

Package hvfloat

Controlling captions, fullpage and doublepage floats

ver 2.40

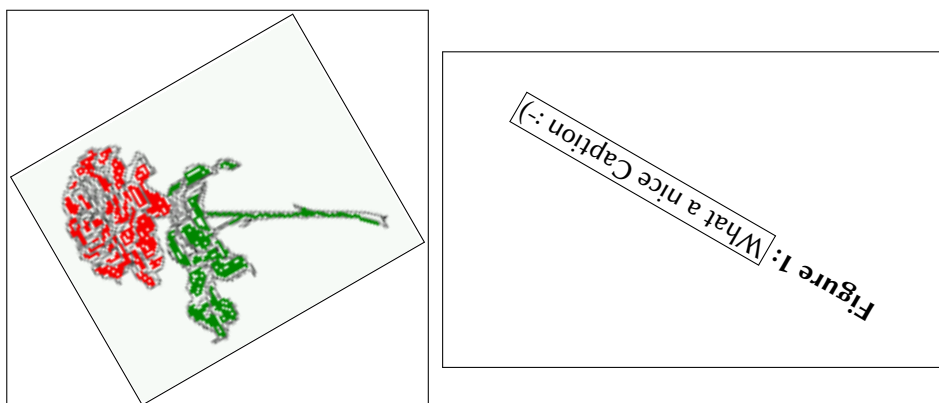
Herbert Voß*

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

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

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



*hvoss@tug.org

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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	12
5.2	Caption left and rotated	13
6	Caption inner or outer	14
7	Vertical Position of the Caption	16
8	Caption format	17
9	Horizontal Position of the Float	18
10	Wide floats	20
11	The star version <code>\hvFloat*</code>	22
12	Full Page Width in Landscape Mode	22
13	The <code>nonFloat</code> Option	26
14	Tabulars as Objects	27
15	Text and objects	27
16	Environment <code>hvFloatEnv</code>	29
17	Full page objects in onecolumn mode	29
17.1	Using the <code>textarea</code>	30
17.1.1	Using the default or <code>capPos=before</code>	31
17.1.2	Using <code>capPos=after</code>	33
17.1.3	Using <code>capPos=evenPage</code> — caption on an even page	34
17.1.4	Using <code>capPos=oddPage</code> — caption on an odd page	35
17.1.5	Using <code>capPos=inner</code> or <code>capPos=outer</code> — caption on the inner or outer side	35
17.2	Using the paper size	36
17.3	Multifloats	38
18	Subfloat page	40

19 Full page objects in twocolumn mode	42
19.1 Default setting	42
19.1.1 Using capPos=after	43
19.1.2 Using capPos=evenPage — caption on an even page	45
19.1.3 Using capPos=oddPage — caption on an odd page	46
19.1.4 Using capPos=inner — caption in the inner column	47
19.1.5 Using capPos=outer — caption on the outer column	48
19.2 Using full page in twocolumn mode	49
19.3 Multifloats	50
20 Subfloat page	51
21 Doublepage objects – images and/or tabulars	54
21.1 doubleFULLPAGE	54
21.2 doublePAGE	76
21.3 doublePage	80
21.4 Tabulars	92
22 References to the page	95
23 Defining a style	96
24 Global float setting	96
25 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	Demonstration of the use0Box Parameter	27
5	Demonstration of the use0Box Parameter	28
6	A caption for a nice table	29
7	A caption for a nice table	29
8	Valid optional arguments for a full page object.	31
9	A doublepage tabular with a caption on the right side of the right part.	95

List of Figures

1	<div style="border: 1px solid black; padding: 2px; display: inline-block;">What a nice Caption :-)</div>	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	15
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	18

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

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	65
61	A caption for a double-sided image that will be placed after the image. The image begins on the left edge of the paper. No further text is placed on the pages. A short form is used for the LOF. The parameter is doubleFULLPAGE . . .	70
62	A caption for a double-sided image that will be placed before the image. The image begins on the left edge of the paper. No further text is placed on the pages. A short form is used for the LOF. The parameter is doubleFULLPAGE . . .	73
63	A doublepage image with a caption below the right part.	79
64	A doublepage image with a caption on the right side of the right part.	83
65	A doublepage image with a caption on the right side of the right part.	87
66	A doublepage image with a caption on the right side of the right part.	91
67	Caption at bottom right beside the float with a caption width of $0.5\backslash\text{columnwidth}$	96
68	A float which needs the complete paper width and height.	97

1 The package options

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

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

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

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

2 The Macros and optional arguments

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

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

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

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

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

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

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

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

Table 1: A Caption without any sense and any object

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

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

2 The Macros and optional arguments

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

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

`\hvDefFloatStyle{name}{setting}`

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

There are the following keywords:

Table 2: The optional keywords for the macro \hvFloat

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

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

3 The default use of floating environments

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

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



Fig. 2

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

Code for figure 2:

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

Code for table 3:

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

Tab. 3

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

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

```

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

```

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

4 Caption width

4.1 Default – natural width

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

```

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

```

Fig. 3

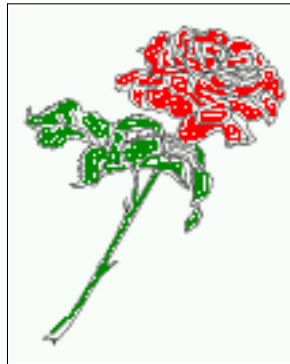


Figure 3: Default caption width setting, which is the natural width with respect to the current linewidth.

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

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

```

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

```

Fig. 4

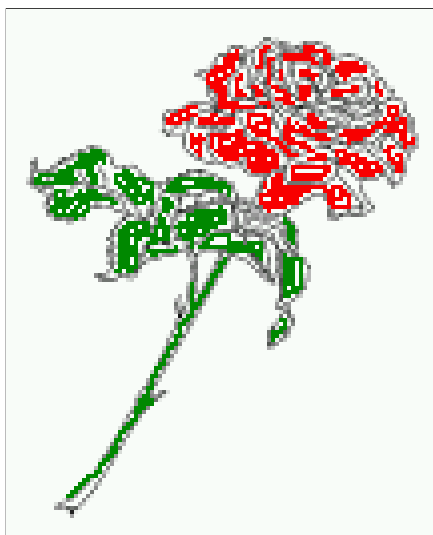


Figure 4: Caption right beside with a *natural* width, which is given by the width of the object, the separation between object and caption, and the current linewidth.

4.2 Relative linewidth

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

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

Fig. 5



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

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

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

Fig. 6

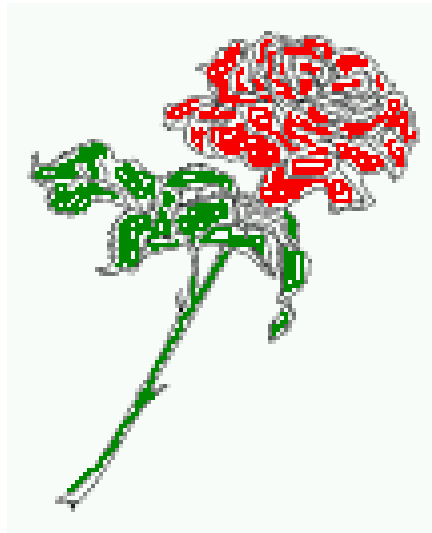


Figure 6: Caption right beside with a width setting of 0.9\linewidth w for this example and therefore corrected by the macro to the maxima

4.3 Identical object and caption width

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

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

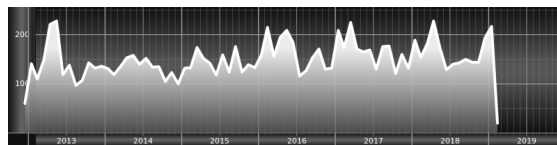


Figure 7: Caption below with a width of the given object which may be a problem if it is a very small object.

4.4 caption width to height of the object

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

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

Fig. 8

5 Caption left or right of the object

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

5.1 Caption right with specific length

Code for figure 9:



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

```

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

```

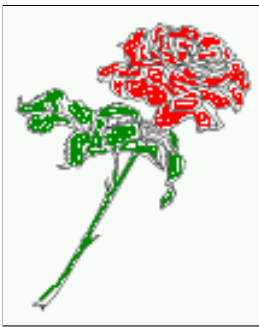


Figure 9: Caption vertically centered right beside the float with a natural caption width (the default). Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information?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

Fig. 9 float
capPos=right

5.2 Caption left and rotated

Code for figure 10:

```

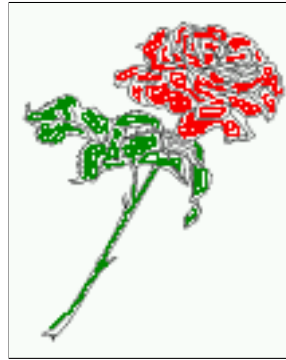
1 \hvFloat%
2   [floatPos=htb,
3     capPos=left,
4     capWidth=h,% of \columnwidth
5     capAngle=90,
6     objectFrame
7   ]{figure}{\includegraphics{images/rose}}%
8   [Centered Caption beside Object]%
9   {Caption vertically centered left beside the float with a caption width
10  of \texttt{capWidth=h},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

```

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

Fig. 10

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



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

Code for figure 11:

```

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

```

Fig. 11



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

6 Caption inner or outer

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

Code for figure 12:

```

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

```

Fig. 12

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



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

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

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

Fig. 13



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

Fig. 14



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

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

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

Code for figure 15:

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

Fig. 15



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

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

7 Vertical Position of the Caption

The caption can be placed beside the object in the positions

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

The code for figure 16:

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

Fig. 16

The code for figure 17:

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




Figure 16: Caption at bottom right beside the float

```

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

```

Figure 17: Caption at top left beside the float



Fig. 17

The code for figure 18:

```

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

```



Figure 18: Caption centered right beside the float

Fig. 18

8 Caption format

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

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

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

Fig. 19

**Figure 19**

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

9 Horizontal Position of the Float

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

The code for figure 20:

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

Fig. 20



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

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

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

The same with capPos=left :

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



Fig. 21

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

The code for figure 22:

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

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



Fig. 22

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

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

10 Wide floats

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

The code for figure 23:

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

Fig. 23

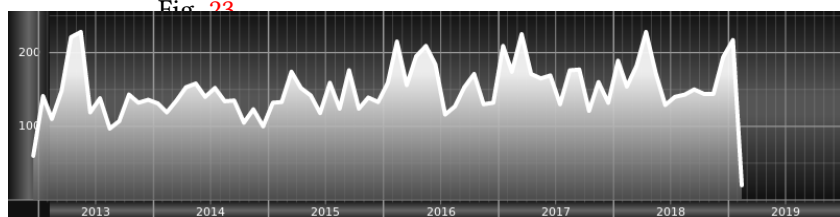


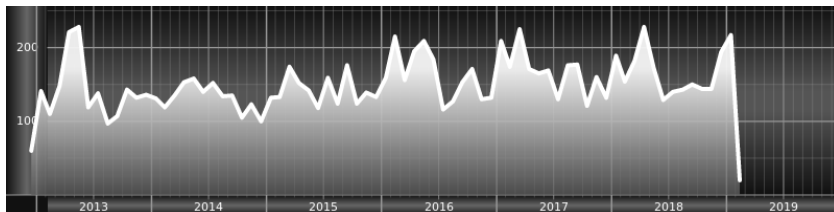
Figure 23: Caption at top right beside the float and object position left and the option `wide`.

The code for figure 24:

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

Fig. 24

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

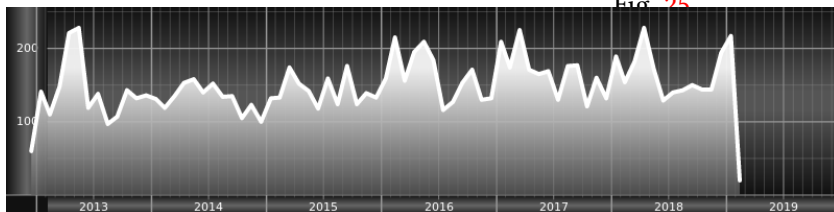


For a twosided document it will place the object always in the margin.

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

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

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

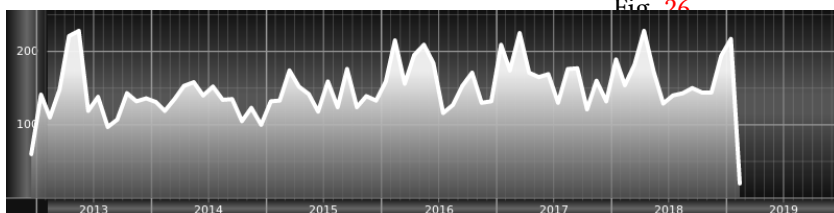


Now we set the same image with the same setting on the next page. The caption will change its side due to the setting `capPos=outer`.

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

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

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



The caption can be typeset completely into the margin with:

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

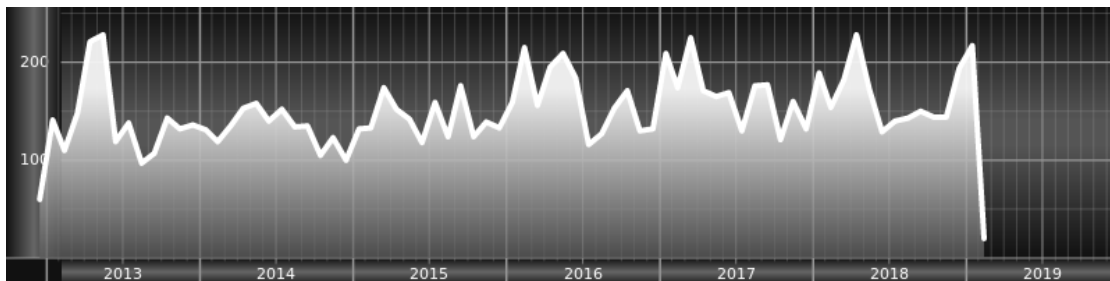


Figure 27: Caption at top inner beside the float and object position right and the option wide.

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

```

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

```

Fig. 28

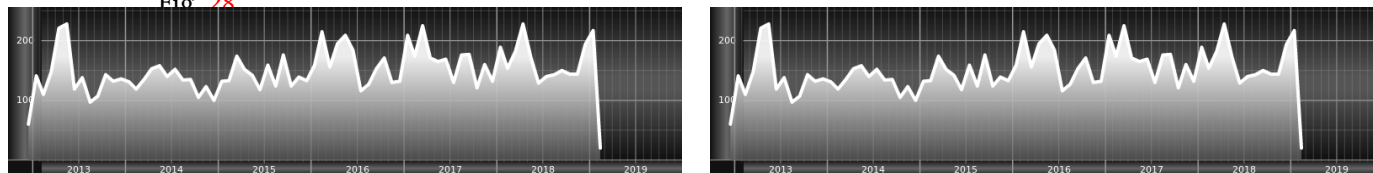


Figure 28: Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift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

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

11 The star version \hvFloat*

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

```

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

```

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

12 Full Page Width in Landscape Mode

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

Code for figure 30:

```

1 \hvFloat[%
2 floatPos=p,

```

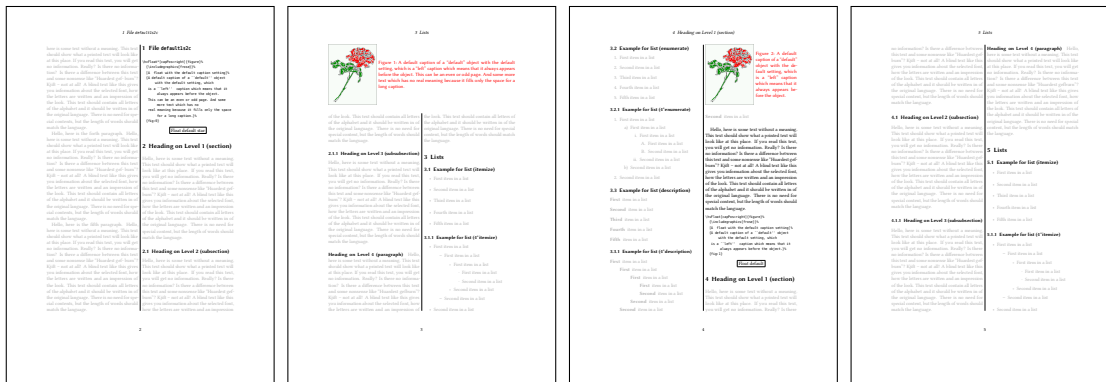


Figure 29: Output of defaultls2c (pages 2–5)

```

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

```

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

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

The code for figure 31:

```

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

```

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

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

Fig. 30

Fig. 31

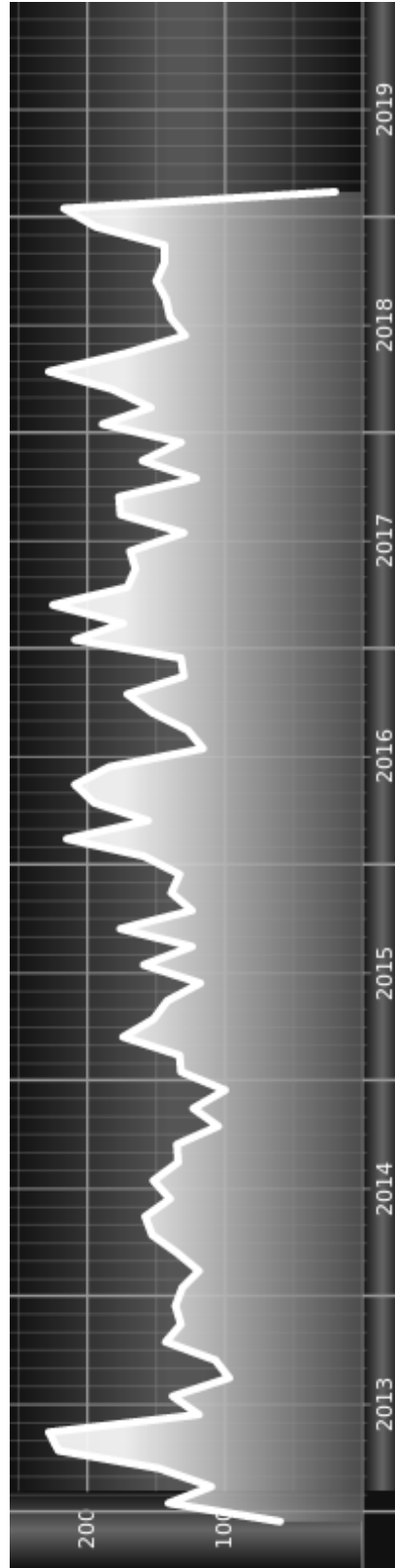
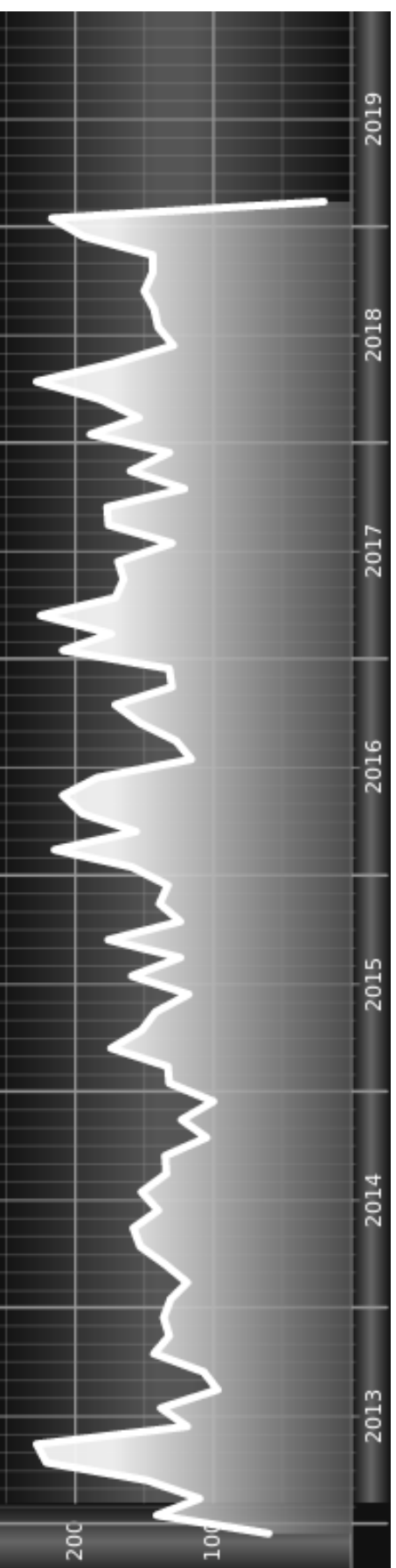


Figure 30: Caption and object in landscape mode. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense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

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



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

13 The nonFloat Option

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

```

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

Fig. 32

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

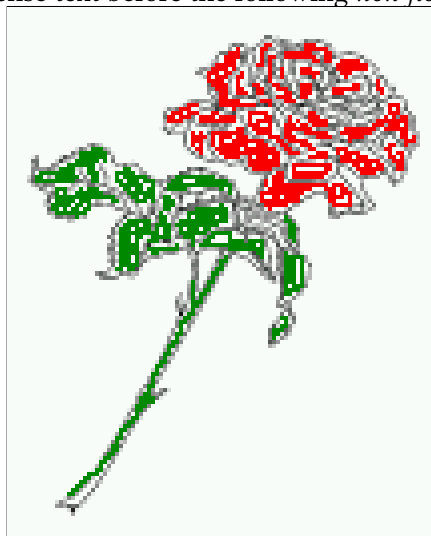


Figure 32: Caption of a “nonfloat” Object, using the nonfloat Package

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

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

```

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

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

14 Tabulars as Objects

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

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

```

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

The code for table 4 and 5 is:

```

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

In this case leave the third parameter empty.

Table 4: Demonstration of the `use0Box` Parameter

Tab. 4

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

Tab. 5

15 Text and objects

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

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

Table 5: Demonstration of the use0Box Parameter

keyword is used.

The code for figure 15:

```

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

```

Fig. 15



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

16 Environment `hvFloatEnv`

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

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

Table 6: A caption for a nice table

left	center	right
L	C	R

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

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

Table 7: A caption for a nice table

left	center	right
L	C	R

17 Full page objects in onecolumn mode

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

```

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

```

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

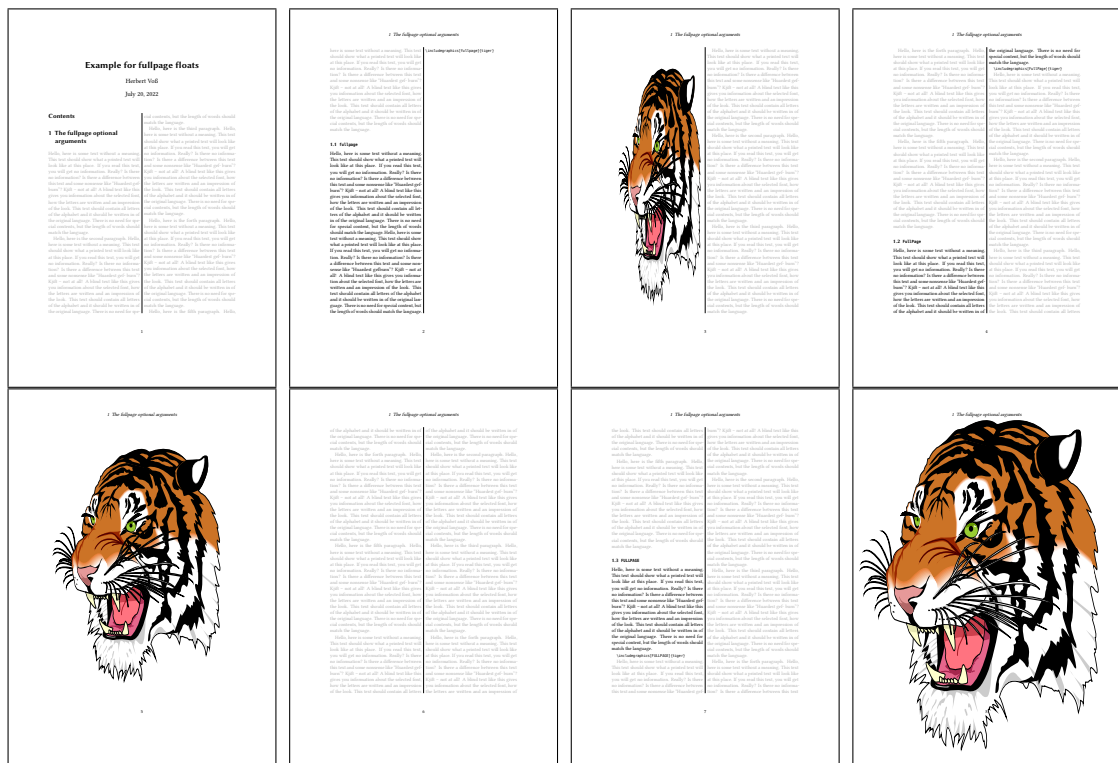


Figure 33: Output of `fullpage1s2c` (pages 1–8)

17.1 Using the `textarea`

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

17.1.1 Using the default or capPos=before

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

```

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

```

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

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

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

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

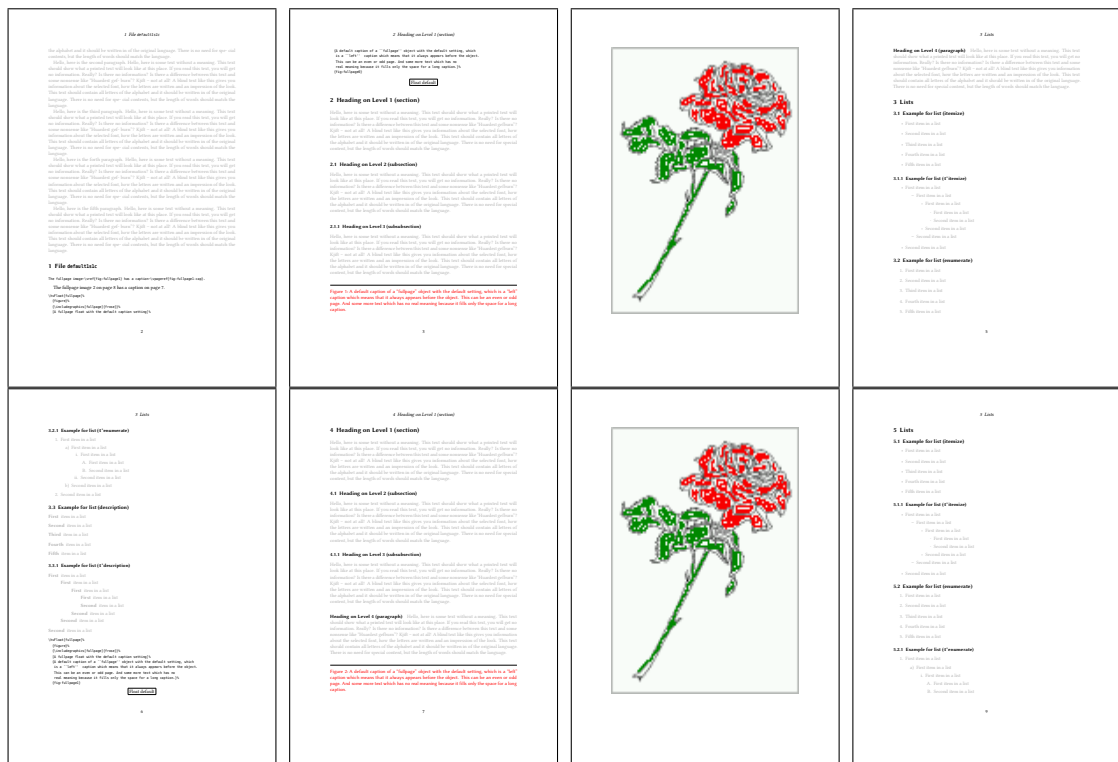


Figure 34: Output of default1s1c (pages 2–9)

17.1.2 Using capPos=after

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

```

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

```

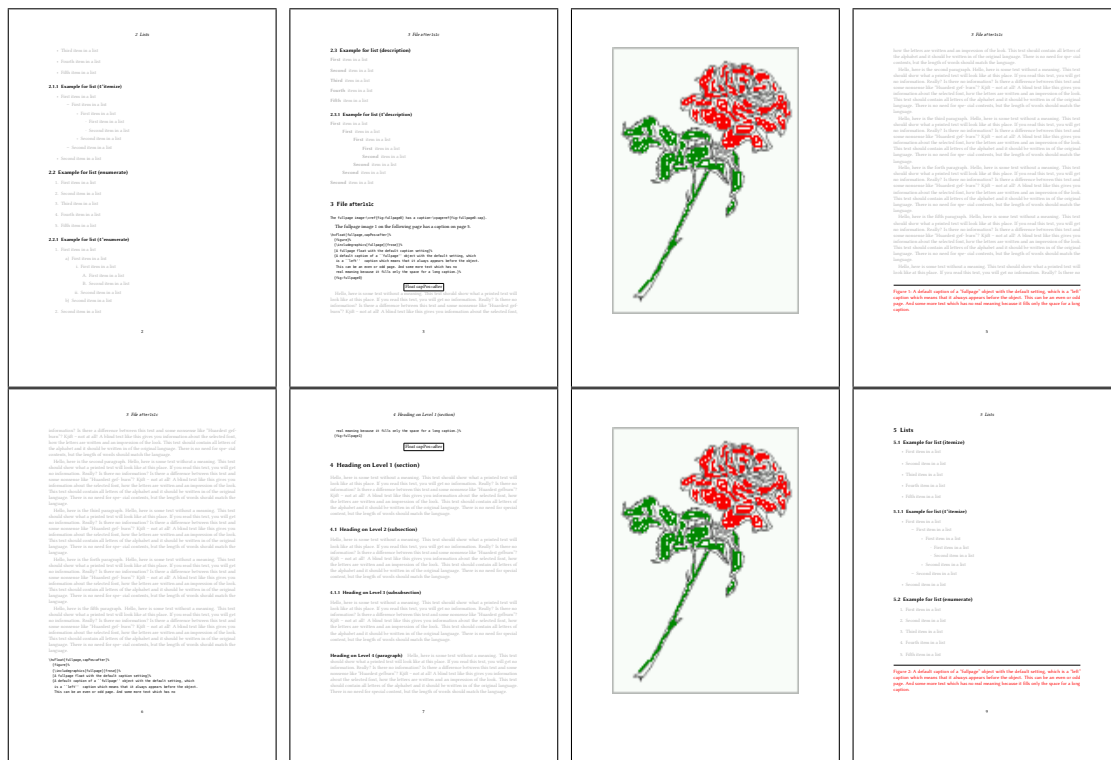


Figure 35: Output of after1s1c (pages 2–9)

17.1.3 Using capPos=evenPage — caption on an even page

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

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

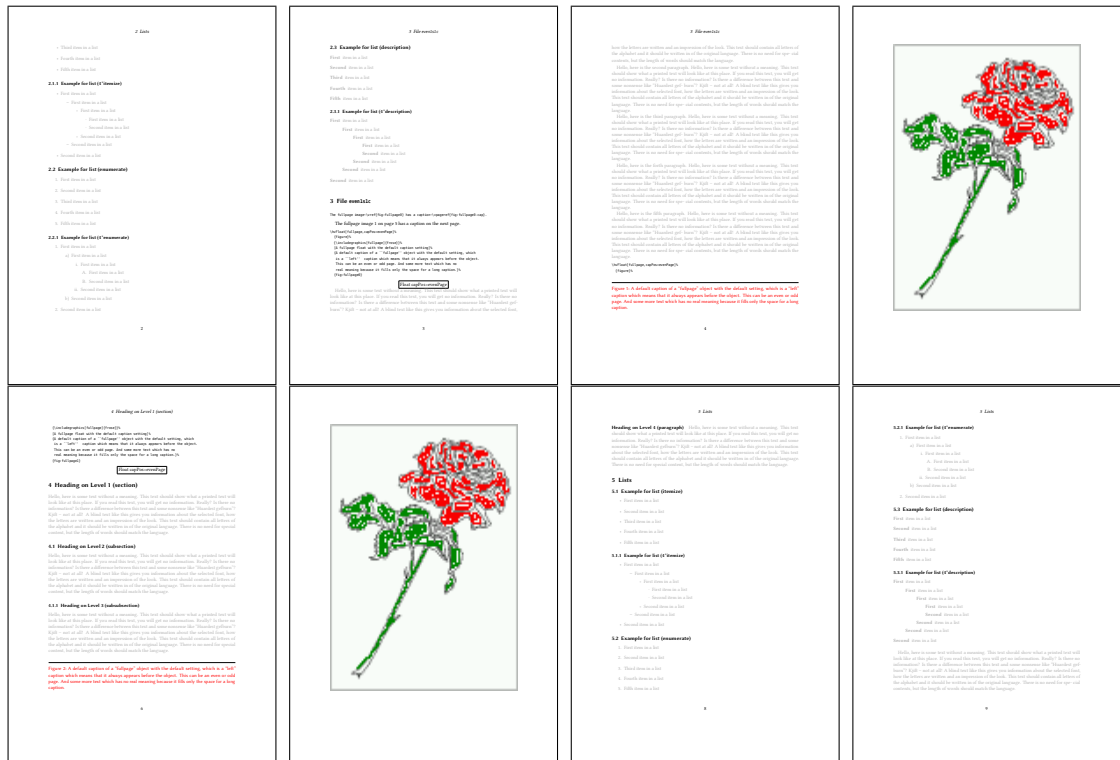


Figure 36: Output of even1s1c (pages 2–9)

17.1.4 Using capPos=oddPage — caption on an odd page

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

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

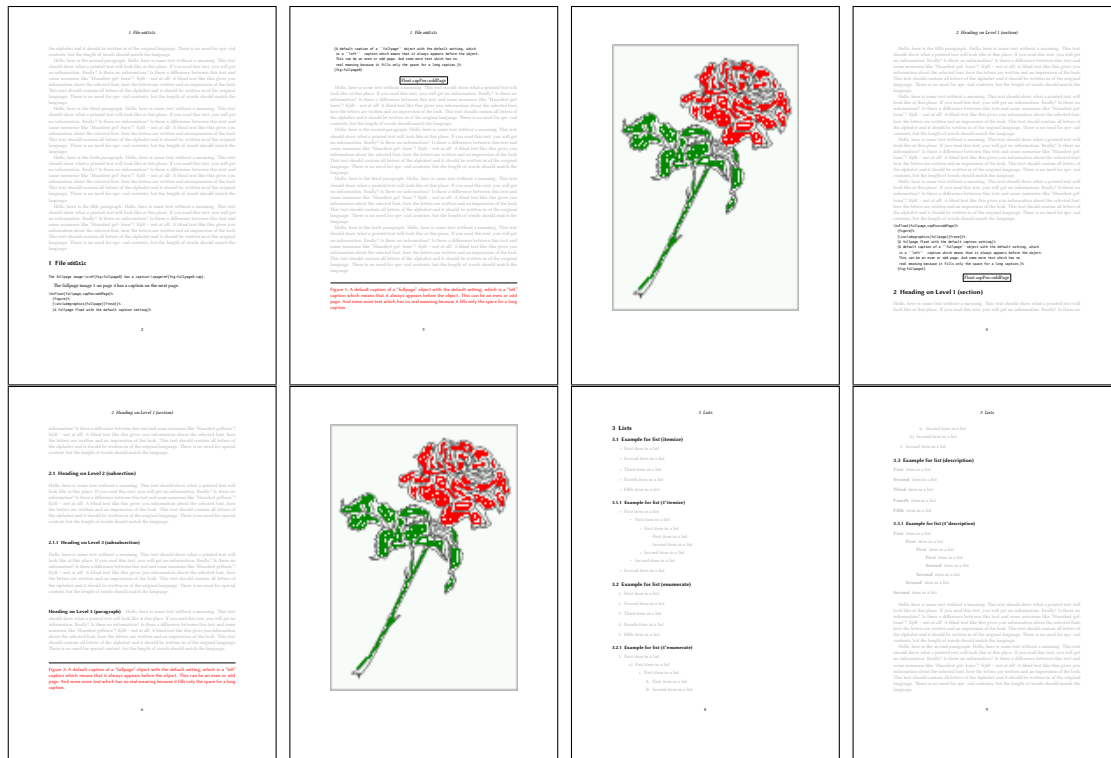


Figure 37: Output of odd1s1c (pages 2-9)

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

These settings make no sense in onecolumn mode.

17.2 Using the paper size

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

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

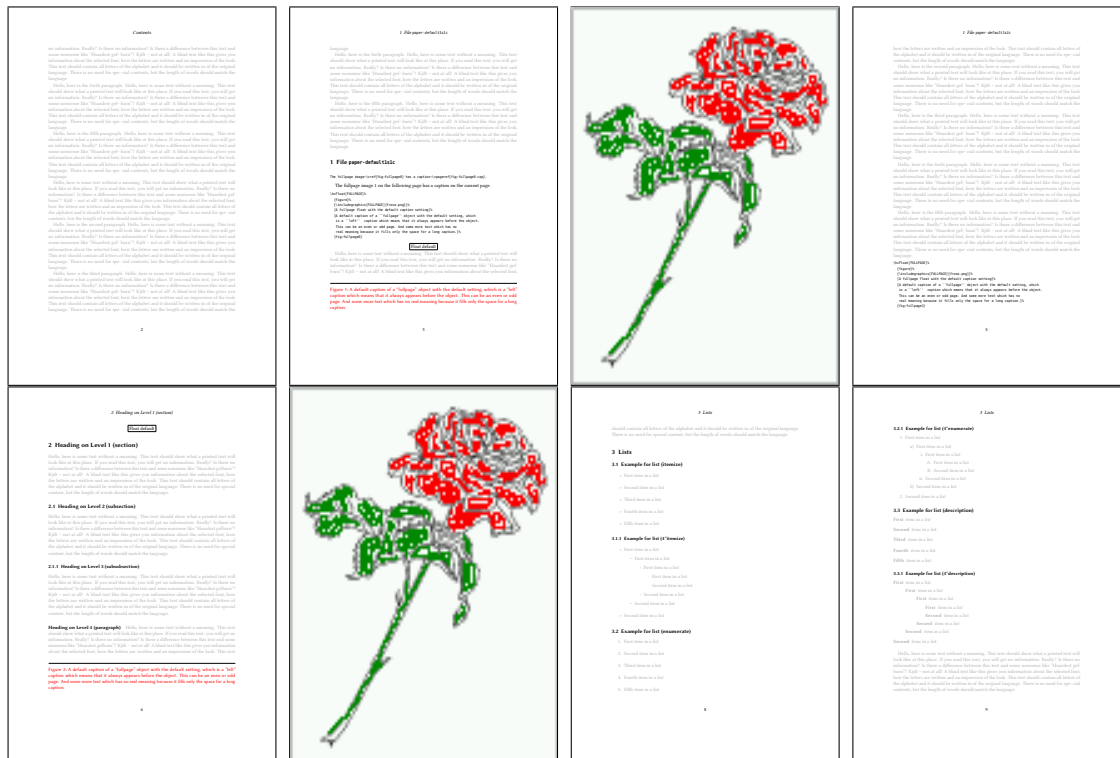


Figure 38: Output of paper-default1s1c (pages 2-9)

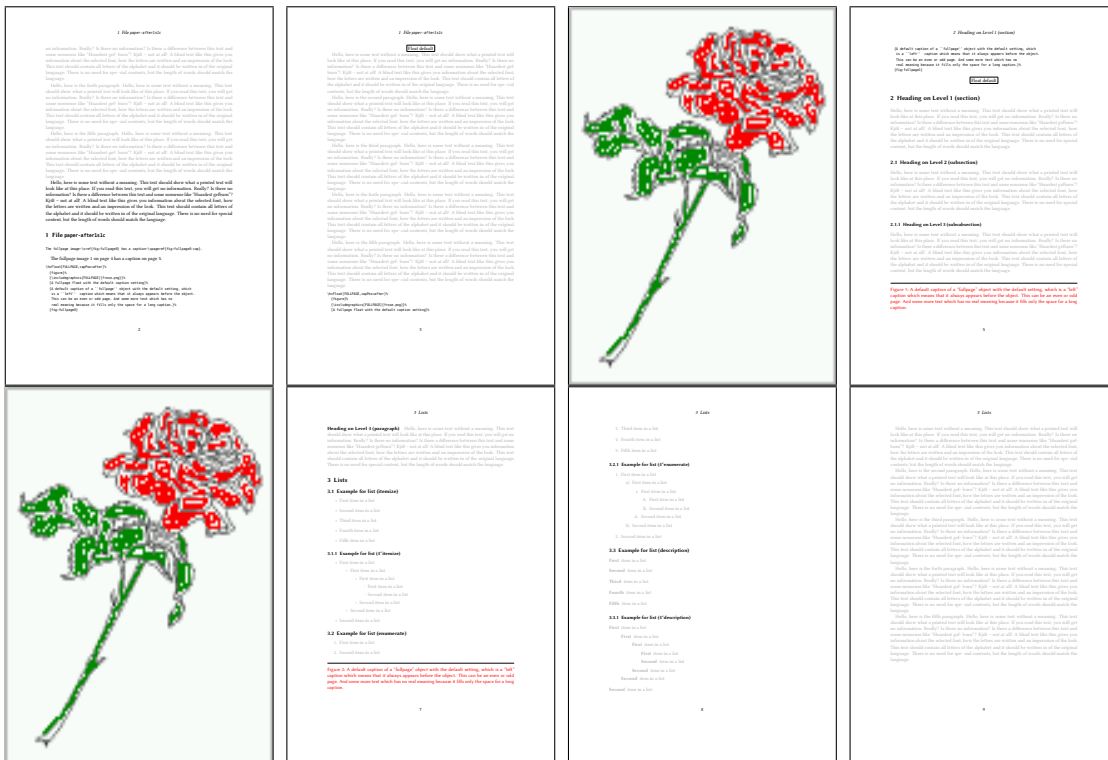


Figure 39: Output of paper-after1s1c (pages 2–9)

17.3 Multifloats

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

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

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

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

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

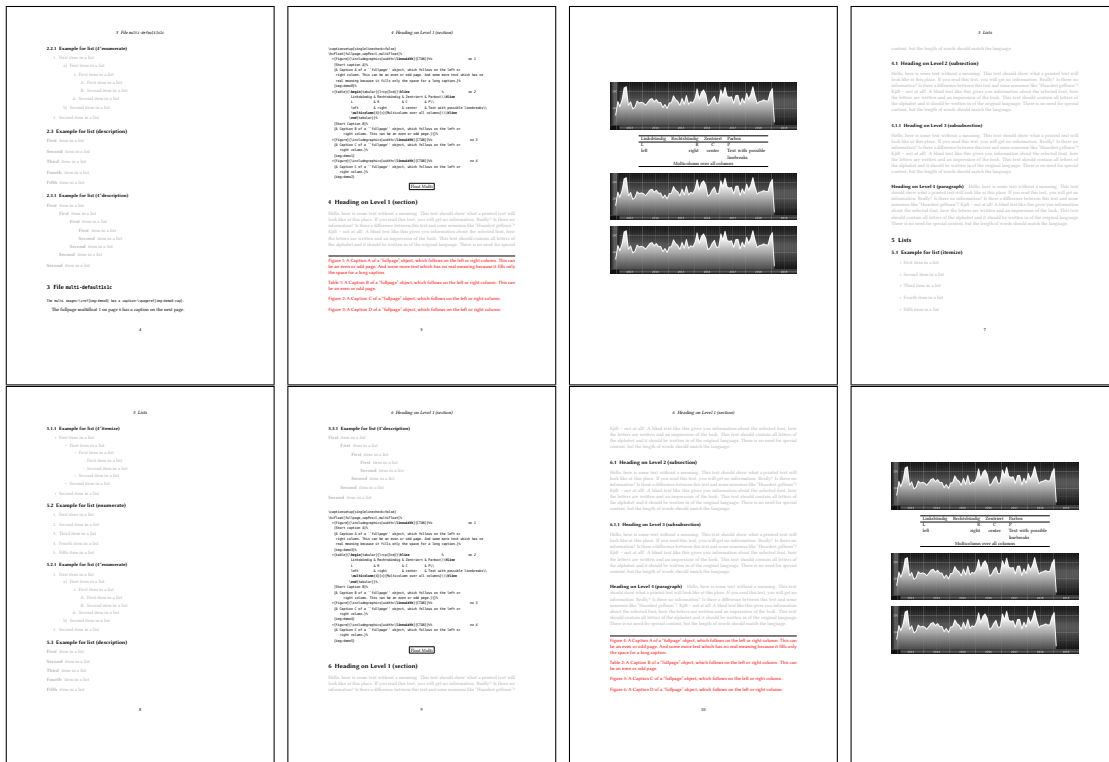


Figure 40: Output of multi-default1s1c (pages 4–11)

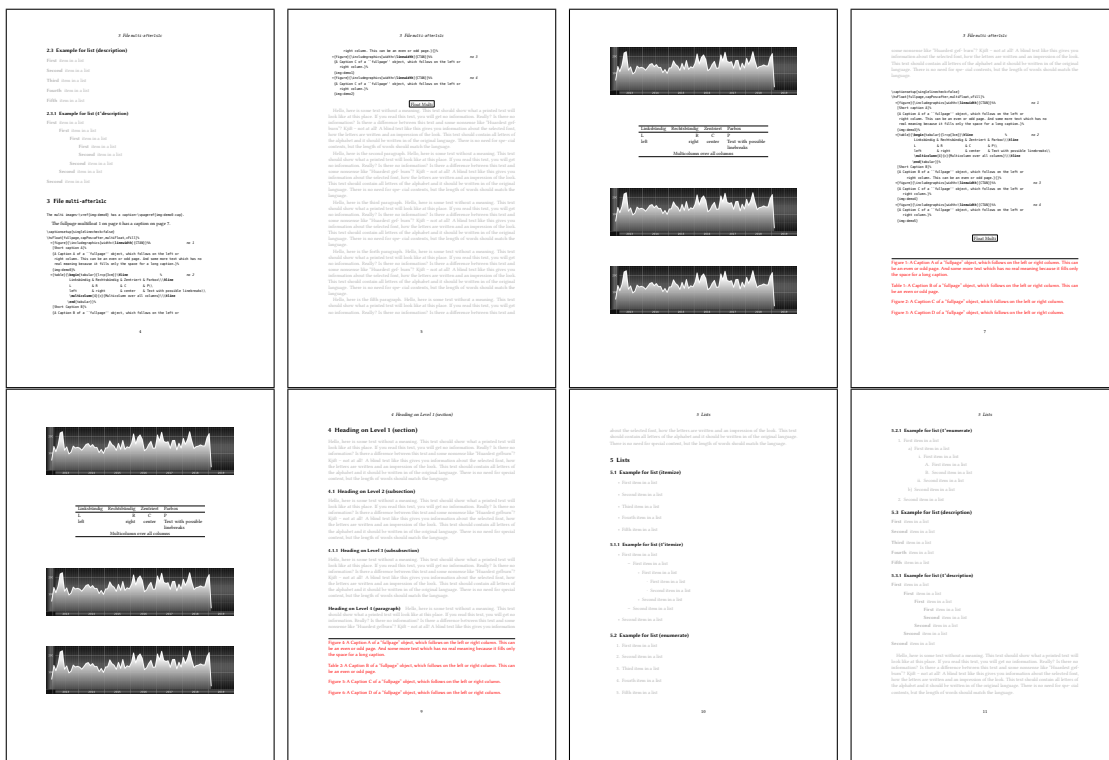


Figure 41: Output of multi-after1s1c (pages 4–11)

18 Subfloat page

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

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

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

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

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

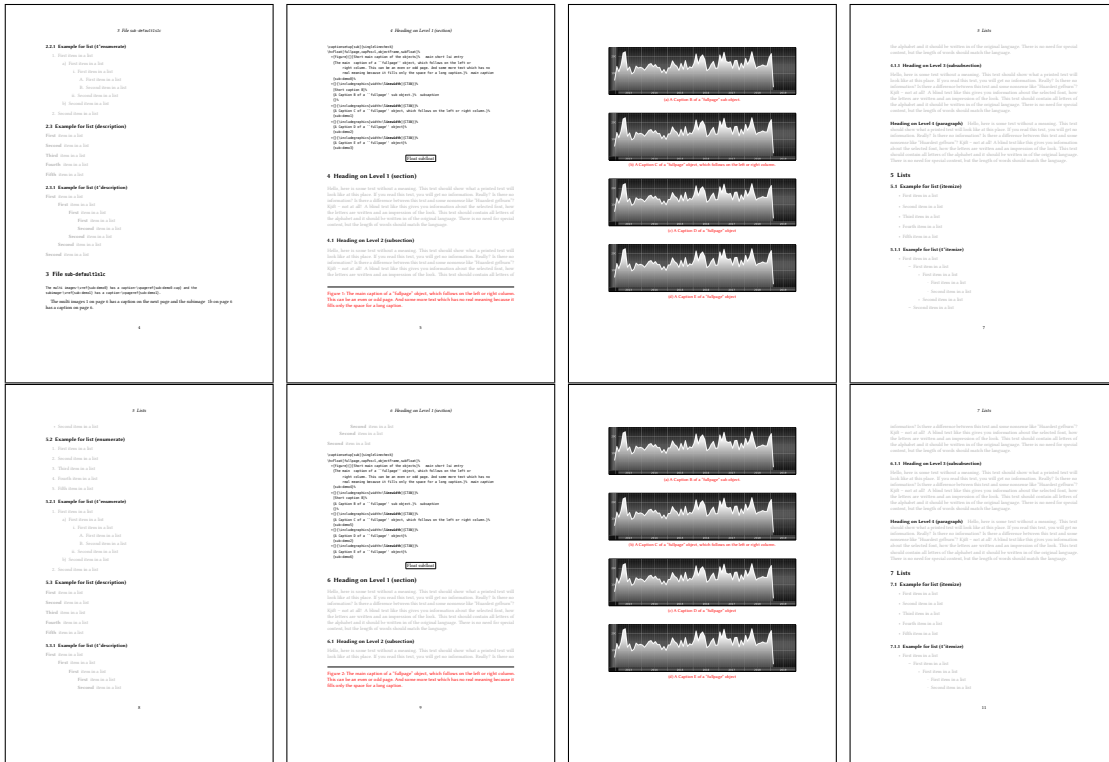


Figure 42: Output of sub-default1s1c (pages 4–11)

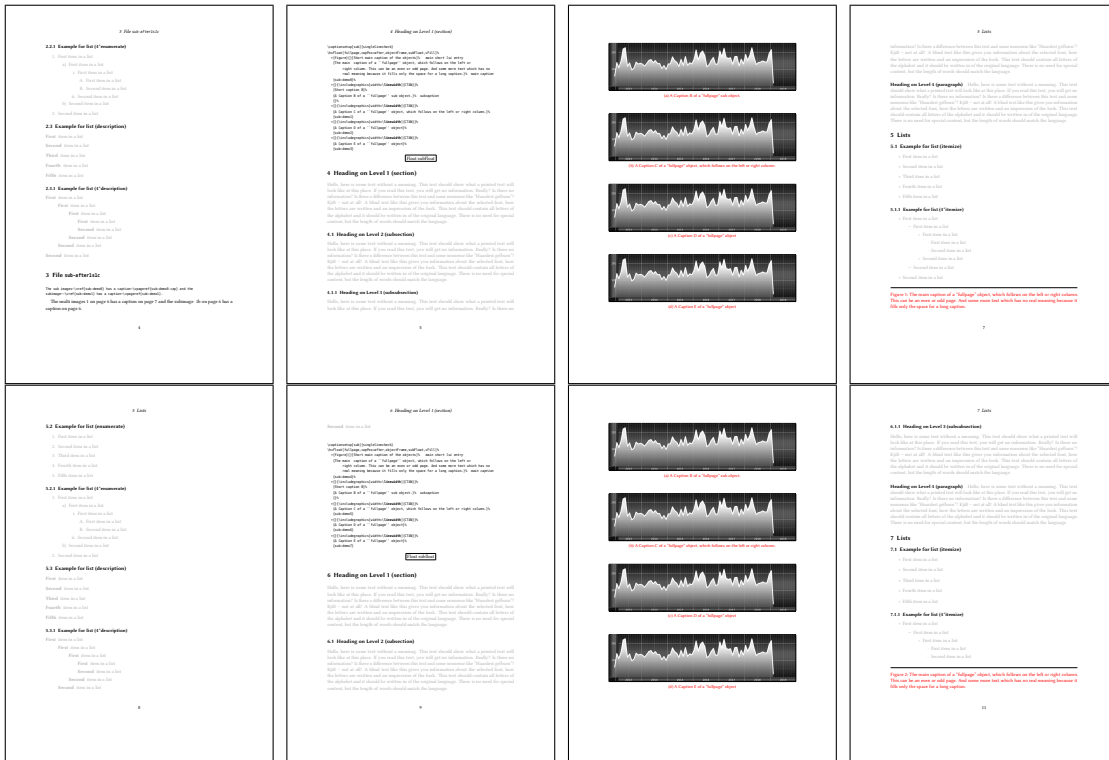


Figure 43: Output of sub-after1s1c (pages 4–11)

19 Full page objects in twocolumn mode

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

19.1 Default setting

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

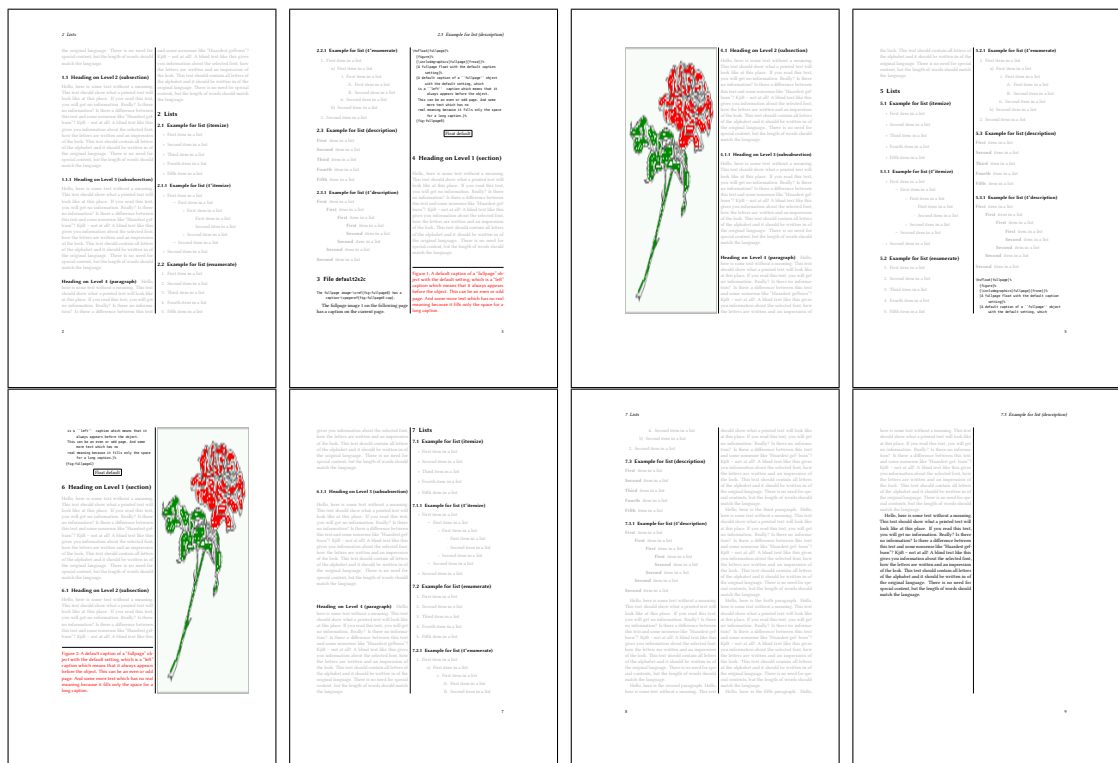


Figure 44: Output of default2s2c (pages 2–9)

```

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

```

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

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

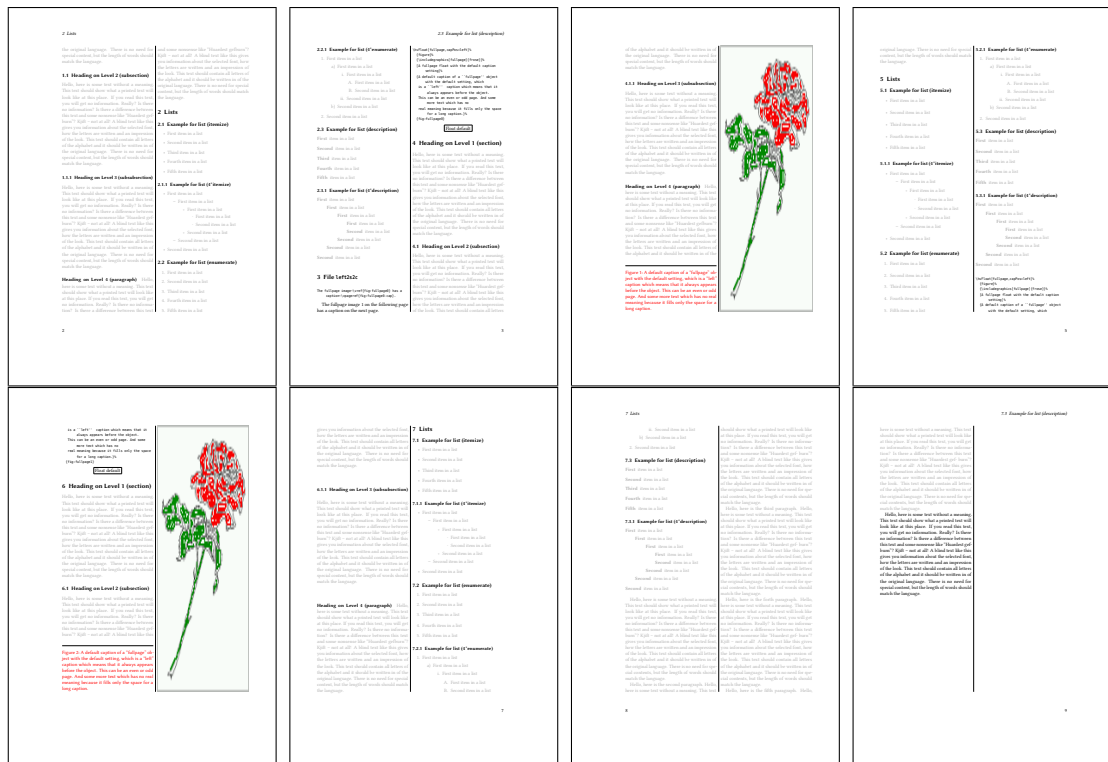


Figure 45: Output of left2s2c (pages 2-9)

19.1.1 Using capPos=after

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

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

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

19 Full page objects in twocolumn mode

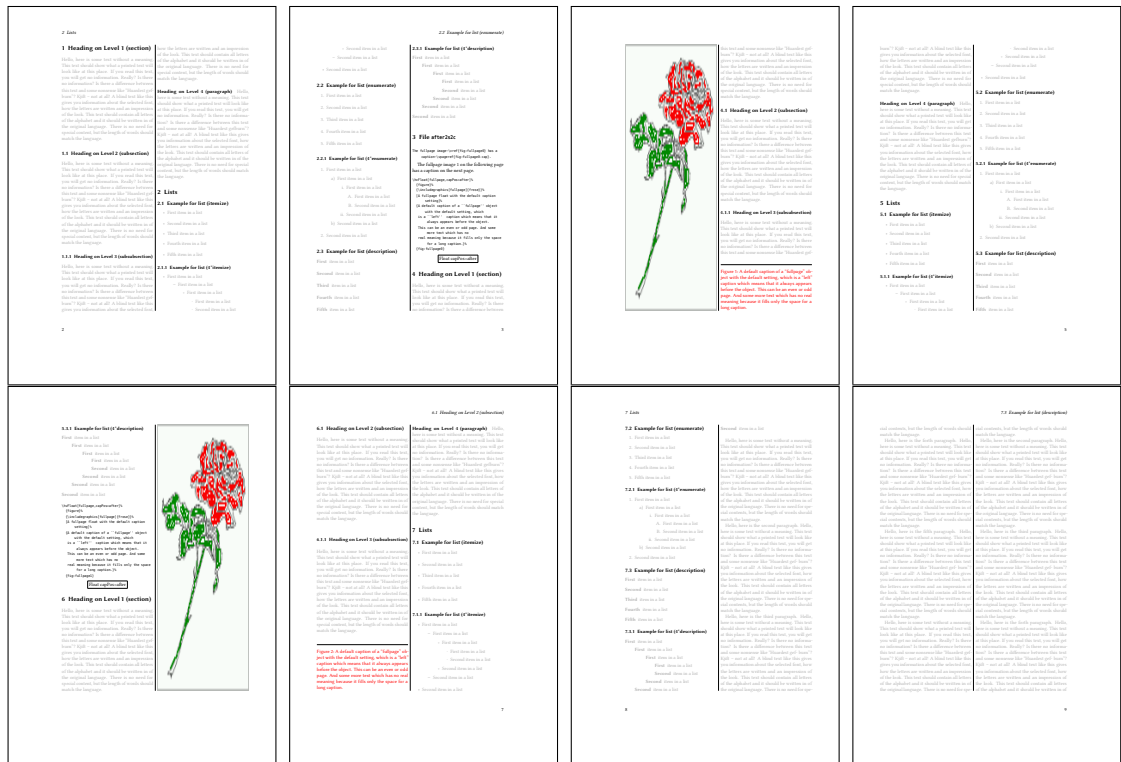


Figure 46: Output of after2s2c (pages 2–9)

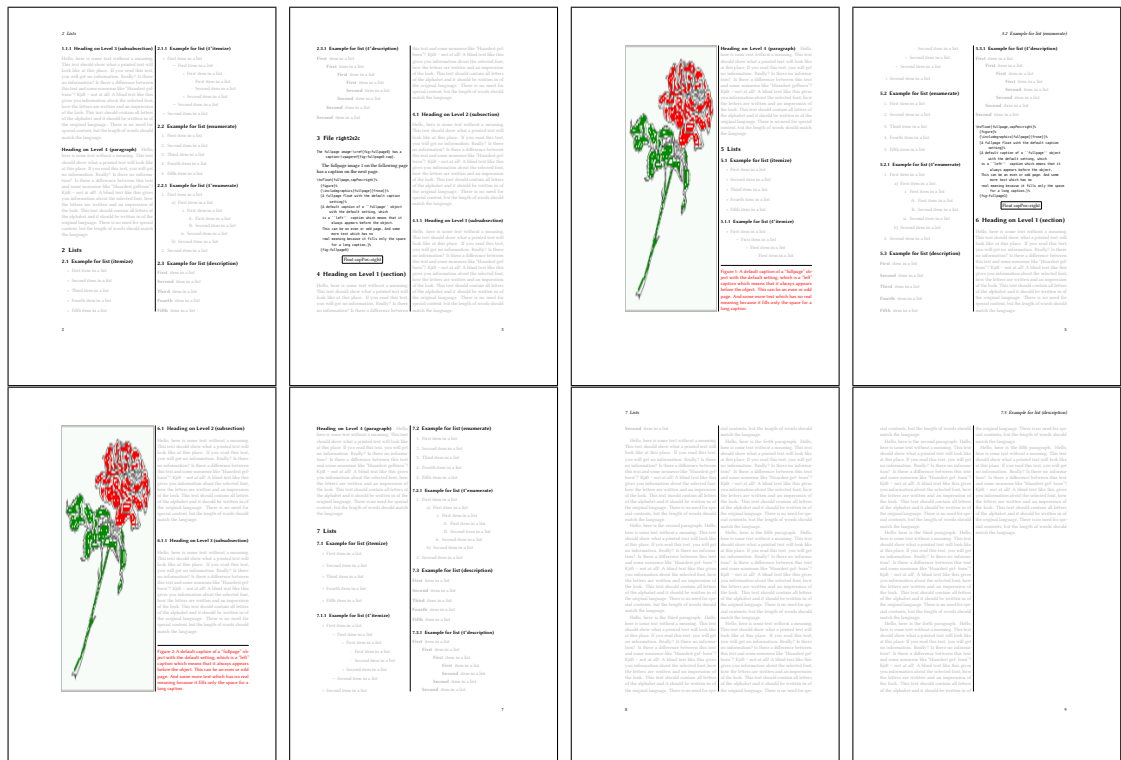


Figure 47: Output of right2s2c (pages 2–9)

19.1.2 Using capPos=evenPage — caption on an even page

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

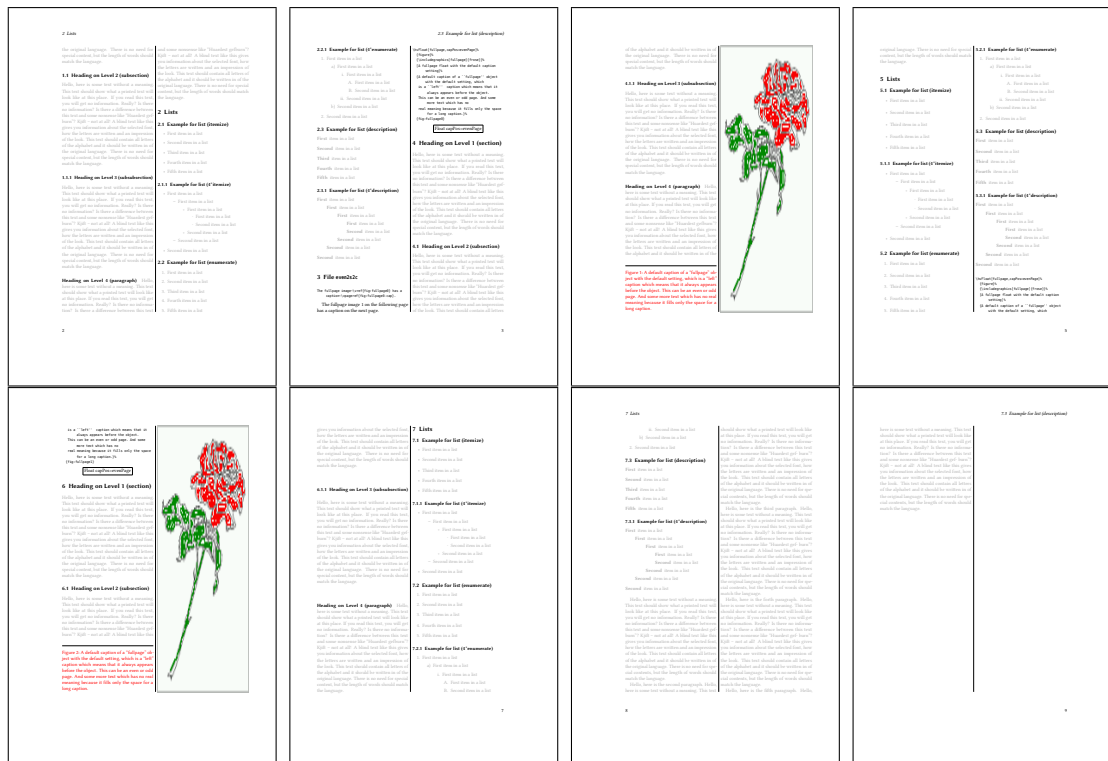


Figure 48: Output of even2s2c (pages 2–9)

19 Full page objects in twocolumn mode

19.1.3 Using capPos=oddPage — caption on an odd page

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

[illegible]

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

19.1.4 Using capPos=inner — caption in the inner column

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

```

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

```

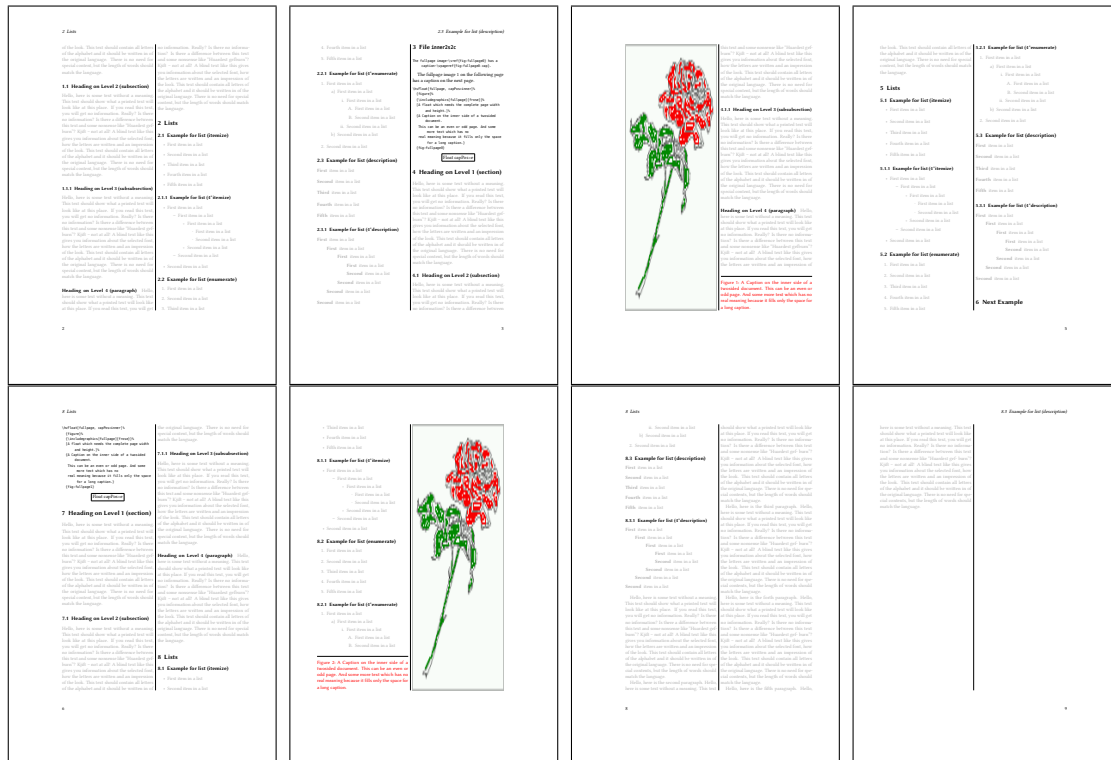


Figure 50: Output of inner2s2c (pages 2–9)

19 Full page objects in twocolumn mode

19.1.5 Using capPos=outer — caption on the outer column

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

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

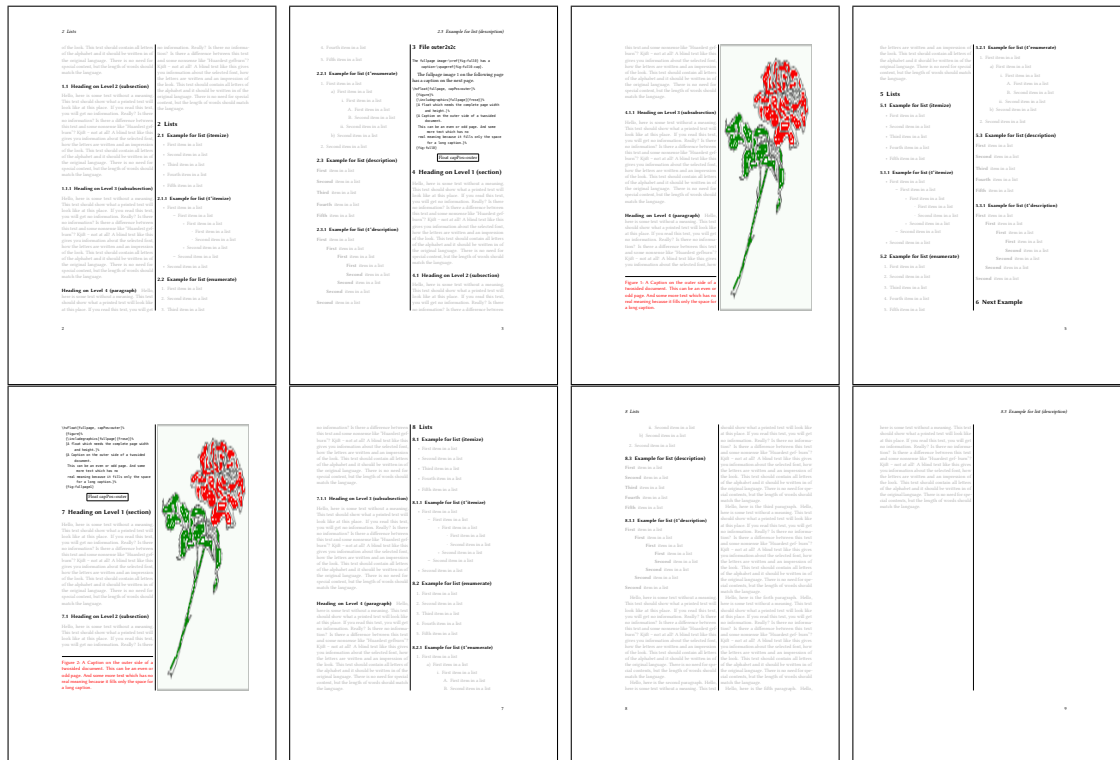


Figure 51: Output of outer2s2c (pages 2–9)

19.2 Using full page in twocolumn mode

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

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

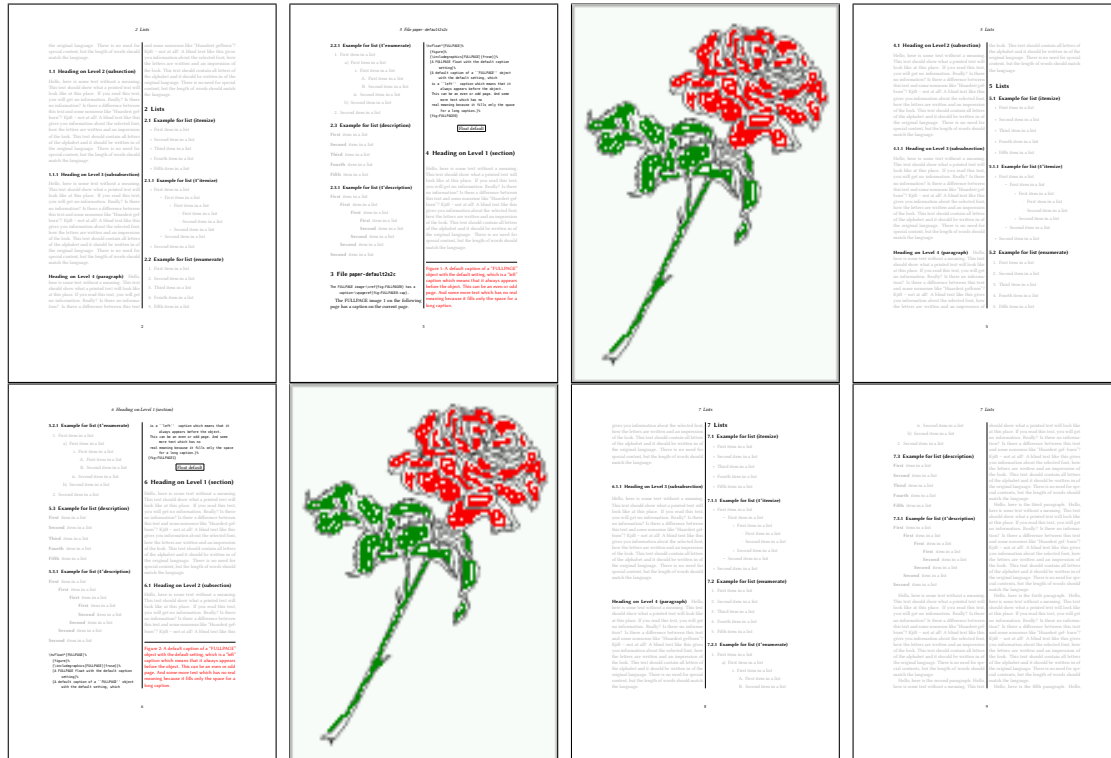


Figure 52: Output of paper-default2s2c (pages 2–9)

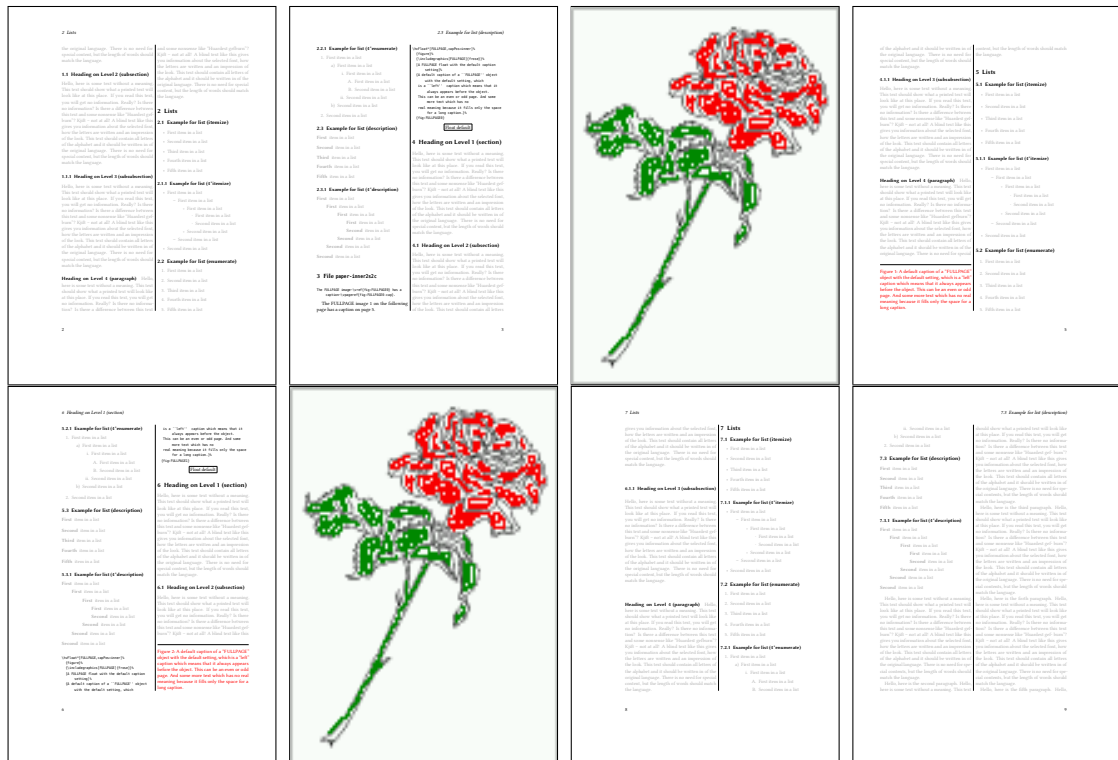


Figure 53: Output of paper-inner2s2c (pages 2–9)

19.3 Multifloats

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

```

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

```

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

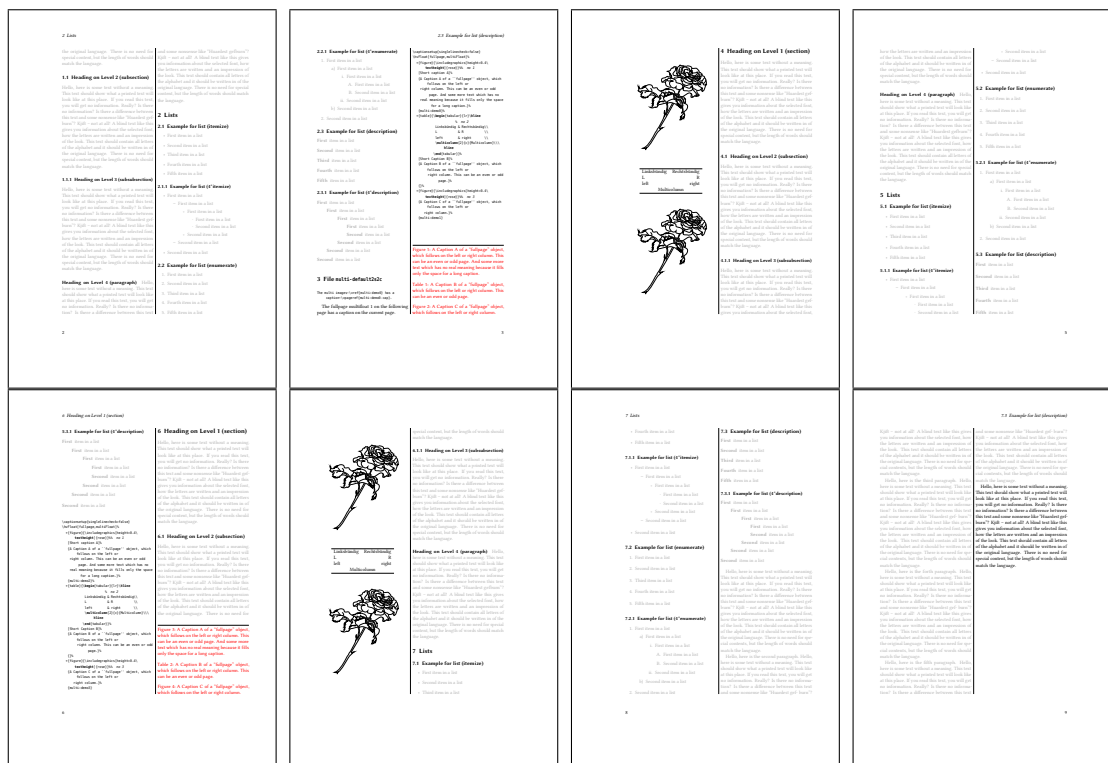


Figure 54: Output of multi-default2s2c (pages 2-9)

20 Subfloat page

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

```

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

```

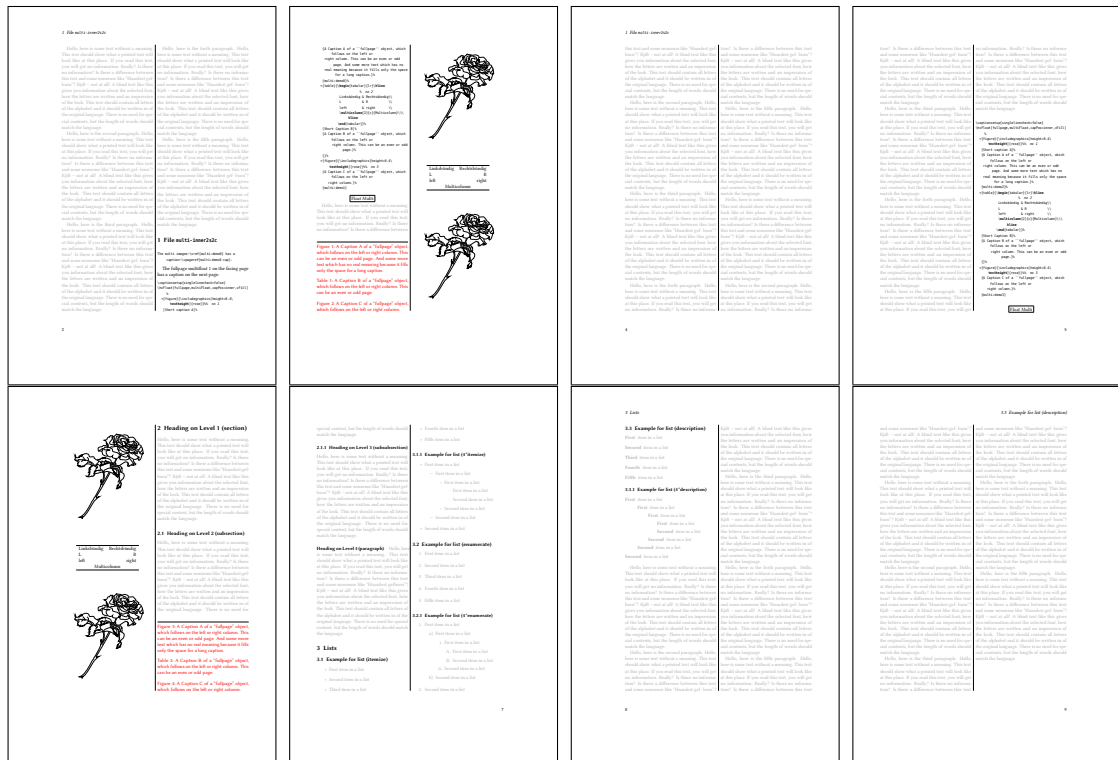


Figure 55: Output of multi-inner2s2c (pages 2-9)

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).

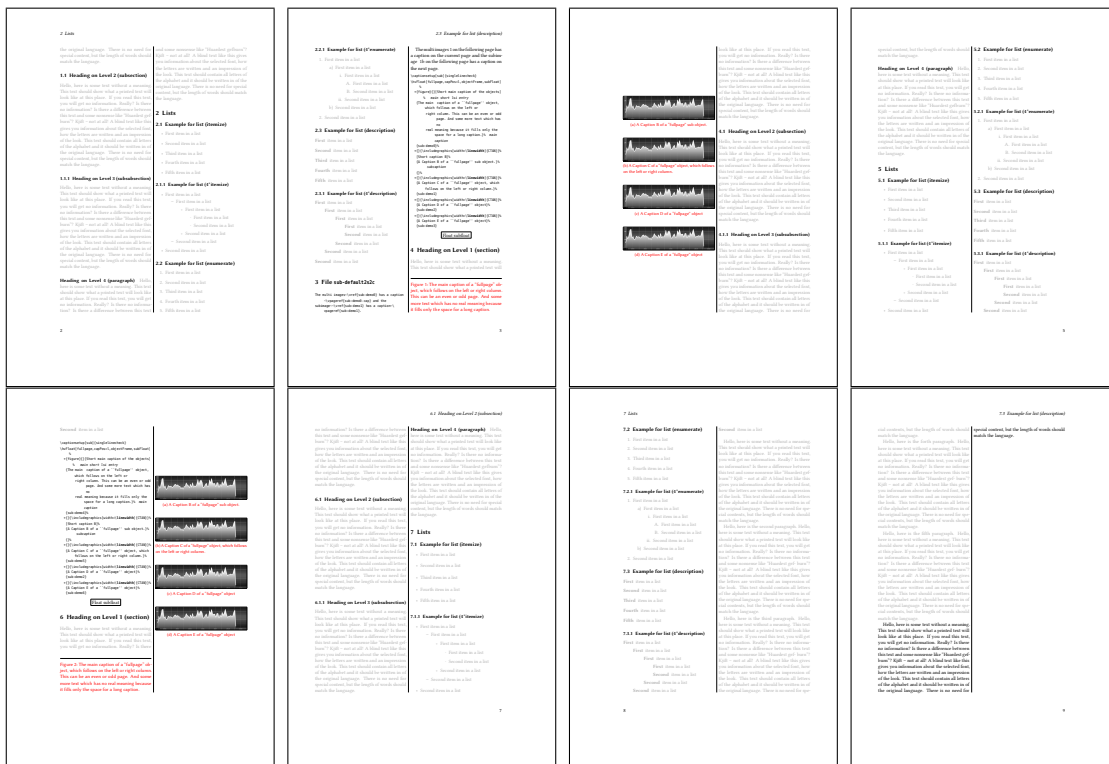


Figure 56: Output of sub-default2s2c (pages 2-9)

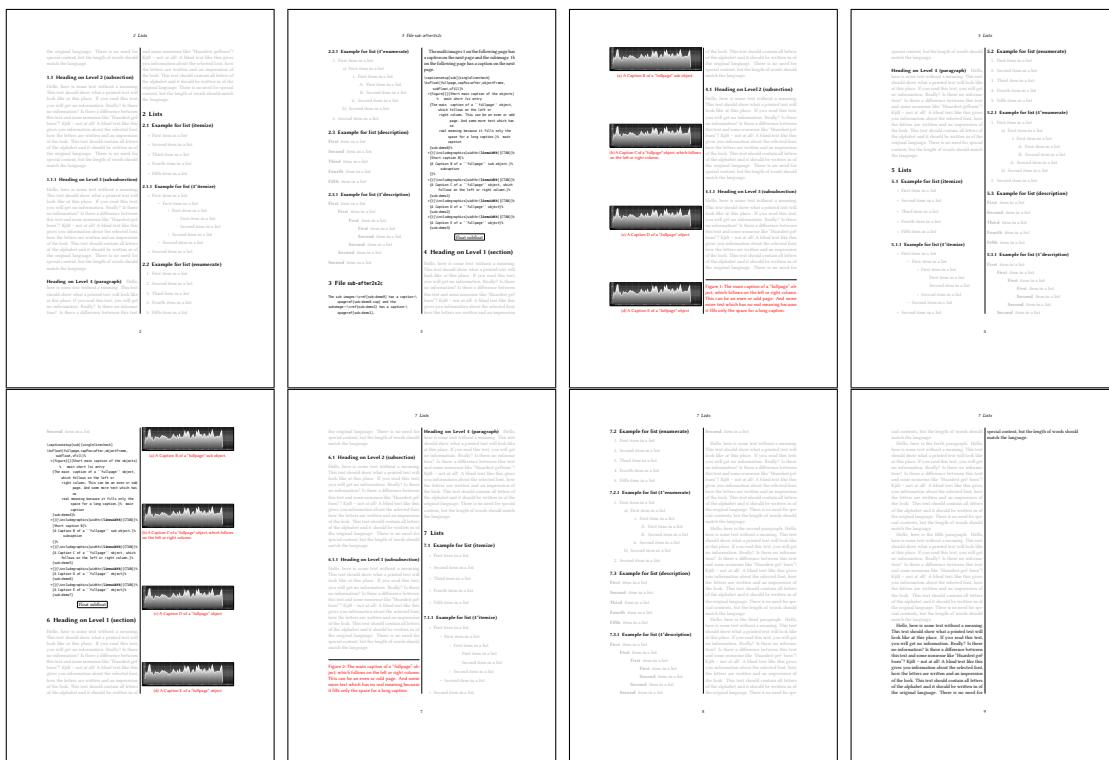


Figure 57: Output of sub-after2s2c (pages 2-9)

21 Doublepage objects – images and/or tabulars

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

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

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

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

21.1 doubleFULLPAGE

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

```

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

```

Fig. 58

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

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

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

```

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

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Fig. 59

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

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

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Fig. 60





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

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

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

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

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

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Fig. 61





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

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

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Fig. 62

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





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21.2 doublePAGE

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

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

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Fig. 63

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





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

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21.3 doublePage

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

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

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

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

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Fig. 65

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

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

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Fig. 66

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

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21.4 Tabulars

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

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

```

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

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

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

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

words should match the language.

22 References to the page

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

```
\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 68 is on page 97, but the image itself is on page 98. With package `varioref` it is:

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

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

23 Defining a style

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

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

For example:

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



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

24 Global float setting

Instead of writing the following sequence into the preamble:

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

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

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

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

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Figure 68: A Caption of a “fullpage” object, which follows on the next page. This can be an even or odd page. The object uses the complete paper dimensions



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Index

A

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

B

before (value), 8, 12, 31, 42, 67
\belowcaptionskip (skip), 7
bottom (value), 8

C

capAngle (keyword), 8
capFormat (keyword), 9, 18
capHPos (keyword), 21
capPos (keyword), 8, 14f, 18f, 21, 30f, 33ff, 42f, 45–49, 67, 95
capVPos (keyword), 8
capWidth (keyword), 8, 11f, 21
caption (package), 7, 9
\caption, 9, 17
caption (package), 17
\captionof, 29
\captionsetup, 17f, 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, 7
fbox (package option), 7
\figcaption, 7, 10, 27f
figure (environment), 9f, 26
float (package), 26
floatCapSep (keyword), 8, 10

\floatCapSep (length), 18
floatCapSep (keyword), 18
floatPos (keyword), 8, 22
\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, 26ff, 38, 40
\hvFloat*, 22
hvFloatEnv (environment), 10, 29
\hvFloatSet, 7
\hvFloatSetDefaults, 7, 10, 27f
\hvOBox, 27, 92
hvfloater (package), 7, 29, 45f
\hvfloater, 36, 49
hvfloater-fps (package), 96
hypcap (package option), 7
hyperref (package option), 7
hyperref (package), 7

I

ifoddpaper (package), 7
\includegraphics, 36
\incluclgraphics, 30
inner (value), 8, 14, 30, 35, 47, 49

K

Keyword

- capHPos, 21
- capPos, 14f, 18f, 21, 30f, 33ff, 42f, 45–49
- capWidth, 12, 21
- floatPos, 22
- objectPos, 18, 23
- singlelinecheck, 38, 51

L

l (value), 21, 23
left (value), 8, 12, 18f, 31, 42
\linewidth (length), 11
\listoffigures, 7
lscape (package), 22

M

\marginparwidth (length), 8, 20
 multiFloat (keyword), 31
 multido (package), 7

N

nonFloat (keyword), 7f, 26
 nonfloat (package), 26
 nonfloat (keyword), 27
 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, 27
 outer (value), 8, 14f, 21, 30, 35, 48

P

p (value), 22
 \pageref, 95
 \paperheight (length), 36
 \paperwidth (length), 36
 pdfscape (package), 22

R

right (value), 8, 21, 43
 rotAngle (keyword), 8
 \rotatebox, 13

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 (package), 7, 40, 52
 \subcaption, 17
 subcaption (package), 7
 \subcaption, 9
 \subcaptionsetup, 17f

T

\tabcaption, 7, 10, 27f
 \tabcaptionbelow, 7

table (environment), 9f, 26
 \textwidth (length), 8, 29
 top (value), 8
 twocolumn (package option), 31, 42
 twocolumn, 22, 30, 42
 twoside (package option), 34, 42
 twoside, 14

U

use0Box (keyword), 8, 27

V

vFill (keyword), 9
 Value
 - after, 33, 43
 - before, 31, 42
 - evenPage, 30, 34, 45
 - false, 38, 51
 - h, 12
 - inner, 14, 30, 35, 47, 49
 - l, 21, 23
 - left, 18f, 31, 42
 - oddPage, 30, 35, 46
 - outer, 14f, 21, 30, 35, 48
 - p, 22
 - right, 21, 43
 - w, 12
 varioref (package), 95f
 \vfill, 9

W

w (value), 12
 wide (keyword), 8, 10, 20

X

xkeyval (package), 7

25 The Package Source

```
1 %% $Id: hvfloat.sty 571 2022-06-06 05:40:26Z herbert $
2 %%
3 %%
4 %% IMPORTANT NOTICE:
5 %%
6 %% This is file `hvfloat.sty',
7 %%
8 %% Herbert Voss <hvoss@tug.org>
9 %% Copyright (C) 2003-22
10 %%
11 %% This program can be redistributed and/or modified under the terms
12 %% of the LaTeX Project Public License Distributed from CTAN archives
13 %% in directory macros/latex/base/lppl.txt.
14 %%
15 %% DESCRIPTION:
16 %% `hvfloat' offers rotating of captions and objects for floats
17 %%
18 \NeedsTeXFormat{LaTeX2e}
19 \def\fileversion{2.40}
20 \def\filedate{2022/07/20}
21 %\message{`hvfloat' v\fileversion, \filedate\space (Herbert Voss)}
22 \ProvidesPackage{hvfloat}[\filedate\space v\fileversion\space special floating objects (hv)]
23 \let\hvFloatFileVersion\fileversion
24 %
25 \newif\ifhv@fbox \hv@fboxfalse
26 \newif\ifhv@hyperref \hv@hyperreffalse
27 \newif\ifhv@nostfloats \hv@nostfloatsfalse
28 \newif\ifhv@tugboat \hv@tugboatfalse
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
48 \RequirePackage{expl3,multido}
49 \RequirePackage{graphicx}
50 \RequirePackage{varwidth}
51
52 \RequirePackage{xkeyval}
53 \RequirePackage{ifoddpage}
54 \RequirePackage{afterpage}
55
56 \ifhv@hyperref
57   \RequirePackage{hyperref}
58 \fi
59 \ifhv@nostfloats
60   \def\thisfloatpagestyle#1{%
61     \global\@namedef{\number\@currbox @float}{\thispagestyle{#1}}}
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 \providecommand*{\LenToUnit}[1]{\strip@pt\dimexpr#1*\p@/\unitlength}
68
69 \newlength\hvObjectWidth
70 \newlength\hvCapWidth
71 \newlength\hvWideWidth
72 \newlength\hvMultiFloatSkip
73 \newlength\hvMaxCapWidth
74 \newlength\hvFloatFullWidth % only for user purpose
75 \AtBeginDocument{\hvFloatFullWidth=\the\dimexpr\textwidth+\marginparwidth+\marginparsep\relax}
76
77
78 \newsavebox\hvObjectBox
79 \newsavebox\hvCaptionBox
80 \newsavebox\hvOBox
81 \newsavebox\@tempbox
82 \newsavebox\hv@caption@box
83 \newsavebox\hv@leftBox
84 \newsavebox\hv@rightBox
85
86 \newif\ifhv@capbeside \hv@capbesidefalse
87 \newif\ifhv@switchType
88
89 \def\hv@Top{top}
90 \def\hv@Bottom{bottom}
91 \def\hv@After{after}
92 \def\hv@Before{before}
93 \def\hv@Right{right}
94 \def\hv@Left{left}
95 \def\hv@Center{center}
96 \def\hv@Outer{outer}
97 \def\hv@Inner{inner}
98 \def\hv@Even{evenPage}
99 \def\hv@Odd{oddPage}
100 \def\hv@Natural{n}
101 \def\hv@LineWidth{l}
102 \def\hv@Width{w}
103 \def\hv@Height{h}
104 \def\hv@Zero{0}
105 %
106 \def\hv@figure{figure}
107 %
108 \define@key{hvSet}{floatPos}[tbp]{% LaTeX's position parameters http
109   \def\hvSet@floatPos{#1}%
110 }
111 \define@key{hvSet}{rotAngle}[0]{% rotates caption AND image together
112   \def\hvSet@rotAngle{#1}%
113 }
114 \define@key{hvSet}{capWidth}[n]{% (l)inewidth|(n)atural width|object (w)idth|object (h)eight|<scale
115   of \columnwidth>
116   \def\hvSet@capWidth{#1}%
117 }
118 \define@key{hvSet}{capAngle}[0]{% -360..+360, only integers
119   \def\hvSet@capAngle{#1}%
120 }
121 \define@choicekey*+{hvSet}{capPos}[\val\nr]{bottom,top,left,before,right,after,inner,outer,evenPage,
  oddPage}[bottom]{%
122   \def\hvSet@capPos{#1}% it is relativ to the object, (e),(d) only valid for fullpage float
123   \ifcase\nr\relax
124     \hv@capbesidefalse
125   \or
126     \hv@capbesidefalse
127   \else
128     \hv@capbesidetrue
129   \fi

```

```

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

```

```

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

```

```

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

```



```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

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

```

```

1318 \expandafter\global\expandafter\savebox\expandafter\hvObjectBox\expandafter{\ifhv@use0Box\usebox{\hv0Box
1319 } \else\hv@floatObject\fi}%
1320 \expandafter\global\expandafter\savebox\expandafter\hv@boxLeftPage\expandafter{\clipbox*{0 -\depth{}} \
1321 \expandafter\global\expandafter\savebox\expandafter\hv@boxRightPage\expandafter{\clipbox*{\
1322 \hv@leftPageObjectWidth{}} -\depth{}} \width{}} \height{}}{\usebox\hvObjectBox}}%
1323 \checkoddpage
1324 \ifoddpage
1325 \hv@typeout{do@hvFloat@doublePAGE: oddpage}%
1326 \if@twocolumn
1327 \if@firstcolumn
1328 \hv@typeout{do@hvFloat@doublePAGE: ifoddpage->twocolumn->firstcolumn}%
1329 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}%
1330 \else
1331 \hv@typeout{do@hvFloat@doublePAGE: ifoddpage->twocolumn->secondcolumn}%
1332 \do@hvFloat@doublePAGECaptionRight{#1}%
1333 \fi
1334 \else
1335 \do@hvFloat@doublePAGECaptionRight{#1}%
1336 \fi
1337 \else
1338 \hv@typeout{do@hvFloat@doublePAGE: evenpage}%
1339 \if@twocolumn
1340 \if@firstcolumn
1341 \afterpage{\afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}}%
1342 \else
1343 \afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}}%
1344 \fi
1345 \else
1346 \afterpage{\do@hvFloat@doublePAGECaptionRight{#1}}% onecolumn/left page
1347 \fi
1348 \fi
1349 %
1350 \def\do@hvFloat@doublePAGECaptionRight#1{% image on left and right page with caption on the right
1351 -----
1352 % #1-> 0/1 caption under/right
1353 \hv@typeout{do@hvFloat@doublePAGECaptionRight->start}%
1354 \afterpage{%
1355 \hfuzz=\maxdimen
1356 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1357 \ifhv@use0Box
1358 \global\let\hvObjectBox\hv0Box
1359 \else
1360 \global\savebox\hvObjectBox{\hv@floatObject}%
1361 \fi
1362 \noindent
1363 \global\hv@tempWidthA=\the\dimexprlin+\oddsidemargin-\hvSet@bindCorrection%
1364 \global\hv@leftPageObjectWidth=\the\dimexpr\paperwidth-lin-\evensidemargin-\hvSet@bindCorrection%
1365 \clipbox*{0 -\depth{}} \hv@leftPageObjectWidth{}} \height{}}{\usebox\hvObjectBox}%
1366 \null\newpage\if@twocolumn\newpage\fi
1367 \expandafter\global\expandafter\savebox\expandafter\hvObjectBox\expandafter{\ifhv@use0Box\usebox{\
1368 hv0Box}\else\hv@floatObject\fi}%
1369 \noindent
1370 \hspace*{\dimexpr-\hv@tempWidthA}%
1371 \clipbox*{\the\hv@leftPageObjectWidth{}} -\depth{}} \width{}} \height{}}{\usebox\hvObjectBox}%
1372 \begingroup
1373 \ifnum#1>0
1374 \medskip
1375 \ifdim\dp\hvObjectBox > \z@
1376 \rotatebox[origin=c]{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1377 \ifx\relax\hv@shortCap\relax
1378 \captionof{\hv@floatType}{\hv@LongCap}%
1379 \else
1380 \captionof{\hv@floatType}{\hv@shortCap}{\hv@LongCap}%
1381 \fi

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

1763 \hv@longCap
1764 \else
1765 \ifx\hv@shortCap\@empty
1766 \captionof{\hv@floatType}{\hv@longCap}%
1767 \else
1768 \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap}%
1769 \fi
1770 \fi
1771 }}}%
1772 \ifx\hv@label\@empty\else\label{\hv@label-cap}\fi
1773 \fi
1774 \fi% end \ifnum#1>0
1775 \newpage\if@twocolumn\null\newpage\fi
1776 }%
1777 }%
1778 }
1779
1780
1781 \def\setBottomCaption{%
1782 \begin{\hv@floatType}[!b]%
1783 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1784 \ifhv@separatorLine\drawSepLine\fi
1785 \par
1786 \usebox\hvCaptionBox
1787 \end{\hv@floatType}%
1788 }
1789
1790
1791
1792 \def\setPageObject{%
1793 \ifhv@star
1794 \begin{\hv@floatType*}[p]%
1795 \else
1796 \begin{\hv@floatType}[p]%
1797 \fi
1798 \thisfloatpagestyle{empty}%
1799 \hfuzz=\maxdimen
1800 \expandafter\hvFloatSet\expandafter{\hv@save@setting}%
1801 \ifhv@FULLPAGE
1802 \vspace*{\the\dimexpr-\voffset-\topmargin-\headheight-\headsep}%-0.5\baselineskip%
1803 \checkoddpage
1804 \if@twoside
1805 \ifoddpage
1806 \hspace*{\the\dimexpr-\oddsidemargin-\parindent-lin}%
1807 \else
1808 \hspace*{\the\dimexpr-\evensidemargin-\parindent-lin}%
1809 \fi
1810 \else
1811 \hspace*{\the\dimexpr-\oddsidemargin-\parindent-lin}%
1812 \fi
1813 % \AtBeginShipoutNext{\thispagestyle{empty}}%
1814 % \afterpage{\AddToHookNext{shipout/after}{\thispagestyle{empty}}}%
1815 \usebox\hvObjectBox
1816 \else
1817 \usebox\hvObjectBox
1818 \fi
1819 \ifhv@star
1820 \end{\hv@floatType*}%
1821 \else
1822 \end{\hv@floatType}%
1823 \fi
1824 }
1825
1826 \ExplSyntaxOn
1827
1828 \def\getMultiCaptionAndLabel{%
1829 \global\sbox\hvCaptionBox{\minipage[b]{\linewidth}%

```

```

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

```

```

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

```

```

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

```