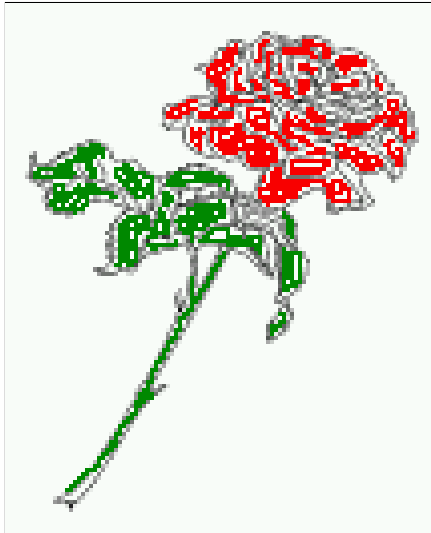


Figure 33: Caption of a “nonfloat” Object, using the nonfloat Package

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\@capytype{figure}\caption}
\newcommand{\tabcaption}{\def\@capytype{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

```

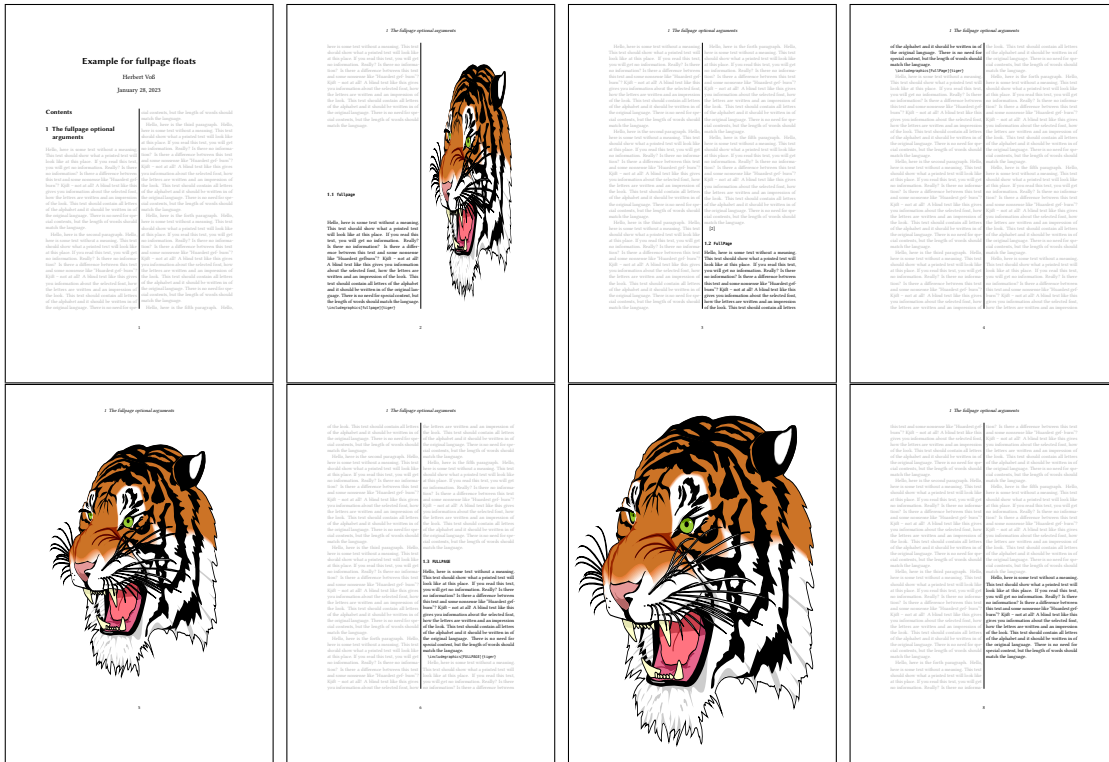


Figure 34: Output of fullpage1s2c (pages 1–8)

```

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.

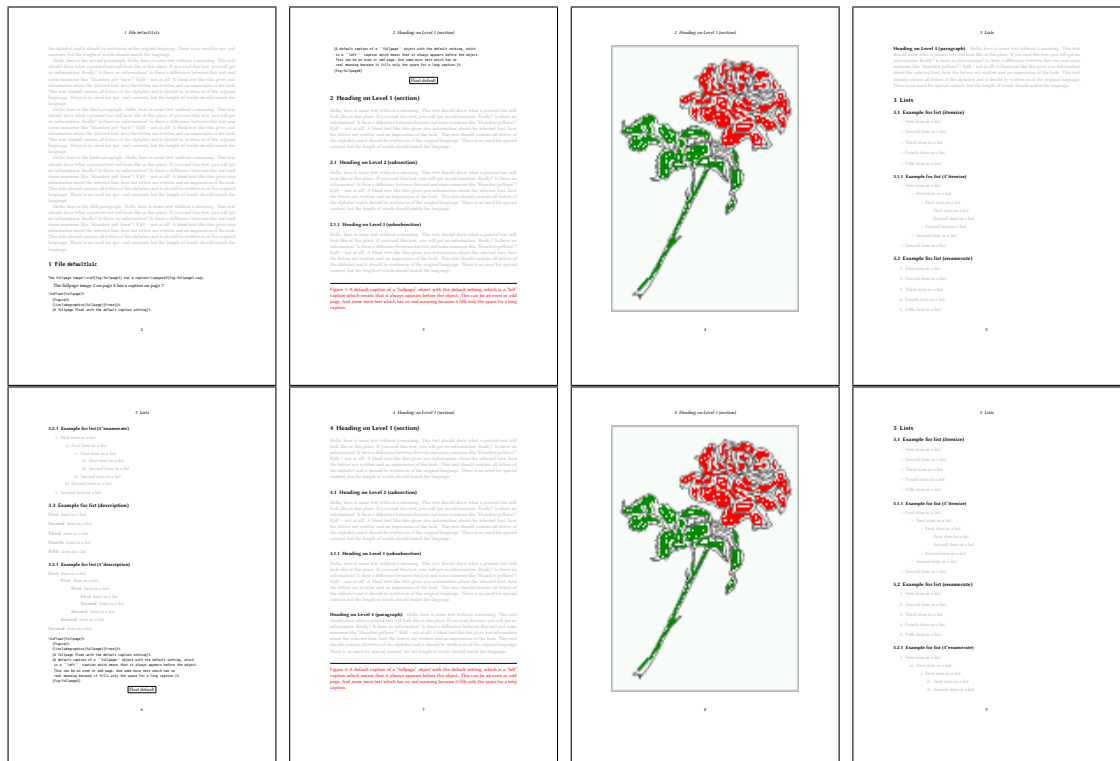


Figure 35: Output of default1s1c (pages 2–9)

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}
    
```

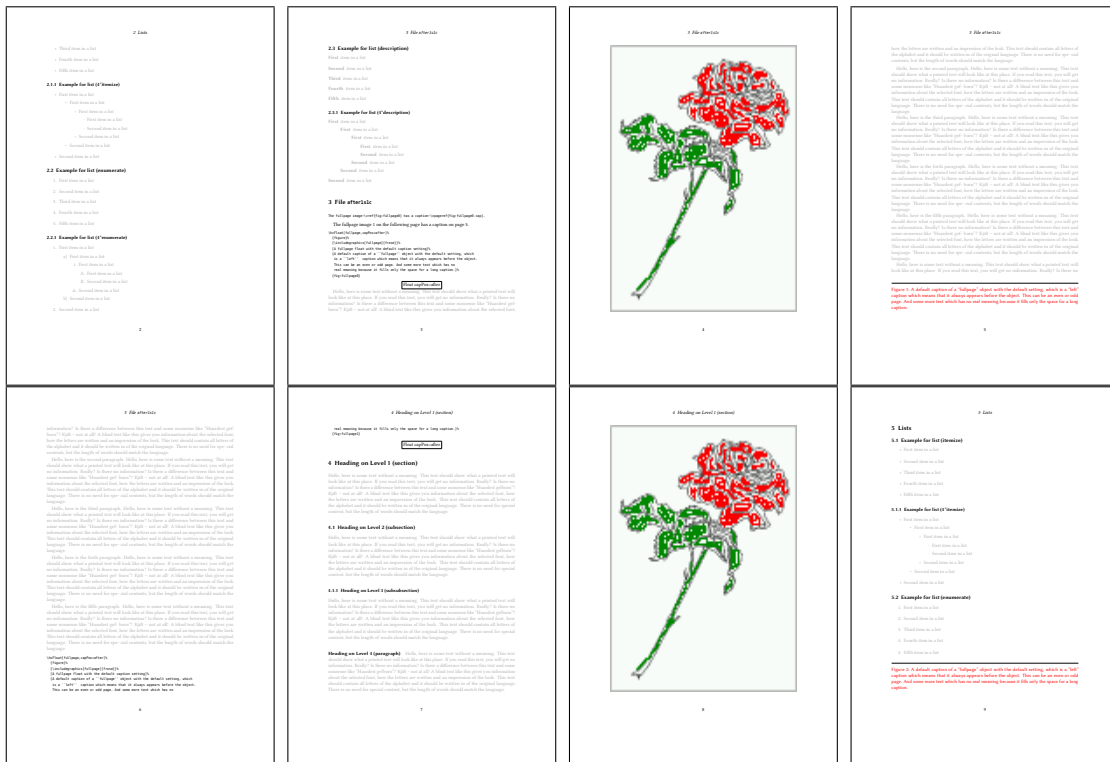


Figure 36: Output of after1s1c (pages 2-9)

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}
    
```

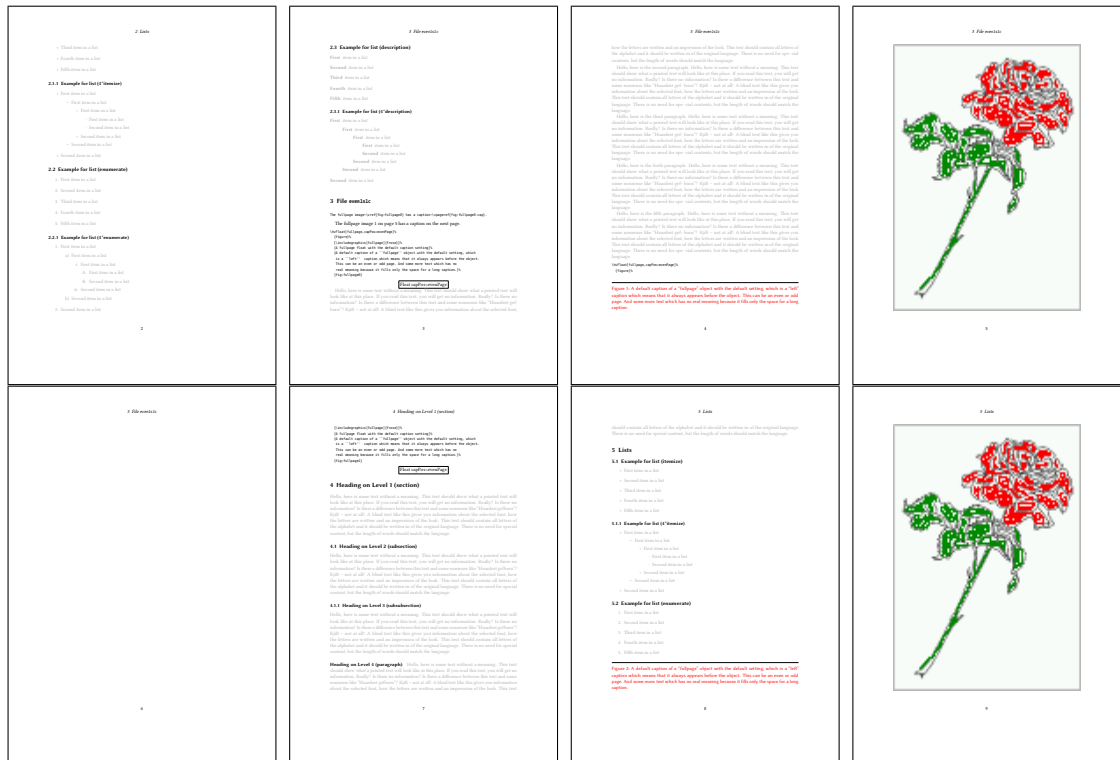


Figure 37: Output of even1s1c (pages 2–9)

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}

```

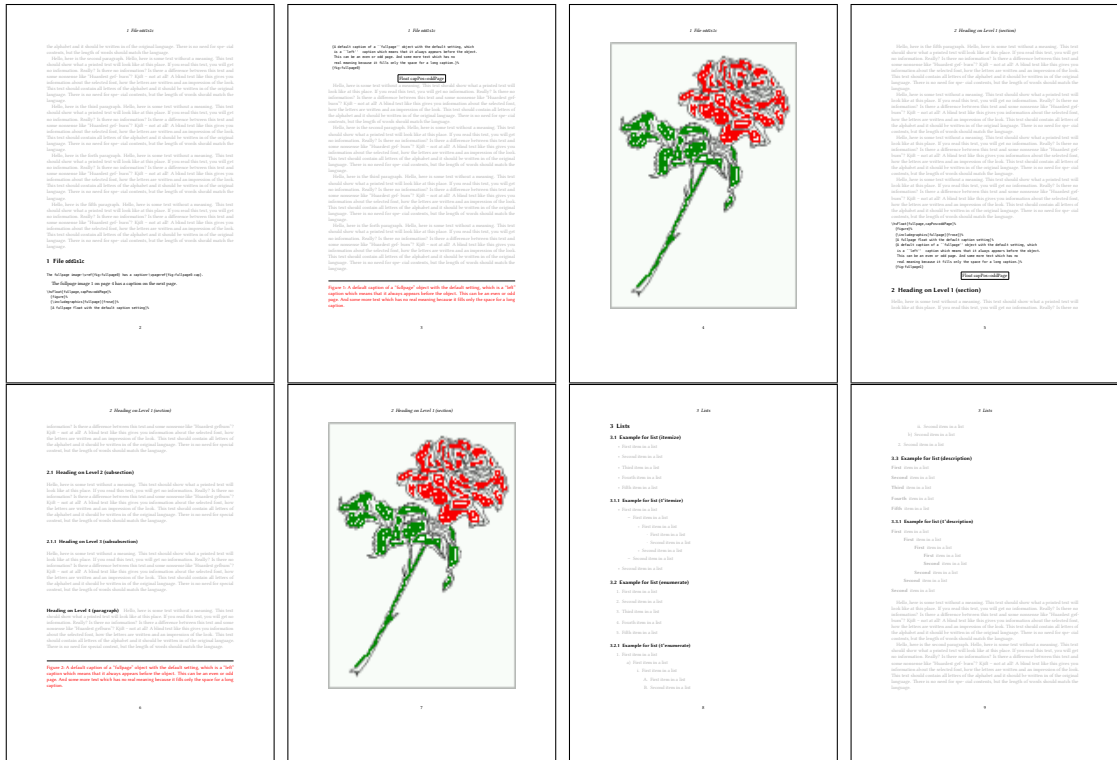


Figure 38: Output of odd1s1c (pages 2-9)

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]{frose.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}

```

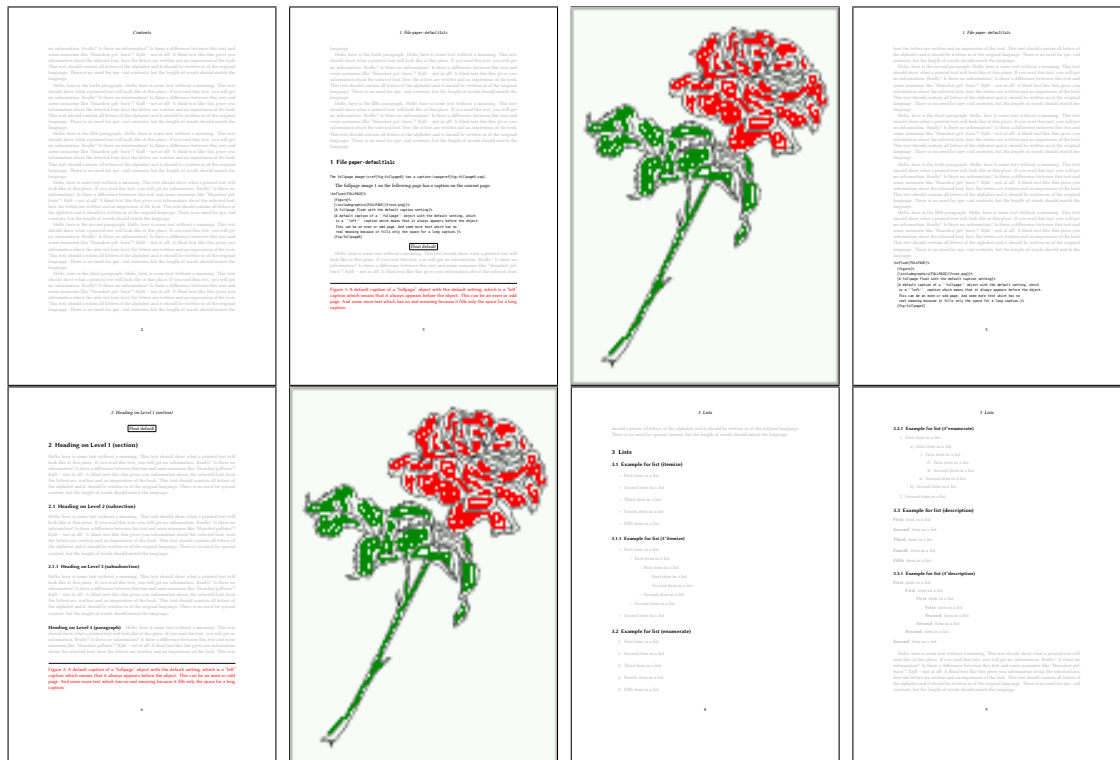


Figure 39: Output of paper-default1s1c (pages 2-9)

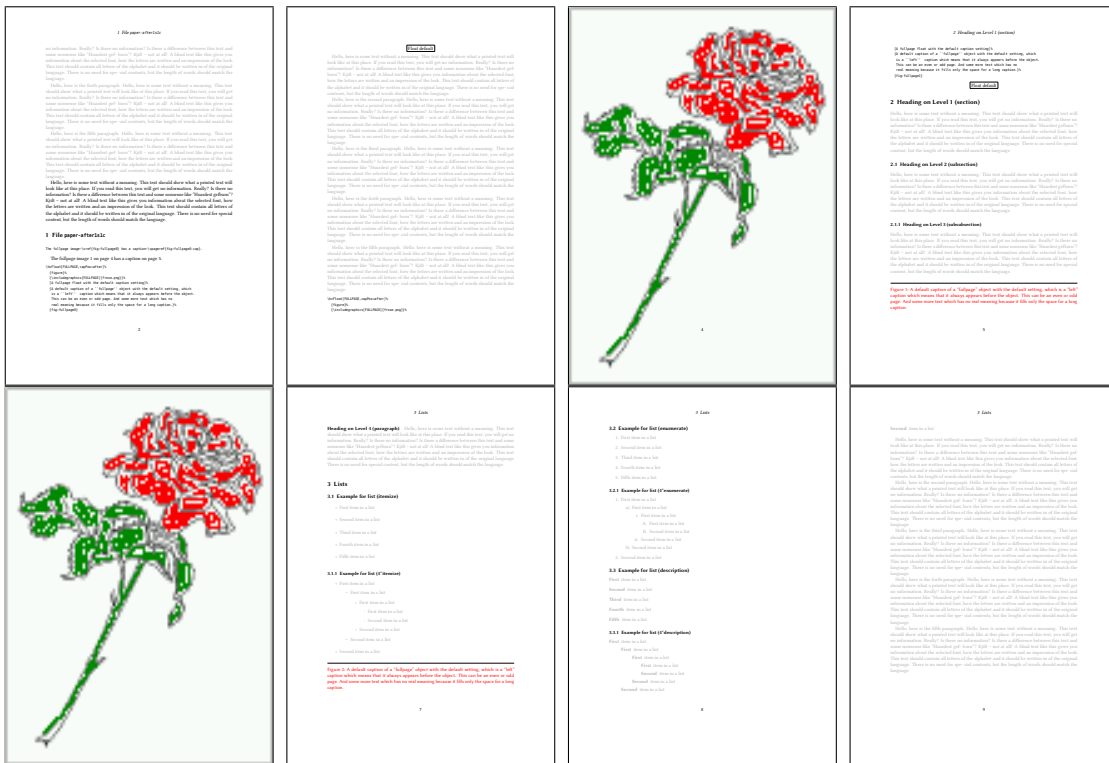


Figure 40: Output of paper-after1s1c (pages 2-9)

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.

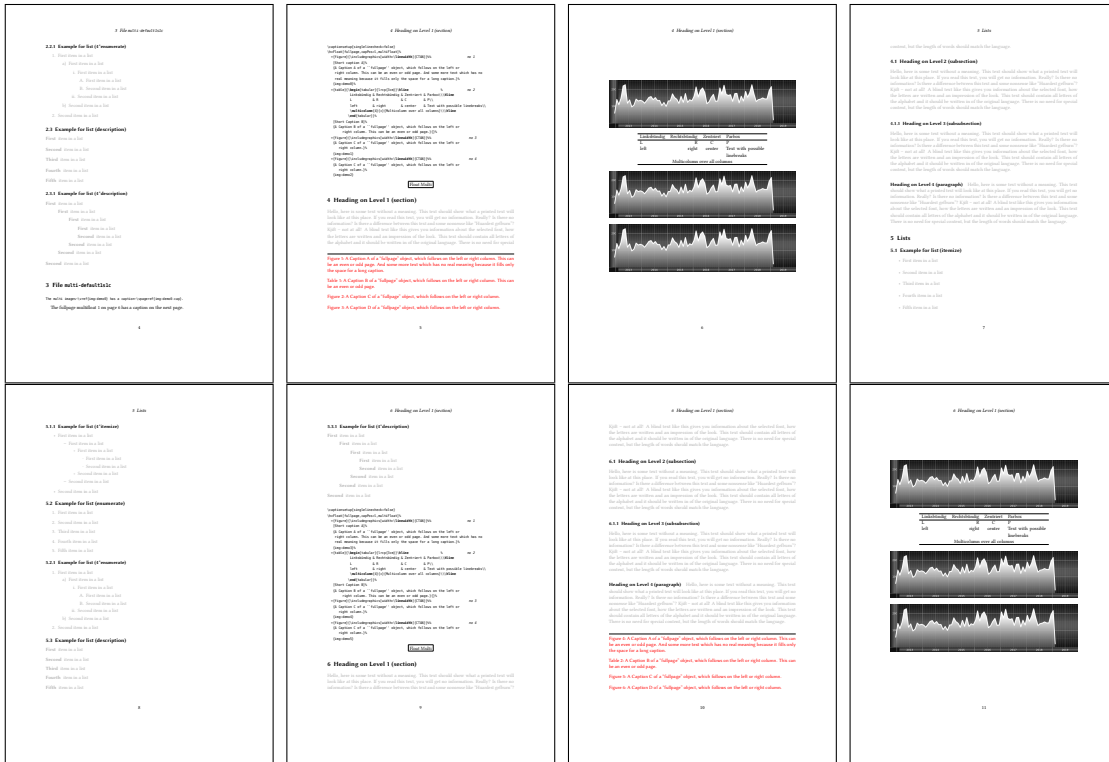


Figure 41: Output of multi-default1s1c (pages 4–11)

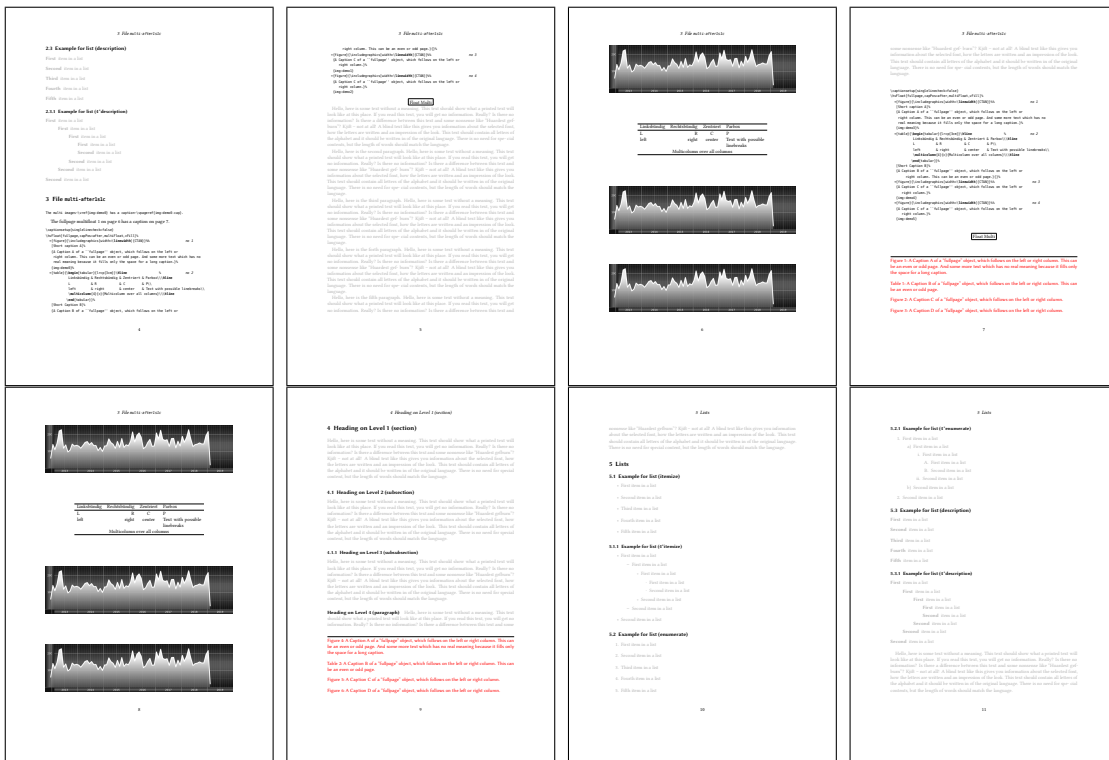


Figure 42: Output of multi-after1s1c (pages 4–11)

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]`.

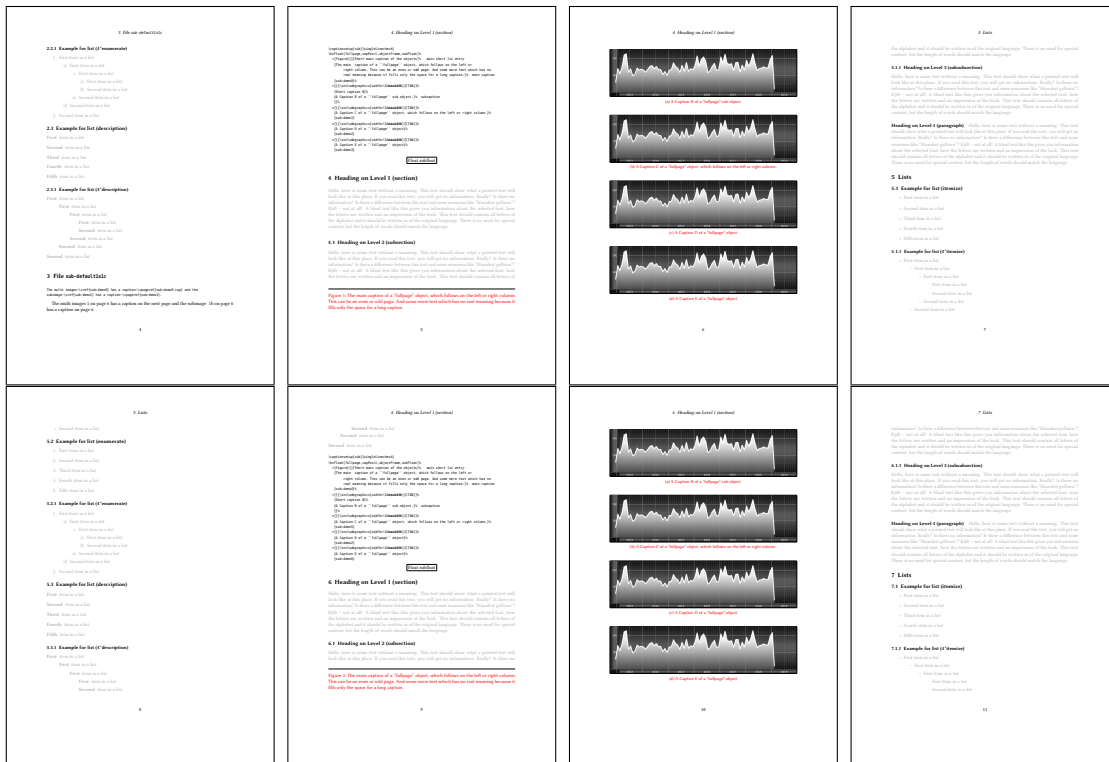


Figure 43: Output of sub-default1s1c (pages 4–11)

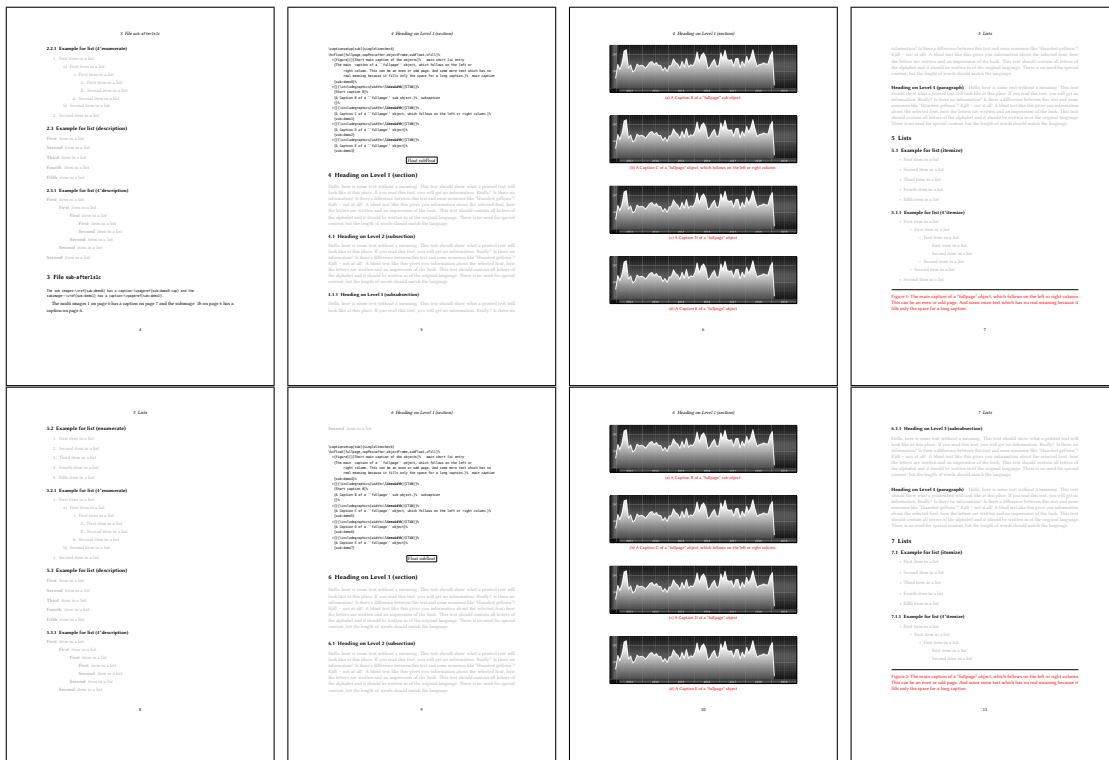


Figure 44: Output of sub-after1s1c (pages 4–11)

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).

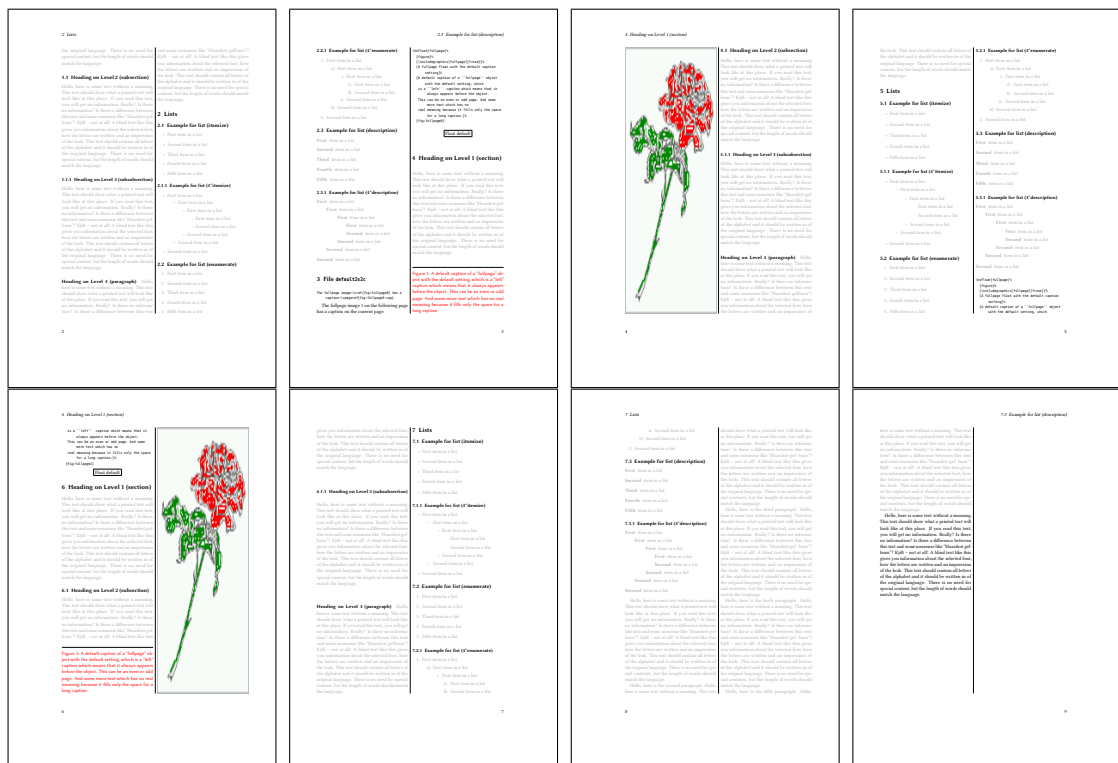


Figure 45: Output of default2s2c (pages 2–9)

```

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

The example 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).

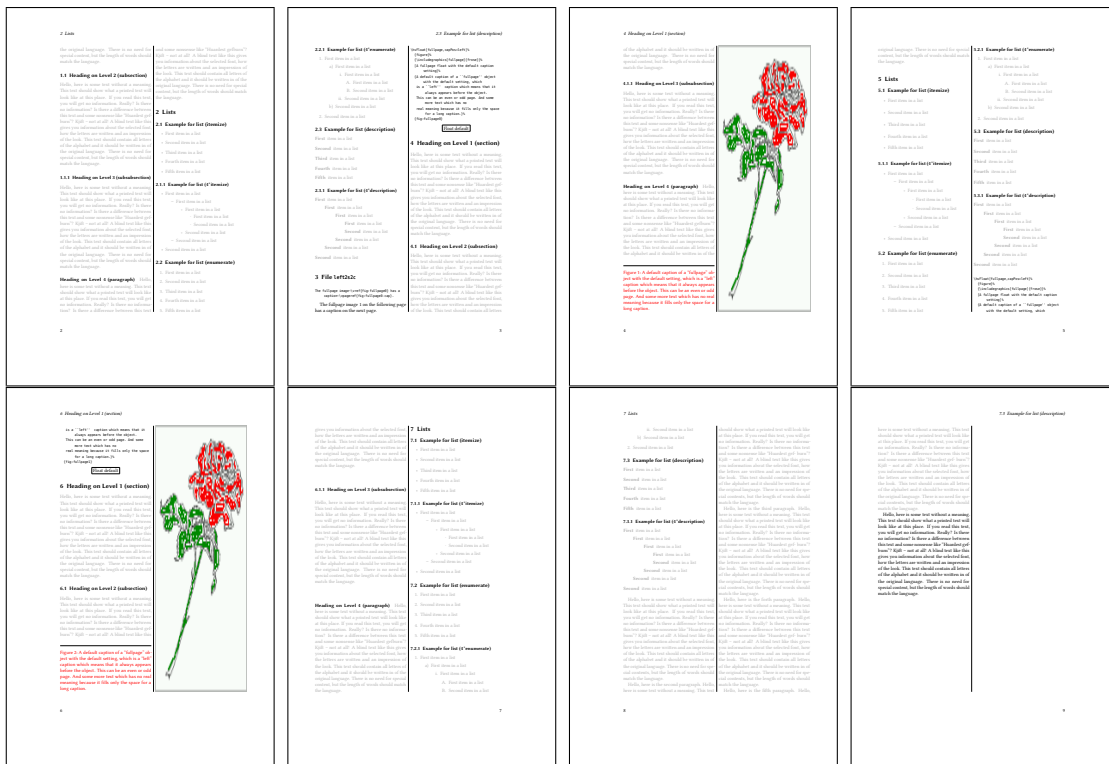


Figure 46: Output of left2s2c (pages 2–9)

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.

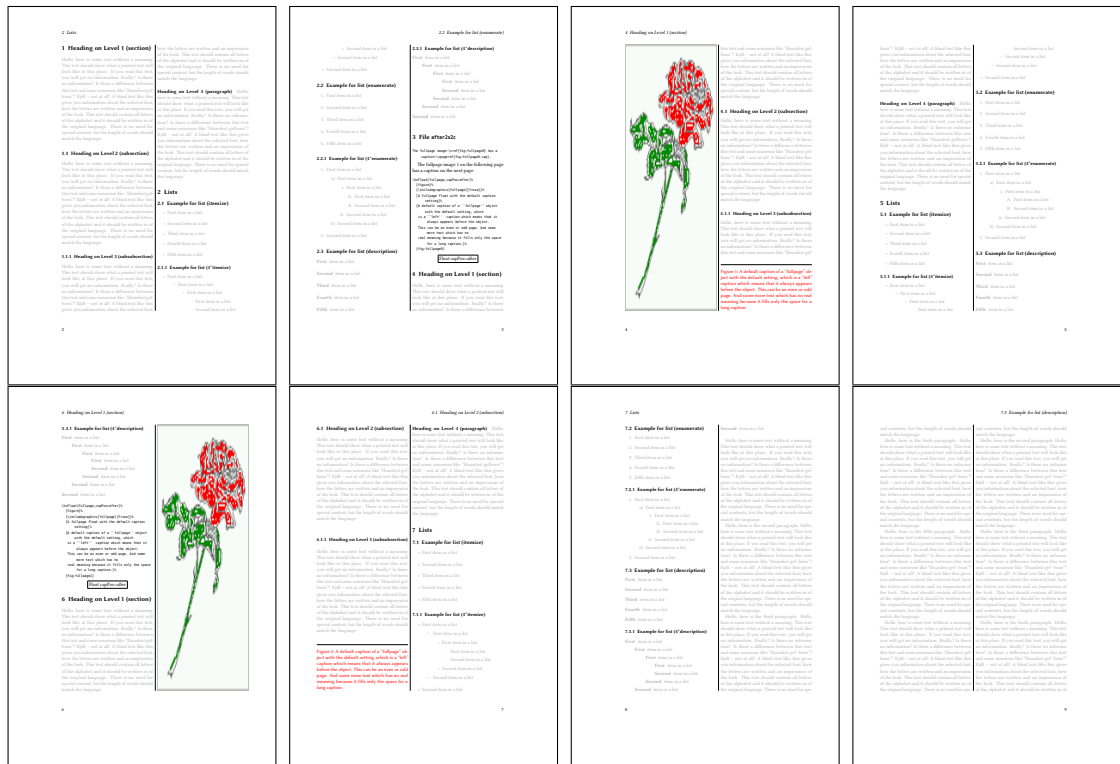


Figure 47: Output of after2s2c (pages 2–9)

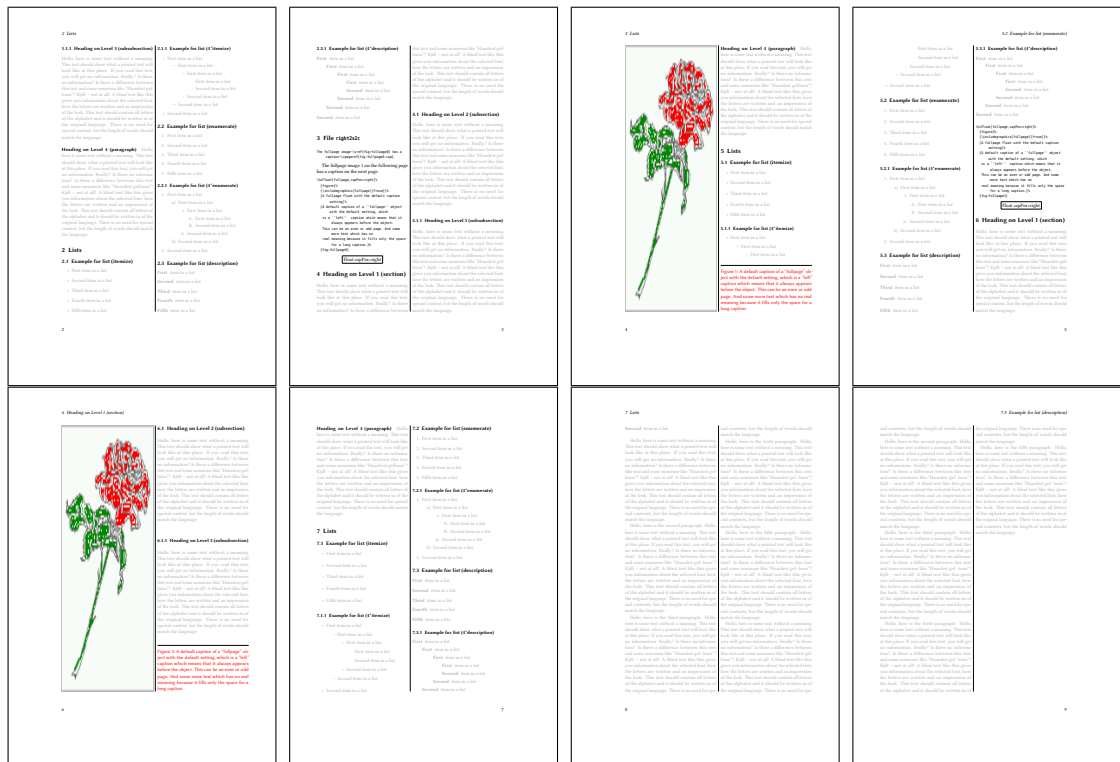


Figure 48: Output of right2s2c (pages 2–9)

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.

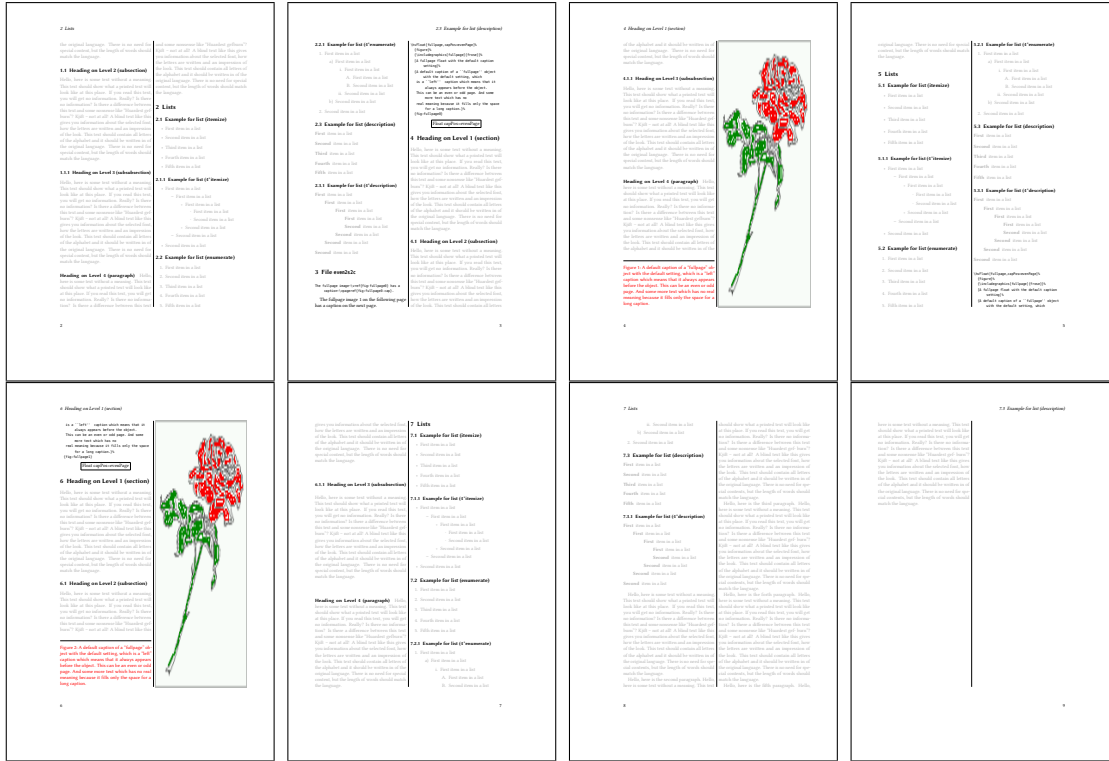


Figure 49: Output of even2s2c (pages 2–9)

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.

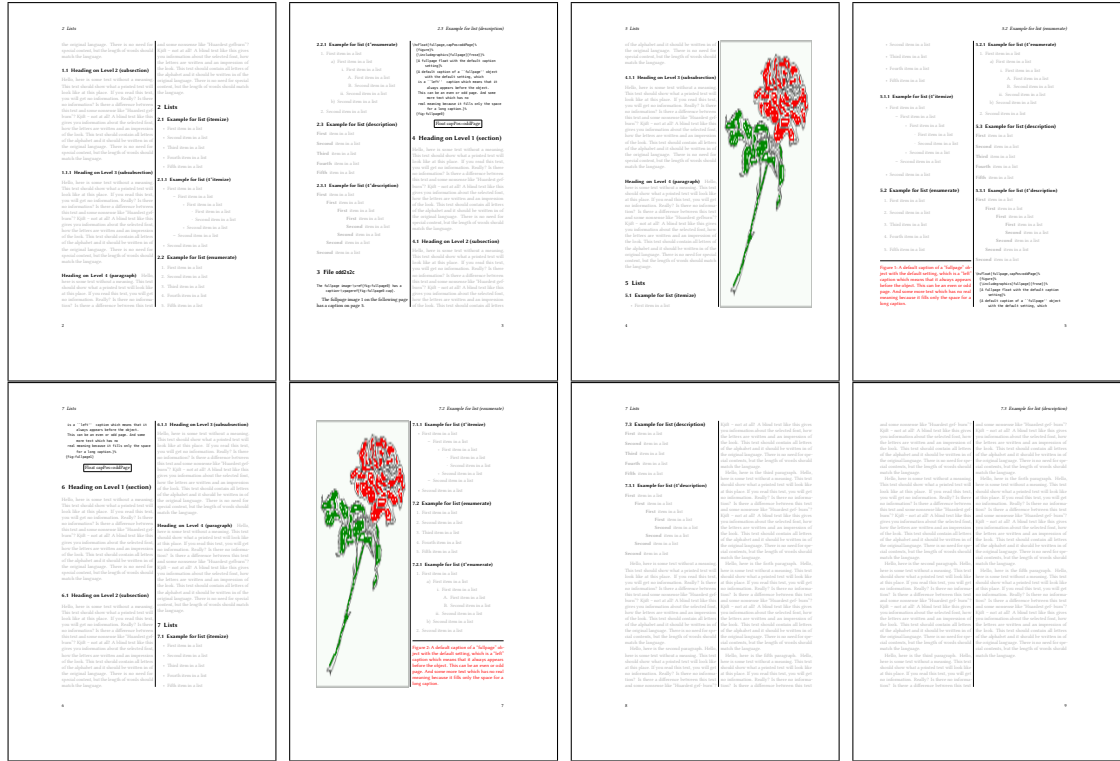


Figure 50: Output of odd2s2c (pages 2–9)

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

```

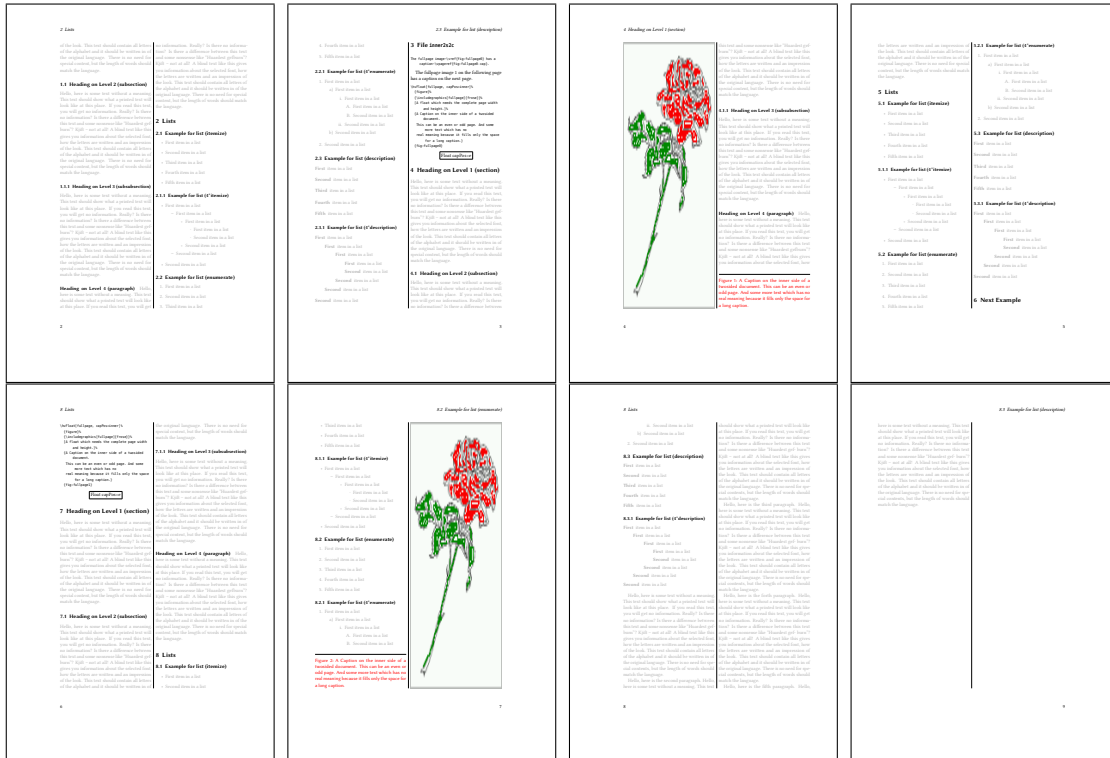


Figure 51: Output of inner2s2c (pages 2–9)

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}
    
```

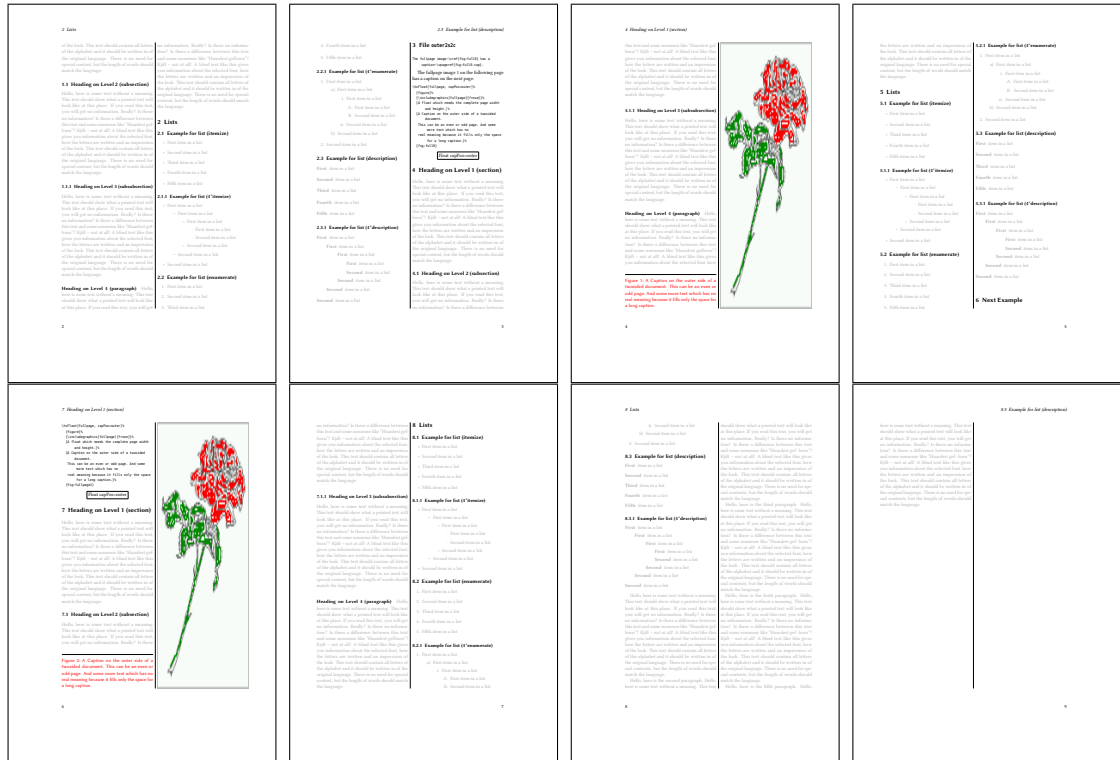


Figure 52: Output of outer2s2c (pages 2–9)

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}

```

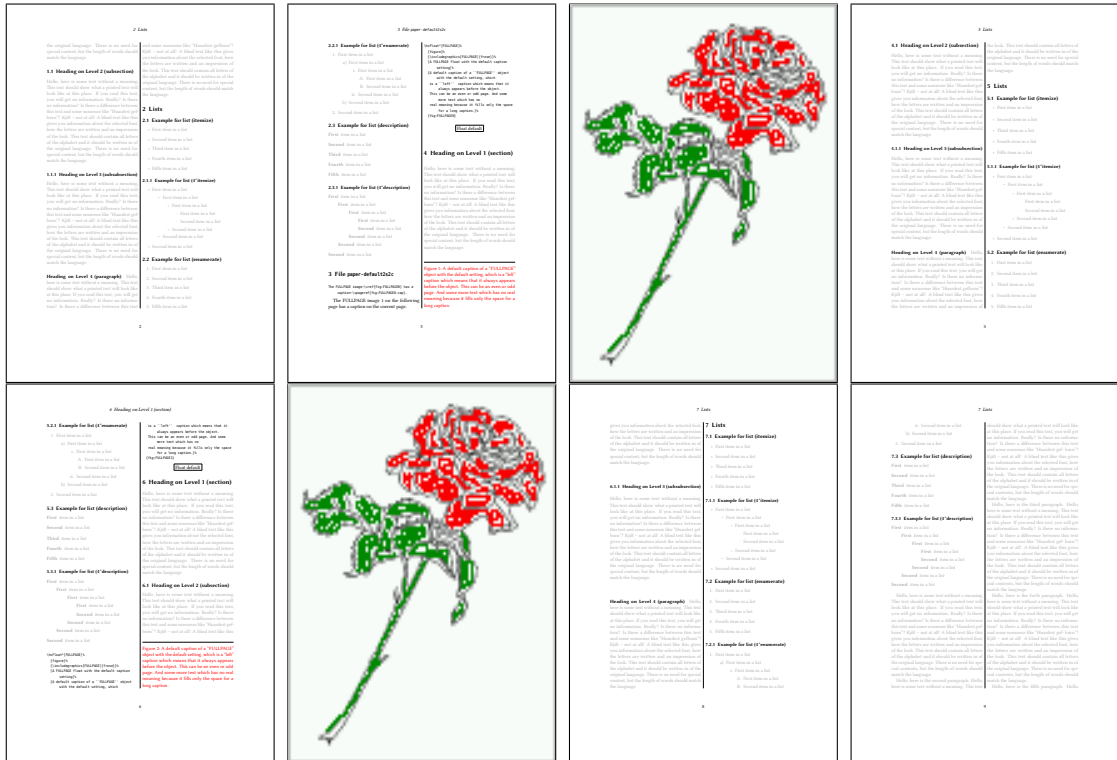


Figure 53: Output of paper-default2s2c (pages 2–9)



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.

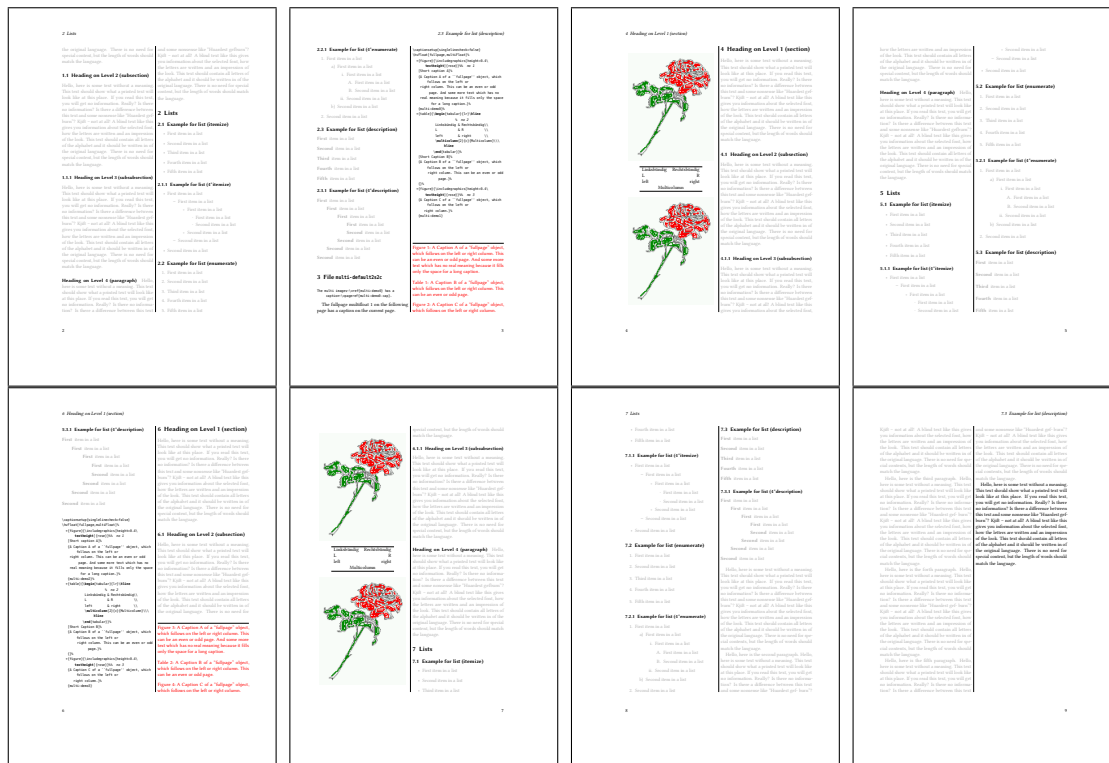


Figure 55: Output of multi-default2s2c (pages 2-9)

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}

```

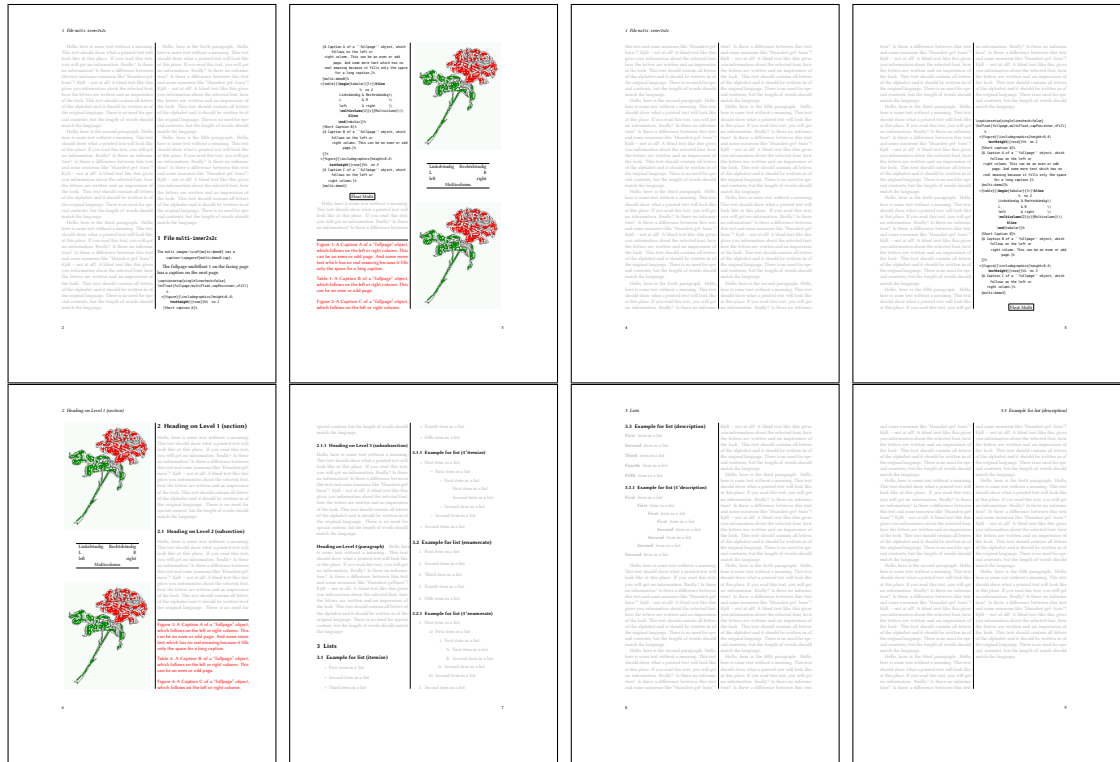


Figure 56: Output of multi-inner2s2c (pages 2-9)

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).

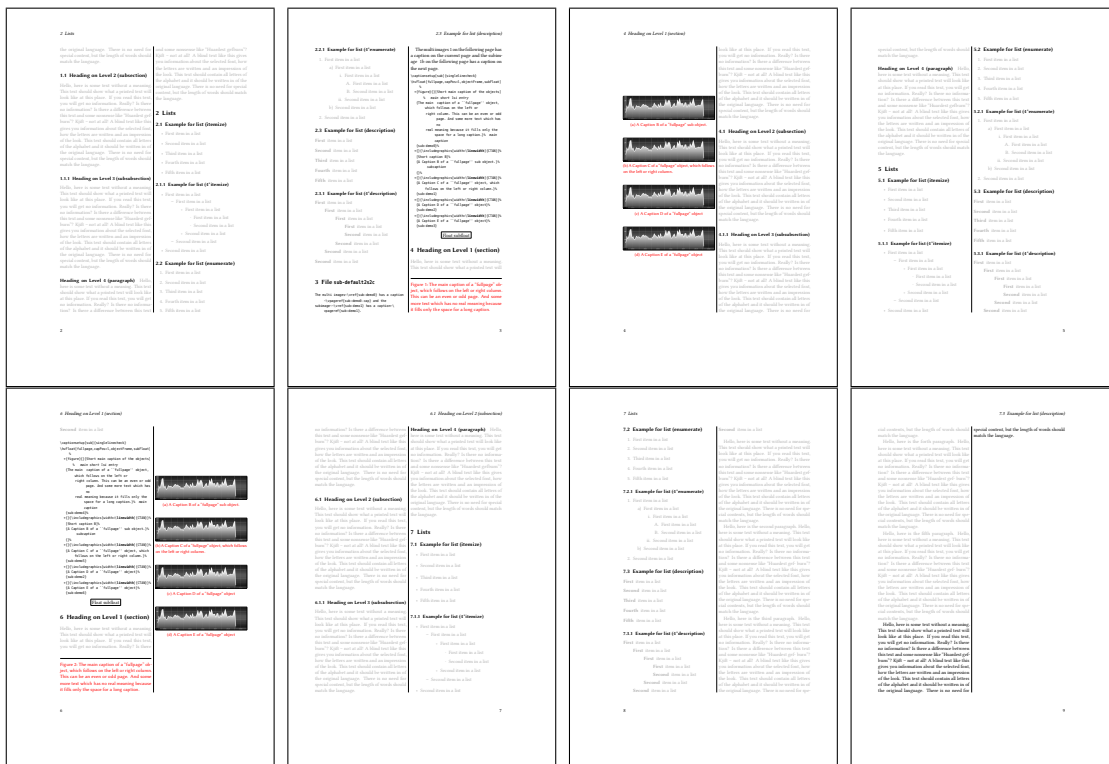


Figure 57: Output of sub-default2s2c (pages 2–9)

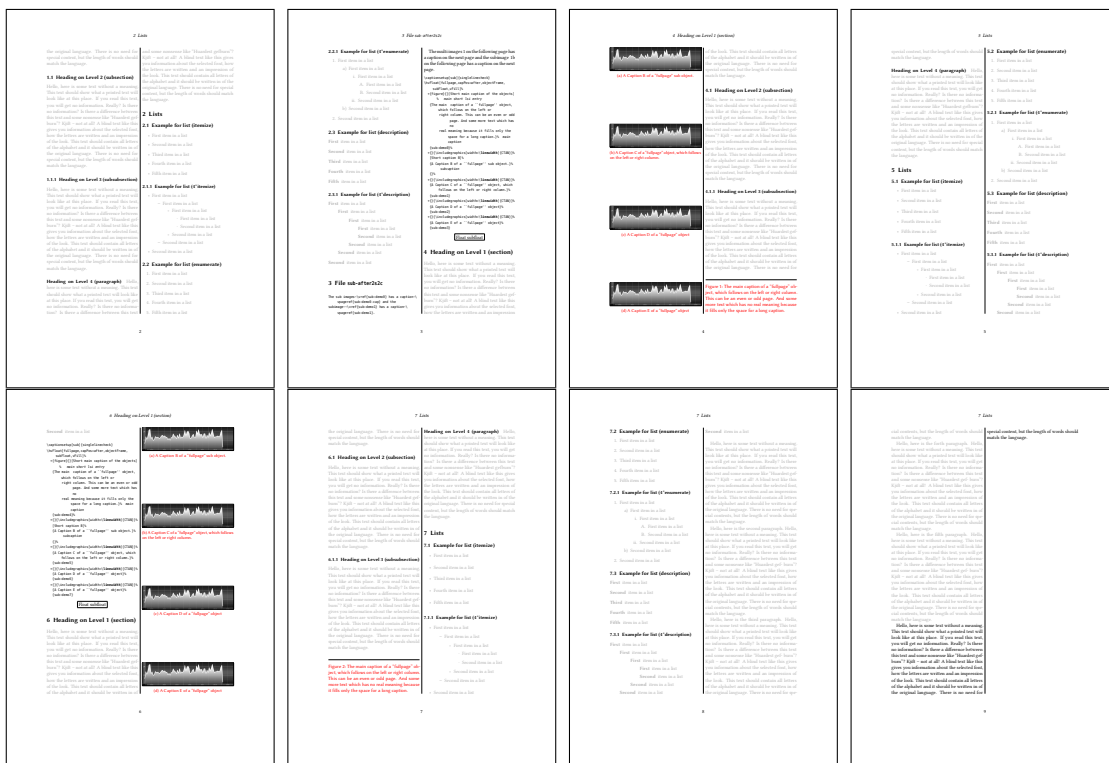


Figure 58: Output of sub-after2s2c (pages 2–9)

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\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\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}

```

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Fig. 60

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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`

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```

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

```

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Fig. 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 following example 62 the caption is on page 70, the left image part on page 68 and the right part on page 69. In the following 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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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}

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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.

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

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Fig. 64

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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.

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

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Figure 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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Fig. 66

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

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1 \hvFloat[doublePage,bindCorr=inner]%
2 {figure}%
3 {\includegraphics[width=2\textwidth]{images/sonne-meer}}%
4 [A doublepage image with a caption on the right side of the right part.]%
5 {A caption for a double-sided image that will be placed on the right side of the
6 right-hand part of the illustration. The illustration begins on the left edge of
7 the paper. A short form is used for the LOF.
8 The parameter is \texttt{doublePage}}%
9 {fig:doublePage@sh2}

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Fig. 67

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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 & 0 & 2 & 1 & 3 & 4 & 4 & 6 & 4 & 2 \\ \addlinespace[3pt]
10 Zeile 3 & 2 & 1 & 2 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 5 & 3 & 1 & 7 & 7 & 3 \\ \addlinespace[3pt]
11 Zeile 4 & 1 & 0 & 5 & 1 & 2 & 0 & 0 & 0 & 0 & 0 & 2 & 1 & 0 & 1 & 0 & 3 & 7 & 2 & 1 \\ \addlinespace[3pt]
12 Zeile 6 & 2 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 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 & 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}

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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:

25 Global float setting

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

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


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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



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Index

A

\abovecaptionskip (skip), 7
\addtolength, 7
after (value), 8, 31, 33, 43, 67
afterpage (package), 7
\afterpage, 9
atbegshi (package), 7

B

before (value), 8, 12, 30ff, 42, 67
\belowcaptionskip (skip), 7
bottom (value), 8

C

capAngle (keyword), 8
capFormat (keyword), 9, 18
capHPos (keyword), 21
capPos (keyword), 8, 14f, 18, 21, 30–35, 42f, 45–49, 67, 95
capVPos (keyword), 8
capWidth (keyword), 8, 11f, 21
caption (package), 7, 9
\caption, 9, 18
caption (package), 18
\captionof, 29
\captionsetup, 18, 38, 40, 51
center (value), 8
\clearpage, 45f
\columnwidth, 8
\columnwidth (length), 11

D

doubleFULLPAGE (keyword), 9, 54
doublePAGE (keyword), 9, 54, 76
doublePage (keyword), 9, 54, 80

E

evenPage (value), 8, 30f, 34, 45
expl3 (package), 7

F

FULLPAGE (keyword), 9, 30f, 36
false (value), 38, 51
fbox (package option), 7
\fbox, 7
\figcaption, 7, 10, 28f
figure (environment), 9f, 27
float (package), 27

floatCapSep (keyword), 8, 10, 18
\floatCapSep (length), 18
floatPos (keyword), 8, 23
floatpag (package), 7
forceLeft (keyword), 9
\frame, 10
FullPage (keyword), 9, 30
fullpage (keyword), 9, 30f, 95

G

graphicx (package), 7

H

h (value), 12
\hvDefFloatStyle, 8, 10, 96
\hvFloat, 7f, 10, 18, 27ff, 38, 40
\hvFloat*, 23
hvFloatEnv (environment), 10, 29
\hvFloatSet, 7
\hvFloatSetDefaults, 7, 10, 28f
\hv0Box, 27, 92
hvfloat (package), 7, 30, 45f
\hvfloat, 36, 49
hvfloat-fps (package), 96
hypcap (package option), 7
hyperref (package), 7
hyperref (package option), 7

I

ifoddpage (package), 7
inMargin (keyword), 9, 22
\includegraphics, 36
\includgraphics, 30
inner (value), 8, 14, 30, 35, 47, 49

K

Keyword

- capHPos, 21
- capPos, 14f, 18, 21, 30, 32–35, 42f, 45–49
- capWidth, 12, 21
- floatPos, 23
- objectPos, 18, 23
- singlelinecheck, 38, 51

L

l (value), 21, 23
left (value), 8, 12, 18, 30, 42
\linewidth (length), 11

Index

`\listoffigures`, 7

`lscap` (package), 23

M

`\marginnote`, 22

`\marginparwidth` (length), 8, 20

`multiFloat` (keyword), 31

`multido` (package), 7

N

`nonFloat` (keyword), 7f, 25

`nonfloat` (package), 25

`nonfloat` (keyword), 28

`nostfloats` (package option), 7

O

`objectAngle` (keyword), 8

`objectFrame` (keyword), 9f

`objectPos` (keyword), 8, 18, 23

`oddPage` (value), 8, 30f, 35, 46

`onecolumn`, 35

`oneside`, 31

`onlyText` (keyword), 8, 28

`outer` (value), 8, 14f, 21, 30, 35, 48

P

`p` (value), 23

`\pageref`, 95

`\paperheight` (length), 36

`\paperwidth` (length), 36

`pdfscape` (package), 23

R

`right` (value), 8, 21, 43

`rotAngle` (keyword), 8

`\rotatebox`, 14

S

`sameHeight` (keyword), 9

`separatorLine` (keyword), 31

`\setlength`, 7

`singlelinecheck` (keyword), 38, 40, 51f

`stfloats` (package), 7

`style` (keyword), 9

`subFloat` (keyword), 31, 40, 52

`subcapFormat` (keyword), 9, 18

`\subcaption`, 9

`subcaption` (package), 7, 40, 52

`\subcaption`, 18

`\subcaptionsetup`, 18

T

`\tabcaption`, 7, 10, 28f

`\tabcaptionbelow`, 7

`table` (environment), 9f, 27

`\textwidth` (length), 8, 29

`top` (value), 8

`twocolumn` (package option), 30, 42

`twocolumn`, 23, 30, 42

`twoside` (package option), 34, 42

`twoside`, 14

U

`use0Box` (keyword), 8, 27

V

`vFill` (keyword), 9

Value

- after, 33, 43

- before, 30, 32, 42

- evenPage, 30, 34, 45

- false, 38, 51

- h, 12

- inner, 14, 30, 35, 47, 49

- l, 21, 23

- left, 18, 30, 42

- oddPage, 30, 35, 46

- outer, 14f, 21, 30, 35, 48

- p, 23

- right, 21, 43

- w, 12

`varioref` (package), 95f

`\vfill`, 9

W

`w` (value), 12

`wide` (keyword), 8, 10, 20

X

`xkeyval` (package), 7

26 The Package Source

```
1 %% $Id: hvfloat.sty 675 2023-01-27 21:48:40Z herbert $
2 %%
3 %%
4 %% IMPORTANT NOTICE:
5 %%
6 %% This is file `hvfloat.sty',
7 %%
8 %% Herbert Voss <hvoss@tug.org>
9 %% Copyright (C) 2003-23
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{2.45}
20 \def\filedate{2023/01/28}
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 \newif\ifhv@forceLeft \hv@forceLeftfalse
29
30 \DeclareOption{fbox}{\hv@fboxtrue\setlength\fbboxsep{1pt}}
31 \DeclareOption{hyperref}{\hv@hyperreftrue}
32 \DeclareOption{nostfloats}{\hv@nostfloatstrue}
33 \DeclareOption{no-stfloats}{\hv@nostfloatstrue}
34
35 \ProcessOptions
36
37
38 \PassOptionsToPackage{hypcap}{caption}
39 \RequirePackage{caption}
40 \RequirePackage{varwidth}
41 \DeclareCaptionBox{varwidth}{\varwidth[b]{#1}#2\endvarwidth}
42
43 \PassOptionsToPackage{hypcap}{subcaption}
44 \RequirePackage{subcaption}
45 \RequirePackage{atbegshi}
46 \RequirePackage{picture,trimclip}
47 \RequirePackage{etoolbox,marginnote}% for "floats" in the margin
48
49 \RequirePackage{expl3,multido}
50 \RequirePackage{graphicx}
51 \RequirePackage{varwidth}
52
53 \RequirePackage{xkeyval}
54 \RequirePackage{ifoddpage}
55 \RequirePackage{afterpage}
56
57 \ifhv@hyperref
58   \RequirePackage{hyperref}
59 \fi
60
61 \ifhv@nostfloats
62 \else
63   \RequirePackage{stfloats}% for bottom floats in a twocolumn mode
64   \RequirePackage{floatpag}% for bottom floats in a twocolumn mode
```

```

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

```



```

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

```

```

195 \newif\ifhv@setObjectLabel
196 \newif\ifhv@global@sameHeight
197 \newif\ifhv@forceOutput
198
199
200 \newlength\hvSet@bindCorrection
201 \newlength\hvSet@sepLineskip
202 \newlength\hv@leftPageObjectWidth% for doublepage images
203 \newlength\hv@tempWidthA
204 \newlength\hv@tempWidthB
205 \newlength\hv@minTextlines
206 \newlength\hv@floatCapSep
207 \newlength\hvSet@bindCorr
208
209 \define@key{hvSet}{fullpage}[true]{%
210   \global\@nameuse{hv@fullpage#1}%
211   \hv@doublePagefalse\hv@doublePAGEfalse\hv@doubleFULLPAGEfalse
212   \hv@FULLPAGEfalse
213   \hvfloat@typeout{>>>>Option fullpage}%
214 }
215 \define@key{hvSet}{FULLPAGE}[true]{%
216   \global\@nameuse{hv@FULLPAGE#1}%
217   \hv@doublePagefalse\hv@doublePAGEfalse\hv@doubleFULLPAGEfalse
218   \hv@fullpagefalse
219   \hvfloat@typeout{>>>>Option FULLPAGE}%
220 }
221 \define@key{hvSet}{doubleFULLPAGE}[true]{%
222   \global\@nameuse{hv@doubleFULLPAGE#1}%
223   \hv@doublePagefalse\hv@doublePAGEfalse
224   \hv@fullpagefalse\hv@FULLPAGEfalse
225   \hvfloat@typeout{>>>>Option doubleFULLPAGE->True / doublePAGE->False}%
226 }
227 \define@key{hvSet}{doublePAGE}[true]{%
228   \global\@nameuse{hv@doublePAGE#1}%
229   \hv@doublePagefalse\hv@doubleFULLPAGEfalse
230   \hv@fullpagefalse\hv@FULLPAGEfalse
231   \hvfloat@typeout{>>>>Option doublePAGE->True / doubleFULLPAGE->False}%
232 }
233 \define@key{hvSet}{doublePage}[true]{%
234   \global\@nameuse{hv@doublePage#1}%
235   \hv@doublePAGEfalse\hv@doubleFULLPAGEfalse
236   \hv@fullpagefalse\hv@FULLPAGEfalse
237   \hvfloat@typeout{>>>>Option doublepage->True / doubleFULLPAGE->False}%
238 }
239 \define@key{hvSet}{bindCorr}[0pt]{%
240   \def\hv@temp{#1}%
241   \ifx\hv@temp\hv@Inner
242     \hvSet@bindCorr=\the\dimexprlin+\oddsidemargin\relax
243   \else
244     \setlength\hvSet@bindCorr{#1}%
245   \fi
246 }
247 %\setlength\hvSet@bindCorrection{#1}% for doublepage objects
248
249 \define@boolkey{hvSet}[hv@]{subFloat}[true]{% typeset values as subfloats
250   \ifhv@subFloat\setkeys{hvSet}{multiFloat=false}\fi%
251 }%
252 \define@boolkey{hvSet}[hv@]{multiFloat}[true]{% typeset values as continous floats
253   \ifhv@multiFloat\setkeys{hvSet}{subFloat=false}\fi
254 }%
255 \define@boolkey{hvSet}[hv@]{vFill}[true]{% \vfill between multifloat objects
256 }%
257 \define@boolkey{hvSet}[hv@]{separatorLine}[true]{% separator line for caption of a full page float
258 \define@key{hvSet}{sepLineskip}{\def\hv@sepLineskip{#1}}%
259 \define@key{hvSet}{minTextlines}{\setlength\hv@minTextlines{#1}\baselineskip}}%
260 \define@boolkey{hvSet}[hv@]{objectFrame}[true]{% a frame around the object with no separation
261 \define@key{hvSet}{style}{%

```

```

262 \ifundefined{hv@#1}%
263   {\errmessage{Custom style `#1' undefined}}%
264   {\begingroup
265     \edef\x{\endgroup\noexpand\setkeys{hvSet}{\@nameuse{hv@#1}}\x}% use a defined style
266   }
267 \define@key{hvSet}{capFormat}{\def\hv@caption@format{#1}}%
268 \define@key{hvSet}{subcapFormat}{\def\hv@subcaption@format{#1}}%
269 \define@boolkey{hvSet}[hv@]{forceOutput}[true]{%
270   \ifhv@forceOutput\hv@nonFloattrue\fi}% immediate output, no floating!
271
272 \def\hv@set#1{\begingroup\edef\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x}
273 \let\hvFloatSet\hv@set
274 %
275 \def\defhvstyle#1#2{\@namedef{hv@#1}{#2}}
276 \let\hvDefFloatStyle\defhvstyle % better name
277 %
278 \newcommand\setDefaults{%
279   \hv@set{%
280     floatPos=, rotAngle=0, capWidth=n, capAngle=0, objectAngle=0,
281     capPos=bottom, capVPos=center, objectPos=center, capHPos=center,
282     floatCapSep=5pt, useOBox=false, forceLeft=false,
283     onlyText=false, wide=false, fullpage=false, FULLPAGE=false,
284     doubleFULLPAGE=false, doublePage=false, doublePAGE=false,
285     multiFloat=false, subFloat=false, inMargin=false,
286     separatorLine, objectFrame=false, multiFloatSkip=\normalbaselineskip,
287     capFormat={}, subcapFormat={}, twoColumnCaption=false,
288     sameHeight=false,
289     bindCorr=\z@, sepLineskip=0pt,
290     vFill=false, minTextlines=2,
291     forceOutput=false, nonFloat=false,
292   }%
293 }
294
295 \let\hvFloatSetDefaults\setDefaults
296 \hvFloatSetDefaults% onyl for first loading of the package
297
298
299 \providecommand\tugclass{\@empty}
300 \ifx\tugclass\@empty
301 \else
302   \hv@tugboattrue % special page handling
303   \hvfloat@typeout{>>> we are using a TUGboat class}%
304 \fi
305
306 \newcommand\reset@special@float{%
307   \hv@set{subFloat=false,%fullpage=false,
308     multiFloat=false,%FULLPAGE=false
309 }}
310
311 \def\hv@vskip{\vspace{\hvMultiFloatSkip}}
312 %
313 \newlength\hvAboveCaptionSkip
314 \newlength\hvBelowCaptionSkip
315 \newlength\hv@dblftop
316 \newlength\hv@fptop
317 \newcount\hv@capPos
318
319 \newlength\fbboxlinewidth
320 \AtBeginDocument{%
321   \fbboxlinewidth=\the\dimexpr\linewidth-2\fbboxrule-2\fbboxsep\relax
322 }
323
324 \setlength\belowcaptionskip{\abovecaptionskip}% it is in latex.ltx = 0pt
325 \newcommand\saveCaptionSkip{%
326   \setlength{\hvAboveCaptionSkip}{\abovecaptionskip}%
327   \setlength{\hvBelowCaptionSkip}{\belowcaptionskip}%
328   \setlength{\abovecaptionskip}{0pt}%

```

```

329 \setlength{\belowcaptionskip}{0pt}%
330 }
331 \newcommand\restoreCaptionSkip{%
332 \setlength\abovecaptionskip{\hvAboveCaptionSkip}%
333 \setlength\belowcaptionskip{\hvBelowCaptionSkip}%
334 }
335
336 \newcommand\hv@set@noverticalSpace{% no space on top for a float page
337 \let\hv@dblftop\@dblftop
338 \let\hv@fptop\@fptop
339 \global\@dblftop=0\p@
340 \global\@fptop=0\p@
341 }
342
343 \newcommand\hv@reset@noverticalSpace{%
344 \global\@dblftop=\hv@dblftop
345 \global\@fptop=\hv@fptop
346 }
347
348 \providecommand\figcaption[2][{}]%
349 \providecommand\tabcaption[2][{}]%
350 \providecommand\tabcaptionbelow[2][{}]%
351 %
352 \renewcommand\figcaption[2][{}]%
353 \begingroup
354 \def\@capytype{figure}%
355 \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
356 \ifx\relax#1\relax \caption{#2}\else\caption[#1]{#2}\fi
357 \endgroup}
358 \renewcommand\tabcaption[2][{}]%
359 \begingroup
360 \def\@capytype{table}%
361 \expandafter\captionsetup\expandafter{\hv@caption@format,position=top}%
362 \ifx\relax#1\relax \caption{#2}\else\caption[#1]{#2}\fi
363 \endgroup}
364 \renewcommand\tabcaptionbelow[2][{}]%
365 \begingroup
366 \def\@capytype{table}%
367 \expandafter\captionsetup\expandafter{\hv@caption@format,position=below}
368 \ifx\relax#1\relax \caption{#2}\else\caption[#1]{#2}\fi
369 \endgroup}
370
371 %
372 \newlength\hv@maxImageWidth
373 \AtBeginDocument{\setlength\hv@maxImageWidth{\columnwidth}}
374
375 \define@key{Gin}{columnwidth}[true]{%
376 \def\Gin@ewidth{\columnwidth}%
377 % \def\Gin@eheight{1ex}%
378 \Gin@boolkey{true}{iso}%
379 }
380 \define@key{Gin}{fullpage}[true]{%
381 \def\Gin@ewidth{\columnwidth}%
382 \def\Gin@eheight{\textheight}%
383 \Gin@boolkey{false}{iso}%
384 }
385 \define@key{Gin}{FullPage}[true]{%
386 \def\Gin@ewidth{\textwidth}%
387 \def\Gin@eheight{\textheight}%
388 \Gin@boolkey{false}{iso}%
389 }
390 \define@key{Gin}{FULLPAGE}[true]{%
391 \def\Gin@ewidth{\paperwidth}%
392 \def\Gin@eheight{\paperheight}%
393 \Gin@boolkey{false}{iso}%
394 }
395 \define@key{Gin}{doubleFULLPAGE}[true]{%

```

```

396 \def\Gin@ewidth{2\paperwidth}%
397 \def\Gin@eheight{\paperheight}%
398 \Gin@boolkey{false}{iso}%
399 }
400 \define@key{Gin}{doublefullPage}[true]{%
401 \def\Gin@ewidth{\the\dimexpr2\paperwidth-2in-2\evensidemargin}%
402 % \def\Gin@eheight{\paperheight}%
403 \Gin@boolkey{true}{iso}%
404 }
405 \define@key{Gin}{doubleFULLPAGEbindCorr}[true]{%
406 \def\Gin@ewidth{\the\dimexpr2\paperwidth-2\hvSet@bindCorrection\relax}%
407 \def\Gin@eheight{\paperheight}%
408 \Gin@boolkey{false}{iso}%
409 }
410
411 \newcommand\IncludeGraphics[2][0]{%
412 \vspace*{\the\dimexpr-lin-\voffset+\topskip-\headheight-0.5\baselineskip}%
413 \leavevmode\checkoddpage
414 \ifoddpage
415 \hspace*{\dimexpr-\oddsidemargin-\parindent-lin}%
416 \else
417 \hspace*{\dimexpr-\evensidemargin-\parindent-lin}%
418 \fi\noindent
419 \includegraphics[#1,width=\paperwidth,height=\paperheight,keepaspectratio=false]{#2}%
420 }
421
422 \newcommand\put@CaptionBox[1][0]{%
423 \ifcase#1
424 \ifhv@fbox
425 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
426 \else
427 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
428 \fi
429 \or
430 \ifhv@fbox
431 \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
432 \else
433 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
434 \fi
435 \or
436 \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}\else\usebox{\hvCaptionBox}\fi
437 \fi
438 }
439
440 \newcommand\put@ObjectBox[1][0]{%
441 \ifcase#1
442 \ifhv@fbox
443 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
444 \else
445 \parbox{\wd\hvObjectBox}{\ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi
446 }%
447 \fi
448 \or
449 \ifhv@fbox
450 \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
451 \else
452 \raisebox{-\height}{\ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi}%
453 \fi
454 \or
455 \ifhv@fbox
456 \fbox{\usebox{\hvObjectBox}}%
457 \else
458 % rotated object with a depth need to raise up the \depth
459 \ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\raisebox{\depth}{\usebox{\hvObjectBox}}\fi
460 \fi
461 }

```

```

462
463 \def\drawSepLine{%
464   \par\noindent
465   \if@twocolumn
466     \ifhv@twoColumnCaption
467       \rule{\linewidth}{0.4pt}\[-2.5ex]
468     \else
469       \rule{\columnwidth}{0.4pt}\[-2.5ex]
470     \fi
471   \else
472     \rule{\linewidth}{0.4pt}\[-2.5ex]
473   \fi
474   \vspace{\hv@sepLineskip}%
475 }
476
477 \newcounter{hv@tempCNTfigA}%
478 \newcounter{hv@tempCNTfigB}%
479 \newcounter{hv@tempCNTtabA}%
480 \newcounter{hv@tempCNTtabB}%
481 \newcounter{hv@pfigure}%
482 \newcounter{hv@ptable}%
483 \newcounter{subhv@pfigure}%
484 \newcounter{subhv@ptable}%
485 \newcount\hv@tempcnt
486
487 \newif\ifhv@star
488 \newif\if@hvsubstar
489 \setDefaults
490
491
492 %\newcommand*{\hvFloat}[5][+]{%
493 % [#1]: keyvalues
494 % #2: type figure | table | ...
495 % #3: float contents
496 % [#4]: short caption
497 % #5: caption
498 % #6: label
499 %
500
501
502 \def\hvFloat{\@ifnextchar*%      Main macro
503   {\global\hv@startrue\hv@maxImageWidth=\textwidth\hvFloat@i}%
504   {\global\hv@starfalse\hv@maxImageWidth=\columnwidth\hvFloat@i*}%
505 }
506
507 \def\hvFloat@i*\@ifnextchar[{\do@hvFloat}{\do@hvFloat[]}]
508 \def\do@hvFloat[#1]{%
509   \begingroup
510     \hv@widewidth=\the\dimexpr\columnwidth+\marginparwidth+\marginparsep\relax%
511     % \setlength\hv@widewidth{\dimexpr\textwidth+\marginparwidth+\marginparsep}%
512     % \setlength\hv@widewidth{\dimexpr\linewidth+\marginparwidth}%
513     \hv@maxImageWidth=\textwidth
514     \reset@special@float
515     \global\setcounter{hv@pfigure}{\value{figure}}%
516     \global\setcounter{hv@ptable}{\value{table}}%
517     \setcounter{hv@tempCNTfigA}{\value{figure}}%
518     \setcounter{hv@tempCNTfigB}{\value{figure}}%
519     \setcounter{hv@tempCNTtabA}{\value{table}}%
520     \setcounter{hv@tempCNTtabB}{\value{table}}%
521     \gdef\hv@save@setting{#1}% for later use after \endgroup inside figure/table env
522     \ifx\relax#1\relax\else\setkeys{hvSet}{#1}\fi
523     \ifx\hv@caption@format\@empty\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
524     \ifx\hv@subcaption@format\@empty\else
525       \expandafter
526         \captionsetup\expandafter[\expandafter s\expandafter u\expandafter b\expandafter]\expandafter
527           {\hv@subcaption@format}%
528     \fi

```

```

529 \gdef\hv@floatType{figure}% presetting
530 \@ifnextchar+{\do@multiFloat}{\hvFloat@ii[#1]}%
531 }
532
533 \ExplSyntaxOn
534
535 \def\do@multiFloat+#1#2{%
536 \clist_set:Nn\l_clist_Type{#{1}}%
537 \clist_set:Nn\l_clist_Object{#{2}}%
538 \@ifnextchar[\do@multiFloat@i{\do@multiFloat@i[]}%
539 }
540 \def\do@multiFloat@i[#1]#2#3{% lof-caption, caption, label
541 \ifx\relax#1\relax
542 \clist_set:Nn\l_clist_LofCaption{#1}%
543 \else
544 \clist_set:Nn\l_clist_LofCaption{#{1}}%
545 \fi
546 \clist_set:Nn\l_clist_Caption{#{2}}%
547 \ifx\relax#3\relax
548 \clist_set:Nn\l_clist_Label{#3}%
549 \else
550 \clist_set:Nn\l_clist_Label{#{3}}%
551 \fi
552 \@ifnextchar+{\do@multiFloat@ii}%
553 }
554 \def\do@multiFloat@ii+#1#2{%
555 \clist_put_right:Nn\l_clist_Type{#{1}}%
556 \clist_put_right:Nn\l_clist_Object{#{2}}%
557 \@ifnextchar[\do@multiFloat@iii{\do@multiFloat@iii[]}%
558 }
559
560 \def\do@multiFloat@iii[#1]#2#3{% lof-caption, caption, label
561 \ifx\relax#1\relax
562 \clist_put_right:Nn\l_clist_LofCaption{#1}%
563 \else
564 \clist_put_right:Nn\l_clist_LofCaption{#{1}}%
565 \fi
566 \clist_put_right:Nn\l_clist_Caption{#{2}}%
567 \ifx\relax#3\relax
568 \clist_put_right:Nn\l_clist_Label{#3}%
569 \else
570 \clist_put_right:Nn\l_clist_Label{#{3}}%
571 \fi
572 \@ifnextchar+\do@multiFloat@ii%
573 {\def\hvSet@CapWidth{n}%
574 \do@@@hvFloat}%
575 }
576 \ExplSyntaxOff
577
578
579 \newcount\hv@canta
580 \newcount\hv@canta
581
582 \def\hvFloat@ii[#1]#2#3{% #1: key/value, #2: floattype, #3: object
583 \hv@maxImageWidth=\textwidth
584 % \ifx\relax#1\relax\else\setkeys{hvSet}{#1}\fi
585 \gdef\hv@floatType{#2}%
586 \ifx\relax#2\relax
587 \setkeys{hvSet}{nonFloat,onlyText}%
588 \xdef\hv@save@setting{\hv@save@setting,nonFloat,onlyText}% for later use after \endgroup inside
589 figure/table env
590 \fi
591 % \xdef\hv@floatListOfExt{\@nameuse{ext@\hv@floatType}}%
592 \gdef\hv@floatObject{#3}%
593 \@ifnextchar[{\do@@hvFloat}{\do@@hvFloat[]}%
594 }

```

```

595 \def\do@@hvFloat[#1]#2#3{%      #1: listof caption, #2. long caption #3: label
596 \gdef\hv@shortCap{#1}%
597 \gdef\hv@longCap{#2}%
598 \gdef\hv@label{#3}%
599 \ifhv@capbeside\def\@temp{1}\else\def\@temp{0}\fi
600 \ifhv@sameHeight\global\hv@global@sameHeighttrue\else\global\hv@global@sameHeightfalse\fi
601 \global\hvSet@bindCorrection=\hvSet@bindCorr% for doublepage objects
602 \global\hv@floatCapSep=\hvSet@floatCapSep%
603 %
604 \ifhv@fullpage
605 \hvfloat@typeout{>>>> do@@hvFloat: fullpage true}%
606 \def\hvSet@CapWidth{n}% relative value
607 \do@@@hvFloat% fullpage with caption on other page
608 \else
609 \ifhv@FULLPAGE
610 \hvfloat@typeout{>>>> do@@hvFloat: FULLPAGE true}%
611 \def\hvSet@CapWidth{n}% relative value
612 \do@@@hvFloat% fullpage with caption on other page
613 \else
614 \ifhv@doubleFULLPAGE
615 \hvfloat@typeout{>>>> do@@hvFloat: doubleFULLPAGE true}%
616 \setlength\hvCapWidth{\texttheight}%
617 \expandafter\do@hvFloat@doubleFULLPAGE\@temp% fullpage with caption rotated or under on an odd
        page
618 \else
619 \ifhv@doublePAGE
620 \hvfloat@typeout{>>>> do@@hvFloat: doublePAGE true}%
621 \expandafter\do@hvFloat@doublePAGE\@temp% fullpage with caption rotated or under on an odd
        page
622 \else
623 \ifhv@doublePage
624 \hvfloat@typeout{>>>> do@@hvFloat: doublePage true}%
625 \expandafter\do@hvFloat@doublePage\@temp% fullpage with caption rotated or under on an odd
        page
626 \else
627 \ifhv@inMargin
628 \hvfloat@typeout{>>>> do@@hvFloat: inMargin true}%
629 \do@@@hvFloatInMargin
630 \else
631 \hvfloat@typeout{>>>> do@@hvFloat: no special caption}%
632 \do@@@hvFloat
633 \fi
634 \fi
635 \fi
636 \fi
637 \fi
638 \fi
639 }
640 %
641 \def\do@@@hvFloat{% no special float page, caption and image on top of each other or side by side
642 \def\@tempa{90}%
643 \ifx\hvSet@rotAngle\@tempa
644 \setlength\hvMaxCapWidth{\texttheight}%
645 \else
646 \setlength\hvMaxCapWidth{\hvWideWidth}%
647 \fi
648 %
649 % First we save the object in \hvObjectBox
650 %
651 \ifnum\hvSet@objectAngle=0 % rotate the object?
652 \ifhv@useOBox
653 \let\hvObjectBox\hvOBox
654 \else
655 \savebox\hvObjectBox{\hv@floatObject}%
656 \fi
657 \else
658 \savebox\hvObjectBox{%

```



```

659 \rotatebox{\hvSet@objectAngle}{%
660 \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi
661 }%
662 }%
663 \fi
664 \setlength\hvObjectWidth{\wd\hvObjectBox}%
665 %
666 % Now we save the caption with its defined \hvCapWidth
667 %
668 \ifx\hvSet@capWidth\hv@Width% captionwidth=objectwidth
669 \setlength\hvCapWidth{\hvObjectWidth}%
670 \else
671 \ifx\hvSet@capWidth\hv@Height% captionwidth=objectheight
672 \setlength\hvCapWidth{\ht\hvObjectBox}%
673 \else
674 \ifx\hvSet@capWidth\hv@LineWidth% captionwidth=objectheight
675 \setlength\hvCapWidth{\linewidth}%
676 \else
677 \ifx\hvSet@capWidth\hv@Natural% captionwidth=\linewidth-\objectwidth-separation
678 \ifhv@capbeside
679 \ifhv@wide
680 \hvCapWidth=\the\dimexpr\hvWideWidth-\hvObjectWidth-\hv@floatCapSep\relax
681 \else
682 \ifhv@star
683 \hvCapWidth=\the\dimexpr\textwidth-\hvObjectWidth-\hv@floatCapSep\relax
684 \else
685 \hvCapWidth=\the\dimexpr\linewidth-\hvObjectWidth-\hv@floatCapSep\relax
686 \fi
687 \fi
688 \else
689 \setlength\hvCapWidth{\columnwidth}%
690 \fi
691 \else
692 \ifhv@capbeside
693 \ifhv@wide
694 \setlength\hvCapWidth{\hvSet@capWidth\hvWideWidth}%
695 \@tempdima=\the\dimexpr\hvWideWidth-\hvObjectWidth-\hv@floatCapSep\relax
696 \else
697 \setlength\hvCapWidth{\hvSet@capWidth\columnwidth}%
698 \@tempdima=\the\dimexpr\columnwidth-\hvObjectWidth-\hv@floatCapSep\relax
699 \fi
700 \ifdim\hvCapWidth>\@tempdima
701 \hvCapWidth=\@tempdima
702 \fi
703 \else
704 \ifhv@wide
705 \setlength\hvCapWidth{\hvSet@capWidth\hvWideWidth}%
706 \else
707 \setlength\hvCapWidth{\hvSet@capWidth\columnwidth}%
708 \fi
709 \fi
710 \fi
711 \fi
712 \fi
713 \fi
714 \saveCaptionSkip% we put this space ourselve
715 \ifnum\hvSet@capAngle=0 % need rotation?
716 \savebox\hvCaptionBox{% NO rotation
717 \minipage[b]{\hvCapWidth}% minipage, to get hyphenation
718 % \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
719 \ifhv@nonFloat
720 \ifhv@onlyText
721 \hv@longCap
722 \else
723 \ifx\hv@floatType\hv@figure
724 \ifx\relax\hv@shortCap\relax
725 \figcaption{\hv@longCap\ifx\hv@label\@empty\else\label{\hv@label}\fi}%

```

```

726     \else
727       \figcaption[\hv@shortCap]{\hv@longCap\ifx\hv@label\@empty\else\label{\hv@label}\fi}%
728     \fi
729   \else
730     \ifx\relax\hv@shortCap\relax
731       \tabcaption{\hv@longCap\ifx\hv@label\@empty\else\label{\hv@label}\fi}%
732     \else
733       \tabcaption[\hv@shortCap]{\hv@longCap\ifx\hv@label\@empty\else\label{\hv@label}\fi}%
734     \fi
735   \fi
736 \fi
737 \else
738   \ifhv@onlyText
739     \hv@longCap
740   \else
741     \expandafter\ifx\hv@longCap\@empty \else
742       \let\@captype\hv@floatType
743       \ifx\hv@shortCap\@empty\caption{\hv@longCap}\else\caption[\hv@shortCap]{\hv@longCap}\fi
744       \ifx\hv@label\@empty\else\label{\hv@label}\fi
745     \fi
746   \fi
747 \fi
748   \endminipage
749 }% end CaptionBox without rotation
750 \else
751   \savebox\hvCaptionBox{% with Rotation
752     \rotatebox{\hvSet@capAngle}{%
753       \minipage[b]{\hvCapWidth}% minipage, to get hyphenation
754 % \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
755     \ifhv@nonFloat
756       \ifhv@onlyText
757         \hv@longCap
758       \else
759         \ifx\hv@floatType\hv@figure
760           \ifx\hv@shortCap\@empty \figcaption{\hv@longCap}\else\figcaption[\hv@shortCap]{\hv@longCap}\fi
761         \else
762           \ifx\hv@shortCap\@empty \tabcaption{\hv@longCap}\else\tabcaption[\hv@shortCap]{\hv@longCap}\fi
763         \fi
764       \fi
765     \else
766       \expandafter\ifx\hv@longCap\@empty \else
767         \ifhv@onlyText
768           \hv@longCap
769         \else
770           \let\@captype\hv@floatType
771           \ifx\hv@shortCap\@empty \caption{\hv@longCap}\else\caption[\hv@shortCap]{\hv@longCap}%
772           \fi
773         \fi
774       \fi
775     \fi
776     \ifx\hv@label\@empty\else\label{\hv@label}\fi
777   \endminipage
778 }% rotatebox
779 }% \sbox
780 \fi
781 %
782 % now we have the object and the caption with the right
783 % rotated angles saved in different boxes
784 %%
785 \restoreCaptionSkip% save old values
786 % \def\fps@figure{\hvSet@floatPos}%
787 \ifx\hvSet@floatPos\@empty % use type default
788 \else
789   \namedef{\hv@floatType}{\hvSet@floatPos}%
790 \fi
791 \ifhv@nonFloat
792 \noindent

```

```

793 \begingroup%      Start the nonfloat part
794 \else
795 \ifhv@star
796 \ifx\hvSet@floatPos\hv@floatBottom
797 \nameuse{\hv@floatType*}[b]%      Start the floating environment *****
798 \else
799 \nameuse{\hv@floatType*}%
800 \fi
801 \else
802 \begin{\hv@floatType}%      Start the floating environment
803 \fi
804 \fi
805 \checkoddpage
806 \ifx\hvSet@objectPos\hv@Right\raggedleft\fi
807 \ifx\hvSet@objectPos\hv@Center
808 \ifhv@nonFloat\hspace*{\fill}\else\centering\fi
809 \fi
810 \ifx\hvSet@objectPos\hv@Outer
811 \ifoddpage\raggedleft\fi
812 \fi
813 \ifx\hvSet@objectPos\hv@Inner
814 \ifoddpage\else\raggedleft\fi
815 \fi
816 %
817 % to rotate object and caption together, we save all in another box
818 % the caption comes first, if its on the left or the top
819 % 0 caption left, inner and odd page, onside inner
820 % 1 caption top
821 % 2 caption right, inner and even page, onside outer
822 % 3 caption bottom
823 %
824 \ifx\hvSet@capPos\hv@Left
825 \hv@@capPos=0
826 \else
827 \ifx\hvSet@capPos\hv@Top
828 \hv@@capPos=1
829 \else
830 \ifx\hvSet@capPos\hv@Right
831 \hv@@capPos=2
832 \else
833 \ifx\hvSet@capPos\hv@Bottom
834 \hv@@capPos=3
835 \else
836 \ifx\hvSet@capPos\hv@Inner
837 \ifoddpageoroneside\hv@@capPos=0\else\hv@@capPos=2\fi
838 \else
839 \ifx\hvSet@capPos\hv@Outer
840 \ifoddpage\hv@@capPos=2\else\hv@@capPos=0\fi
841 % \ifoddpageoroneside\hv@@capPos=2\else\hv@@capPos=0\fi
842 % even page (left=0) | odd page (oneside) (right=2)
843 \else
844 \ifx\hvSet@capPos\hv@Before
845 \hv@@capPos=0% same as capPos=left
846 \else
847 \ifx\hvSet@capPos\hv@After
848 \hv@@capPos=2% same as capPos=right
849 \fi
850 \fi
851 \fi
852 \fi
853 \fi
854 \fi
855 \fi
856 \fi
857 %%%
858 %\typeout{>>>>>>>Pos: \the\hv@@capPos}%
859 \savebox{\@tempboxa}{%      ***** @tempbox start

```

```

860 \expandafter%
861 \ifcase\the\hv@capPos % 0 is LEFT    START \ifcase
862 \ifx\hvSet@capVPos\hv@Center
863 \put@CaptionBox
864 \hspace{\hv@floatCapSep}% capfloatsep
865 \put@ObjectBox
866 \else
867 \ifx\hvSet@capVPos\hv@Top% caption and object at top aligned
868 \put@CaptionBox[1]%
869 \hspace{\hv@floatCapSep}% capfloatsep
870 \put@ObjectBox[1]%
871 \else% caption on bottom
872 \put@CaptionBox[2]%
873 \hspace{\hv@floatCapSep}% capfloatsep
874 \put@ObjectBox[2]%
875 \fi
876 \fi% end caption left
877 \or%1 is top
878 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
879 \begin{minipage}{\wd\hvCaptionBox}%
880 \else
881 \begin{minipage}{\wd\hvObjectBox}%
882 \fi
883 \ifx\hvSet@capHPos\hv@Left% horizontal justification
884 \raggedright
885 \else
886 \ifx\hvSet@capHPos\hv@Center
887 \centering
888 \else
889 \raggedleft
890 \fi
891 \fi
892 \ifhv@fbox
893 \fbox{\usebox{\hvCaptionBox}}\@[0.5\hvBelowCaptionSkip]%
894 \fbox{\usebox{\hvObjectBox}}%
895 \else
896 \usebox{\hvCaptionBox}\@[0.5\hvBelowCaptionSkip]%
897 \usebox{\hvObjectBox}%
898 \fi
899 \end{minipage}%
900 \or%2 is right
901 \ifx\hvSet@capVPos\hv@Center
902 \put@ObjectBox
903 \hspace{\hv@floatCapSep}%
904 \put@CaptionBox
905 \else
906 \ifx\hvSet@capVPos\hv@Top
907 \put@ObjectBox[1]%
908 \hspace{\hv@floatCapSep}% capfloatsep
909 \put@CaptionBox[1]%
910 \else
911 \put@ObjectBox[2]% bottom
912 \hspace{\hv@floatCapSep}% capfloatsep
913 \put@CaptionBox[2]%
914 \fi
915 \fi
916 \or%3 bottom
917 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
918 \begin{minipage}{\wd\hvCaptionBox}%
919 \else
920 \begin{minipage}{\wd\hvObjectBox}%
921 \fi
922 \ifx\hvSet@capHPos\hv@Left% horizontal justification
923 \raggedright
924 \else
925 \ifx\hvSet@capHPos\hv@Center
926 \centering

```

```

927     \else
928     \raggedleft
929     \fi
930 \fi
931 \ifhv@fbox
932 \fbox{\usebox{\hvObjectBox}}\l[0.5\hvAboveCaptionSkip]%
933 \fbox{\usebox{\hvCaptionBox}}%
934 \else
935 \ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi\l[0.5\
hvAboveCaptionSkip]%
936 \usebox{\hvCaptionBox}%
937 \fi
938 \end{minipage}%
939 \fi% \ifcase\the\hv@capPos
940 }% End savebox Object and caption %%%%%%%%% @tempboxa
941 %
942 % now we rotate the object and caption, if needed
943 %
944 \ifhv@wide
945 \ifoddpagoroneside
946 \if@twocolumn
947 \if@firstcolumn
948 \noindent
949 \hspace*{\dimexpr-\marginparwidth-\marginparsep}% oddpage first column
950 \fi
951 \fi
952 \else
953 \ifoddpage
954 \if@twocolumn
955 \if@firstcolumn
956 \noindent
957 \hspace*{\dimexpr-\marginparwidth-\marginparsep}% oddpage first column
958 \fi
959 \fi
960 \else% evenpage
961 \if@firstcolumn
962 \noindent
963 \hspace*{\dimexpr-\marginparwidth-\marginparsep}% <- for wide and left page
964 \fi
965 \fi
966 \fi
967 \fi
968 \ifx\hvSet@rotAngle\hv@Zero
969 \usebox{\@tempboxa}%
970 \else
971 \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}%
972 \fi
973 \ifhv@nonFloat
974 \ifx\hvSet@objectPos\hv@Center
975 % \ifhv@nonFloat
976 \hspace{\fill}%
977 % \fi
978 \fi
979 \endgroup% End the nonfloat part
980 \else
981 \ifhv@star
982 \@nameuse{end\hv@floatType}% End the floating environment
983 \else
984 \end{\hv@floatType}% End the floating environment
985 \fi
986 \fi
987 \endgroup% startet at main \hvFloat
988 }
989
990
991 \def\do@@@hvFloatInMargin{% no special float page, caption and image on top of each other or side by side
992 \def\@tempa{90}%

```

```

993 \ifx\hvSet@rotAngle\@tempa \setlength\hvMaxCapWidth{\texttheight}\else\setlength\hvMaxCapWidth{\
marginparwidth}\fi
994 %
995 % First we save the object in \hvObjectBox
996 %
997 \ifnum\hvSet@objectAngle=0 % rotate the object?
998 \ifhv@use0Box\let\hvObjectBox\hv0Box\else\savebox\hvObjectBox{\hv@floatObject}\fi
999 \else
1000 \savebox\hvObjectBox{\rotatebox{\hvSet@objectAngle}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\
fi}}%
1001 \fi
1002 \setlength\hvObjectWidth{\wd\hvObjectBox}%
1003 %
1004 % Now we save the caption with its defined \hvCapWidth
1005 %
1006 \renewcommand*\raggedleftmarginnote{}%
1007 \renewcommand*\raggedrightmarginnote{}%
1008 \marginnote{}
1009 \ifx\hvSet@capWidth\hv@Width \setlength\hvCapWidth{\hvObjectWidth}%
1010 \else
1011 \ifx\hvSet@capWidth\hv@Height \setlength\hvCapWidth{\ht\hvObjectBox}%
1012 \else
1013 \ifx\hvSet@capWidth\hv@LineWidth \setlength\hvCapWidth{\marginparwidth}%
1014 \else
1015 \ifx\hvSet@capWidth\hv@Natural% captionwidth=\linewidth-\objectwidth-separation
1016 \ifhv@capbeside
1017 \hvCapWidth=\the\dimexpr\marginparwidth-\hvObjectWidth-\hv@floatCapSep\relax
1018 \else
1019 \setlength\hvCapWidth{\marginparwidth}%
1020 \fi
1021 \else
1022 \ifhv@capbeside
1023 \setlength\hvCapWidth{\hvSet@capWidth\marginparwidth}%
1024 \@tempdima=\the\dimexpr\marginparwidth-\hvObjectWidth-\hv@floatCapSep\relax
1025 \ifdim\hvCapWidth>\@tempdima \hvCapWidth=\@tempdima \fi
1026 \else
1027 \setlength\hvCapWidth{\hvSet@capWidth\marginwidth}%
1028 \fi
1029 \fi
1030 \fi
1031 \fi
1032 \fi
1033 \saveCaptionSkip% we put this space ourselve
1034 \ifnum\hvSet@capAngle=0 % need rotation?
1035 \savebox\hvCaptionBox{% NO rotation
1036 \minipage[b]{\hvCapWidth}%% minipage, to get hyphenation
1037 \ifx\hv@floatType\hv@figure
1038 \ifx\relax\hv@shortCap\relax
1039 \figcaption{\hv@longCap\ifx\hv@label\@empty\else\label{\hv@label}\fi}%
1040 \else
1041 \figcaption[\hv@shortCap]{\hv@longCap\ifx\hv@label\@empty\else\label{\hv@label}\fi}%
1042 \fi
1043 \else
1044 \ifx\relax\hv@shortCap\relax
1045 \tabcaption{\hv@longCap\ifx\hv@label\@empty\else\label{\hv@label}\fi}%
1046 \else
1047 \tabcaption[\hv@shortCap]{\hv@longCap\ifx\hv@label\@empty\else\label{\hv@label}\fi}%
1048 \fi
1049 \fi
1050 \endminipage
1051 }% end CaptionBox without rotation
1052 \else
1053 \savebox\hvCaptionBox{% with Rotation
1054 \rotatebox{\hvSet@capAngle}{%
1055 \minipage[b]{\hvCapWidth}%% minipage, to get hyphenation
1056 \ifx\hv@floatType\hv@figure
1057 \ifx\hv@shortCap\@empty \figcaption{\hv@longCap}\else\figcaption[\hv@shortCap]{\hv@longCap}\fi

```

```

1058 \else
1059 \ifx\hv@shortCap\@empty \tabcaption{\hv@longCap}\else\tabcaption[\hv@shortCap]{\hv@longCap}\fi
1060 \fi
1061 \ifx\hv@label\@empty\else\label{\hv@label}\fi
1062 \endminipage
1063 }% rotatebox
1064 }% end \avesbox
1065 \fi
1066 %
1067 % now we have the object and the caption with the right
1068 % rotated angles saved in different boxes
1069 %%
1070 \restoreCaptionSkip% save old values
1071 % \def\fps@figure{\hvSet@floatPos}%
1072 \ifx\hvSet@floatPos\@empty \else\@namedef{fps@\hv@floatType}{\hvSet@floatPos}\fi
1073 \noindent
1074 \beginingroup% Start the nonfloat part
1075 \checkoddpage
1076 \ifx\hvSet@objectPos\hv@Right \raggedleft\fi
1077 \ifx\hvSet@objectPos\hv@Center \hspace*{\fill}\fi
1078 \ifx\hvSet@objectPos\hv@Outer \ifoddpage\raggedleft\fi\fi
1079 \ifx\hvSet@objectPos\hv@Inner \ifoddpage\else\raggedleft\fi\fi
1080 %
1081 % to rotate object and caption together, we save all in another box
1082 % the caption comes first, if its on the left or the top
1083 % 0 caption left, inner and odd page, onside inner
1084 % 1 caption top
1085 % 2 caption right, inner and even page, onside outer
1086 % 3 caption bottom
1087 %
1088 \ifx\hvSet@capPos\hv@Left \hv@@capPos=0
1089 \else
1090 \ifx\hvSet@capPos\hv@Top \hv@@capPos=1
1091 \else
1092 \ifx\hvSet@capPos\hv@Right \hv@@capPos=2
1093 \else
1094 \ifx\hvSet@capPos\hv@Bottom \hv@@capPos=3
1095 \else
1096 \ifx\hvSet@capPos\hv@Inner \ifoddpageoroneside\hv@@capPos=0\else\hv@@capPos=2\fi
1097 \else
1098 \ifx\hvSet@capPos\hv@Outer \ifoddpage\hv@@capPos=2\else\hv@@capPos=0\fi
1099 % \ifoddpageoroneside\hv@@capPos=2\else\hv@@capPos=0\fi
1100 % even page (left=0) | odd page (onside) (right=2)
1101 \else
1102 \ifx\hvSet@capPos\hv@Before \hv@@capPos=0% same as cappos=left
1103 \else
1104 \ifx\hvSet@capPos\hv@After \hv@@capPos=2% same as capPos=right
1105 \fi
1106 \fi
1107 \fi
1108 \fi
1109 \fi
1110 \fi
1111 \fi
1112 \fi
1113 %%%
1114 %\typeout{>>>>>>>Pos: \the\hv@@capPos}%
1115 \savebox{\@tempboxa}{% ***** @tempbox start
1116 \expandafter\ifcase\the\hv@@capPos % 0 is LEFT START \ifcase
1117 \ifx\hvSet@capVPos\hv@Center
1118 \put@CaptionBox
1119 \hspace{\hv@floatCapSep}% capfloatsep
1120 \put@ObjectBox
1121 \else
1122 \ifx\hvSet@capVPos\hv@Top% caption and object at top aligned
1123 \put@CaptionBox[1]%
1124 \hspace{\hv@floatCapSep}% capfloatsep

```

```

1125     \put@ObjectBox[1]%
1126     \else% caption on bottom
1127     \put@CaptionBox[2]%
1128     \hspace{\hv@floatCapSep}% capfloatsep
1129     \put@ObjectBox[2]%
1130     \fi
1131     \fi% end caption left
1132     \or%1 is top
1133     \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
1134     \begin{minipage}{\wd\hvCaptionBox}%
1135     \else
1136     \begin{minipage}{\wd\hvObjectBox}%
1137     \fi
1138     \ifx\hvSet@capHPos\hv@Left% horizontal justification
1139     \raggedright
1140     \else
1141     \ifx\hvSet@capHPos\hv@Center \centering\else\raggedleft\fi
1142     \fi
1143     \ifhv@fbox
1144     \fbox{\usebox{\hvCaptionBox}}\@[0.5\hvBelowCaptionSkip]%
1145     \fbox{\usebox{\hvObjectBox}}%
1146     \else
1147     \usebox{\hvCaptionBox}\@[0.5\hvBelowCaptionSkip]%
1148     \usebox{\hvObjectBox}%
1149     \fi
1150     \end{minipage}%
1151     \or%2 is right
1152     \ifx\hvSet@capVPos\hv@Center
1153     \put@ObjectBox
1154     \hspace{\hv@floatCapSep}%
1155     \put@CaptionBox
1156     \else
1157     \ifx\hvSet@capVPos\hv@Top
1158     \put@ObjectBox[1]%
1159     \hspace{\hv@floatCapSep}% capfloatsep
1160     \put@CaptionBox[1]%
1161     \else
1162     \put@ObjectBox[2]% bottom
1163     \hspace{\hv@floatCapSep}% capfloatsep
1164     \put@CaptionBox[2]%
1165     \fi
1166     \fi
1167     \or%3 bottom
1168     \ifdim\wd\hvCaptionBox>\wd\hvObjectBox\begin{minipage}{\wd\hvCaptionBox}\else\begin{minipage}{\wd\hvObjectBox}\fi
1169     \ifx\hvSet@capHPos\hv@Left% horizontal justification
1170     \raggedright
1171     \else
1172     \ifx\hvSet@capHPos\hv@Center \centering\else\raggedleft\fi
1173     \fi
1174     \ifhv@fbox
1175     \fbox{\usebox{\hvObjectBox}}\@[0.5\hvAboveCaptionSkip]%
1176     \fbox{\usebox{\hvCaptionBox}}%
1177     \else
1178     \ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi\@[0.5\hvAboveCaptionSkip]%
1179     \usebox{\hvCaptionBox}%
1180     \fi
1181     \end{minipage}%
1182     \fi% \ifcase\the\hv@capPos
1183     }% End savebox Object and caption %%%%%%%%% @tempboxa
1184     %
1185     % now we rotate the object and caption, if needed
1186     %
1187     \ifx\hvSet@rotAngle\hv@Zero\usebox{@tempboxa}\else\rotatebox{\hvSet@rotAngle}{\usebox{@tempboxa}}\fi
1188     \ifx\hvSet@objectPos\hv@Center \hspace{\fill}\fi
1189     \endgroup% End the nonfloat part

```



```

1190 }% end marginnote
1191 \endgroup}% end of \marginnote and \@@hvFloatInMargin
1192
1193 %
1194 \newenvironment{hvFloatEnv}[1][\textwidth]
1195   {\minipage{#1}}
1196   {\endminipage}
1197 %
1198
1199 \ExplSyntaxOn
1200 \let\clist@item@N\clist_item:Nn
1201 \let\l@clist@Type\l_clist_Type
1202 \let\l@clist@LofCaption\l_clist_LofCaption
1203 \let\l@clist@Label\l_clist_Label
1204 \let\clist@count@N\clist_count:N
1205 \ExplSyntaxOff
1206
1207 \def\do@@@hvFloat{% special float page: caption <-> fullpage images
1208   \hvfloat@typeout{>>>do@@@hvFloat: special float page}%
1209   \ifx\hvSet@capPos\hv@After \global\hv@capPos=1
1210   \else
1211     \ifx\hvSet@capPos\hv@Even \global\hv@capPos=2
1212     \else
1213       \ifx\hvSet@capPos\hv@Odd \global\hv@capPos=3
1214       \else
1215         \ifx\hvSet@capPos\hv@Inner \global\hv@capPos=4
1216         \else
1217           \ifx\hvSet@capPos\hv@Outer \global\hv@capPos=5
1218           \else
1219             \ifx\hvSet@capPos\hv@Right \global\hv@capPos=6% only for twocolumn mode
1220             \else
1221               \ifx\hvSet@capPos\hv@Left \global\hv@capPos=7% only for twocolumn mode
1222               \else
1223                 \global\hv@capPos=0
1224               \fi
1225             \fi
1226           \fi
1227         \fi
1228       \fi
1229     \fi
1230   \fi
1231   \hvfloat@typeout{>>>do@@@hvFloat: hv@capPos is \the\hv@capPos}%
1232   \checkoddpage
1233   \hvfloat@typeout{>>>do@@@hvFloat: set floattype}%
1234   \set@caption@object{\hv@floatType}% set caption and object into a box
1235   \ifcase\hv@capPos% caption before object 0-> _always_ left
1236     \hvfloat@typeout{>>>do@@@hvFloat: setBottomCaption and setPageObject (0)}%
1237     \setBottomCaption\setPageObject
1238   \or% caption after object 1-> _always_ right
1239     \hvfloat@typeout{>>>do@@@hvFloat: setPageObject and setBottomCaption (1)}%
1240     \setPageObject\setBottomCaption
1241   \or% caption on even page 2-> left page
1242     \ifoddpage
1243       \hvfloat@typeout{>>>do@@@hvFloat: afterpage-> oddpage/setBottomCaption and setPageObject (2)}%
1244       \afterpage{\setBottomCaption\setPageObject}%
1245     \else% we are on an even page
1246       \hvfloat@typeout{>>>do@@@hvFloat: evenpage/setBottomCaption and setPageObject (2)}%
1247       \setBottomCaption\setPageObject
1248     \fi
1249   \or% caption on odd page 3->right page
1250     \if@twoside
1251       \hvfloat@typeout{>>>do@@@hvFloat: twoside and caption on oddpage (3)}%
1252       \if@twocolumn
1253         \hvfloat@typeout{>>>do@@@hvFloat: twoside/twocolumn and caption on oddpage (3)}%
1254         \ifoddpage
1255           \hvfloat@typeout{>>>do@@@hvFloat: twoside/twocolumn/oddpage and caption on oddpage (3)}%
1256           \if@firstcolumn% on right side

```

```

1257     \hvfloat@typeout{>>>do@@@hvFloat: twoside/twocolumn/oddpge/firstcolumn and caption on
1258         oddpage (3)}%
1259     \setBottomCaption\setPageObject
1260     \else
1261     \hvfloat@typeout{>>>do@@@hvFloat: afterpage->twoside/twocolumn/oddpge/secondcolumn and
1262         caption on oddpage (3)}%
1263     \afterpage{\setPageObject\setBottomCaption}% start next column
1264     \fi
1265     \else% left (even) page
1266     \hvfloat@typeout{>>>do@@@hvFloat: twoside/twocolumn/oddpge and caption on evenpage (3)}%
1267     \if@firstcolumn
1268     \hvfloat@typeout{>>>do@@@hvFloat: afterpage->twoside/twocolumn/evenpage/firstcolumn and
1269         caption on oddpage (3)}%
1270     \afterpage{\setPageObject\setBottomCaption}% start next column
1271     \else
1272     \hvfloat@typeout{>>>do@@@hvFloat: twoside/twocolumn/evenpage/secondcolumn and caption on
1273         oddpage (3)}%
1274     \setPageObject\setBottomCaption
1275     \fi
1276     \fi
1277     \else% onecolumn
1278     \hvfloat@typeout{>>>do@@@hvFloat: twoside/onecolumn and caption on oddpage (3)}%
1279     \ifoddpge
1280     \hvfloat@typeout{>>>do@@@hvFloat: twoside/onecolumn/oddpge and caption on oddpage (3)}%
1281     \setPageObject\setBottomCaption
1282     \else% even page
1283     \hvfloat@typeout{>>>do@@@hvFloat: afterpage->twoside/onecolumn/evenpage and caption on oddpage
1284         (3)}%
1285     \afterpage{\setPageObject\setBottomCaption}%
1286     \fi
1287     \fi
1288     \else% oneside
1289     \hvfloat@typeout{>>>do@@@hvFloat: oneside and caption on oddpage (3)}%
1290     \if@twocolumn
1291     \hvfloat@typeout{>>>do@@@hvFloat: oneside/twocolumn and caption on oddpage (3)}%
1292     \ifoddpge
1293     \hvfloat@typeout{>>>do@@@hvFloat: oneside/twocolumn/oddpge and caption on oddpage (3)}%
1294     \if@firstcolumn% on right side
1295     \hvfloat@typeout{>>>do@@@hvFloat: oneside/twocolumn/oddpge/firstcolumn and caption on
1296         oddpage (3)}%
1297     \setBottomCaption\setPageObject
1298     \else
1299     \hvfloat@typeout{>>>do@@@hvFloat: oneside/twocolumn/oddpge/secondcolumn and caption on
1300         oddpage (3)}%
1301     \setPageObject\setBottomCaption
1302     \fi
1303     \else
1304     \hvfloat@typeout{>>>do@@@hvFloat: oneside/twocolumn/evenpage and caption on oddpage (3)}%
1305     \if@firstcolumn% on left side
1306     \hvfloat@typeout{>>>do@@@hvFloat: afterpage->oneside/twocolumn/evenpage/firstcolumn and
1307         caption on oddpage (3)}%
1308     \afterpage{\setPageObject\setBottomCaption}%
1309     \else
1310     \hvfloat@typeout{>>>do@@@hvFloat: oneside/twocolumn/evenpage/secondcolumn and caption on
1311         oddpage (3)}%
1312     \setPageObject\setBottomCaption
1313     \fi
1314     \fi
1315     \else% onecolumn
1316     \hvfloat@typeout{>>>do@@@hvFloat: oneside/onecolumn and caption on oddpage (3)}%
1317     \ifoddpge
1318     \hvfloat@typeout{>>>do@@@hvFloat: oneside/onecolumn/oddpge and caption on oddpage (3)}%
1319     \setBottomCaption\setPageObject
1320     \else
1321     \hvfloat@typeout{>>>do@@@hvFloat: afterpage->oneside/onecolumn/evenpage and caption on oddpage
1322         (3)}%
1323     \afterpage{\setBottomCaption\setPageObject}%

```

```

1314 \fi
1315 \fi
1316 \fi
1317 \or% caption on the inner column 4->inner
1318 % \set@caption@object
1319 \if@twocolumn
1320 \hvfloat@typeout{>>>do@@@hvFloat: twocolumn and caption on inner column (4)}%
1321 \ifoddpge
1322 \hvfloat@typeout{>>>do@@@hvFloat: twoside/oddpge and caption on inner column (4)}%
1323 \if@firstcolumn% on right side
1324 \hvfloat@typeout{>>>do@@@hvFloat: twoside/oddpge/firstcolumn and caption on inner column (4)}%
1325 \setBottomCaption\setPageObject
1326 \else % right column on right side
1327 \hvfloat@typeout{>>>do@@@hvFloat: twoside/oddpge/secondcolumn and caption on inner column (4)}%
1328 \setPageObject\setBottomCaption% start next firstcolumn next page
1329 \fi
1330 \else
1331 \hvfloat@typeout{>>>do@@@hvFloat: twoside/evenpage and caption on inner column (4)}%
1332 \if@firstcolumn% on left side
1333 \hvfloat@typeout{>>>do@@@hvFloat: afterpage^2 -> twoside/evenpage/firstcolumn and caption on
inner column (4)}%
1334 \afterpage{\afterpage{\setBottomCaption\setPageObject}}% start next page/first column
1335 \else% left page/column
1336 \hvfloat@typeout{>>>do@@@hvFloat: twoside/evenpage/secondcolumn and caption on inner column (4)}%
1337 \setBottomCaption\setPageObject% start on same page/column
1338 \fi
1339 \fi
1340 \else% onecolumn
1341 \hvfloat@typeout{>>>do@@@hvFloat: onecolumn and caption on inner column (4)}%
1342 \setBottomCaption\setPageObject
1343 \fi
1344 \or% caption on the outer column 5->outer
1345 % \set@caption@object
1346 \if@twocolumn
1347 \hvfloat@typeout{>>>do@@@hvFloat: twocolumn and caption on outer column (5)}%
1348 \ifoddpge
1349 \hvfloat@typeout{>>>do@@@hvFloat: twocolumn/oddpge and caption on outer column (5)}%
1350 \if@firstcolumn
1351 \hvfloat@typeout{>>>do@@@hvFloat: afterpage^2 -> firstcolumn/oddpge/twocolumn and caption on
outer column (5)}%
1352 \afterpage{\afterpage{\setBottomCaption\setPageObject}}%
1353 \else
1354 \hvfloat@typeout{>>>do@@@hvFloat: afterpage -> twocolumn/oddpge/secondcolumn and caption on
outer column (5)}%
1355 \afterpage{\setBottomCaption\setPageObject}%
1356 \fi
1357 \else% even page (left)
1358 \hvfloat@typeout{>>>do@@@hvFloat: twocolumn/evenpage and caption on outer column (5)}%
1359 \if@firstcolumn
1360 \hvfloat@typeout{>>>do@@@hvFloat: twocolumn/evenpage/firstcolumn and caption on outer column
(5)}%
1361 \setBottomCaption\setPageObject
1362 \else
1363 \hvfloat@typeout{>>>do@@@hvFloat: twocolumn/evenpage/secondcolumn and caption on outer column
(5)}%
1364 %%% !!!! to-do: !!!!
1365 \fi
1366 \fi
1367 \else% onecolumn
1368 \setBottomCaption\setPageObject
1369 \fi
1370 \or% caption after object on same page 6->right for twocolumn
1371 \if@twocolumn
1372 \hvfloat@typeout{>>>do@@@hvFloat: twocolumn and caption after object (6)}%
1373 \if@firstcolumn

```

```

1374     \hvfloat@typeout{>>>do@@@hvFloat: afterpage -> twocolumn/firstcolumn and caption after object (6)
1375     }%
1376     \afterpage{\setPageObject\setBottomCaption}%
1377   \else
1378     \hvfloat@typeout{>>>do@@@hvFloat: twocolumn/secondcolumn and caption after object (6)}%
1379     \setPageObject\setBottomCaption
1380   \fi
1381   \else% always caption_after_object for onecolumn
1382     \hvfloat@typeout{>>>do@@@hvFloat: onecolumn and caption after object (6)}%
1383     \setPageObject\setBottomCaption
1384   \fi
1385 \or% caption before object on same page 7->left for twocolumn
1386   \if@twocolumn
1387     \hvfloat@typeout{>>>do@@@hvFloat: twocolumn and caption before object (7)}%
1388     \if@firstcolumn
1389       \hvfloat@typeout{>>>do@@@hvFloat: twocolumn/firstcolumn and caption before object (7)}%
1390       \setBottomCaption\setPageObject
1391     \else
1392       \hvfloat@typeout{>>>do@@@hvFloat: afterpage -> twocolumn/secondcolumn and caption before object
1393       (7)}%
1394       \afterpage{\setBottomCaption\setPageObject}%
1395     \fi
1396   \else% onecolumn -> same as before
1397     \hvfloat@typeout{>>>do@@@hvFloat: onecolumn and caption before object (7)}%
1398     \setBottomCaption\setPageObject
1399   \fi
1400 \endgroup% startet at main \hvFloat
1401 }
1402 %
1403
1404 %% ----- the doublepage obejcts -----
1405 %% ||lin+evenside --- |lin+oddside ---||
1406 %
1407 \def\do@hvFloat@doublePage#1{% image on left and right page with caption on the right page
1408 % #1-> 0/1 caption under/right
1409 \hvfloat@typeout{----- do@hvFloat@doublePage#1 -----}%
1410 \hvfloat@typeout{>>>do@hvFloat@doublePage: begin with definitions of \hv@floatObject}%
1411 \global\hv@leftPageObjectWidth=\the\dimexpr\paperwidth -lin-\evensidemargin-\hvSet@bindCorrection\relax
1412 \global\hv@tempWidthA=\the\dimexprlin+\oddsidemargin-\hvSet@bindCorrection\relax
1413 \xdef\hv@caption@format@temp{\hv@caption@format}% it gets lost otherwise for next afterpage
1414 \@dblfpbot=0\p@ \@plus 1fil%
1415 \global\hv@switchTypefalse
1416 \setcounter{hv@tempCNTfigA}{\value{figure}}%
1417 \setcounter{hv@tempCNTfigB}{\value{figure}}%
1418 \setcounter{hv@tempCNTtabA}{\value{table}}%
1419 \setcounter{hv@tempCNTtabB}{\value{table}}%
1420 \savebox\hvCaptionBox{% NO rotation
1421   \minipage{\textwidth}% minipage, to get hyphenation
1422   \let\@capttype\hv@floatType
1423   \caption*{\hv@LongCap}%
1424   \endminipage}%
1425 \savebox\hvObjectBox{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1426 \ifnum#1=0\relax % no rotation, caption below
1427   \hvfloat@typeout{Texthöhe: \the\textheight}%
1428   \hvfloat@typeout{Objekthöhe: \the\ht\hvObjectBox}%
1429   \hvfloat@typeout{Captionhöhe: \the\ht\hvCaptionBox}%
1430   \@tempdima=\dimexpr\ht\hvObjectBox+\ht\hvCaptionBox+\abovecaptionskip+\belowcaptionskip +\textfloatsep
1431   \relax%+floatsep\relax
1432   \hvfloat@typeout{Summe: \the\@tempdima}%
1433   \ifdim\@tempdima > \dimexpr\textheight-\hv@minTextlines\relax
1434     \hvfloat@typeout{\hvfloat: switched to floattype p}%
1435     \hv@switchTypetrue
1436   \fi
1437 \hvfloat@typeout{do@hvFloat@doublePage: hv@tempWidthA=\the\hv@tempWidthA}%

```

```

1438 \ifhv@forceOutput
1439 \do@hvFloat@doublePAGECaptionRight{#1}% no cheque
1440 \else
1441 \checkoddpage
1442 \ifoddpage
1443 \hvfloat@typeout{do@hvFloat@doublePage: oddpage}%
1444 \if@twocolumn
1445 \hvfloat@typeout{do@hvFloat@doublePage: oddpage/twocolumn}%
1446 \if@firstcolumn
1447 \hvfloat@typeout{do@hvFloat@doublePage: oddpage->twocolumn->firstcolumn}%
1448 \ifhv@switchType
1449 \hvfloat@typeout{hvfloat: switched to floatype p}%
1450 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1451 \else
1452 \hvfloat@typeout{calling do@hvFloat@doublePageCaptionRight}%
1453 %\afterpage{
1454 \afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1455 \fi
1456 \else
1457 \hvfloat@typeout{do@hvFloat@doublePage: oddpage->twocolumn->secondcolumn}%
1458 \ifhv@tugboat
1459 \do@hvFloat@doublePageCaptionRight{#1}%
1460 \else
1461 \ifhv@switchType
1462 \do@hvFloat@doublePAGECaptionRight{#1}%
1463 \else
1464 \afterpage{\do@hvFloat@doublePageCaptionRight{#1}}%
1465 \fi
1466 \fi
1467 \fi
1468 \else% onecolumn
1469 \hvfloat@typeout{do@hvFloat@doublePage: oddpage/onecolumn}%
1470 \ifhv@switchType
1471 \hvfloat@typeout{do@hvFloat@doublePage: oddpage/onecolumn/switchType}%
1472 \do@hvFloat@doublePAGECaptionRight{#1}%
1473 \else
1474 \hvfloat@typeout{do@hvFloat@doublePage: call do@hvFloat@doublePageCaptionRight #1}%
1475 \ifhv@forceLeft
1476 \do@hvFloat@doublePageCaptionRight{#1}% no \afterpage
1477 \else
1478 \afterpage{\do@hvFloat@doublePageCaptionRight{#1}}%
1479 \fi
1480 \fi
1481 \fi
1482 \else% we have an even page
1483 \hvfloat@typeout{do@hvFloat@doublePage: evenpage -> (\thepage)}%
1484 \if@twocolumn
1485 \if@firstcolumn
1486 \ifhv@switchType
1487 \afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}%
1488 \else
1489 \afterpage{\afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}}%
1490 \fi
1491 \else% second column
1492 \ifhv@switchType
1493 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1494 \else
1495 \afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1496 \fi
1497 \fi
1498 \else% onecolumn
1499 \hvfloat@typeout{do@hvFloat@doublePage: evenpage/onecolumn -> (\thepage)}%
1500 \ifhv@switchType
1501 \hvfloat@typeout{do@hvFloat@doublePage: evenpage/onecolumn/switchType -> (\thepage)}%
1502 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1503 \else
1504 \hvfloat@typeout{do@hvFloat@doublePage: evenpage/onecolumn/noSwitchType -> (\thepage)}%

```

```

1505     \ifhv@forceLeft
1506     \hvfloat@typeout{do@hvFloat@doublePage:evenpage/onecolumn/noSwitchType/forceLeft -> (\thepage)}%
1507     \afterpage{\do@hvFloat@doublePageCaptionRight{#1}}%
1508     \else
1509     \afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight{#1}}}%
1510     \fi
1511     \fi
1512     \fi
1513     \fi
1514     \let\@fptop\hv@fptop
1515     \fi
1516     \endgroup% started at main macro \hvFloat
1517     \hvfloat@typeout{----- do@hvFloat@doublePage#1 ... Ende -----}%
1518 }
1519 %
1520 \def\do@hvFloat@doublePageCaptionRight#1{% image on left and right page with caption on the right page
-----
1521     \hvfloat@typeout{do@hvFloat@doublePageCaptionRight->start}%
1522     \do@hvFloat@doublePageCaptionRightObjectLeft{0pt}%
1523     \afterpage{\do@hvFloat@doublePageCaptionRightObjectRight{#1}}%
1524 }
1525 %
1526 \def\do@hvFloat@doublePageCaptionRightObjectLeft#1{% left part of the object
1527     \begin{\hv@floatType}[!t]
1528     \hvfloat@typeout{>>>doublePage: begin with left side of the object \hv@floatObject}%
1529     \hv@set@noverticalSpace
1530     \hfuzz=\maxdimen
1531     \let\c@hv@tempCNTfigA\c@figure
1532     \let\c@hv@tempCNTtabA\c@table
1533     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1534     \hvfloat@typeout{Float position parameter is for left page: !t}%
1535     \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1536     \clipbox*{0 -\depth} \hv@leftPageObjectWidth{ \height}{\usebox\hvObjectBox}%
1537     \ifx\hv@label\@empty
1538     \else
1539     \ifx\hv@floatType\hv@figure
1540     \global\refstepcounter{hv@tempCNTfigA}%
1541     \else
1542     \global\refstepcounter{hv@tempCNTtabA} before caption
1543     \fi
1544     \label{\hv@label}%
1545     \fi
1546     \ifhv@global@sameHeight
1547     \hvfloat@typeout{text should be of same height of both pages}%
1548     \par\noindent\phantom{\parbox{\textwidth}{\caption*{\hv@longCap}}}%
1549     \vspace{-2pt}%
1550     \fi
1551     \hv@reset@noverticalSpace
1552     \hvfloat@typeout{>>>doublePage: end with left side of the object \hv@floatObject}%
1553     \end{\hv@floatType}%
1554 }
1555 %
1556 \def\do@hvFloat@doublePageCaptionRightObjectRight#1{% right part of the object
1557     \begin{\hv@floatType}[!t]
1558     \hvfloat@typeout{>>>doublePage: begin with right side of the object \hv@floatObject}%
1559     \hv@set@noverticalSpace
1560     \hfuzz=\maxdimen
1561     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1562     \savebox\hvObjectBox{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1563     \hv@tempWidthA=\the\dimexprlin+\oddsidemargin-\hvSet@bindCorrection\relax% FÜR DTK
1564     \hspace*{-\hv@tempWidthA}%
1565     \hv@leftPageObjectWidth=\the\dimexpr\paperwidth-1in-\evensidemargin-\hvSet@bindCorrection\relax% FÜR
FTK
1566     \savebox\hv@rightBox{\clipbox*{\hv@leftPageObjectWidth{ -\depth} \width{ \height}}{\usebox\
hvObjectBox}}%
1567     \hv@tempWidthB=\dimexpr\textwidth-\wd\hv@rightBox-\hvSet@bindCorrection+1in+\oddsidemargin-\
hv@floatCapSep\relax

```

```

1568 \hvfloat@typeout{Height of right box: \the\ht\hv@rightBox}%
1569 \hvfloat@typeout{Depth of right box : \the\dp\hv@rightBox}%
1570 \ifdim\dp\hv@rightBox > \z@
1571 \raisebox{\depth}{\usebox\hv@rightBox}%
1572 \else
1573 \usebox\hv@rightBox
1574 \fi
1575 \c@hv@tempCNTfigB=\numexpr\c@figure-1\relax
1576 \c@hv@tempCNTtabB=\numexpr\c@table-1\relax
1577 \ifx\hv@label\@empty\else
1578 \ifx\hv@floatType\hv@figure
1579 \refstepcounter{hv@tempCNTfigB}%
1580 \else
1581 \refstepcounter{hv@tempCNTtabB}% before caption
1582 \fi
1583 \label{\hv@label-2}%
1584 \fi
1585 \ifx\hv@caption@format@temp\@empty\else
1586 \expandafter\captionsetup\expandafter{\hv@caption@format@temp}%
1587 \fi
1588 \c@figure=\numexpr\c@hv@tempCNTfigB-1\relax
1589 \c@table=\numexpr\c@hv@tempCNTtabB-1\relax
1590 \ifnum#1>\z@ % caption on the right
1591 \hvfloat@typeout{doublePage: capAngle=\hvSet@capAngle}%
1592 \ifnum\hvSet@capAngle > \z@
1593 \hspace{\hv@floatCapSep}%
1594 \rlap{\rotatexbox{\hvSet@capAngle}{\parbox[b]{\the\dimexpr\ht\hv@objectBox+\dp\hv@objectBox}{%
1595 \abovecaptionskip=0pt% local inside parbox
1596 \belowcaptionskip=0pt% local inside parbox
1597 \ifx\relax\hv@shortCap\relax
1598 \caption{\hv@longCap}%
1599 \else
1600 \caption[\hv@shortCap]{\hv@longCap}%
1601 \fi
1602 }}}%
1603 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1604 \else
1605 \hv@tempWidthB=\dimexpr\textwidth-\wd\hv@rightBox-\hvSet@bindCorrection+lin+\oddsidemargin-\
1606 \hv@floatCapSep\relax
1607 \hspace{\hv@floatCapSep}%
1608 \rlap{\parbox[b][\dimexpr\ht\hv@rightBox+\dp\hv@rightBox][\hv@capVPos]{\hv@tempWidthB}{%
1609 \abovecaptionskip=0pt % local inside parbox
1610 \belowcaptionskip=0pt % local inside parbox
1611 \ifx\hv@shortCap\@empty
1612 \caption{\hv@longCap}%
1613 \else
1614 \caption[\hv@shortCap]{\hv@longCap}%
1615 \fi
1616 }}}%
1617 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1618 \fi
1619 \else % #1 = 0 caption below
1620 \ifx\relax\hv@shortCap\relax
1621 \caption{\hv@longCap}%
1622 \else
1623 \caption[\hv@shortCap]{\hv@longCap}%
1624 \fi
1625 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1626 \fi
1627 \vspace{0pt}%
1628 \hv@reset@noverticalSpace
1629 \hvfloat@typeout{>>>doublePage: end with right side of the object \hv@floatObject}%
1630 \end{\hv@floatType*}
1631 }
1632 %
1633 \newsavebox\hv@boxLeftPage

```

```

1634 %
1635 %% ||lin+evenside --- |lin+oddside ---||
1636 %
1637
1638 \def\do@hvFloat@doublePAGE#1{% image on left and right page with caption on the right
-----
1639 % #1-> 0/1 caption under/right
1640 % \global\setlength\hv@tempWidthA{\the\dimexprlin+\oddsidemargin-\hvSet@bindCorrection}%
1641 % \global\setlength\hv@leftPageObjectWidth{\the\dimexprpaperwidth-lin-\evensidemargin-\hvSet@bindCorrection}%
1642 \expandafter\global\expandafter\savebox\expandafter\hvObjectBox\expandafter{\ifhv@useOBox\usebox{\hvOBox}
\else\hv@floatObject\fi}%
1643 \expandafter\global\expandafter\savebox\expandafter\hv@boxLeftPage\expandafter{\clipbox*{0 -\depth} \hv@leftPageObjectWidth} \height}{\usebox\hvObjectBox}%
1644 \expandafter\global\expandafter\savebox\expandafter\hv@boxRightPage\expandafter{\clipbox*{\hv@leftPageObjectWidth} -\depth} \width} \height}{\usebox\hvObjectBox}%
1645 \checkoddpage
1646 \ifoddpage
1647 \hvfloat@typeout{do@hvFloat@doublePAGE: oddpage}%
1648 \if@twocolumn
1649 \if@firstcolumn
1650 \hvfloat@typeout{do@hvFloat@doublePAGE: ifoddpage->twocolumn->firstcolumn}%
1651 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1652 \else
1653 \hvfloat@typeout{do@hvFloat@doublePAGE: ifoddpage->twocolumn->secondcolumn}%
1654 \do@hvFloat@doublePAGECaptionRight{#1}%
1655 \fi
1656 \else
1657 \do@hvFloat@doublePAGECaptionRight{#1}%
1658 \fi
1659 \else
1660 \hvfloat@typeout{do@hvFloat@doublePAGE: evenpage}%
1661 \if@twocolumn
1662 \if@firstcolumn
1663 \afterpage{\afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}}%
1664 \else
1665 \afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}%
1666 \fi
1667 \else
1668 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}% onecolumn/left page
1669 \fi
1670 \fi
1671 \endgroup% startet at main macro
1672 }
1673 %
1674 \def\do@hvFloat@doublePAGECaptionRight#1{% image on left and right page with caption on the right
-----
1675 % #1-> 0/1 caption under/right
1676 \hvfloat@typeout{do@hvFloat@doublePAGECaptionRight->start}%
1677 \afterpage{%
1678 \hfuzz=\maxdimen
1679 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1680 \ifhv@useOBox
1681 \global\let\hvObjectBox\hvOBox
1682 \else
1683 \global\savebox\hvObjectBox{\hv@floatObject}%
1684 \fi
1685 \noindent
1686 \global\hv@tempWidthA=\the\dimexprlin+\oddsidemargin-\hvSet@bindCorrection%
1687 \global\hv@leftPageObjectWidth=\the\dimexprpaperwidth-lin-\evensidemargin-\hvSet@bindCorrection%
1688 \clipbox*{0 -\depth} \hv@leftPageObjectWidth} \height}{\usebox\hvObjectBox}%
1689 \null\newpage\if@twocolumn\null\newpage\fi
1690 \expandafter\global\expandafter\savebox\expandafter\hvObjectBox\expandafter{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1691 \noindent
1692 \hspace*{\dimexpr-\hv@tempWidthA}%
1693 \clipbox*{\the\hv@leftPageObjectWidth} -\depth} \width} \height}{\usebox\hvObjectBox}%

```



```

1694 \begingroup
1695 \ifnum#1>0
1696 \medskip
1697 \ifdim\dp\hvObjectBox > \z@
1698 \rotatebox[origin=c]{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1699 \ifx\relax\hv@shortCap\relax
1700 \captionof{\hv@floatType}{\hv@longCap}%
1701 \else
1702 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1703 \fi
1704 }}%
1705 \ifx\hv@label\@empty\else\label{\hv@label}\fi
1706 \else
1707 \rotatebox{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1708 \ifx\relax\hv@shortCap\relax
1709 \captionof{\hv@floatType}{\hv@longCap}%
1710 \else
1711 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1712 \fi
1713 }}%
1714 \ifx\hv@label\@empty\else\label{\hv@label}\fi
1715 \fi
1716 \else% caption not rotated
1717 \par\noindent
1718 \parbox{\textwidth}{%
1719 \ifx\relax\hv@shortCap\relax
1720 \captionof{\hv@floatType}{\hv@longCap}%
1721 \else
1722 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1723 \fi
1724 \ifx\hv@label\@empty\else\label{\hv@label}\fi
1725 }%
1726 \fi
1727 \endgroup
1728 \newpage\if@twocolumn\null\newpage\fi
1729 }%
1730 }
1731 %
1732 %% ||lin+evenside --- |lin+oddside ---||
1733 %
1734 \def\do@hvFloat@doubleFULLPAGE#1{% image on left and right page with caption before/below/right/after
1735 % #1-> 0/1 caption under/right
1736 \hvfloat@typeout{>>> do@hvFloat@doubleFULLPAGE: #1}%
1737 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1738 \ifx\hvSet@capPos\hv@After \global\hv@capPos=1
1739 \else
1740 \ifx\hvSet@capPos\hv@Before \global\hv@capPos=0
1741 \else
1742 \global\hv@capPos=2 % other caption type
1743 \fi\fi
1744 \checkoddpage
1745 \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1746 \global\hv@tempWidthA=\dimexpr-\oddsidemargin-lin-\parindent+\hvSet@bindCorrection% the width of the
right side offset
1747 \global\hv@tempWidthB=\dimexpr\ht\hvCaptionBox+\wd\hvObjectBox+2\hvSet@bindCorrection%
1748 \global\hv@leftPageObjectWidth=\dimexpr\paperwidth-\hvSet@bindCorrection%
1749 % \savebox\hv@leftBox{\clipbox*{0 0 \the\hv@leftPageObjectWidth}{ \height}{\usebox\hvObjectBox}}%
1750 % \savebox\hv@rightBox{\clipbox*{\the\hv@leftPageObjectWidth}{ \depth}{ \width}{ \height}{\usebox\
hvObjectBox}}%
1751 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
1752 \ifoddpage
1753 \hvfloat@typeout{do@hvFloat@doubleFULLPAGE: oddpage}%
1754 \ifcase\hv@capPos % =0 Caption before
1755 \hvfloat@typeout{do@hvFloat@doubleFULLPAGE: oddpage/caption before (0)}%
1756 \if@twocolumn
1757 \hvfloat@typeout{do@hvFloat@doubleFULLPAGE: oddpage/caption before/twocolumn}%
1758 \if@firstcolumn

```

```

1759 \hvfloating@typeout{do@hvFloat@doubleFULLPAGE: oddpage/caption before/twocolumn/firstcolumn}%
1760 \ifhv@twoColumnCaption
1761 \hvfloating@typeout{do@hvFloat@doubleFULLPAGE: afterpage -> oddpage/caption before/twocolumn/
      firstcolumn/twoColumnCaption}%
1762 \set@Normal@Bottom@Caption*
1763 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1764 \else
1765 \hvfloating@typeout{do@hvFloat@doubleFULLPAGE: afterpage -> oddpage/caption before/twocolumn/
      firstcolumn/oneColCaption}%
1766 \afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1767 \fi
1768 \else
1769 \hvfloating@typeout{do@hvFloat@doubleFULLPAGE: oddpage/caption before/twocolumn/secondcolumn}%
1770 \set@Normal@Bottom@Caption
1771 \do@hvFloat@doubleFULLPAGE@CaptionBefore
1772 \fi
1773 \else
1774 \hvfloating@typeout{do@hvFloat@doubleFULLPAGE: oddpage/caption before/onecolumn}%
1775 \set@Normal@Bottom@Caption
1776 \do@hvFloat@doubleFULLPAGE@CaptionBefore
1777 \fi
1778 \or % =1 Caption after
1779 \hvfloating@typeout{do@hvFloat@doubleFULLPAGE: oddpage/caption after (1)}%
1780 \ifhv@twoColumnCaption
1781 \hvfloating@typeout{do@hvFloat@doubleFULLPAGE: oddpage/caption after/twoColCaption (1)}%
1782 \if@firstcolumn
1783 \hvfloating@typeout{do@hvFloat@doubleFULLPAGE: oddpage/caption after/firstcolumn (1)}%
1784 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol}%
1785 \else
1786 \hvfloating@typeout{do@hvFloat@doubleFULLPAGE: oddpage/caption after/secondcolumn (1)}%
1787 \do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol
1788 \fi
1789 \else
1790 \hvfloating@typeout{do@hvFloat@doubleFULLPAGE: oddpage/caption after/oneColCaption (1)}%
1791 \if@twocolumn
1792 \hvfloating@typeout{do@hvFloat@doubleFULLPAGE: oddpage/caption after/twoColCaption/twocolumn (1)}%
1793 \if@firstcolumn
1794 \hvfloating@typeout{do@hvFloat@doubleFULLPAGE: afterpage -> oddpage/caption after/twoColCaption/
      twocolumn/firstcolumn (1)}%
1795 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter}%
1796 \else
1797 \hvfloating@typeout{do@hvFloat@doubleFULLPAGE: oddpage/caption after/twoColCaption/twocolumn/
      secondcolumn (1)}%
1798 \do@hvFloat@doubleFULLPAGE@CaptionAfter
1799 \fi
1800 \else
1801 \hvfloating@typeout{do@hvFloat@doubleFULLPAGE: oddpage/caption after/twoColCaption/onecolumn (1)}%
1802 \do@hvFloat@doubleFULLPAGE@CaptionAfter
1803 \fi
1804 \fi
1805 \else% |ifcase >1 all other Captions
1806 \if@twocolumn
1807 \if@firstcolumn
1808 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}%
1809 \else
1810 \do@hvFloat@doubleFULLPAGE@CaptionOther{#1}%
1811 \fi
1812 \else % |if@twocolumn
1813 \do@hvFloat@doubleFULLPAGE@CaptionOther{#1}%
1814 \fi
1815 \fi% |ifcase
1816 \else% we have an even page
1817 \hvfloating@typeout{do@hvFloat@doubleFULLPAGE: evenpage (1 -- \thepage)}%
1818 \ifcase\hv@capPos% Before
1819 \hvfloating@typeout{do@hvFloat@doubleFULLPAGE: evenpage/caption before (0 -- \thepage)}%
1820 \if@twocolumn
1821 \hvfloating@typeout{do@hvFloat@doubleFULLPAGE: evenpage/caption before/twocolumn (0 -- \thepage)}%

```

```

1822 \if@firstcolumn
1823 \hvfloat@typeout{do@hvFloat@doubleFULLPAGE: evenpage/caption before/twocolumn/firstcolumn (0 --
\thepage)}%
1824 \ifhv@twoColumnCaption
1825 \hvfloat@typeout{do@hvFloat@doubleFULLPAGE: afterpage^2->evenpage/caption before/twocolumn/
firstcolumn/twoColCap (0 -- \thepage)}%
1826 \afterpage{\afterpage\set@Normal@Bottom@Caption*\afterpage\
do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}%
1827 \else
1828 \hvfloat@typeout{do@hvFloat@doubleFULLPAGE: afterpage^2 -> evenpage/caption before/twocolumn/
firstcolumn/oneColCap (0 -- \thepage)}%
1829 \afterpage{\afterpage{\afterpage{\set@Normal@Bottom@Caption\
do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}}}%
1830 \fi
1831 \else
1832 \hvfloat@typeout{do@hvFloat@doubleFULLPAGE: afterpage^2->evenpage/caption before/twocolumn/
secondcolumn (0 -- \thepage)}%
1833 \afterpage{\afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore{#1}}}}%
1834 \fi
1835 \else
1836 \hvfloat@typeout{do@hvFloat@doubleFULLPAGE: afterpage -> evenpage/caption before/onecolumn (0 -- \
thepage)}%
1837 \afterpage{\set@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
1838 \fi
1839 \or % capPos after
1840 \hvfloat@typeout{do@hvFloat@doubleFULLPAGE: evenpage/caption after (1 -- \thepage)}%
1841 \if@twocolumn
1842 \hvfloat@typeout{do@hvFloat@doubleFULLPAGE: evenpage/caption after/twocolumn (1 -- \thepage)}%
1843 \if@firstcolumn
1844 \hvfloat@typeout{do@hvFloat@doubleFULLPAGE: evenpage/caption after/twocolumn/firstcolumn (1 -- \
thepage)}%
1845 \ifhv@twoColumnCaption
1846 \hvfloat@typeout{do@hvFloat@doubleFULLPAGE: afterpage -> evenpage/caption after/twocolumn/
firstcolumn/twoColCaption (1 -- \thepage)}%
1847 \afterpage{\afterpage\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol{#1}}}}%
1848 \else
1849 \hvfloat@typeout{do@hvFloat@doubleFULLPAGE: afterpage -> evenpage/caption after/twocolumn/
firstcolumn/oneColCaption (1 -- \thepage)}%
1850 \afterpage{\afterpage\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter{#1}}}}%
1851 \fi
1852 \else
1853 \hvfloat@typeout{do@hvFloat@doubleFULLPAGE: evenpage/caption after/twocolumn/secondcolumn (1 --
\thepage)}%
1854 \ifhv@twoColumnCaption
1855 \hvfloat@typeout{do@hvFloat@doubleFULLPAGE: afterpage1 2 -> evenpage/caption after/twocolumn/
secondcolumn/twoColCaption (1 -- \thepage)}%
1856 \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol{#1}}}}%
1857 \else
1858 \hvfloat@typeout{do@hvFloat@doubleFULLPAGE: afterpage1 2 -> evenpage/caption after/twocolumn/
secondcolumn/oneColCaption (1 -- \thepage)}%
1859 \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter{#1}}}}%
1860 \fi
1861 \fi
1862 \else
1863 \hvfloat@typeout{do@hvFloat@doubleFULLPAGE: afterpage -> evenpage/caption after/onecolumn (1 -- \
thepage)}%
1864 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionAfter}%
1865 \fi
1866 \else % lifcase Any other caption
1867 \if@twocolumn
1868 \if@firstcolumn
1869 \afterpage{\afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}}}}%
1870 \else
1871 \afterpage{\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}}}%
1872 \fi
1873 \else
1874 \afterpage{\do@hvFloat@doubleFULLPAGE@CaptionOther{#1}}}%

```

```

1875   \fi
1876   \fi% ifcase
1877   \fi% main ifoddpge
1878   \endgroup% started at main macro \hvFloat
1879 }
1880
1881 \def\set@Normal@Bottom@Caption{\@ifnextchar*\set@Normal@Bottom@CaptionStar\set@Normal@Bottom@Caption@}
1882 \def\set@Normal@Bottom@Caption@{%
1883   \begin{\hv@floatType}[\b]
1884     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1885     \ifhv@separatorLine\drawSepLine\fi
1886 %     \expandafter\captionsetup\expandafter{\hv@caption@format}%
1887     \ifhv@onlyText
1888       \hv@longCap
1889     \else
1890       \ifx\hv@shortCap\@empty
1891         \captionof{\hv@floatType}{\hv@longCap}%
1892       \else
1893         \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1894       \fi
1895     \fi
1896     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1897   \end{\hv@floatType}%
1898 }
1899 \def\set@Normal@Bottom@CaptionStar*{%
1900   \begin{\hv@floatType*}[\b]
1901     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1902     \ifhv@separatorLine\drawSepLine\fi
1903 %     \expandafter\captionsetup\expandafter{\hv@caption@format}%
1904     \ifhv@onlyText
1905       \hv@longCap
1906     \else
1907       \ifx\hv@shortCap\@empty
1908         \captionof{\hv@floatType}{\hv@longCap}%
1909       \else
1910         \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1911       \fi
1912     \fi
1913     \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1914   \end{\hv@floatType*}%
1915 }
1916
1917 \def\do@hvFloat@doubleFULLPAGE@CaptionBefore{%
1918   \afterpage{%
1919     \hfuzz=\maxdimen
1920     \global\savebox{\hv@objectBox}{\ifhv@useOBox\usebox{\hv@OBox}\else\hv@floatObject\fi}%
1921     \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\lineskip
1922       }% no interlineskip
1923     \hspace*{\the\dimexpr-\evensidemargin-\parindent-lin}%
1924     \thispagestyle{empty}%
1925     \ifx\hv@floatType\hv@figure
1926       \global\refstepcounter{hv@tempCNTfigB}%
1927     \else
1928       \global\refstepcounter{hv@tempCNTtabB}% before caption
1929     \fi
1930     \expandafter\label\expandafter{\hv@label}%
1931     \clipbox*{0 0 \the\hv@leftPageObjectWidth{} \height}{\usebox\hv@objectBox}%
1932     \afterpage{%
1933       \if@twocolumn\newpage\null\newpage\fi
1934       \global\savebox{\hv@objectBox}{\ifhv@useOBox\usebox{\hv@OBox}\else\hv@floatObject\fi}%
1935       \thispagestyle{empty}%
1936       \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\
1937         lineskip}% -0.5\paperheight+0.5\ht\hv@objectBox
1938       \hspace*{\hv@tempWidthA}%
1939       \global\savebox{\hv@objectBox}{\ifhv@useOBox\usebox{\hv@OBox}\else\hv@floatObject\fi}%
1940       \clipbox*{\the\hv@leftPageObjectWidth{} \dp\hv@objectBox{} \wd\hv@objectBox{} \ht\hv@objectBox}{\usebox
1941         \hv@objectBox}%

```

```

1939 \ifx\hv@floatType\hv@figure
1940 \global\refstepcounter{hv@tempCNTfigA}%
1941 \else
1942 \global\refstepcounter{hv@tempCNTtabA}% before caption
1943 \fi
1944 \expandafter\label\expandafter{\hv@label-2}%
1945 \newpage\if@twocolumn\newpage\fi
1946 }}%
1947 }
1948
1949 \newif\ifhv@temp
1950
1951 \def\do@hvFloat@doubleFULLPAGE@CaptionAfter{%
1952 \afterpage{%
1953 \hfuzz=\maxdimen
1954 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1955 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\lineskip
1956 }% no interlineskip
1957 \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
1958 \thispagestyle{empty}%
1959 \clipbox*{0 \the\dp\hvObjectBox} \the\hv@leftPageObjectWidth{ \the\ht\hvObjectBox}{\usebox\
1960 hvObjectBox}%
1961 \ifx\hv@floatType\hv@figure
1962 \refstepcounter{hv@tempCNTfigA}%
1963 \else
1964 \refstepcounter{hv@tempCNTtabA}% before caption
1965 \fi
1966 \ifx\hv@label\@empty\else\label{\hv@label}\fi
1967 \newpage\if@twocolumn\newpage\fi
1968 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1969 \thispagestyle{empty}%
1970 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\
1971 lineskip}% -0.5\paperheight+0.5\ht\hvObjectBox
1972 \hspace*{\hv@tempWidthA}%
1973 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
1974 \clipbox*{\the\hv@leftPageObjectWidth{ \dp\hvObjectBox} \wd\hvObjectBox} \ht\hvObjectBox}{\usebox
1975 \hvObjectBox}%
1976 \ifx\hv@floatType\hv@figure
1977 \refstepcounter{hv@tempCNTfigB}%
1978 \else
1979 \refstepcounter{hv@tempCNTtabB}% before caption
1980 \fi
1981 \expandafter\label\expandafter{\hv@label-2}%
1982 \newpage\if@twocolumn\newpage\fi
1983 \begin{\hv@floatType}[!b]
1984 \ifhv@separatorLine\drawSepLine\fi
1985 \expandafter\captionsetup\expandafter{\hv@caption@format}%
1986 \ifhv@onlyText
1987 \hv@longCap
1988 \else
1989 \ifx\hv@shortCap\@empty
1990 \captionof{\hv@floatType}{\hv@longCap}%
1991 \else
1992 \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
1993 \fi
1994 \fi
1995 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1996 \end{\hv@floatType}%
1997 }}%
1998 }
1999
2000 \def\do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol{%
2001 \hvfloat@typeout{do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol: start} %
2002 \afterpage{%
2003 \hvfloat@typeout{do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol: afterpage start} %
2004 \global\savebox{\hvObjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv@floatObject\fi}%
2005 \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\lineskip

```

```

    }% no interlineskip
2002 \hspace*{\the\dimexpr-\evensidemargin-\parindent-lin}%
2003 \thispagestyle{empty}%
2004 \ifx\hv@floatType\hv@figure
2005   \refstepcounter{hv@tempCNTfigA}%
2006 \else
2007   \refstepcounter{hv@tempCNTtabA}% before caption
2008 \fi
2009 \ifx\hv@label\@empty\else\label{\hv@label}\fi
2010 \clipbox*{0 0 \the\hv@leftPageObjectWidth{} \height}{\usebox\hvObjectBox}%
2011 \newpage\if@twocolumn\null\newpage\fi
2012 \hvfloat@typeout{do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol: insert newpage} %
2013 \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
2014 \thispagestyle{empty}%
2015 \vspace*{\the\dimexpr-lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\
    lineskip}% -0.5\paperheight+0.5\ht\hvObjectBox
2016 \hspace*{\hv@tempWidthA}%
2017 \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
2018 \clipbox*{\the\hv@leftPageObjectWidth{} \dp\hvObjectBox{} \wd\hvObjectBox{} \ht\hvObjectBox}{\usebox
    \hvObjectBox}%
2019 \ifx\hv@floatType\hv@figure
2020   \refstepcounter{hv@tempCNTfigB}%
2021 \else
2022   \refstepcounter{hv@tempCNTtabB}% before caption
2023 \fi
2024 \ifx\hv@label\@empty\else\label{\hv@label-2}\fi
2025 \newpage\if@twocolumn\null\newpage\fi
2026 \begin{\hv@floatType*}[!b]
2027   \hv@twoColumnCaptiontrue
2028   \ifhv@separatorLine\drawSepLine\fi
2029 % \expandafter\captionsetup\expandafter{\hv@caption@format}%
2030   \ifhv@onlyText
2031     \hv@longCap
2032   \else
2033     \ifx\hv@shortCap\@empty
2034       \captionof{\hv@floatType}{\hv@longCap}%
2035     \else
2036       \captionof{\hv@floatType}{\hv@shortCap}{\hv@longCap}%
2037     \fi
2038   \fi
2039   \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
2040 \end{\hv@floatType*}%
2041 }%
2042 \hvfloat@typeout{do@hvFloat@doubleFULLPAGE@CaptionAfterTwoCol: afterpage done} %
2043 }
2044
2045 \def\do@hvFloat@doubleFULLPAGE@CaptionOther#1{%
2046   \afterpage{%
2047     \vspace*{\the\dimexpr-lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\lineskip
        }% -0.5\paperheight+0.5\ht\hvObjectBox
2048     \hspace*{\the\dimexpr-\evensidemargin-\parindent-lin}%
2049     \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
2050     \thispagestyle{empty}%
2051     \hfuzz=\maxdimen
2052     \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
2053     \clipbox*{0 \depth{} \hv@leftPageObjectWidth{} \height}{\usebox\hvObjectBox}%
2054     \ifx\hv@floatType\hv@figure
2055       \refstepcounter{hv@tempCNTfigA}%
2056     \else
2057       \refstepcounter{hv@tempCNTtabA}% before caption
2058     \fi
2059     \label{\hv@label}%
2060     \afterpage{%
2061       \if@twocolumn\newpage\if@firstcolumn\else\null\newpage\fi\fi
2062       \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
2063       \thispagestyle{empty}%
2064       \vspace*{\the\dimexpr-lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip-\parskip+1.5\

```

```

2065     \lineskip}% -0.5\paperheight+0.5\ht\hvObjectBox
2066     \hspace*{\hv@tempWidthA}%
2067     \clipbox*{\hv@leftPageObjectWidth{} \dp\hvObjectBox{} \wd\hvObjectBox{} \ht\hvObjectBox}{\usebox\
2068         hvObjectBox}%
2069     \ifx\hv@floatType\hv@figure
2070         \refstepcounter{hv@tempCNTfigB}%
2071     \else
2072         \refstepcounter{hv@tempCNTtabB}% before caption
2073     \fi
2074     \expandafter\label\expandafter{\hv@label-2}%
2075     \savebox\hvCaptionBox{\parbox{0.9\ht\hvObjectBox}{\captionof*{\hv@floatType}{\hv@longCap}}}%
2076     \ifnum#1 > 0\relax % rotation with 90°
2077         \setlength\hv@tempWidthB{\dimexpr\ht\hvCaptionBox+\wd\hvObjectBox+2\hvSet@bindCorrection}%
2078         \ifdim\hv@tempWidthB < 2\paperwidth
2079             \rotatebox[origin=lb]{90}{\makebox[\paperheight][c]{\parbox{0.8\ht\hvObjectBox}{%
2080                 \expandafter\captionsetup\expandafter{\hv@caption@format}%
2081                 \ifhv@onlyText
2082                     \hv@longCap
2083                 \else
2084                     \ifx\hv@shortCap\@empty
2085                         \captionof{\hv@floatType}{\hv@longCap}%
2086                     \else
2087                         \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
2088                     \fi
2089                 }}}% rotatebox
2090             \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
2091         \else% ifdim: no space left on page
2092             \put(-2\ht\hvCaptionBox,0.5\ht\hvObjectBox){\makebox(0,0){\rotatebox{90}{\minipage{\textwidth}\
2093                 centering
2094                 \parbox{0.8\textwidth}{%
2095                     \ifhv@onlyText
2096                         \hv@longCap
2097                     \else
2098                         \ifx\hv@shortCap\@empty
2099                             \captionof{\hv@floatType}{\hv@longCap}%
2100                         \else
2101                             \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
2102                         \fi
2103                     \fi
2104                 }}}%
2105             \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
2106             \endminipage}}}%
2107         \fi
2108     \else% ifnum, caption not rotated, under or over the right page
2109         \hv@tempWidthA=\the\dimexpr\paperheight-\ht\hvObjectBox\relax
2110         \ifdim\hv@tempWidthA > \ht\hvCaptionBox
2111             \else
2112                 \put(\the\dimexpr1.5\paperwidth-\wd\hvObjectBox-\hvSet@bindCorrection,\the\dimexpr\ht\
2113                     hvCaptionBox+\abovecaptionskip+\belowcaptionskip){\makebox[0pt][c]{\parbox{\textwidth}{%
2114                         \expandafter\captionsetup\expandafter{\hv@caption@format}%
2115                         \ifhv@onlyText
2116                             \hv@longCap
2117                         \else
2118                             \ifx\hv@shortCap\@empty
2119                                 \captionof{\hv@floatType}{\hv@longCap}%
2120                             \else
2121                                 \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
2122                             \fi
2123                         \fi
2124                     }}}%
2125                 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
2126             \fi
2127         \fi% end \ifnum#1>0
2128     \newpage\if@twocolumn\null\newpage\fi
2129 }%

```

```

2128 }
2129
2130
2131 \def\setBottomCaption{%
2132   \ifhv@twoColumnCaption
2133     \begin{\hv@floatType}[!b]%
2134   \else
2135     \begin{\hv@floatType}[!b]%
2136   \fi
2137   \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
2138   \ifhv@separatorLine\drawSepLine\fi
2139   \par
2140   \usebox\hvCaptionBox
2141   \ifhv@twoColumnCaption
2142     \end{\hv@floatType}%
2143   \else
2144     \end{\hv@floatType}%
2145   \fi
2146 }
2147
2148 \def\setPageObject{%
2149   \hvfloat@typeout{>>>> setPageObject/start environment ...}%
2150   \afterpage{\checkoddpage}%
2151   \ifhv@star
2152     \begin{\hv@floatType}[p]%
2153   \else
2154     \begin{\hv@floatType}[p]%
2155   \fi
2156   \hv@tempcnt=\@floatpenalty% suppress "float too big" message
2157   \hfuzz=\maxdimen
2158   \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
2159   \ifhv@FULLPAGE
2160     \hvfloat@typeout{>>>> setPageObject/FULLPAGE}%
2161     \@floatpenalty=\z@% no message that float too large
2162     \vspace*{\the\dimexpr-\lin-\voffset-\topmargin-\headheight-\headsep}%-0.5\baselineskip%
2163     \if@twoside
2164       \hvfloat@typeout{>>>> setPageObject/FULLPAGE/twoside}%
2165       \ifoddpage
2166         \hvfloat@typeout{>>>> setPageObject/FULLPAGE/twoside/oddpage (\thepage)}%
2167         \hspace*{\the\dimexpr-\oddsidemargin-\parindent-\lin}%
2168       \else
2169         \hvfloat@typeout{>>>> setPageObject/FULLPAGE/twoside/evenpage (\thepage)}%
2170         \hspace*{\the\dimexpr-\evensidemargin-\parindent-\lin}%
2171       \fi
2172     \else
2173       \hvfloat@typeout{>>>> setPageObject/FULLPAGE/oneside}%
2174       \hspace*{\the\dimexpr-\oddsidemargin-\parindent-\lin}%
2175     \fi
2176     \hvfloat@typeout{>>>> setPageObject/FULLPAGE/set pagestyle empty}%
2177     \AtBeginShipoutNext{\thispagestyle{empty}}% to prevent heading/footer
2178     \afterpage{\AddToHookNext{shipout/after}{\thispagestyle{empty}}}%
2179     \usebox\hvObjectBox
2180   \else
2181     \hvfloat@typeout{>>>> setPageObject/NO FULLPAGE}%
2182     \usebox\hvObjectBox
2183   \fi
2184   \hvfloat@typeout{>>>> setPageObject/stop environment}%
2185   \ifhv@star
2186     \end{\hv@floatType}%
2187   \else
2188     \end{\hv@floatType}%
2189   \fi
2190   \@floatpenalty=\hv@tempcnt% restore
2191 }
2192
2193 \ExplSyntaxOn
2194

```



```

2195 \def\getMultiCaptionAndLabel{%
2196 \ifhv@twoColumnCaption\hv@tempWidthA=\textwidth \else \hv@tempWidthA=\linewidth\fi
2197 \global\sbox\hvCaptionBox{\minipage[b]{\hv@tempWidthA}%
2198 \captionsetup{aboveskip=\z@,belowskip=\z@,position=below,parbox=none}%, skip=-lex}%
2199 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
2200 \parskip=-0.5\baselineskip
2201 \hv@cntb=\clist_count:N\l_clist_Type
2202 \advance\hv@cntb by \@ne
2203 \hv@canta=1
2204 \loop
2205 \edef\@capytype{\clist_item:Nn\l_clist_Type{\hv@canta}}%
2206 \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{\hv@canta}}%
2207 \ifx\@tempa\@empty
2208 \caption{\clist_item:Nn\l_clist_Caption{\hv@canta}}%
2209 \else
2210 \expandafter\caption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{\hv@canta}}%
2211 \fi
2212 \edef\@tempa{\clist_item:Nn\l_clist_Label{\hv@canta}}%
2213 \ifx\@tempa\@empty
2214 \else
2215 \expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{\hv@canta}-cap}\fi
2216 \advance\hv@canta by \@ne
2217 \ifnum\hv@canta<\hv@cntb
2218 \repeat
2219 \vspace{-\baselineskip}% no vspace at the end
2220 \endminipage}%
2221 }
2222
2223 \def\getMultiObjectAndLabel{%
2224 \global\sbox\hvObjectBox{%
2225 \ifhv@vFill
2226 \minipage[b][\textheight][s]{\columnwidth}%
2227 \else
2228 \minipage{\columnwidth}%
2229 \fi
2230 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
2231 \ifx\hvSet@objectPos\hv@Right\raggedleft\else
2232 \ifx\hvSet@objectPos\hv@Left\raggedleft\else
2233 \ifx\hvSet@objectPos\hv@Center\centering
2234 \fi\fi\fi
2235 \hv@cntb=\clist_count:N\l_clist_Type
2236 \advance\hv@cntb by \@ne
2237 \hv@canta=1
2238 \loop
2239 \def\@temp{\clist_item:Nn\l_clist_Object{\hv@canta}}%
2240 \ifhv@objectFrame\frame{\@temp}\else\@temp\fi
2241 \edef\@tempa{\clist_item:Nn\l_clist_Label{\hv@canta}}%
2242 \edef\@tempb{\clist_item:Nn\l_clist_Type{\hv@canta}}%
2243 \edef\@capytype{\hv@p\@tempb}%
2244 \ifx\@tempa\@empty
2245 \else
2246 \refstepcounter{\@capytype}%
2247 \expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{\hv@canta}}%
2248 \fi
2249 \ifnum\hv@canta<\clist_count:N\l_clist_Type\par\hv@vskip\fi
2250 \advance\hv@canta by \@ne
2251 \ifnum\hv@canta<\hv@cntb
2252 \ifhv@vFill\vfill\fi
2253 \repeat
2254 \endminipage}%
2255 }
2256 \def\getMultiSubCaptionAndLabel{%
2257 \global\sbox\hvCaptionBox{%
2258 \minipage{\linewidth}%
2259 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
2260 \setlength\belowcaptionskip{5pt}%
2261 \setlength\abovecaptionskip{0pt}%

```

```

2262 \xdef\@capttype{\clist_item:Nn\L_clist_Type{1}}% the same for all subfloats
2263 \edef\@tempa{\clist_item:Nn\L_clist_LofCaption{1}}%
2264 \ifx\@tempa\@empty
2265   \caption{\clist_item:Nn\L_clist_Caption{1}}%
2266 \else
2267   \expandafter\caption\expandafter[\@tempa]{\clist_item:Nn\L_clist_Caption{1}}%
2268 \fi
2269 \edef\@tempa{\clist_item:Nn\L_clist_Label{1}}%
2270 \ifx\@tempa\@empty\else\expandafter\label\expandafter{\clist_item:Nn\L_clist_Label{1}-cap}\fi
2271 \endminipage}%
2272 }
2273
2274 \def\getMultiSubObjectAndLabel{%
2275   \global\sbox\hvObjectBox{%
2276     \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
2277     \ifhv@vFill
2278       \minipage[b][\textheight][s]{\columnwidth}%
2279       \captionsetup{belowskip=0pt}%
2280     \else
2281       \minipage{\columnwidth}%
2282     \fi
2283     % \ifx\hv@subcaption@format\@empty\else
2284     %   \expandafter
2285     %     \captionsetup\expandafter[\expandafter s\expandafter u\expandafter b\expandafter]\expandafter
2286     %       {\hv@subcaption@format}%
2287     % \fi
2288     \ifx\hvSet@objectPos\hv@Right\raggedleft\else
2289       \ifx\hvSet@objectPos\hv@Left\raggedleft\else
2290         \ifx\hvSet@objectPos\hv@Center\centering
2291         \fi\fi\fi
2292     \hv@cmtb=\clist_count:N\L_clist_Caption
2293     \advance\hv@cmtb by \@ne
2294     \hv@cmta=2
2295     \edef\@capttype{\clist_item:Nn\L_clist_Type{1}}% the same for all subfloats
2296     \ifx\@tempa\@empty
2297     \else
2298     % \refstepcounter{\@capttype}%
2299     % \expandafter\label\expandafter{\@tempa}%
2300     \fi
2301     \loop
2302       \def\@temp{\clist_item:Nn\L_clist_Object{\hv@cmta}}%
2303       \ifhv@objectFrame\frame{\@temp}\else\@temp\fi
2304       \begingroup
2305       \edef\@tempa{\clist_item:Nn\L_clist_LofCaption{\hv@cmta}}%
2306       \ifx\@tempa\@empty
2307         \subcaption{\clist_item:Nn\L_clist_Caption{\hv@cmta}}%
2308       \else
2309         \expandafter\subcaption\expandafter[\@tempa]{\clist_item:Nn\L_clist_Caption{\hv@cmta}}%
2310       \fi
2311       \edef\@tempa{\clist_item:Nn\L_clist_Label{\hv@cmta}}%
2312       \ifx\@tempa\@empty
2313       \else
2314         \expandafter\label\expandafter{\clist_item:Nn\L_clist_Label{\hv@cmta}}%
2315       \fi
2316       \endgroup
2317       \ifnum\hv@cmta<\clist_count:N\L_clist_Type\par\hv@vskip\fi
2318       \advance\hv@cmta by \@ne
2319       \ifnum\hv@cmta<\hv@cmtb
2320         \ifhv@vFill\vfill\fi
2321     \repeat
2322     \edef\@tempa{\clist_item:Nn\L_clist_Label{1}}% the main label at the end
2323     \ifx\@tempa\@empty
2324     \else
2325     \edef\@temp{\hv@p\@capttype}%
2326     \refstepcounter{\@temp}%
2327     \expandafter\label\expandafter{\@tempa}%
2328     \fi

```

```

2329 \endminipage}%
2330 }
2331 \ExplSyntaxOff
2332
2333 \def\getSingleCaptionAndLabel{%
2334 \global\sbox\hvCaptionBox{\minipage{\linewidth}%
2335 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
2336 \setlength\belowcaptionskip{5pt}%
2337 \setlength\abovecaptionskip{0pt}%
2338 \ifhv@onlyText
2339 \hv@longCap
2340 \else
2341 \edef\@capttype{\hv@floatType}%
2342 \expandafter\ifx\expandafter\relax\hv@shortCap\relax
2343 \expandafter\ifx\hv@longCap\@empty \else % empty caption?
2344 \caption{\hv@longCap}%
2345 \fi
2346 \else
2347 \expandafter\ifx\hv@longCap\@empty
2348 \caption[\hv@shortCap]{}%
2349 \else
2350 \caption[\hv@shortCap]{\hv@longCap}%
2351 \fi
2352 \fi
2353 \fi
2354 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
2355 \endminipage}%
2356 }
2357
2358 \def\set@caption@object#1{% first caption, then object #1=\hv@floatType
2359 \ifhv@multiFloat
2360 \setcounter{hv@pfigure}{\value{figure}}%
2361 \setcounter{hv@pstable}{\value{table}}%
2362 \getMultiCaptionAndLabel
2363 \else
2364 \ifhv@subFloat
2365 \setcounter{hv@pfigure}{\value{figure}}%
2366 \setcounter{hv@pstable}{\value{table}}%
2367 \getMultiSubCaptionAndLabel
2368 \else
2369 \getSingleCaptionAndLabel
2370 \fi
2371 \fi
2372 \edef\@capttype{hv@p#1}%
2373 \ifhv@multiFloat
2374 \getMultiObjectAndLabel
2375 \else
2376 \ifhv@subFloat
2377 \getMultiSubObjectAndLabel
2378 \else
2379 \global\sbox\hvObjectBox{%
2380 \refstepcounter{\@capttype}%
2381 \ifhv@objectFrame\frame{\hv@floatObject}\else\hv@floatObject\fi
2382 \expandafter\ifx\expandafter\relax\hv@label\relax
2383 \else
2384 \expandafter\label\expandafter{\hv@label}%
2385 \fi
2386 }%
2387 \fi
2388 \fi
2389 }
2390 %
2391 \endinput

```