Package hvfloat Rotating and scaling of objects and captions ver 2.21

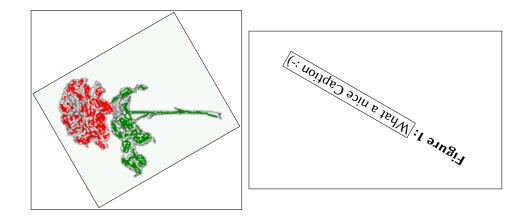
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The package hvfloat defines a macro to place objects and captions of floats in different positions with different rotating angles.

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

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



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1 The package options

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

hyperref Load package hyperref.

The length <code>\belowcaptionskip</code> is set by $\ensuremath{\mathbb{L}}\xspace{TEX}$ to <code>0pt</code> and changed in <code>hvfloat</code> to the same value than <code>\abovecaptionskip</code>. This length can be changed to another value in the usual way with <code>\setlength</code> or <code>\addtolength</code>.

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

 ${\tt caption, subcaption, at begshi, expl3, multido, graphicx, xkeyval, if odd page, and after page.}$

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 24 and 19.2 on page 52 and the optional ∓is explained in section 17.3 on page 39.

\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}
```

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.

2 The Macros and optional arguments

[...] It is no problem to use the \verb|\tabcaption| command to place a caption anywhere, like here in an inlined mode: \tabcaption[The Caption without sense ...]{A Caption without any sense and any object}\label{dummy} A label can be put inside the argument or after the command in the usual way, so that a reference to the not existing table~\ref{dummy} is no problem.

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

\hvDefFloatStyle{name}{setting}

Internally the style is saved in a macro named \hv@<name>. There are the following keywords:

Keyword	Default	Description	
floatPos tbp		This is the same default placement setting like the one from standard LATEX, but maybe not always the best setting.	
rotAngle	0	The value for the angle if both, the object and the caption should be rotated in the same way.	
capWidth	n	The width of the caption. Can be $n \ll like a$ natural width, $w \ll for$ the width of the object, $h \ll for$ the height of the object, or a scale for $columnwidth$.	
capAngle	Θ	The value for the angle if the caption should be rotated. Counted anti clockwise.	
capPos	bottom	The position of the caption relative to the object. Possible values are 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 <i>same page</i> 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 <i>same page</i> 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	This is only important for capPos=left right. Only in this case the caption can vertically placed at the bottom, center and top.	
objectPos	center	The horizontal placement of the object relative to the document. Possible values are $(\mathbf{l})eft (\mathbf{c})enter (\mathbf{r})ight.$	

Keyword	Default	Description	
objectAngle	0	The value for the angle if the object should be rotated. Counted anti	
		clockwise.	
floatCapSep	5pt	The additional width between the object and a left or right placed caption.	
use0Box	false	Instead of passing the object as parameter to the \hvFloat, the contents	
		maybe saved in the box $hvOBox$ With useOBox=true the contents of this	
		box will be used.	
onlyText	false	The caption will be printed as normal text and there is no entry in the	
		list of	
nonFloat	false	The object isn't put in a floating environment. It is printed as standard	
		text with an additional caption. The float counters are increased as	
		usual and can be referenced.	
wide	false	The float can use \textwidth+\marginparwidth as horizontal width.	
objectFrame	false	put a frame with no separation around the float object.	
style	_	Use a defined style	
capFormat	_	Define formatting options for \caption (see documentation of package	
		caption).	
subcapFormat	-	Define formatting options for \subcaption.	

3 The default use of floating environments

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

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

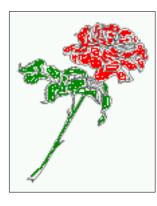


Figure 2: Without any keywords (only the fbox package option)

Code for figure 2:

4 Caption width

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

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	Туре	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

Code for table 3:

```
\hvFloat[capPos=top]{table}{%
\begin{tabularx}{\textwidth}{>{\ttfamily}l|l|X}
\rmfamily Name & Type & Description\\hline
\CMD{hvFloat} & command & places object and caption in different ways\\
hvFloatEnv & environment & places object and caption exactly Here\\
\CMD{figcaption} & command & writes a figure caption in a non floating environment\\
\CMD{tabcaption} & command & writes a table caption in a non floating environment\\
\CMD{hvFloatSetDefaults} & command & sets all options to the defaults\\
\CMD{hvDefFloatStyle} & command & define a user style
\end{tabularx}%
{With the only Option \texttt{capPos=top} to place the caption on top of the table, which is often
        the default.}%
{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:

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

Fig. 9. For the following examples the package option fbox is disabled. All frames are now set with the macro \frame or the optional keyword objectFrame.

4.2 Relative linewidth

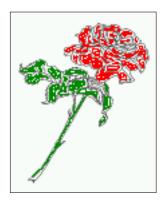


Figure 3: Default caption width setting, which is the natural width with respect to the current linewidth.

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).

\hvFloat[floatPos=!htb,capPos=after,objectFrame]{figure}{\includegraphics[scale=1.5]{images/rose}}

{Caption right beside with a \emph{natural} width, which is given by the width of the object, the separation between object and caption, and the current linewidth.}{fig:width1}

Fig. 4

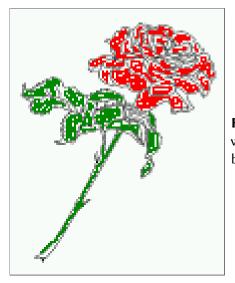


Figure 4: Caption right beside with a *natural* width, which is given by the width of the object, the separation between object and caption, and the current linewidth.

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.

4 Caption width

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

Fig. 5

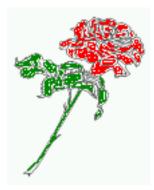


Figure 5: Caption below with a width of 0.9 of the current line width (column width), which is in this special case 376.4258pt. Divide it by 28.82 to get cm.

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:

\hvFloat[floatPos=!htb,

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

Fig. 6

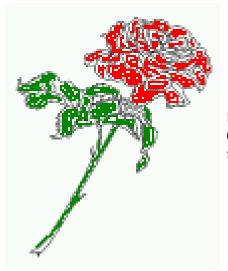


Figure 6: Caption right beside with a width setting of 0.9\linewidth which is too big for this example and therefore corrected by the macro to the maximal width.

4.3 Identical object and caption width

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

 $\t to the set of the$

{Caption below with a width of the given object which may be a problem

if it is a very small object.}{fig:width4}

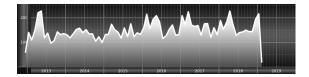


Figure 7: Caption below with a width of the given object which may be a problem if it is a very small object.

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.

```
\hvFloat[floatPos=!htb,capPos=after,capWidth=h,capAngle=90,objectFrame]{figure}{\includegraphics{
    images/rose}}%
```

{Caption beside with a width of the given object height which may be a problem if it is a very small object.}{fig:width5}

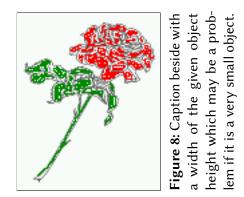


Fig. 8

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:

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

floa**F**ig. 9 capPos=right

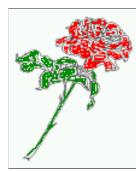


Figure 9: Caption beside object and vertically centered

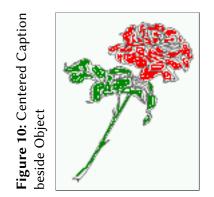
5.2 Caption left and rotated

Code for figure 10:

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

Fig. 10 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.

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:

\hvFloat[%

```
capWidth=h,
capPos=after,
capAngle=180,
objectAngle=90,
capVPos=center,
objectPos=center]{figure}{\frame{\includegraphics{images/rose}}}%
[Centered Caption beside Object]{%
{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.}{fig:3}
```

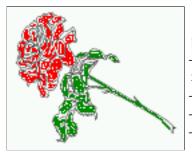


Figure 11: Caption vertically centered right beside the float with a caption width of the height of the image and a rotation of the caption and the object.

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:

6 Caption inner or outer

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

Fig. 12



Figure 12: Centered Caption on the inner 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.

Now the same Image with capPos=outer. The current pagenumber is 16, an even page. We now set a pagebreak at the end of the second image to see if it works with *inner/outer*.

```
\hvFloat[capPos=outer]{figure}{\includegraphics{images/rose}}%
```

[Centered Caption on the inner side]{%
Caption set with the parameter setting \texttt{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:20b}

Fig. 13



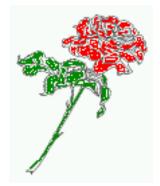




Figure 14: Centered Caption beside Object

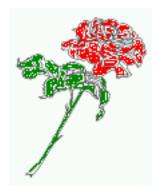
We have an odd page, the reason why figure 13 has the caption for *inner* on the left side and figure 14 for *outer* on the right side.

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

Code for figure **15**:

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

Figure 15: Centered Caption beside Object



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

7 Vertical Position of the Caption

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:

\hvFloat[%

```
floatPos=htb,%
capWidth=0.25,%
capPos=right,%
```

```
capVPos=bottom,%
```

 $] \{ figure \} \{ \ frame \{ \ include graphics \{ images/rose \} \} \{ Caption \ at \ bottom \ right \ beside \ the \ float \} \{ fig: 4 \} \} \} \\$

Fig. 16

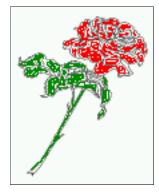


Figure 16: Caption at bottom right beside the float

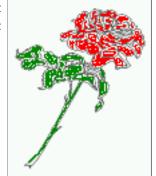
The code for figure 17:

```
\hvFloat[%
    floatPos=htb,
    capWidth=0.25,
    capPos=right,
```

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

Fig. 17

Figure 17: Caption at top left beside the float



The code for figure 18:

```
\hvFloat[%
    capWidth=0.25,
    capPos=right,
    capVPos=center,% the default
]{figure}{\frame{\includegraphics{images/rose}}}{Caption centered right beside the float}{fig:6}
```

Fig. 18

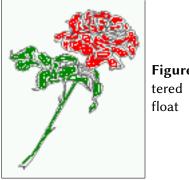


Figure 18: Caption centered right beside the float

8 Caption format

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

\hvFloat[%

```
capPos=right,
```

```
capFormat={labelsep=newline,justification=RaggedRight,font={small,it},labelfont=bf}
]{figure}{\frame{\includegraphics{images/rose}}}{\blindtext}{fig:66}
```

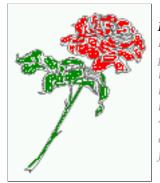


Figure 19

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

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:

\hvFloat[%

```
capWidth=0.25,
capPos=right,
capVPos=top,
objectPos=left,
objectFrame,
]{figure}{\includegraphics{images/rose}}{%
Caption at top right beside the float and object position left}{fig:7}
```

Fig. 20

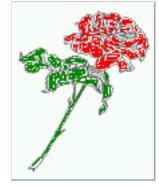


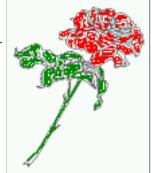
Figure 20: Caption at top right beside the float and object position left

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 :

```
Fig. 21
```

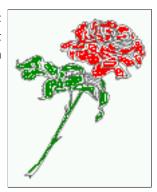
Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! 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. **Figure 21:** Caption at top right beside the float and object position left



The code for figure 22:

\hvFloat[%
 capWidth=0.25,
 capPos=before,
 capVPos=top,
 objectPos=right,
 objectFrame,
]{figure}{\includegraphics{images/rose}}{%
 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



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.

10 Wide floats

The code for figure 23:

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

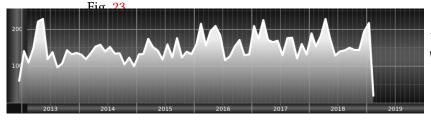
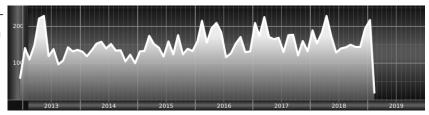


Figure 23: Caption at top right beside the float and object position left and the option wide.

The code for figure 24:
\hvFloat[wide,
 capPos=left,
 capVPos=top,
 objectPos=right,
]{figure}{\includegraphics[width=0.75\linewidth]{images/CTAN}}%
{Caption at top left beside the object and object position left and
 the option \texttt{wide}.}{fig:80}

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

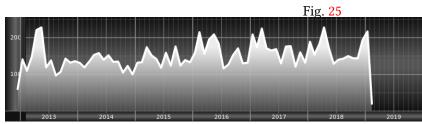


For a twosided document it will place the object always in the margin.

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.

the option \texttt{wide}.}{fig:81}

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

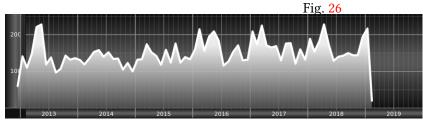


Now we set the same image with the same setting on the next page. The caption will change its side due to the setting capPos=outer .

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.

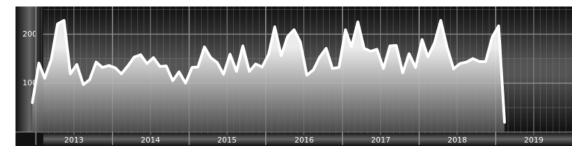
```
\hvFloat[wide,
    capPos=inner,
    capVPos=top,
]{figure}{\includegraphics[width=0.75\linewidth]{images/CTAN}}{%
Caption at top inner beside the float and object position right and
the option \texttt{wide}.}{fig:811}
```

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:

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



11 The star version \hvFloat*

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

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

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

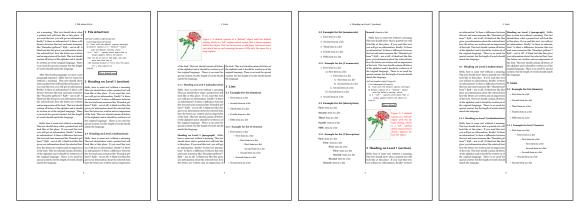


Figure 28: Output of default1s2c (pages 2 -5)

12 Full Page Width in Landscape Mode

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

Code for figure 29:

```
\hvFloat[%
    floatPos=p,
    capPos=bottom,
    rotAngle=90,
    objectPos=center,
]{figure}{\includegraphics[width=0.9\textheight]{images/CTAN}}%
[Object and Caption in landscape mode]{%
    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

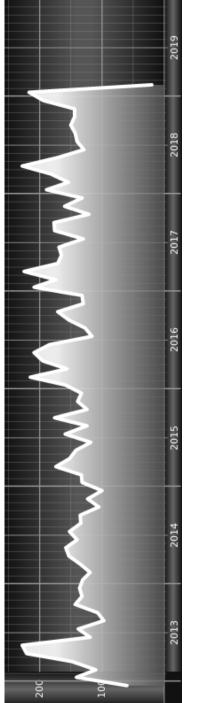
Hello, here is some text without a meaning. This text should show what a printed text will Fig. 29 look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not 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.

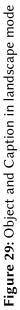
The code for figure 30:

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

Hello, here is some text without a meaning. This text should show what a printed text will Fig. 30 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.





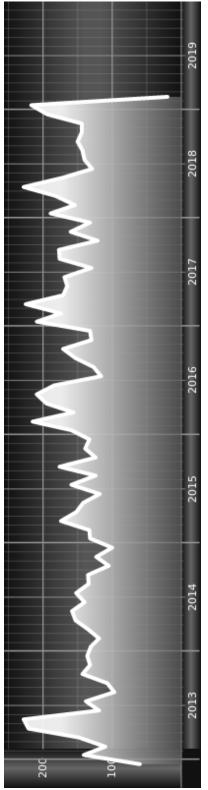


Figure 30: Rotated Caption in Landscape

13 The nonFloat Option

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.

Some nonsense text before the following \emph{non floating} object.

```
\hvFloat[%
    nonFloat,
    capWidth=0.25,
    capPos=right,
    capVPos=bottom,
    objectPos=center,
    objectFrame,
]{figure}{\includegraphics[scale=1.5]{images/rose}}%
    [Nonfloat Captions]{%
    Caption of a ''nonfloat'' Object, using the \texttt{nonfloat} Package}{fig:11}
```

Some nonsense text after the preceding \emph{non floating} object.

Some nonsense text before the following non floating object.

Fig. 31

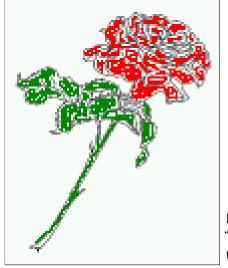


Figure 31: Caption of a "nonfloat" Object, using the nonfloat Package

Some nonsense text after the preceding non floating object.

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

\newcommand{\figcaption}{\def\@captype{figure}\caption}
\newcommand{\tabcaption}{\def\@captype{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 hvOBox to save the table in this box and pass it then to hvFloat with the useOBox 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.

```
\savebox{\hv0Box}{%
   \begin{tabular}{>{\small\ttfamily}l|l|l}\hline
      \rmfamily Name & Type
                                                                                                            & Description\\\hline
      \CMD{hvFloat} & command
                                                                                                   & places object and caption in different ways\\
      hvFloatEnv & environment & places object and caption exactly Here\\
      \label{eq:command_command_command_command_command_command} \label{command_command_command_command} \label{command_command_command} \label{command_command_command} \label{command_command_command} \label{command_command_command} \label{command_command_command} \label{command_command_command} \label{command_command_command} \label{command_command_command} \label{command_command_command} \label{command_command_command_command} \label{command_command_command} \label{command_command_command_command} \label{command_command_command_command} \label{command_command_command_command} \label{command_command_command_command} \label{command_command_command_command} \label{command_command_command_command} \label{command_command_command_command_command} \label{command_command_command_command_command_command_command} \label{command_command_command_command_command_command_command} \label{command_command_command_command_command_command_command} \label{command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_command_co
      \CMD{tabcaption} & command & writes a table caption in a non floating environment\\
      \CMD{hvFloatSetDefaults} & command & sets all options to the defaults\\\hline
   \end{tabular}%
}
        The code for table 4 and 5 is:
\hvFloat[%
      floatPos=!hb,
      capPos=top,
      useOBox=true]{table}{}{Demonstration of the \texttt{useOBox} Parameter}{table:1}
\hvblindtext
\marginnote{Tab.~\ref{table:2}}
\hvFloat[%
      floatPos=hb,
      useOBox=true,
      objectAngle=90,
      capPos=right,
      capVPos=top,
      capWidth=0.3]{table}{}{Another demonstration of the \texttt{use0Box} Parameter}{table:2}
```

In this case leave the third parameter empty.

15 Text and objects

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

Tab. 🐴

15 Text and objects

Name	Туре	Description	
\hvFloat	command	places object and caption in different ways	
hvFloatEnv	environment	places object and caption exactly Here	
\figcaption	command	nmand writes a figure caption in a non floating environment	
\tabcaption	command	ommand writes a table caption in a non floating environmer	
\hvFloatSetDefaults	command	sets all options to the defaults	
	Description places object and caption in different ways places object and caption exactly Here writes a figure caption in a non floating environment writes a table cantion in a non floating environment	Table 5: Demonstration of	
	Type command environment command	command	
	Name \hvFloat hvFloatEnv \figcaption	\hvFloatSetDefaults	

Table 4: Demonstration of the use0Box Parameter

The code for figure 15:

\hvFloat[%
 onlyText=true,

```
capAngle=90,
capPos=right,
capVPos=top,
objectFrame,
capWidth=h]{}\includegraphics{images/rose}}%
[''\texttt{onlyText}'' Caption]{%
Demonstration of the \texttt{onlyText} Parameter, which makes it
possible to put some text beside a floating object without getting
a starting \texttt{Figure:} or \texttt{Table:}}{fig:text}
```

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

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:

```
\begin{hvFloatEnv}
\captionof{table}{A caption for a nice table}
\begin{tabular}{@{} l c r @{}}\hline
left & center & right \\
L & C & R \\\hline
\end{tabular}
\end{hvFloatEnv}
```

Table 6: A caption for a nice table

left	center	right
L	С	R

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

```
\begin{hvFloatEnv}[0.5\textwidth]
\captionof{table}{A caption for a nice table}
\begin{tabular}{@{} l c r @{}}\hline
left & center & right \\
```

17 Full page objects in onecolumn mode

L & C & R \\\hline \end{tabular} \end{hvFloatEnv}

Table 7: A caption for a nice table

left	center	right
L	С	R

17 Full page objects in onecolumn mode

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

1 0 0 1	
\define@key{Gin}{fullpage}[true]{%	\define@key{Gin}{FullPage}[true]{%
\def\Gin@ewidth{\columnwidth}%	\def\Gin@ewidth{\textwidth}%
\def\Gin@eheight{\textheight}%	\def\Gin@eheight{\textheight}%
\Gin@boolkey{false}{iso}%	\Gin@boolkey{false}{iso}%
}	}
\define@key{Gin}{FULLPAGE}[true]{%	
\def\Gin@ewidth{\paperwidth}%	
\def\Gin@eheight{\paperheight}%	
\Gin@boolkey{false}{iso}%	
}	

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

17.1 Using the textarea

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

\hvFloat[fullpage]%

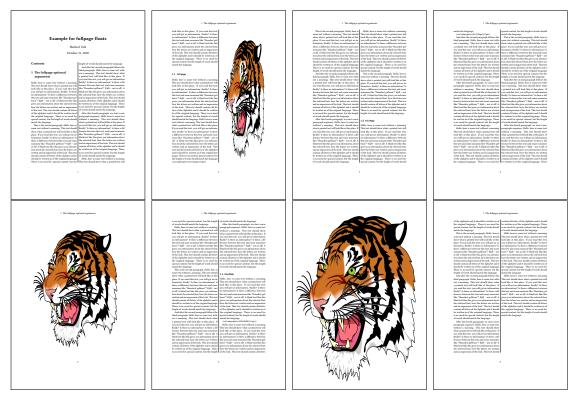


Figure 32: Output of fullpage1s2c (pages 1-8)

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

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

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

Name	Туре	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 sec-
		tion 17.3 on page 39.
subFloat	true false	For multiple objects with one main and more subcaptions. See
		section 18 on page 41.
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.

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

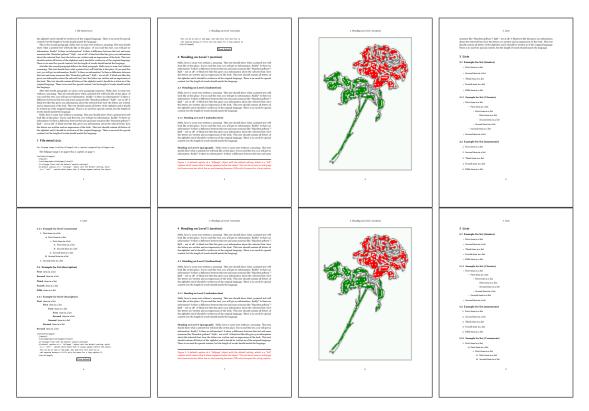


Figure 33: Output of default1s1c (pages 2-9)

17.1.2 Using capPos=after

The caption will be printed always on the right side which is the same as *after* the full page object. The object appers 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.

\hvFloat[fullpage, capPos=after]%

{figure}%

{\includegraphics[fullpage]{images/frose}}%

[A float which needs the complete page width and height.]%
{A Caption of a ''fullpage'' object, which follows on the next page.
This can be an even or odd page. And some more text which has no
real meaning because it fills only the space for a long caption.}

{fig:fullpage1}

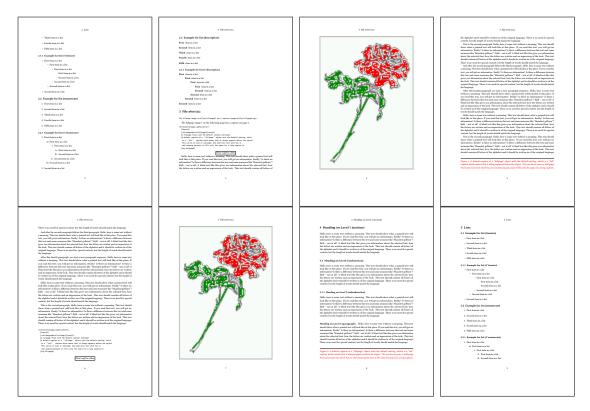


Figure 34: Output of after1s1c (pages 2–9)

17 Full page objects in onecolumn mode

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!

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

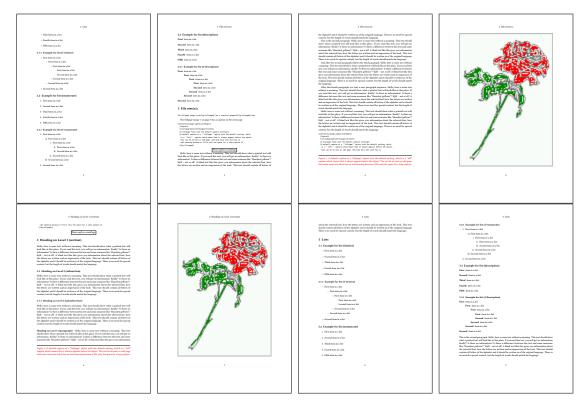


Figure 35: Output of even1s1c (pages 2-9)

17.1.4 Using capPos=oddPage – caption on an odd page

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

\hvFloat[fullpage, capPos=oddPage]%

{figure}%

{\includegraphics[fullpage]{images/frose}}%

[A float which needs the complete page width and height.]%

{A Caption on an odd page of a ''fullpage'' object, which follows on the next page.

This can be an even or odd page. And some more text whch has no

real meaning because it fills only the space for a long caption.}

{fig:fullpage2}

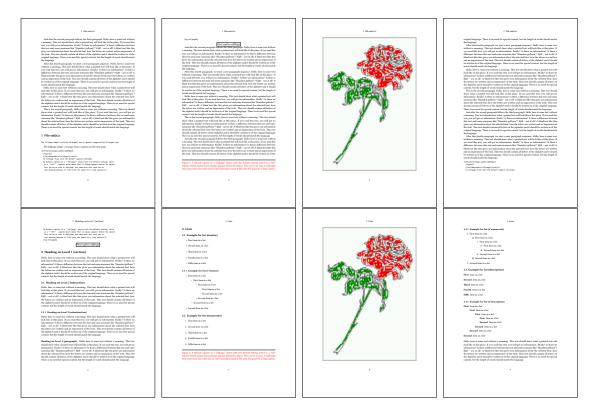


Figure 36: Output of odd1s1c (pages 2-9)

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

These settings make no sense in onecolumn mode.

17 Full page objects 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 valis 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!

\hvFloat[FULLPAGE]%

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

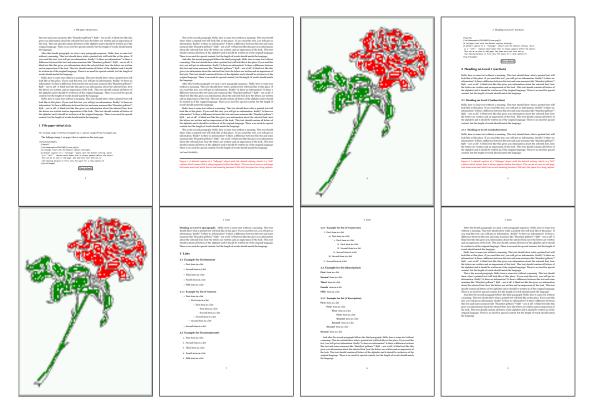


Figure 37: Output of paper-default1s1c (pages 2-9)

17.3 Multifloats

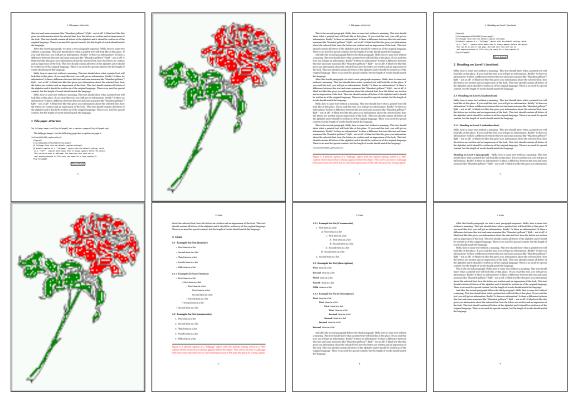


Figure 38: Output of paper-after1s1c (pages 2-9)

17.3 Multifloats

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

<pre>\hvFloat[Options] +{float type}{floating object}[short caption] {long caption}{label}</pre>
+{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:

```
\captionsetup{singlelinecheck=false}
\hvFloat[fullpage,capPos=before,multiFloat]%
+{figure}{\includegraphics[width=\linewidth]{images/CTAN}}% no 1
[Short caption A]%
{A Caption A of a ''fullpage'' object, which follows on the left or
right column. This can be an even or odd page. And some more text whch has no
```

```
real meaning because it fills only the space for a long caption.}%
 {img:demo0}%
+{table}{\begin{tabular}{lrcp{3cm}}\hline
                                                          %
                                                                        no 2
          Linksbündig & Rechtsbündig & Zentriert & Parbox\\\hline
          L
                     & R
                                    & C
                                                 & P\\
          left
                     & right
                                    & center
                                                 & Text with possible linebreaks\\
          \multicolumn{4}{c}{Multicolumn over all columns}\\\hline
         \end{tabular}}%
 [Short Caption B]%
 {A Caption B of a ''fullpage'' object, which follows on the left or
      right column. This can be an even or odd page.}{}%
+{figure}{\includegraphics[width=\linewidth]{images/CTAN}}%
                                                                                no 3
 {A Caption C of a ''fullpage'' object, which follows on the left or
    right column.}%
 {img:demo1}
+{figure}{\includegraphics[width=\linewidth]{images/CTAN}}%
                                                                                no 4
 {A Caption C of a ''fullpage'' object, which follows on the left or
    right column.}%
```



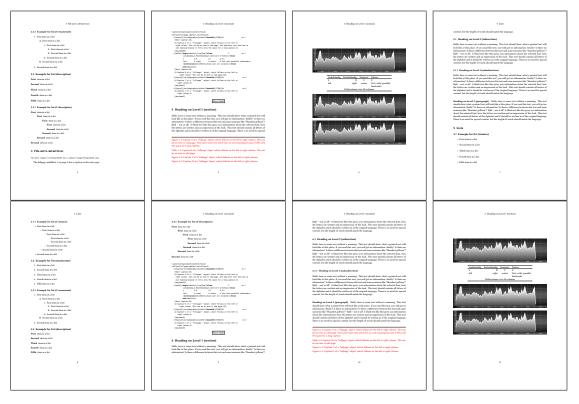


Figure 39: Output of multi-default1s1c (pages 4-11)

The page with the objects has no additional informations it holds only the figures and/or

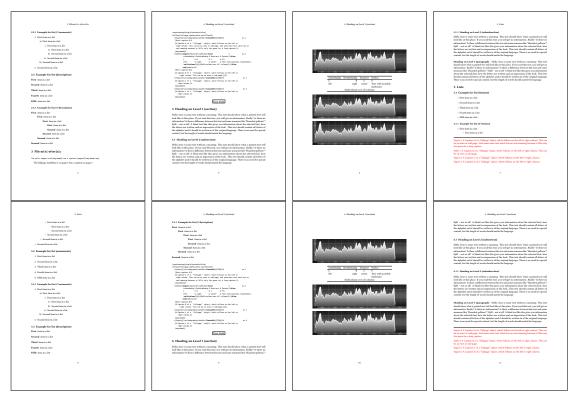


Figure 40: Output of multi-after1s1c (pages 4-11)

tabulars. If you want it like subfigures or subtabulars then go to section 18. The setting \captionsetup{singlelinecheck=false} is needed if you want the captions always left aligned.

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 similiar to the one for a multifloat page:

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

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

```
\hvFloat[fullpage,capPos=before,objectFrame,subFloat]%
+{figure}{}[Short main caption of the objects]% main short lsi entry
{The main caption of a ''fullpage'' object, which follows on the left or
```

18 Subfloat page

```
right column. This can be an even or odd page. And some more text whch has no
      real meaning because it fills only the space for a long caption.}% main caption
{sub:demo0}%
+{}{\includegraphics[width=\linewidth]{images/CTAN}}%
 [Short caption B]%
 {A Caption B of a ''fullpage'' sub object.}% subcaption
{}%
+{}{\includegraphics[width=\linewidth]{images/CTAN}}%
{A Caption C of a ''fullpage'' object, which follows on the left or right column.}%
{sub:demo1}
+{}{\includegraphics[width=\linewidth]{images/CTAN}}%
 {A Caption D of a ''fullpage'' object}%
 {sub:demo2}
+{}{\includegraphics[width=\linewidth]{images/CTAN}}%
{A Caption E of a ''fullpage'' object}%
 {sub:demo3}
```

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

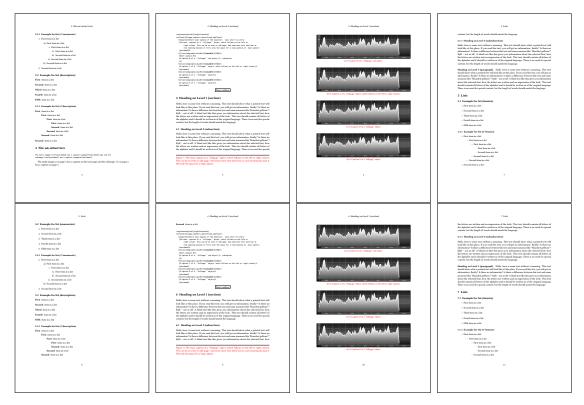


Figure 41: Output of sub-default1s1c (pages 4-11)

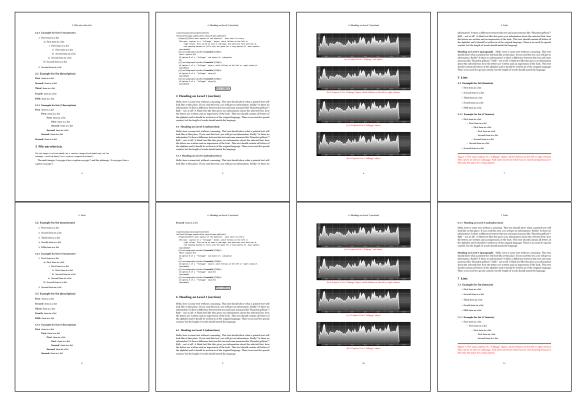


Figure 42: Output of sub-after1s1c (pages 4-11)

19 Full page objects in twocolumn mode

The filenames always have a "2c" for two columns in its names, e.g. left2s2c indicates capPos=before and the documentclass setting twoside and twocolumn. Depending to the used documentclass it can be a problem, if the caption should be placed on the first page of the whole document. In such a case use one of the other setting. Table 8 on page 34 shows the valid optional arguments for a full page floating object.

19.1 Default setting

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

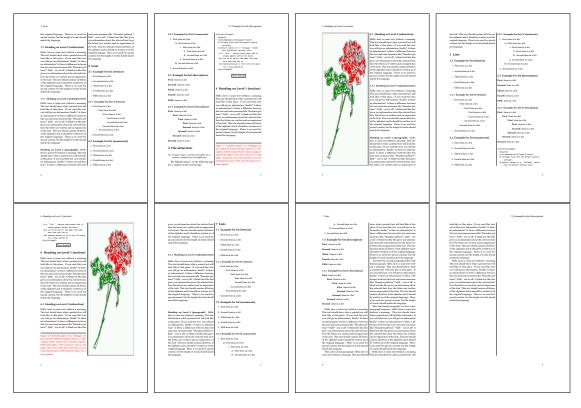


Figure 43: Output of default2s2c (pages 2-9)

\hvFloat[fullpage]{figure}%

 $\label{eq:lincludegraphics[width=\columnwidth,height=0.9\textheight]{images/frose}}$

[A float which needs the complete column width and height.]%

{A Caption of a ''fullpage'' object, which follows on the next column.
This is always the right column on an even or odd page. And some more
text which has no real meaning because it fills only the space for a long
caption.}%
{fig:fullpage0-2}

The example 43 on the preceding page 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 44).

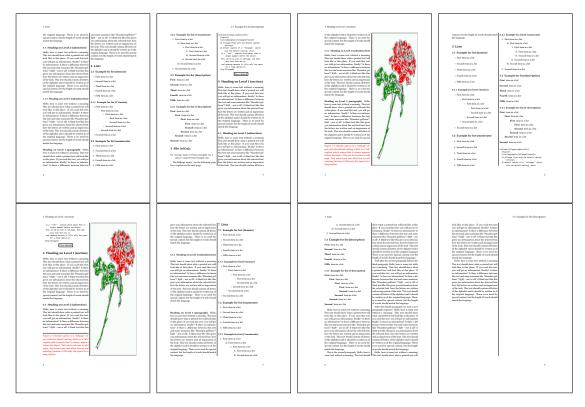


Figure 44: Output of left2s2c (pages 2-9)

19.1.1 Using capPos=after

The caption will be printed always right of the object which is the same as *after* the full page object. With capPos=after it is possible to get the caption in the twocolumn mode always in the right (second) column (see figure 46 on page 47)

```
\hvFloat[fullpage, capPos=after]{figure}%
{\includegraphics[fullpage]{images/rose}}%
[A float which needs the complete column width and height.]%
{A Caption of a ''fullpage'' object, which is on the left column.
This is always the right column on an even or odd page. And some more
```

19 Full page objects in twocolumn mode

```
text whch has no real meaning because it fills only the space for a long
caption.}%
{fig:fullpage1-2}
```

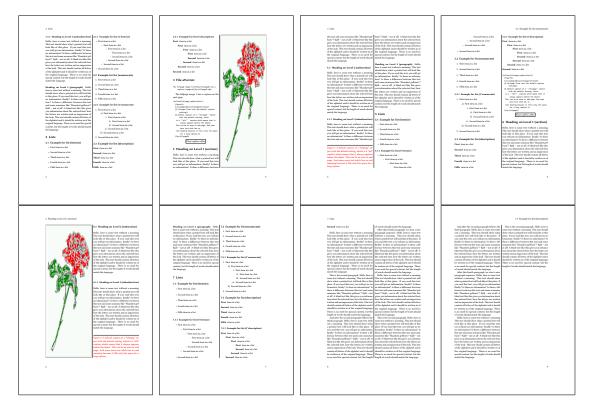


Figure 45: Output of after2s2c (pages 2-9)

The caption and the object can be on different pages (Figure 45). If you do not like this behaviour, then use the setting capPos=right instead of capPos=after. Figure right2s2c shows that caption and object in this case are always on the same page.

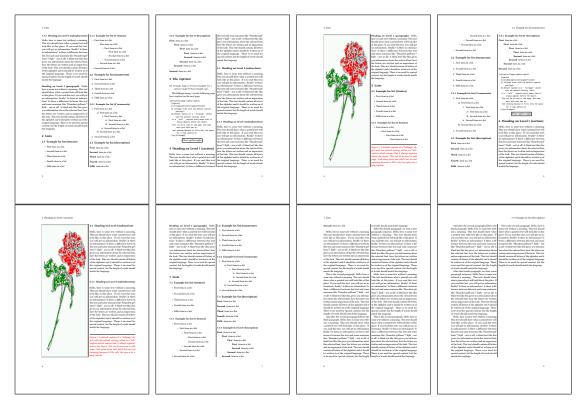


Figure 46: Output of right2s2c (pages 2-9)

19 Full page objects in twocolumn mode

19.1.2 Using capPos=evenPage – caption on an even page

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

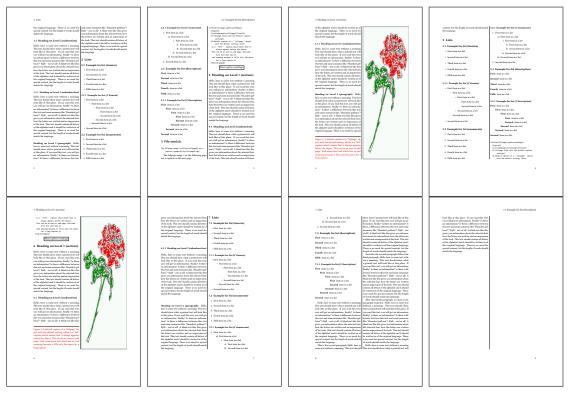


Figure 47: Output of even2s2c (pages 2–9)

19.1.3 Using capPos=oddPage - caption on an odd page

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

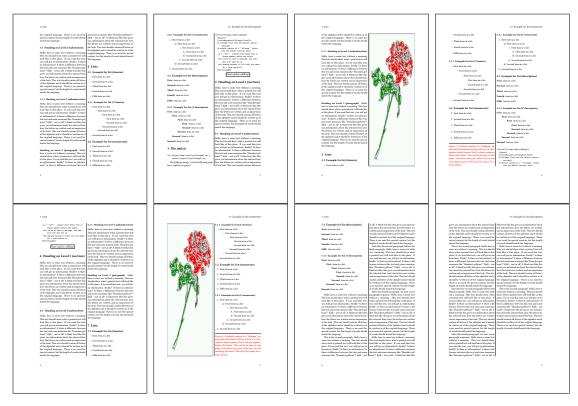


Figure 48: Output of odd2s2c (pages 2–9)

19 Full page objects in twocolumn mode

19.1.4 Using capPos=inner – caption in the inner column

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

\hvFloat[fullpage,capPos=inner]{figure}{\includegraphics[fullpage]{images/rose}}%

[A float which needs the complete column width and height.]%

{A Caption of a ''fullpage'' object, which follows on the left or right column.

This can be an even or odd page. And some more text whch has no

real meaning because it fills only the space for a long caption.}{fig:fullpage3-2}

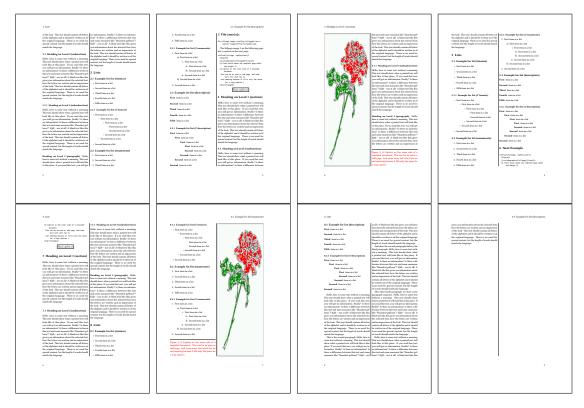


Figure 49: Output of inner2s2c (pages 2-9)

19.1.5 Using capPos=outer - caption on the outer column

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

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

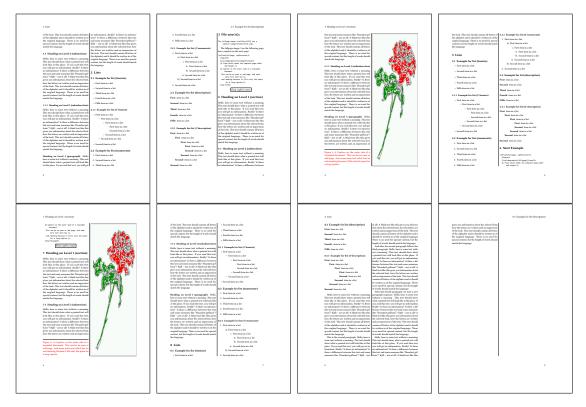


Figure 50: Output of outer2s2c (pages 2-9)

19 Full page objects in twocolumn mode

19.2 Using full page in twocolumn mode

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

\hvFloat*[fullpage, capPos=inner]{figure}%

{\includegraphics[FullPage]{images/rose}}%

- [A float which needs the complete page width and height with $\mathsf{texttt}{capPos=outer}.]$ %
- {A caption of a ''fullpage'' object in two column mode: It uses the star version
- of \textbackslash hvFloat. The object goes over both columns.}{fig:two}

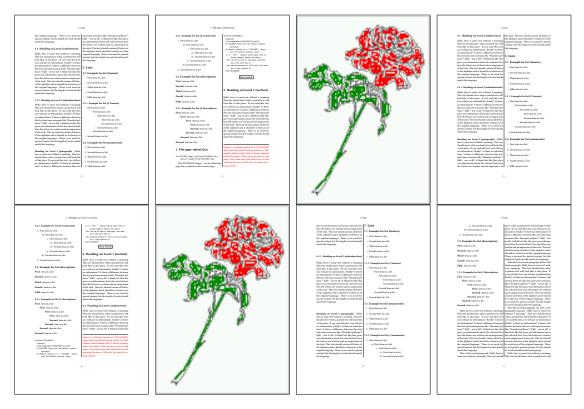


Figure 51: Output of paper-default2s2c (pages 2-9)

19.3 Multifloats

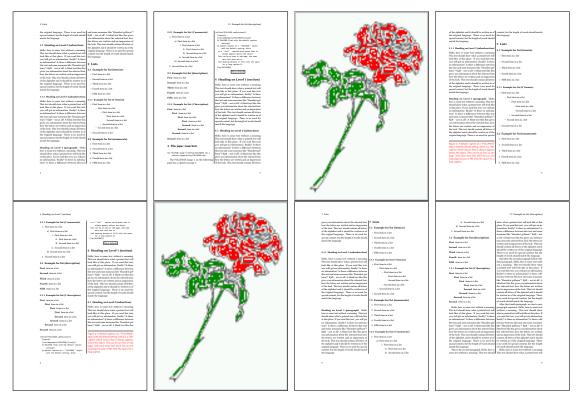


Figure 52: Output of paper-inner2s2c (pages 2–9)

19.3 Multifloats

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

```
\captionsetup{singlelinecheck=false}
\hvFloat[fullpage,multiFloat,capPos=inner]%
  +{figure}{\includegraphics[height=0.4\textheight]{images/rose}}% no 1
   [Short caption A]%
   {A Caption A of a ''fullpage'' object, which follows on the left or
    right column. This can be an even or odd page. And some more text whch has no
    real meaning because it fills only the space for a long caption.}%
   {multi:demo0}%
  +{table}{\begin{tabular}{lr}\hline
                                                       % no 2
            Linksbündig & Rechtsbündig\\
            L
                        & R
                                       \backslash \backslash
            left
                        & right
                                       \\
            \multicolumn{2}{c}{Multicolumn}\\\hline
```

```
\end{tabular}%
[Short Caption B]%
{A Caption B of a ''fullpage'' object, which follows on the left or
    right column. This can be an even or odd page.}%
{}%
+{figure}{\includegraphics[height=0.4\textheight]{images/rose}}% no 3
{A Caption C of a ''fullpage'' object, which follows on the left or
    right column.}%
{multi:demol}
```

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

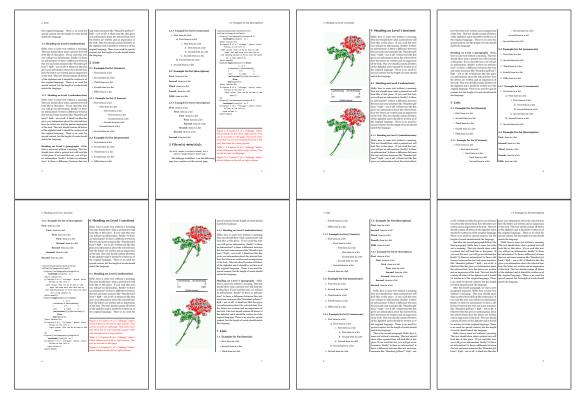


Figure 53: Output of multi-default2s2c (pages 2-9)

20 Subfloat page

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

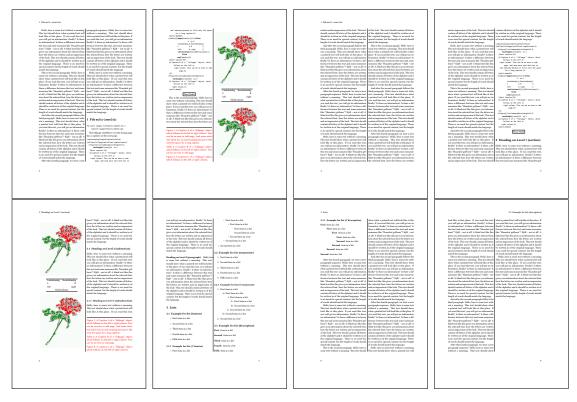


Figure 54: Output of multi-inner2s2c (pages 2-9)

```
\captionsetup[sub]{singlelinecheck}
```

```
\hvFloat[fullpage,capPos=before,objectFrame,subFloat]%
```

```
+{figure}{}[Short main caption of the objects]% main short lsi entry
{The main caption of a ''fullpage'' object, which follows on the left or
    right column. This can be an even or odd page. And some more text which has no
    real meaning because it fills only the space for a long caption.}% main caption
{sub:demo00}%
+{}{\includegraphics[height=0.28\textheight]{images/rose}}%
[Short caption B]%
{A Caption B of a ''fullpage'' sub object.}% subcaption
{}%
+{}{\includegraphics[height=0.28\textheight]{images/rose}}%
{A Caption C of a ''fullpage'' object, which follows on the left or right column.}%
{sub:demo10}
+{}{\includegraphics[height=0.28\textheight]{images/rose}}%
{A Caption D of a ''fullpage'' object}%
```

```
{sub:demo20}
```

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).

20 Subfloat page

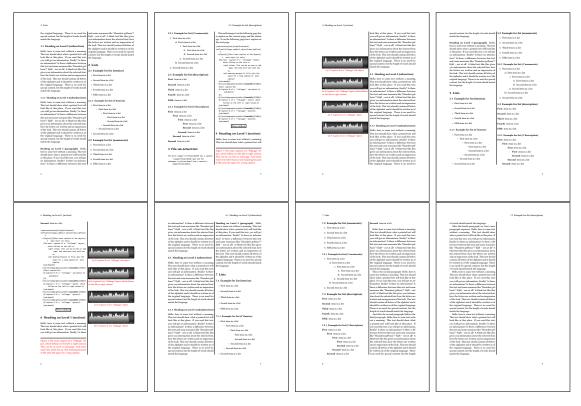


Figure 55: Output of sub-default2s2c (pages 2-9)

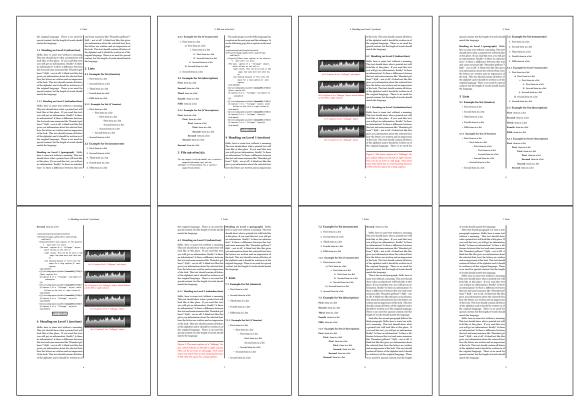


Figure 56: Output of sub-after2s2c (pages 2-9)

21 Doublepage objects - images and/or tabulars

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

- doublePage A splitted object with or without a caption on top of a double page, beginning in the left top text area. The user has to scale the image to be sure that the object will not be greater than 2\paperwidth-4\margin. The caption can be rotated on the right side of the right object part or under the right part.
- **doublePAGE** A splitted object with or without a caption on top of a double page, beginning at the left side of the paper area and top of the text area. The user has to scale the image to be sure that the object will not be greater than 2\paperwidth. The caption can only be under the right part of the object. The will be *no additional text* on the double page.
- **doubleFULLPAGE** A splitted object with or without a caption on the right or below of a double page. The object can fill the complete double page. The user has to scale the image to be sure that the object will not be greater than 2\paperwidth. A caption will be rotated and written *over* the object, or if possible, at the right. The user has to take care for a correct text color.

21.1 doubleFULLPAGE

The scaling of the image is leave to the user. If the proportion of the object doesn't fit 2*paperwidth/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.

\Blindtext

```
\hvFloat[doubleFULLPAGE,capPos=right,capAngle=90]%
{figure}%
{\includegraphics[angle=90,width=2\paperwidth]{images/r+j}}%
[Eine doppelseitige Abbildung mit Caption auf der Abbildung]%
{Eine Beschriftung einer doppelseitigen Abbildung, die ÜBER den rechten
Teil der Abbildung platziert wird. Die Abbildung beginnt am linken
Papierrand. Auf den Seiten wird kein weiterer Text
platziert. Für das LOF wird dabei eine Kurzform berücksichtigt. Parameter
ist \texttt{doubleFULLPAGE}}%
{fig:doubleFULLPAGE0}
```

\Blindtext

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"?

21 Doublepage objects - images and/or tabulars

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

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

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

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

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

Fig. 57

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

And after the second paragraph follows the third paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this

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

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.

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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21 Doublepage objects - images and/or tabulars

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\Blindtext

\hvFloat[doubleFULLPAGE,capPos=right]%

{figure}%
{\includegraphics[height=\paperheight]{images/rheinsberg}}%
{Eine Beschriftung einer doppelseitigen Abbildung, die ÜBER den rechten
Teil der Abbildung platziert wird. Die Abbildung beginnt am linken
Papierrand. Auf den Seiten wird kein weiterer Text
platziert. Für das LOF wird dabei eine Kurzform berücksichtigt. Parameter
ist \texttt{doubleFULLPAGE}}%
{fig:doubleFULLPAGE1}

\Blindtext \Blindtext

Fig. 58 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 58: Eine Beschriftung einer doppelseitigen Abbildung, die ÜBER den rechten Teil der Abbildung platziert wird. Die Abbildung beginnt am linken Papierrand. Auf den Seiten wird kein weiterer Text platziert. Für das LOF wird dabei eine Kurzform berücksichtigt. Parameter ist doubleFULLPAGE

21 Doublepage objects - images and/or tabulars

There is no need for special content, but the length of words should match the language.

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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.

\Blindtext

```
\hvFloat[doublePAGE]%
{figure}%
{\includegraphics[width=2\paperwidth]{images/seiser}}%
[Eine doppelseitige Abbildung mit Caption unterhalb der rechten Abbildung]%
{Eine Beschriftung einer doppelseitigen Abbildung, die unterhalb der rechten
Teils der Abbildung platziert wird. Die Abbildung beginnt am linken
Papierrand. Auf den Seiten wird kein weiterer Text
platziert. Für das LOF wird dabei eine Kurzform berücksichtigt. Parameter
ist \texttt{doublePAGE}}%
{fig:doublePAGE0}
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\Blindtext

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Fig. 59

21 Doublepage objects – images and/or tabulars



21.3 doublePage



Figure 59: Eine Beschriftung einer doppelseitigen Abbildung, die unterhalb der rechten Teils der Abbildung platziert wird. Die Abbildung beginnt am linken Papierrand. Auf den Seiten wird kein weiterer Text platziert. Für das LOF wird dabei eine Kurzform berücksichtigt. Parameter ist doublePAGE

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.

\Blindtext

```
\hvFloat[doublePage,capWidth=n,capPos=right]%
```

```
{figure}%
{\includegraphics[width=2\textwidth]{images/sonne-meer}}%
[Eine doppelseitige Abbildung mit rechtsseitiger Caption unterhalb]%
{Eine Beschriftung einer doppelseitigen Abbildung, die unterhalb des rechten
Teils der Abbildung platziert wird. Die Abbildung beginnt am linken
Textrand. Auf den Seiten wird ansonsten weiterer Text
platziert. Für das LOF wird dabei eine Kurzform berücksichtigt. Parameter
ist \texttt{doublePage}}%
{fig:doublePage0}
```

\Blindtext

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

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After this fourth paragraph, we start a new paragraph sequence. Hello, here is some text Fig. 60 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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21 Doublepage objects - images and/or tabulars



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21.4 Tabulars

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

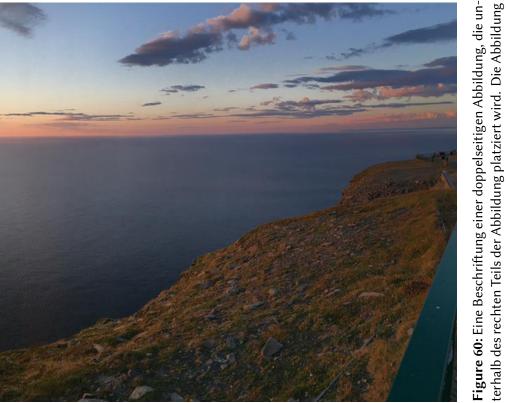


Figure 60: Eine Beschriftung einer doppelseitigen Abbildung, die unterhalb des rechten Teils der Abbildung platziert wird. Die Abbildung beginnt am linken Textrand. Auf den Seiten wird ansonsten weiterer Text platziert. Für das LOF wird dabei eine Kurzform berücksichtigt. Parameter ist doublePage

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

```
\global\savebox\hv0Box{%
\begin{tabular}{l*{18}r} \toprule
& \textbf{1972} & \textbf{1973} & \textbf{1974} & \textbf{1975} & \textbf{1976}
& \textbf{1977} & \textbf{1978} & \textbf{1979} & \textbf{1980} & \textbf{1981} & \textbf{1982} & \textbf
    {1983} & \textbf{1984} & \textbf{1985}
& \textbf{1986} & \textbf{1987} & \textbf{1988} & \textbf{1989}
\\\midrule
\addlinespace[3pt]
Zeile 2 & 1 & 1 & 3 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 1 & 3 & 4 & 4 & 6 & 4 & 2\\\addlinespace[3pt]
Zeile 3 & 2 & 1 & 2 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 5 & 3 & 1 & 7 & 7 & 3\\\addlinespace[3pt]
Zeile 4 & 1 & 0 & 5 & 1 & 2 & 0 & 0 & 0 & 0 & 0 & 2 & 1 & 0 & 1 & 0 & 3 & 7 & 2 & 1\\\addlinespace[3pt]
Zeile 6 & 2 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 2 & 0 & 5 & 2 & 2 & 5 & 4 & 2\\\addlinespace[3pt]
Zeile 5 & 0 & 0 & 4 & 2 & 1 & 2 & 2 & 1 & 0 & 0 & 0 & 0 & 1 & 1 & 0 & 2 & 5 & 4 & 3\\\addlinespace[3pt]
Zeile 8 & 0 & 1 & 1 & 0 & 0 & 0 & 0 & 1 & 1 & 0 & 3 & 2 & 1 & 2 & 1 & 3 & 5 & 3 & 4\\\addlinespace[3pt]
Zeile 9 & 0 & 0 & 0 & 0 & 0 & 1 & 2 & 1 & 0 & 0 & 0 & 0 & 0 & 4 & 2 & 1 & 4 & 5 & 2\\\addlinespace[3pt]
lärm
Zeilel3 & 0 & 1 & 0 & 0 & 1 & 0 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 0 & 1 & 3 & 0 & 2\\\addlinespace[3pt]
```

21 Doublepage objects - images and/or tabulars

\hvFloat[doublePage,capWidth=n,capPos=right]%
{table}%
{\usebox\hv0Box}%%%%%%%%%%%%%
[Eine doppelseitige Tabelle mit rechtsseitiger Caption unterhalb]%
{Eine Beschriftung einer doppelseitigen Tabelle, die unterhalb des rechten
Teils der Abbildung platziert wird. Die Tabelle beginnt am linken
Textrand. Auf den Seiten wird ansonsten weiterer Text
platziert. Für das LOT wird dabei eine Kurzform berücksichtigt. Parameter
ist \texttt{doublePage}}%
{tab:doublePage3}

\Blindtext

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Tab. 9

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

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

21 Doublepage objects - images and/or tabulars

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

Table 9: Eine Beschriftung einer doppelseitigen Tabelle, die unterhalbdes rechten Teils der Abbildung platziert wird. Die Tabelle beginnt amlinken Textrand. Auf den Seiten wird ansonsten weiterer Text platziert.Für das LOT wird dabei eine Kurzform berücksichtigt. Parameter istdoublePage

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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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 refere 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 62 is on page 80, but the image itself is on page 81. With package varioref it is:

Whith the package \Lpack{varioref} (\url{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}

Whith the package varioref (https://ctan.org/pkg/varioref) one can get something like: see figure 62 on page 81, which uses a correct page number of the floating object and not the caption pagenumber which is on page 80. The figure 62 is on page 81 and the caption on page 80

23 Defining a style

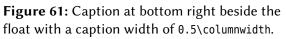
With \hvDefFloatStyle one can define a special style to get rid of the individual setting:

\hvDefFloatStyle{name}{setting}

For example:

\hvDefFloatStyle{RightCaption}{floatPos=htb, capWidth=0.5, capPos=after, capVPos=bottom, objectPos=center





\hvFloat[style=RightCaption]{figure}{\includegraphics{images/rose}}% {Caption vertically centered right beside the float with a caption width of \texttt{0.5\textbackslash columnwidth}.}{fig:style}

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.

24 Global float setting

Instead of writing the following sequence into the preamble:

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

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

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

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 62: 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



24 Global float setting

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85

```
%% $Id: hvfloat.sty 73 2021-05-03 07:38:13Z herbert $
1
2
    %%
    <u>%</u>%
3
    %% IMPORTANT NOTICE:
4
5
    20
   %% This is file 'hvfloat.sty',
6
    %%
7
   %% Herbert Voss <hvoss@tug.org>
8
9
   <u>%</u>%
   %% This program can be redistributed and/or modified under the terms
10
   %% of the LaTeX Project Public License Distributed from CTAN archives
11
   %% in directory macros/latex/base/lppl.txt.
12
   <u>%</u>%
13
   %% DESCRIPTION:
14
         'hvfloat' offers rotating of captions and objects for floats
   20
15
   200
16
17 \NeedsTeXFormat{LaTeX2e}
   \def\fileversion{2.21}
18
    \def\filedate{2021/05/04}
19
    \message{'hvfloat' v\fileversion, \filedate\space (Herbert Voss)}
20
    \ProvidesPackage{hvfloat}[\filedate\ rotating of floating objects]
21
22
    \let\hvFloatFileVersion\fileversion
23
    %
    \newif\ifhv@fbox \hv@fboxfalse
24
    \newif\ifhv@hyperref \hv@hyperreffalse
25
    \DeclareOption{fbox}{\hv@fboxtrue\setlength{\fboxsep}{1pt}}
26
    \DeclareOption{hyperref}{\hv@hyperreftrue}
27
28
    \ProcessOptions
29
30
   \PassOptionsToPackage{hypcap}{caption}
31
32 \RequirePackage{caption}
33 \PassOptionsToPackage{hypcap}{subcaption}
   \RequirePackage{subcaption}
34
35
   \RequirePackage{atbegshi,picture,trimclip}
36
    \RequirePackage{expl3,multido}
37
    \RequirePackage{graphicx}
38
39
    \RequirePackage{xkeyval}
40
    \RequirePackage{ifoddpage}
41
    \RequirePackage{afterpage}
42
    %\RequirePackage{zref-abspos}
43
44
45
   \ifhv@hyperref
     \RequirePackage{hyperref}
46
   % \RequirePackage{hypcap}
47
   \fi
48
49
50 %\unitlength=1cm
51 \providecommand*\LenToUnit[1]{\strip@pt\dimexpr#1*\p@/\unitlength}
```

52

- \newlength\hv0bjectWidth 53
- 54 \newlength\hvCapWidth
- 55 \newlength\hvWideWidth
- \newlength\hvMultiFloatSkip 56
- \newlength\hvMaxCapWidth 57
- %\newlength\hv@BottomSpace 58
- %\AtBeginDocument{% 59
- % \setlength\hv@BottomSpace{\dimexpr\paperheight-lin-\topmargin-\headheight-\headsep-\textheight}} 60
- 61 \newsavebox\hv0bjectBox 62
- \newsavebox\hvCaptionBox 63
- \newsavebox\hv0Box 64
- \newsavebox\@tempbox 65
- \newsavebox\hv@caption@box 66
- 67 \newsavebox\hv@leftBox
- 68 \newsavebox\hv@rightBox
- 69

```
\newif\ifhv@capbeside \hv@capbesidefalse
70
```

- 71
- **def**\hv@Top{top} 72
- **def**\hv@Bottom{bottom} 73
- **def**\hv@After{after} 74
- **def**\hv@Before{before} 75
- 76 **def**\hv@Right{right}
- 77 \def\hv@Left{left}
- 78 \def\hv@Center{center}
- **def**\hv@Outer{outer} 79
- **def**\hv@Inner{inner} 80
- **def**\hv@Even{evenPage} 81
- \def\hv@Odd{oddPage} 82
- $\mathbf{def} \in \mathbb{R}^{n}$ 83
- 84 **def**\hv@Width{w}
- 85 **def**\hv@Height{h}
- 86 **def**\hv@Zero{0}
- 87 %
- \def\hv@figure{figure} 88
- % 89
- \define@key{hvSet}{floatPos}[tbp]{% LaTeX's position parameters htbp 90
- **def**\hvSet@floatPos{#1}% 91
- } 92
- \define@key{hvSet}{rotAngle}[0]{% rotates caption AND image together 93
- **def**\hvSet@rotAngle{#1}% 94
- } 95 96
 - \define@key{hvSet}{capWidth}[n]{% (n)atural width|object (w)idth)|object (h)eight|<scale of \columnwidth</pre>
- > \def\hvSet@capWidth{#1}%
- 97
- 98 } \define@key{hvSet}{capAngle}[0]{% 99
- -360..+360
- \def\hvSet@capAngle{#1}% 100
- 101 }
- 102
- 103

```
\define@choicekey*+{hvSet}{capPos}[\val\nr]{bottom,top,left,before,right,after,inner,outer,even,odd}[bottom]{
104
          ÷
       \def\hvSet@capPos{#1}%
                                      it is relativ to the object, (e),(d) only valid for fullpage float
105
       \ifcase\nr\relax
106
107
        \hv@capbesidefalse
108
       \or
        \hv@capbesidefalse
109
       \else
110
        \hv@capbesidetrue
111
       \fi
112
     }{\PackageWarning{hvfloat}{erroneous input (#1) for capPos ignored. Using bottom.}%
113
       \def\hvSet@capPos{bottom}%
                                        it is relativ to the object, (e),(d) only valid for fullpage float
114
       \hv@capbesidefalse
115
      }
116
117
     \define@choicekey*+{hvSet}{capVPos}[\val\nr]{bottom,center,top}[center]{%
118
                                     it is relativ to the object
119
       \def\hvSet@capVPos{#1}%
     }{\PackageWarning{hvfloat}{erroneous input (#1) for capVPos ignored. Using bottom.}%
120
      \def\hvSet@capVPos{center}%
                                         it is relativ to the object
121
      }
122
123
    \define@choicekey*+{hvSet}{objectPos}[\val\nr]{left,center,right,inner,outer}[center]{%
124
       \def\hvSet@objectPos{#1}%
                                        it is relativ to the object
125
    }{\PackageWarning{hvfloat}{erroneous input (#1) for objectPos ignored. Using center.}%
126
       \def\hvSet@capVPos{center}%
                                       it is relativ to the object
127
128
      }
129
    \newif\ifhv@floatRefToObject
130
    \define@choicekey*+{hvSet}{floatRef}[\val\nr]{caption,object][% where the LOF entry should point to
131
      \ifcase\nr\relax
132
        \hv@floatRefToObjectfalse
133
       \else
134
135
        \hv@floatRefToObjecttrue
       \fi
136
137
     }{\PackageWarning{hvfloat}{erroneous input (#1) for floatRef ignored. Using option object.}%
138
         \hv@floatRefToObjecttrue
139
     }
140
     \define@key{hvSet}{objectAngle}[0]{%
                                                -360..+360
141
        \def\hvSet@objectAngle{#1}%
142
    }
143
    \define@key{hvSet}{floatCapSep}[5pt]{% a width with the unit pt
144
        \def\hvSet@floatCapSep{#1}%
145
    }
146
     \define@key{hvSet}{multiFloatSkip}[\normalbaselineskip]{% a width with the unit pt
147
148
        \setlength\hvMultiFloatSkip{#1}%
149
    }
    \define@boolkey{hvSet}[hv@]{useOBox}[true]{}%
                                                         use of the hvOBox contents
150
151
    \define@boolkey{hvSet}[hv@]{nonFloat}[true]{}%
                                                         Do not use float environment
    \define@boolkey{hvSet}[hv@]{onlyText}[true]{}%
152
                                                         Write the caption only as text
     \define@boolkey{hvSet}[hv@]{wide}[true]{}%
153
                                                     Write the caption only as text
154
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155
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<pre>97 \medifiifhwefHLPAGE 18 \medifiifhwefHLPAGE 19 \medifiifhwefHLPAGE 19 \medifiifhwefHLPAGE 10 \medifiifhwefHLPAGE 10 \define@key(hvSet}(fullpage)[true]{global\@nameuse(hv@fUllpAGE#]}% wegen iafterpage problem 10 \define@key(hvSet}(doubleFULPAGE][true]{global\@nameuse(hv@fULLPAGE#]} 10 \define@key(hvSet}(doubleFAGE][true]{global\@nameuse(hv@fULLPAGE#]}\hv@doublePAge#alse\ 10 \define@key(hvSet}(doubleFAGE][true]{global\@nameuse(hv@doublePAGE#]}\hv@doublePAge#alse\ 10 \define@key(hvSet}(doubleFAGE][true]{global\@nameuse(hv@doublePAGE#]}\hv@doublePAGE#alse\ 10 \define@key(hvSet}(doubleFAGE][true]{global\@nameuse(hv@doublePAGE#]}\hv@doublePAGE#alse\ 10 \define@boolkey(hvSet}[doubleFAGE][true]{global\@nameuse[hv@doublePAGE#]}\hv@doublePAGE#alse\ 10 \define@boolkey(hvSet}[hv@]{subFloat}[true]{% typeset values as subfloats 11 \define@boolkey(hvSet][hv@]{subFloat}[true]{% typeset values as continous floats 12 \define@boolkey(hvSet][hv@]{separatorLine}[true]{% separator line for caption of a full page float 13 \define@boolkey(hvSet][hv@]{separatorLine}[true]{% a frame around the object with no separation 14 \define@boolkey(hvSet][subFloat] 15 \define@boolkey(hvSet][separatorLine][true]{% a frame around the object with no separation 16 \define@boolkey(hvSet][separatorLine][true]{% a frame around the object with no separation 17 \define@boolkey(hvSet][separatorLine][true]]% 18 \define@boolkey(hvSet][separatorLine][true]]% 19 \define@key(hvSet][separatorLine][true]]% 19 \define@key(hvSet][separatorLine][true]]% 10 \define@key(hvSet][separatorLine][true]]% 10 \define@key(hvSet][separatorLine][true]]% 10 \define@key(hvSet][separatorLine]]% 10 \define@key(hvSet][separatorLine]]% 10 \define@key(hvSet][separatorLine]]% 10 \define@key(hvSet][separatorLine]]% 10 \define@key(hvSet][separatorLine]]% 10 \define@key(hvSet][separatorLine]]% 10 \define@key(hvSet][separatorLine]]% 10 \define@key(hvSet][separatorLine]]% 10 \define@key(hvSet][separatorLine]]% 10 \define@key(hvSet][separatorLine]]% 1</pre>	156	\ newif \ifhv@fullpage
<pre>is \newif\frw@doubleFULLPAGE ivewif\frw@doublePAGE ivewif\frw@doublePAGE ivewif\frw@doublePAGE ivewif\frw@doublePAGE[true](\global\@nameuse[hv@fulLPAGE#]) ivesifte@key(hvSet){fruLPAGE][true](\global\@nameuse[hv@fulLPAGE#]) ivesifte@key(hvSet)[fruLPAGE][true](\global\@nameuse[hv@doublePAGE#]) ivesifte@key(hvSet)[fruLPAGE][true](\global\@nameuse[hv@doublePAGE#]) ivesifte@key(hvSet)[fruLPAGE][true](\global\@nameuse[hv@doublePAGE#]) ivesifte@key(hvSet)[fruLPAGE][true](\global\@nameuse[hv@doublePAGE#]) ivesifte@key(hvSet)[fruLPAGE][true](\global\@nameuse[hv@doublePAGE#]) ivesifte@key(hvSet)[fruLPAGE][true](\global\@nameuse[hv@doublePAGE#]) ivesifte@key(hvSet)[fruE][ive][\global\@nameuse[hv@doublePAGE#]] ivesifte@key(hvSet][hv@][subfloat][true][\global\@nameuse[hv@doublePAGE#]] ivesifte@key(hvSet][hv@][subfloat][true][\global\@nameuse[hv@doublePAGE#]] ivesifte@key(hvSet][hv@][subfloat][true][\global\@nameuse[hv@doublePAGE#]] ivesifte@key(hvSet][hv@][subfloat][true][\global\@nameuse[hv@doublePAGE#]] ivesifte@key(hvSet][hv@][subfloat][true][\global\@nameuse[hv@doublePAGE#]] ivesifte@key(hvSet][hv@][subfloat][true][\global\@nameuse[hv@doublePAGE#]] ivesifte@key(hvSet][hv@][subfloat][true][\global\@nameuse[hv@doublePAGE#]] ivesifte@key(hvSet][hv@][subfloat][true][\global\@nameuse[hv@lloats as continous floats ivesifte@key(hvSet][hv@][subfloat=false] ivesifte@key(hvSet][hv@][subfloat=false]] ivesifte@key(hvSet][hv@][subfloat=false]] ivesifte@key(hvSet][hv@][subfloat=false]] ivesifte@key(hvSet][subcapformat][][\def\hv@caption@format[#]]\sl ivefIne@key(hvSet][subcapformat][[\def\hv@caption@format[#]]\sl ivefIne@key(hvSet][subcapformat][[\def\hv@caption@format[#]]\sl ivefIne@key(hvSet][subcapformat][[\def\hv@caption@format[#]]\sl ivefIne@key(hvSet][subcapformat][[\def\hv@caption@format[#]]\sl ivefIne@key(hvSet][subcapformat][[\def\hv@caption@format[#]]\sl ivefIne@key(hvSet][subcapformat][[\def\hv@caption@format[#]]\sl ivefIne@key(hvSet][subcapformat][[\def\hv@caption@format[#]]\sl ivefIne@key(hvSet][subcapformat][subcap</pre>		
<pre>99 NeedTifThv@doublePAGE 10 \needTifThv@doublePAGE 12 \define@key{hvSet}[fullpage]frue]{\global\@nameuse{hv@fullPAGE#]}% wegen \afterpage problem 13 \define@key{hvSet}[doubleAGE]frue]{\global\@nameuse{hv@fullPAGE#]} 14 \define@key{hvSet}[doubleAGE]frue]{\global\@nameuse{hv@doublePAGE#]}hv@doublePAGE#alse\ 14 hv@doublePAGEfalse} 15 \define@key{hvSet}[doubleAGE]frue]{\global\@nameuse{hv@doublePAGE#]}hv@doublePAGEfalse\ 15 hv@doubleFULLPAGEfalse} 16 \define@koolkey{hvSet}[doubleAGE]frue]{\global\@nameuse{hv@doublePAGE#1}hv@doublePAGEfalse\ 16 hv@doubleFULLPAGEfalse} 17 \define@koolkey{hvSet}[hv@][subFloat]frue]{% typeset values as subfloats 16 \iffine@koolkey{hvSet}[hv@][subFloat]frue]{% typeset values as continous floats 16 \iffine@koolkey{hvSet}[hv@][subFloat]frue]{% typeset values as continous floats 17 \iffine@koolkey{hvSet}[hv@][subFloat]frue]{% separator line for caption of a full page float 18 \define@koolkey{hvSet}[hv@][separatorLine][true]{% separator line for caption of a full page float 19 \define@koolkey{hvSet}[hv@][separatorLine][true]{% a frame around the object with no separation 10 \define@koolkey{hvSet}[hv@][separatorLine][true]{% a frame around the object with no separation 19 \define@kov[hvSet]{hv@][separatorLine][true]{% a frame around the object with no separation 19 \define@key{hvSet}[cutom style '#1' undefined]}% 14 \define@key{hvSet}[cutom style '#1' undefined]% 14 \define@key{hvSet}[cutom style '#1' undefined]% 14 \define@key{hvSet}[capformat][]\defhv@caption@format{#]]}% 14 \define@key{hvSet}[capformat][]\defhv@caption@format{#]]}% 14 \define@key{hvSet}[capformat][]\defhv@caption@format{#]]}% 14 \define@key{hvSet}[capformat][]\defhv@caption@format{#]]}% 14 \define@key{hvSet}[capformat][]\defhv@caption@format{#]]}% 14 \define@key{hvSet}[capformat][]\defhv@caption@format{#]]}% 14 \define@key{hvSet}[capformat][]\defhv@caption@format{#]]}% 14 \define@key{hvSet}[capformat][]\defhv@caption@format{#]]}% 14 \define@key{hvSet}[capformat][]\defhv@caption@format{#]]}% 14 \define@key{hvSet}[capf</pre>		-
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<pre>\define@key(hvSet}{fullpage]{true}{\global\@nameuse(hv@fullpage1}} wegen \afterpage problem \define@key(hvSet}FullpAGE]{true}{\global\@nameuse(hv@fullPAGE4]} \define@key(hvSet}FullpAGE]{true}{\global\@nameuse(hv@doublePAGE4]}\hv@doublePagefalse\ hv@doublePAGEfalse} \define@key(hvSet}{doublePage]{true}{\global\@nameuse{hv@doublePAGE4]}\hv@doublePagefalse\ hv@doubleFULLPAGEfalse} \define@key(hvSet}{doublePage]{true}{\global\@nameuse{hv@doublePagefals} hv@doubleFULLPAGEfalse} \define@key(hvSet}{doublePage]{true}{\global\@nameuse{hv@doublePagefals} hv@doubleFULLPAGEfalse} \define@key(hvSet}{hv@lsubFoat}{true}{\global\@nameuse{hv@doublePagefals} hv@doubleFULLPAGEfalse} \define@boolkey(hvSet}{hv@lsubFoat}{true}{\global\@nameuse{hv@doublePagefals} \define@boolkey(hvSet}{hv@lsubFoat}{true}{\global\@nameuse{hv@doublePagefals} \define@boolkey(hvSet}{hv@lsubFoat}{true}{\global\@nameuse{hv@doublePagefals} \define@boolkey(hvSet}{hv@lsubFoat}{true}{\global\@nameuse{hv@doublePagefals} \define@boolkey(hvSet}{hv@lsubFoat}{true}{\global\@nameuse{hv@doublePagefals} \define@boolkey(hvSet}{hv@lsubFoat}{true}{\global\@nameuse{hv@doublePagefals} \define@boolkey(hvSet}{hv@lsubFoat}{true}{\global\@nameuse{hv@doublePagefals} \define@boolkey(hvSet}{hv@lsubFoatfalse}{fals} \define@key(hvSet}{hv@lsubFoatfalse}{fals} \define@key(hvSet}{true}{\globaltefals} \define@key(hvSet}{capFormat}{{true}{\globaltefals}} \define@key(hvSet}{subcapFormat}{{true}{\globaltefals}} \define@key(hvSet}{subcapFormat}{{true}{\globaltefals}} \define@key(hvSet}{subcapFormat}{{true}{\globaltefals}} \define@key{hvSet}{subcapFormat}{{true}{\globaltefals}} \define@key{hvSet}{subcapFormat}{{true}{\globaltefals}} \define@key{hvSet}{subcapFormat}{{true}{\globaltefals}} \define@key{hvSet}{subcapFormat}{{true}{true}{{true}{true}{{true}{true}{{true}{true}{{true}{true}{{true}{true}{{true}{{true}{true}{{tru</pre>		
<pre>\define@key{hvSet}{FULLPAGE}[true]{\global\@nameuse{hv@FULLPAGE#1}\hv@doublePAGE#1}\hv@doublePAGE#1}\hv@doublePAGE#1}\hv@doublePAGE#1}\hv@doublePAGE#1}\hv@doublePAGE#1}\hv@doublePAGE#1}\hv@doublePAGE#1}\hv@doublePAGE#1}\hv@doublePAGE#1}\hv@doublePAGE#1}\hv@doublePAGE#1}\hv@doublePAGE#1se} \define@key{hvSet}{doublePAGE}[true]{\global\@nameuse{hv@doublePAGE#1}\hv@doublePAGEfalse\ hv@doubleFULLPAGEfalse} \define@key{hvSet}{doublePAGE}[true]{\global\@nameuse{hv@doublePAGE#1}\hv@doublePAGEfalse\ hv@doubleFULLPAGEfalse} \define@kow{hvSet}{hv@lsubFloat}[true]{\global\@nameuse{hv@doublePAGE#1}\hv@doublePAGEfalse\ hv@doubleFULLPAGEfalse} \define@kow{hvSet}{hv@lsubFloat}[true]{\global\@nameuse{hv@doublePAGE#1}\hv@doublePAGEfalse\ ifhv@subFloat\setkeys{hvSet}{multiFloat}[true]{\global\@nameuse{hv@doublePAGE#1}\hv@doublePAGEfalse\ ifhv@subFloat\setkeys{hvSet}{multiFloat}[true]{\global\@nameuse{hv@doublePAGE#1}\hv@doublePAGEfalse\ ifhv@subFloat\setkeys{hvSet}[subFloatfalse]}fi% } \define@boolkey{hvSet}[hv@lseparatorLine]{true]{\global\@nameuse{hv@multiPAGE#1} \define@boolkey(hvSet]hv@lseparatorLine]{true]{\global separator line for caption of a full page float \define@koolkey(hvSet]hv@lseparatorLine]{true]{\global a frame around the object with no separation \define@koolkey(hvSet]hv@lseparatorLine]{true]{\globalmeuse{hv@#1}}\x} use a defined style } \define@key{hvSet}{capFormat}[]{\def\hv@caption@format{#1}}\globalmeuse{hv@#1}}\x} \define@key{hvSet}{subcapFormat}][\\def\hv@caption@format{#1}}\globalmeuse{hv@#1}}\x} \define@key{hvSet}{subcapFormat}][\\def\hv@caption@format{#1}}\globalmeuse{hv@#1}}\x} \define@key{hvSet}{subcapFormat}][\\def\hv@caption@format{#1}}\globalmeuse{hv@#1}}\x} \define@key{hvSet}{subcapFormat}]{\vd@thv@caption@format{#1}}\globalmeuse{hv@#1} } \define@key{hvSet}{subcapFormat}]{\vd@thv@caption@format{#1}}\globalmeuse{hv@edinmat{#1}}\globalmeuse{hv@edinmat{#1}}\globalmeuse{hv@edinmat{#1}}\globalmeuse{hv@edinmat{#1}}\globalmeuse{hv@edinmat{#1}}\globalmeuse{hv@edinmat{#1}}hv@edinma</pre>		\define@kov(hvSet)[fulleses][true][\ elshal \@esmoure[hv@fulleses#1]]%v@esm_\sftereses_problem
<pre>14 \define@key{hvSet}{doubleFULLPAGE}[true]{\global\@nameuse{hv@doubleFULLPAGE#1}\hv@doublePagefalse\ hv@doubleFULLPAGEfalse} 14 \define@key{hvSet}{doubleFAGEfalse} 15 \define@key{hvSet}{doubleFAGEfalse} 15 \define@key{hvSet}{ubuleFAGEfalse} 15 \define@key{hvSet}{ubuleFAGEfalse} 15 \define@key{hvSet}{ubuleFAGEfalse} 16 \define@boolkey{hvSet}[hv@]{ubuleFAGEfalse} 17 \define@boolkey{hvSet}[hv@]{ubuleFAGEfalse}] 18 \define@boolkey{hvSet}[hv@]{ubuleFAGEfalse}] 19 \\ 10 \define@boolkey{hvSet}[hv@]{ubuleFAGEfalse}] 19 \define@boolkey{hvSet}[hv@]{ubuleFAGEfalse}] 19 \\ 10 \define@boolkey{hvSet}[hv@]{ubuleFAGEfalse}] 19 \define@key{hvSet}[custom style '#1' undefined]}% 10 \define@key{hvSet}{capFormat}][\def\hv@subcaption@format{#]}% 14 \define@key{hvSet}{custom style '#1' undefined]}% 14 \define@key{hvSet}{custom style '#1' undefined}?% 14 \define@key{hvSet}{ubuleFAGEfalse}] 15 \define@key{hvSet}{ubuleFAGEfalse}] 16 \define@key{hvSet}{ubuleFAGEfalse}] 17 \define@key{hvSet}{ubuleFAGEfalse}] 17 \define@key{hvSet}{ubuleFAGEfalse}] 17 \define@key{hvSet}{ubuleFAGEfalse}] 17 \define@key{hvSet}{ubuleFAGEfalse}] 18 \define@key{hvSet}{ubuleFAGEfalse}] 19 \define@key{hvSet}{ubuleFAGEfalse}] 19 \define@key{hvSet}{ubuleFAGEfalse}] 19 \define@key{hvSet}{ubuleFAGEfalse}] 19 \define@key{hvSet}{ubuleFAGEfalse}] 19 \define@key{hvSet}{ubuleFAGEfalse}] 19 \define@key{hvSet}{ubuleFAGEfalse}] 10 \define@key{hvSet}{ubuleFAGEfalse}] 10 \define@key{hvSet}{ubuleFAGEfalse}] 10 \define@key{hvSet}{ubuleFAGEfalse}] 10 \d</pre>		
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<pre>hv@doubleFULLPAGEfalse} hv@doubleFULLPAGEfalse} ////////////////////////////////////</pre>	164	
<pre>le6 \define@key{hvSet}{doublePage}[true]{\global\@nameuse{hv@doublePage#1}\hv@doublePAGEfalse\ hv@doubleFULLPAGEfalse} le7 lo7 lo7 lo7 lo7 lo7 lo7 lo7 lo7 lo7 lo</pre>	165	
<pre>146 \define@boolkey{hvSet}[hv@]{subFloat}]true]{% typeset values as subfloats 147 \define@boolkey{hvSet}[multiFloats]tfue]{% typeset values as continous floats 148 \define@boolkey{hvSet}[hv@]{multiFloat}[true]{% typeset values as continous floats 149 \define@boolkey{hvSet}[hv@]{multiFloat}[true]{% separator line for caption of a full page float 149 \define@boolkey{hvSet}[hv@]{separatorLine}[true]{% separator line for caption of a full page float 149 \define@boolkey{hvSet}[hv@]{separatorLine}[true]{% a frame around the object with no separation 140 \define@key{hvSet}[hv@]{separatorLine}[true]{% a frame around the object with no separation 141 \define@key{hvSet}[hv@]{separatorLine}[true]{% a frame around the object with no separation 142 \define@key{hvSet}[hv@]{separatorLine}[true]{% a frame around the object with no separation 143 \define@key{hvSet}[hv@]{% 144 145 \define@key{hvSet}[capFormat][[tdef\hv@caption@format{#1}]% 144 145 \define@key{hvSet}{capFormat}[]{\def\hv@subcaption@format{#1}]% 145 \define@key{hvSet}{subcapFormat}[]{\def\hv@subcaption@format{#1}]% 146 \define@key{hvSet}\subcapFormat}[]{\def\hv@subcaption@format{#1}]% 146 \define@key{hvSet}\subcapFormat}[]{\def\hv@subcaption@format{#1}]% 147 \define@key{hvSet}\subcapFormat}[]{\def\hv@subcaption@format{#1}]% 148 \define@key{hvSet}\subcapFormat}[]{\def\hv@subcaption@format{#1}]% 149 \define@key{hvSet}\subcapFormat}[]{\def\hv@subcaption@format{#1}]% 140 \define@key{hvSet}\subcapFormat}[]{\def\hv@subcaption@format{#1}]% 140 \define@keyfhvSet\subcapFormat}[]{\def\hv@subcaption@format{#1}]% 140 \define@keyfhvSet\subcapFormat}[]{\def\hv@subcaption@format{#1}}% 140 \define@keyfhvSet\subcapFormat}[]{\def\hv@subcaption@format{#1}}% 140 \define@keyfhvSet\subfloatsfloe% 140 \hv@set% 140 \define@fnv@subfloatsfloe% 140 \define@fnv@subfloatsfloe% 140 \define@keyfhvSet\subfloatsfloe% 140 \define@fnv@subfloatsfloe% 140 \define@fnv@subfloatsfloe% 140 \define@fnv@subfloatsfloe% 140 \define@fnv@subfloatsfloe% 140 \define@fnv@subfloatsfloe% 140 \define@fnv@subflo</pre>	166	\define@key{hvSet}{doublePage}[true]{\ global \@nameuse{hv@doublePage#1}\hv@doublePAGEfalse\
<pre>\ifhv@subFloat\setkeys{hvSet}{multiFloat=false}\fix }% define@boolkey{hvSet}[hv@]{multiFloat}{true]{% typeset values as continous floats \ifhv@multiFloat\setkeys{hvSet}{subFloat=false}\fix }% define@boolkey{hvSet}[hv@]{separatorLine}[true]{}% separator line for caption of a full page float \define@boolkey{hvSet}[hv@]{objectFrame}[true]{}% a frame around the object with no separation \define@key{hvSet}{style}{% \{\end{tine@toolkey{hvSet}[hv@]{bojectFrame}[true]}% a frame around the object with no separation \define@key{hvSet}{style}{% \{\end{tine@toolkey{hvSet}{style}{% \define@key{hvSet}{style}{% \define@key{hvSet}{style}{% \define@key{hvSet}{capFormat}[]{\def\hv@caption@format{#1}}% \define@key{hvSet}{capFormat}[]{\def\hv@caption@format{#1}}% \define@key{hvSet}{subcapFormat}[]{\def\hv@caption@format{#1}}% \define@key{hvSet}{subcapFormat}[]{\def\hv@caption@format{#1}}% \define@key{hvSet}{subcapFormat}[]{\def\hv@caption@format{#1}}% \deft\hvFloatSet\hv@set % \deft\hvFloatSet\hv@set % \newcommand{\setDefaults}{% intervommand{\setDefaults}{% in</pre>	167	
<pre>\ifhv@subFloat\setkeys{hvSet}{multiFloat=false}\fi% }% (define@boolkey{hvSet}{multiFloat\strue}{% typeset values as continous floats \ifhv@multiFloat\setkeys{hvSet}{subFloat=false}\fi% % (define@boolkey{hvSet}[hv@]{separatorLine}[true]{% separator line for caption of a full page float \define@boolkey{hvSet}[hv@]{bojectFrame}[true]{% a frame around the object with no separation \define@key{hvSet}[style]{% \define@key{hvSet}[style]{% \define@key{hvSet}[style]{% \define@key{hvSet}[style]{% \define@key{hvSet}[style]{% \define@key{hvSet}[style]{% \define@key{hvSet}[style]{% \define@key{hvSet}[style]{% \define@key{hvSet}[style]{% \define@key{hvSet}[capFormat][]\def\hv@caption@format{#1}]% \define@key{hvSet}[capFormat][]\def\hv@caption@format{#1}]% \define@key{hvSet}[subcapFormat][]\def\hv@caption@format{#1}]% \define@key{hvSet}[style]{% \define@key{hvSet}[style]{# \define@key{hv</pre>		\define@boolkey{hvSet}[hv@]{subFloat}[true]{%
<pre>1% 10 }% 11 (define@boolkey{hvSet}[hv@]{multiFloat}[true]{% typeset values as continous floats 12 \intro@multiFloat\setkeys{hvSet}[subFloat=false]\fi% 13 }% 14 (define@boolkey{hvSet}[hv@]{separatorLine}[true]{}% separator line for caption of a full page float 15 (define@boolkey{hvSet}[hv@]{separatorLine}[true]{}% a frame around the object with no separation 16 (define@key{hvSet}[syle]{% 17 {@jfundefine@thv@#]}% 18 {(tremessage{Custom style '#1' undefined}}% 19 {@defix{(endgroup\noexpand\setkeys{hvSet}{{@nameuse{hv@#1}}\x}% use a defined style 18 } 19 {define@key{hvSet}{capFormat}[]{\def\nv@caption@format{#1}}% 14 {define@key{hvSet}{subcapFormat}[]{\def\nv@cup\noexpand\setkeys{hvSet}{#1}}\% 18 {define@key{hvSet}{subcapFormat}[]{\def\nv@cup\noexpand\setkeys{hvSet}{#1}}\% 18 {define@key{hvSet}{usepFormat}[]{\def\nv@cup\noexpand\setkeys{hvSet}{#1}}\% 19 {let\nvFloatSet\nv@set 10 \newcommand{\setDefaults}{% 10 atPos=http, rotAngle=0, capWidth=n, capAngle=0, 10 capPos=bottom, capVPos=center, objectAngle=0, 10 capPos=bottom, capVPos=center, objectAngle=0, 10 capPos=bottom, capVPos=center, objectAngle=0, 10 untiFloat=false, duublePage=false, fulLPAGE=false, 10 oultFulLPAGE=false, duublePage=false, fulLPAGE=false, 10 oultFulLPAGE=false, duublePage=false, fulLPAGE=false, 10 oultFulLPAGE=false, duublePage=false, fulLPAGE=false, 10 untiFloat=false, subFloat=false, 10 separatorLine_objectFrame=false,multiFloatSkip=\normalbaseLineskip, 10 capFormat={}, subcapFormat={}, 10 tatRef=object, 10</pre>		
<pre>171 \define@boolkey{hvSet}[hv@]{multiFloat}[true]{% typeset values as continous floats 172 \ifty@multiFloat\setkeys{hvSet}[subFloat=false]\fi% 173 }% 174 \define@boolkey{hvSet}[hv@]{separatorLine}[true]{}% separator Line for caption of a full page float 175 \define@boolkey{hvSet}[hv@]{separatorLine}[true]{}% separator Line for caption of a full page float 176 \define@boolkey{hvSet}[hv@]{separatorLine}[true]{}% separator Line for caption of a full page float 177 \define@boolkey{hvSet}[hv@]{separatorLine}[true]{}% separator Line for caption of a full page float 178 \define@boolkey{hvSet}[hv@]{separatorLine}[true]{}% separator Line for caption of a full page float 179 \define@boolkey{hvSet}[style]{% 170 \define@boolkey{hvSet}[style]{% 170 \define@boolkey{hvSet}[style]{% 171 \define@boolkey{hvSet}[style]{% 172 \define@boolkey{hvSet}[style]{% 173 \define@boolkey{hvSet}[style]{% 174 \define@boolkey{hvSet}[style]{% 175 \define@boolkey{hvSet}[style]{% 176 \define@boolkey{hvSet}[style]{% 177 \define@key{hvSet}[style]{% 178 \define@boolkey{hvSet}[capFormat][]{\def\hv@caption@format{#1}]}% 188 \def\hv@set#1{\begingroup\cdef\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x} 184 \def\hv@st#1{\begingroup\cdef\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x 185 \def\defhvUset#1{\begingroup\cdef\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x} 186 \def\defhvUset#1{\undefine@key{hvSet}{#1}}\x 187 \def\nv@st#1{\undefine@key{hvSet}{#1}}\x 188 \def\def\nv@stPfloatStyle\defhvSet} 189 \let\hvDefFloatStyle\defhvSet}\& better name 190 \ 190 \nvexcommand{\setDefaults}{% 191 \newcommand{\setDefaults}{% 192 \newcommand{\setDefaults}{% 193 floatPos=http, rotAngle=0, capWidth=n, capAngle=0, 193 capPos=bottom, capVPos=center, objectPos=center, objectAngle=0, 194 capPos=bottom, capVPos=center, objectPase=false, 195 doubleFluatFalse, subeFloat=false, 196 separatorLine, objectFrame=false, doublePage=false, 197 doubleFluatFalse, subcloat=false, 198 separatorLine, objectFrame=false, doublePage=false, 199 separatorLine, objectFrame=false, nultiFloatSkip=\no</pre>		
<pre>\ifhv@multiPloat\setkeys{hvSet}{subPloat=false}\fi% /% /define@boolkey{hvSet}[hv@]{separatorLine}[true]{}% separator line for caption of a full page float /define@boolkey{hvSet}[hv@]{objectFrame}[true]{}% a frame around the object with no separation /define@key{hvSet}{style}{% /@ifundefined(hv@#1)% /@ifundefined(hv@#1)% /@ifundefined(hv@#1)% /@ifundefined(hv@#1)% //@ifundefined(hv@#1)% //@ifundefined(hv@#1)[\/def\hv@caption@format{#1}]% //@ifundefine@key{hvSet}{capFormat}[]{\def\hv@subcaption@format{#1}]% //@ifundefine@key{hvSet}{subcapFormat}[]{\def\hv@subcaption@format{#1}]% //@ifundefine@key{hvSet}{subcapFormat}[]{\def\hv@subcaption@format{#1}]% //@ifundefine@key{hvSet}{subcapFormat}[]{\def\hv@subcaption@format{#1}]% //@ifundefine@key{hvSet}{subcapFormat}[]{\def\hv@subcaption@format{#1}]% //@ifundefine@key{hvSet}{subcapFormat}[]{\def\hv@subcaption@format{#1}]% //@ifundefine@key{hvSet}{subcapFormat}[]{\def\hv@subcaption@format{#1}]% //@ifundefine@key{hvSet}{subcapFormat}[]{\def\hv@subcaption@format{#1}]% //@ifundefine@key{hvSet}{subcapFormat}[]{\def\hv@subcaption@format{#1}]% //@ifundefine@key{hvSet}{subcapFormat}[]{\def\hv@subcaption@format{#1}]% //@ifundefine@key{hvSet}{westent /////@ifundefine@key{hvSet}{#1}}/\% //@ifundefine@key{hvSet}@namedef[hv@#1}#2} ///w@set#{\def\hv@subcaption@format{#1}]% ////////////////////////////////////</pre>		
<pre>173 }% 174 \define@boolkey{hvSet}[hv@]{separatorLine}[true]{% separator line for caption of a full page float 175 \define@boolkey{hvSet}[hv@]{objectFrame}[true]{% a frame around the object with no separation 176 \define@key{hvSet}{style}{% 178 {\end{exey{hvSet}{style}} 179 {\define@key{hvSet}{style}{% 179 {\define@key{hvSet}{style}{% 179 {\define@key{hvSet}{style}'#1' undefined}}% 179 {\define@key{hvSet}{capFormat}[]{\def\hv@caption@format{#1}}% 180 \define@key{hvSet}{capFormat}[]{\def\hv@caption@format{#1}}% 182 \define@key{hvSet}{subcapFormat}[]{\def\hv@caption@format{#1}}% 184 \define@key{hvSet}{subcapFormat}[]{\def\hv@subcaption@format{#1}}% 194 \hv@set{% 195 hvDefFloatspie_do_ca</pre>		
<pre>174 \define@boolkey{hvSet}[hv@]{separatorLine}{true}}% separator line for caption of a full page float 175 \define@boolkey{hvSet}[hv@]{objectFrame}[true]{% a frame around the object with no separation 176 \define@key{hvSet}{style}{% 177 \@ifundefine@hv@#1}% 178 {\errmessage(Custom style '#1' undefined}}% 179 {\begingroup 180 \edefix.{\endgroup\noexpand\setkeys{hvSet}{\@nameuse{hv@#1}}\x}% use a defined style 181 } 182 \define@key{hvSet}{capFormat}[]{\def\hv@caption@format{#1}}% 183 \define@key{hvSet}{subcapFormat}[]{\def\hv@caption@format{#1}}% 184 \define@key{hvSet}{subcapFormat}[]{\def\hv@caption@format{#1}}% 185 \def\hv@set#1\begingroup\edef\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x 186 \def\hv@set#1\begingroup\edef\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x 187 \def\hv@set#1\begingroup\edef\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x 188 \def\hv@set#1\begingroup\edef\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x 189 \let\hvFloatSet\hv@set 187 % 190 \newcommand{\setDefaults}{% 191 \newcommand{\setDefaults}{% 192 \hv@set{% 193 floatPos=htbp, rotAngle=0, capWidth=n, capAngle=0, 194 capPos=bottom, capVPos=center, objectPos=center, objectAngle=0, 195 doubleFULPAGE=false, doublePAGE=false, 196 onlyText=false, wide=false, fulLpAGE=false, 197 doubleFULPAGE=false, doublePAGE=false, 198 multiFloat=false, subFloat=false, 199 separatorLine,objectFrame=false,multiFloatSkip=\normalbaselineskip, 200 capFormat={}, subcapFormat={}, 201 floatRef=object, 202 }% 204 204 204 204 204 204 204 204 204 204</pre>		
<pre>1r5 \define@boolkey{hvSet}[hv@]{objectFrame}[true]{% a frame around the object with no separation 1r6 \define@key{hvSet}{style}{% 1r7 \@fundefined{hv@#1% 1r8 {\errmessage{Custom style '#1' undefined}}% 1r8 \define@key{hvSet}{custom style '#1' undefined}}% 1r8 \define@key{hvSet}{capFormat}[]{\def\hv@caption@format{#1}}% 1r8 \define@key{hvSet}{capFormat}[]{\def\hv@subcaption@format{#1}}% 1r8 \define@key{hvSet}{subcapFormat}[]{\def\hv@subcaption@format{#1}}% 1r8 \def\hv%set#1{\begingroup\edef\x{\endgroup\noexpand\setkeys{hvSet}{#1}}x} 1r8 \def\hvFloatSet\hv@set 1r8 \def\defhvstyle#12{\@namedef{hv@#1}{#2}} 1r8 \def\defhvstyle#1#2{\@namedef{hv@#1}{#2}} 1r8 \def\defhvstyle#floatStyle\defhvstyle % better name 1r8 \def\defhvstyle#1#2{\@namedef{hv@#1}{#2}} 1r8 \hv@set#{ 1r8 \hv@set#{ 1r8 \hv@set#{ 1r8 \def\defhvstyle#floatStyle\defhvstyle % better name 1r8 \def\defhvstyle#1#2{\@namedef{hv@#1}{#2}} 1r8 \def\defhvstyle#1#2{\@namedef{hv@#1}{#2}} 1r8 \def\defhvstyle#floatStyle\defhvstyle % better name 1r8 \def\defhvstyle#1#2 1r8 \defhvstyle#1#2 1r8 \def\defhvstyle#1#2 1r8 \defhvstyle#1#2 1r8 \defhvstyle#1#2 1r8 \defhvstyle#1#2 1r8 \defhvstyle#1#2 1</pre>		
<pre>176 \define@key{hvSet}{style}{% 177 \@ifundefine@{hv@#1}% 178 {\errmessage{Custom style '#1' undefined}}% 179 {\begingroup 176 \defix{\endgroup\noexpand\setkeys{hvSet}{\@nameuse{hv@#1}}\x} use a defined style 179 {\defne@key{hvSet}{capFormat}[]{\def\hv@caption@format{#1}}% 180 \define@key{hvSet}{capFormat}[]{\def\hv@caption@format{#1}}% 181 \define@key{hvSet}{subcapFormat}[]{\def\hv@subcaption@format{#1}}% 182 \define@key{hvSet}{subcapFormat}[]{\def\hv@subcaption@format{#1}}% 183 \define@key{hvSet}{subcapFormat}[]{\def\hv@subcaption@format{#1}}% 184 \def\hv@set#1{\begingroup\def\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x} 184 \def\hv@set#1{\begingroup\def\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x} 185 \def\hv@set#1{\begingroup\def\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x} 186 \let\hvDefFloatStyle\defhvstyle % better name 190 % 190 \hv@set{% 191 \newcommand{\setDefaults}{% 192 \hv@set#% 193 floatPos=http, rotAngle=0, capWidth=n, capAngle=0, 194 \newcommand{\setDefaults}{% 194 untifloat=false, dublePage=false, fulLPAGE=false, 195 onlyText=false, wide=false, fulLpage=false, fulLPAGE=false, 196 untifloat=false, subFloat=false, 197 separatorLine,objectFrame=false,multiFloatSkip=\normalbaseLineskip, 208 capFormat={}, subcapFormat={}, 209 f% 204 204 204 204 204 204 204 204 204 204</pre>		
<pre>177 \@ifundefined{hv@#1}% 178 {\errmessage{Custom style '#1' undefined}}% 179 {\begingroup 180 \edeftx{\endgroup\noexpand\setkeys{hvSet}{\@nameuse{hv@#1}}}x}% use a defined style 181 } 182 \define@key{hvSet}{capFormat}[]{\def\hv@caption@format{#1}}% 183 \define@key{hvSet}{subcapFormat}[]{\def\hv@subcaption@format{#1}}% 184 \define@key{hvSet}{subcapFormat}[]{\def\hv@subcaption@format{#1}}% 185 \def\hv@set#1{\begingroup\edef\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x} 186 \let\hvFloatSet\hv@set 187 % 188 \def\defhvstyle#1#2{\@namedef{hv@#1}{#2}} 189 \let\hvDefFloatStyle\defhvstyle % better name 190 % 191 \newcommand{\setDefaults}{% 192 \hv@set{% 193 floatPos=htbp, rotAngle=0, capWidth=n, capAngle=0, 194 capPos=bottom, capVPos=center, objectPos=center, objectAngle=0, 195 floatCapSep=5pt, useBox=false, nonFloat=false, 196 onlyText=false, wide=false, fullpage=false, FULLPAGE=false, 197 separatorLine,objectFrame=false,multiFloatSkip=\normalbaseLineskip, 208 capFormat={}, subcapFormat={}, 209 }% 204 204 204 204 204 204 204 204 204 204</pre>		
<pre>178 {\ermessage{Custom style '#1' undefined}}% 179 {\begingroup 180 \edef\x{\endgroup\noexpand\setkeys{hvSet}{\@nameuse{hv@#1}}\x}% use a defined style 181 } 182 \define@key{hvSet}{capFormat}[]\\def\hv@caption@format{#1}}% 183 \define@key{hvSet}{subcapFormat}[]\\def\hv@subcaption@format{#1}}% 184 \edef\nv@set#1{\begingroup\edef\x{endgroup\noexpand\setkeys{hvSet}{#1}}\x 185 \def\hv@set#1{\begingroup\edef\x{endgroup\noexpand\setkeys{hvSet}{#1}}\x 186 \let\hvFloatSet\hv@set 187 % 188 \def\defhvstyle#1#2{\@namedef{hv@#1}{#2}} 189 \let\hvDefFloatStyle\defhvstyle % better name 190 % 191 \newcommand{\setDefaults}{% 192 \hv@set{% 193 floatPos=htbp, rotAngle=0, capWidth=n, capAngle=0, 194 capPos=bottom, capVPos=center, objectAngle=0, 195 floatCapSep=5pt, use0Box=false, nonFloat=false, 196 onlyText=false, wide=false, fulLPage=false, fulLPAGE=false, 197 doubleFULLPAGE=false, doublePage=false, doublePAGE=false, 198 multiFloat=false, subFloat=false, 199 separatorLine,objectFrame=false,multiFloatSkip=\normalbaselineskip, 200 capFormat={}, 201 set {% 203 } 204 204 204 204 204 204 204 204 204 204</pre>		
179{\begingroup180\edef\x{\endgroup\noexpand\setkeys{hvSet}{\@nameuse{hv@#1}}\x}use a defined style181}182\define@key{hvSet}{capFormat}[]{\def\hv@caption@format{#1}}%183\define@key{hvSet}{subcapFormat}[]{\def\hv@subcaption@format{#1}}%184\define@key{hvSet}{subcapFormat}[]{\def\hv@subcaption@format{#1}}%185\def\hv@set#1{\begingroup\edef\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x}186\let\hvFloatSet\hv@set187%188\def\defhvstyle#1#2{\@namedef{hv@#1}{#2}}189\let\hvDefFloatStyle\defhvstyle % better name190%191\newcommand{\setDefaults}{%192\hv@set{%193floatPos=htbp, rotAngle=0, capWidth=n, capAngle=0,194capPos=bottom, capVPos=center, objectAngle=0,195floatCapSep=5pt, use0Box=false, nonFloat=false,196onlyText=false, wide=false, fullpage=false, duulePAGE=false,197doubleFULLPAGE=false, doublePage=false, duulePAGE=false,198multiFloat=false, subFloat=false,199separatorLine, objectFrame=false,multiFloatSkip=\normalbaselineskip,201capFormat={}, subcapFormat={},202}%203}204		
<pre>1s0 \edef\x{\endgroup\noexpand\setkeys{hvSet}{\@nameuse{hv@#1}}}\x}% use a defined style 1s1 } 1s2 \define@key{hvSet}{capFormat}[]{\def\hv@caption@format{#1}}% 1s3 \define@key{hvSet}{subcapFormat}[]{\def\hv@subcaption@format{#1}}% 1s4 \def\hv@set#1{\begingroup\edef\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x} 1s4 \def\hv@set#1{\begingroup\edef\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x} 1s4 \def\hv@st#1{\begingroup\edef\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x} 1s5 \def\hv@st#1{\begingroup\edef\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x} 1s6 \let\hvFloatSet\hv@set 1s6 \def\hv@st#1{\begingroup\edef\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x} 1s6 \let\hvFloatSet\hv@set 1s6 \def\hv@style#1#2{\@namedef{hv@#1}{#2}} 1s9 \let\hvDefFloatStyle\defhvstyle % better name 1s9 % 1s1 \newcommand{\setDefaults}{% 1s2 \hv@set{% 1s3 floatPos=htp, rotAngle=0, capWidth=n, capAngle=0, 1s3 floatCapSep=5pt, useOBox=false, nonFloat=false, 1s4 onlyText=false, wide=false, fullpage=false, fulLPAGE=false, 1s5 doubleFULLPAGE=false, doublePage=false, fulLPAGE=false, 1s5 multiFloat=false, subFloat=false, 1s5 separatorLine,objectFrame=false,multiFloatSkip=\normalbaselineskip, 1s5 capFormat={}, subcapFormat={}, 1s5 floatRef=object, 1s5 floatRef=object, 1s5 } 1s6] 1s6] 1s</pre>		
<pre>181 } 182 \define@key{hvSet}{capFormat}[]{\def\hv@caption@format{#1}}% 183 \define@key{hvSet}{subcapFormat}[]{\def\hv@subcaption@format{#1}}% 184 185 \def\hv@set#1{\begingroup\edef\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x} 186 \let\hvFloatSet\hv@set 187 % 188 \def\defhvstyle#1#2{\@namedef{hv@#1}{#2}} 189 \let\hvDefFloatStyle\defhvstyle % better name 190 % 191 \newcommand{\setDefaults}{% 192 \hv@set{% 193 floatPos=htbp, rotAngle=0, capWidth=n, capAngle=0, 194 capPos=bottom, capVPos=center, objectPos=center, objectAngle=0, 195 floatCapSep=5pt, useOBox=false, nonFloat=false, 196 onlyText=false, wide=false, fullpage=false, fulLPAGE=false, 197 doubleFULLPAGE=false, doublePage=false, foublePAGE=false, 198 multiFloat=false, subFloat=false, 199 separatorLine,objectFrame=false,multiFloatSkip=\normalbaselineskip, 200 capFormat={}, subcapFormat={}, 201 floatRef=object, 202 }% 203 } 204</pre>		
<pre>1122 \define@key{hvSet}{capFormat}[]{\def\hv@caption@format{#1}}% 1133 \define@key{hvSet}{subcapFormat}[]{\def\hv@subcaption@format{#1}}% 1136 \def\hv@set#1{\begingroup\edef\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x} 1136 \let\hvFloatSet\hv@set 127 % 128 \def\defhvstyle#1#2{\@namedef{hv@#1}{#2}} 139 \let\hvDefFloatStyle\defhvstyle % better name 140 % 140 \hvDefFloatStyle\defhvstyle % better name 140 % 140 \hvDefFloatStyle\defhvstyle % better name 141 \def\deftaults}{% 141 \hvDefFloatStyle\defnvstyle % better name 142 \hvDefFloatStyle\defnvstyle % better name 143 % 140 \deftaults}{% 141 \hvDefFloatStyle\defnvstyle % better name 144 \deftaults}{% 141 \deftaults}{% 142 \deftaults}{% 144 \deftaults}{% 144 \deftaults}{% 145 \deftaults}{% 145 \deftaults}{% 145 \deftaults}{% 146 \deftaults}{% 146 \deftaults}{% 147 \deftaults}{% 147 \deftaults}{% 148 \deftaults}{% 149 \deftaults}{% 149 \deftaults}{% 140 \deftaults}{%} 140 \deftaults}{% 140 \deftaults}{% 140 \deftaults}{%} 140 \deftaults}{%} 140 \deftaults}{%} 140 \deftaults}{%} 140 \deftaults}{%} 140 \deftaults}{%} 140 \deftaults}{% 140 \deftaults}{%} 140 \deftaults}{% 140 \deftaults}{%} 140 \deftaults}{%} 140 \deftaults}{% 140 \deftaults}{%} 140 \deftaults}{%} 140 \deftaults</pre>		
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<pre>184 185 \def\hv@set#1{\begingroup\edef\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x} 186 \let\hvFloatSet\hv@set 187 % 188 \def\defhvstyle#1#2{\@namedef{hv@#1}{#2}} 189 \let\hvDefFloatStyle\defhvstyle % better name 190 % 191 \newcommand{\setDefaults}{% 192 \hv@set{% 193 floatPos=htbp, rotAngle=0, capWidth=n, capAngle=0, 194 capPos=bottom, capVPos=center, objectPos=center, objectAngle=0, 195 floatCapSep=5pt, useOBox=false, nonFloat=false, 196 onlyText=false, wide=false, fullpage=false, fulLPAGE=false, 197 doubleFULLPAGE=false, doublePage=false, doublePAGE=false, 198 multiFloat=false, subFloat=false, 199 separatorLine,objectFrame=false,multiFloatSkip=\normalbaseLineskip, 200 capFormat={}, subcapFormat={}, 201 floatRef=object, 202 }% 203 } 204 </pre>	182	
<pre>\\def\hv@set#1{\begingroup\edef\x{\endgroup\noexpand\setkeys{hvSet}{#1}}\x} \\def\def\vfloatSet\hv@st \\def\defhvstyle#1#2{\@namedef{hv@#1}{#2}} \\def\defhvstyle#1#2{\@namedef{hv@#1}{#2}} \\def\defhvtyle#1#2{\@namedef{hv@#1}{#2}} \\def\defhvtyle#1#2{\@namedef{hv@#1}{#2}} \\def\defnvtyle#1#2{\@namedef{hv@#1}{#2}} \\def\defnvtyle#1#2\\defnvtyl</pre>	183	\define@key{hvSet}{subcapFormat}[]{\ def \hv@subcaption@format{#1}}%
<pre>186 \let\hvFloatSet\hv@set 187 % 188 \def\defhvstyle#1#2{\@namedef{hv@#1}{#2}} 189 \let\hvDefFloatStyle\defhvstyle % better name 190 % 191 \newcommand{\setDefaults}{% 192 \hv@set{% 193 floatPos=htbp, rotAngle=0, capWidth=n, capAngle=0, 194 capPos=bottom, capVPos=center, objectPos=center, objectAngle=0, 195 floatCapSep=5pt, useOBox=false, nonFloat=false, 196 onlyText=false, wide=false, fullpage=false, FULLPAGE=false, 197 doubleFULLPAGE=false, doublePage=false, doublePAGE=false, 198 multiFloat=false,subFloat=false, 199 separatorLine,objectFrame=false,multiFloatSkip=\normalbaselineskip, 200 capFormat={}, subcapFormat={}, 201 floatRef=object, 202 }% 204</pre>	184	
<pre>187 % 188 \def\defhvstyle#1#2{\@namedef{hv@#1}{#2}} 189 \let\hvDefFloatStyle\defhvstyle % better name 190 % 191 \newcommand{\setDefaults}{% 192 \hv@set{% 193 floatPos=htbp, rotAngle=0, capWidth=n, capAngle=0, 194 capPos=bottom, capVPos=center, objectPos=center, objectAngle=0, 195 floatCapSep=5pt, use0Box=false, nonFloat=false, 196 onlyText=false, wide=false, fullpage=false, fULLPAGE=false, 197 doubleFULLPAGE=false, doublePage=false, doublePAGE=false, 198 multiFloat=false,subFloat=false, 199 separatorLine,objectFrame=false,multiFloatSkip=\normalbaselineskip, 200 capFormat={}, subcapFormat={}, 201 floatRef=object, 202 }% 203</pre>	185	\ def \hv@set#1{\ begingroup\edef \x{\ endgroup\noexpand \setkeys{hvSet}{#1}}\x}
<pre>Vdef\defhvstyle#l#2{\@namedef{hv@#1}{#2}} Vlet\hvDefFloatStyle\defhvstyle % better name Vet\hvDefFloatStyle\defhvstyle % better name Vet\hvDefFloatStyle % be</pre>	186	\ let \hvFloatSet\hv@set
<pre>\let\hvDefFloatStyle\defhvstyle % better name % /newcommand{\setDefaults}{% /newc</pre>	187	8
<pre>190 % 191 \newcommand{\setDefaults}{% 192 \hv@set{% 193 floatPos=htbp, rotAngle=0, capWidth=n, capAngle=0, 194 capPos=bottom, capVPos=center, objectPos=center, objectAngle=0, 195 floatCapSep=5pt, useOBox=false, nonFloat=false, 196 onlyText=false, wide=false, fullpage=false, FULLPAGE=false, 197 doubleFULLPAGE=false, doublePage=false, doublePAGE=false, 198 multiFloat=false, subFloat=false, 199 separatorLine,objectFrame=false,multiFloatSkip=\normalbaselineskip, 200 capFormat={}, subcapFormat={}, 201 floatRef=object, 202 }% 204</pre>	188	\ def \defhvstyle#1#2{\@namedef{hv@#1}{#2}}
<pre>191 \newcommand{\setDefaults}{% 192 \hv@set{% 193 floatPos=htbp, rotAngle=0, capWidth=n, capAngle=0, 194 capPos=bottom, capVPos=center, objectPos=center, objectAngle=0, 195 floatCapSep=5pt, useOBox=false, nonFloat=false, 196 onlyText=false, wide=false, fullpage=false, FULLPAGE=false, 197 doubleFULLPAGE=false, doublePage=false, doublePAGE=false, 198 multiFloat=false, subFloat=false, 199 separatorLine,objectFrame=false,multiFloatSkip=\normalbaselineskip, 200 capFormat={}, subcapFormat={}, 201 floatRef=object, 202 }% 204</pre>	189	\ let \hvDefFloatStyle\defhvstyle % <i>better name</i>
<pre>192 \hv@set{% 193 floatPos=htbp, rotAngle=0, capWidth=n, capAngle=0, 194 capPos=bottom, capVPos=center, objectPos=center, objectAngle=0, 195 floatCapSep=5pt, useOBox=false, nonFloat=false, 196 onlyText=false, wide=false, fullpage=false, FULLPAGE=false, 197 doubleFULLPAGE=false, doublePage=false, doublePAGE=false, 198 multiFloat=false, subFloat=false, 199 separatorLine,objectFrame=false,multiFloatSkip=\normalbaselineskip, 200 capFormat={}, subcapFormat={}, 211 floatRef=object, 222 }% 203 }</pre>	190	8
<pre>193 floatPos=htbp, rotAngle=0, capWidth=n, capAngle=0, 194 capPos=bottom, capVPos=center, objectPos=center, objectAngle=0, 195 floatCapSep=5pt, useOBox=false, nonFloat=false, 196 onlyText=false, wide=false, fullpage=false, FULLPAGE=false, 197 doubleFULLPAGE=false, doublePage=false, doublePAGE=false, 198 multiFloat=false, subFloat=false, 199 separatorLine,objectFrame=false,multiFloatSkip=\normalbaselineskip, 200 capFormat={}, subcapFormat={}, 201 floatRef=object, 202 }% 203 }</pre>	191	\newcommand{\setDefaults}{%
<pre>194 capPos=bottom, capVPos=center, objectPos=center, objectAngle=0, 195 floatCapSep=5pt, useOBox=false, nonFloat=false, 196 onlyText=false, wide=false, fullpage=false, FULLPAGE=false, 197 doubleFULLPAGE=false, doublePage=false, doublePAGE=false, 198 multiFloat=false, subFloat=false, 199 separatorLine,objectFrame=false,multiFloatSkip=\normalbaselineskip, 200 capFormat={}, subcapFormat={}, 201 floatRef=object, 202 }% 204</pre>	192	\hv@set{%
<pre>195 floatCapSep=5pt, use0Box=false, nonFloat=false, 196 onlyText=false, wide=false, fullpage=false, FULLPAGE=false, 197 doubleFULLPAGE=false, doublePage=false, doublePAGE=false, 198 multiFloat=false,subFloat=false, 199 separatorLine,objectFrame=false,multiFloatSkip=\normalbaselineskip, 200 capFormat={}, subcapFormat={}, 201 floatRef=object, 202 }% 203 }</pre>	193	floatPos=htbp, rotAngle=0, capWidth=n, capAngle=0,
<pre>195 floatCapSep=5pt, use0Box=false, nonFloat=false, 196 onlyText=false, wide=false, fullpage=false, FULLPAGE=false, 197 doubleFULLPAGE=false, doublePage=false, doublePAGE=false, 198 multiFloat=false,subFloat=false, 199 separatorLine,objectFrame=false,multiFloatSkip=\normalbaselineskip, 200 capFormat={}, subcapFormat={}, 201 floatRef=object, 202 }% 203 }</pre>	194	capPos=bottom, capVPos=center, objectPos=center, objectAngle=0,
<pre>197 doubleFULLPAGE=false, doublePage=false, doublePAGE=false, 198 multiFloat=false,subFloat=false, 199 separatorLine,objectFrame=false,multiFloatSkip=\normalbaselineskip, 200 capFormat={}, subcapFormat={}, 201 floatRef=object, 202 }% 203 }</pre>	195	floatCapSep=5pt, useOBox=false, nonFloat=false,
<pre>198 multiFloat=false,subFloat=false, 199 separatorLine,objectFrame=false,multiFloatSkip=\normalbaselineskip, 200 capFormat={}, subcapFormat={}, 201 floatRef=object, 202 }% 203 } 204</pre>	196	onlyText=false, wide=false, fullpage=false, FULLPAGE=false,
<pre>separatorLine,objectFrame=false,multiFloatSkip=\normalbaselineskip, capFormat={}, subcapFormat={}, floatRef=object, } 30 } 200 } 201 202 }</pre>	197	doubleFULLPAGE=false, doublePage=false, doublePAGE=false,
<pre>separatorLine,objectFrame=false,multiFloatSkip=\normalbaselineskip, capFormat={}, subcapFormat={}, floatRef=object, } 30 } 200 } 201 202 }</pre>		
<pre>200 capFormat={}, subcapFormat={}, 201 floatRef=object, 202 }% 203 } 204</pre>		
201 floatRef=object, 202 }% 203 } 204		
202 }% 203 } 204		
203 } 204		-
204		
	204	\ let \hvFloatSetDefaults\setDefaults

```
206
     \newcommand\reset@special@float{%
207
       \hv@set{subFloat=false,%fullpage=false,
208
               multiFloat=false,%FULLPAGE=false
209
210
     }}
211
     \def\hv@vskip{\vspace{\hvMultiFloatSkip}}
212
213
214
     %
     \newlength\hvAboveCaptionSkip
215
     \newlength\hvBelowCaptionSkip
216
     \newcount\hv@@capPos
217
218
     \newlength\fboxlinewidth
219
220
     \AtBeginDocument{%
       \setlength\fboxlinewidth{\dimexpr\linewidth-2\fboxrule-2\fboxsep}%
221
    }
222
     \setlength\belowcaptionskip{\abovecaptionskip}% it is in latex.ltx = 0pt
223
     \newcommand\saveCaptionSkip{%
224
        \setlength{\hvAboveCaptionSkip}{\abovecaptionskip}%
225
226
        \setlength{\hvBelowCaptionSkip}{\belowcaptionskip}%
227
        \setlength{\abovecaptionskip}{0pt}%
        \setlength{\belowcaptionskip}{0pt}%
228
    }
229
230
     \newcommand{\restoreCaptionSkip}{%
231
       \setlength\abovecaptionskip{\hvAboveCaptionSkip}%
       \setlength\belowcaptionskip{\hvBelowCaptionSkip}%
232
233
     }
     %
234
     \newcommand\figcaption[2][]{\def\@captype{figure}%
235
       \beaingroup
236
       \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
237
238
       \ifx\relax#1\relax \caption{#2}\else\caption[#1]{#2}\fi
       \endgroup}
239
240
     \newcommand\tabcaption[2][]{\def\@captype{table}%
241
       \begingroup
       \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
242
       \ifx\relax#1\relax \caption{#2}\else\caption[#1]{#2}\fi
243
       \endgroup}
244
     %
245
     \newlength\hv@maxImageWidth
246
     \AtBeginDocument{\hv@maxImageWidth=\columnwidth}
247
248
     \define@key{Gin}{fullpage}[true]{%
249
       \def\Gin@ewidth{\columnwidth}%
250
251
       \def\Gin@eheight{\textheight}%
252
       \Gin@boolkey{false}{iso}%
253
    }
     \define@key{Gin}{FullPage}[true]{%
254
       \def\Gin@ewidth{\textwidth}%
255
       \def\Gin@eheight{\textheight}%
256
       \Gin@boolkey{false}{iso}%
257
```

```
258 }
```

```
\define@key{Gin}{FULLPAGE}[true]{%
259
       \def\Gin@ewidth{\paperwidth}%
260
       \def\Gin@eheight{\paperheight}%
261
262
       \Gin@boolkey{false}{iso}%
263
    }
     \newcommand\IncludeGraphics[2][]{%
264
       \vspace*{\the\dimexpr-lin-\voffset+\topskip-\headheight-0.5\baselineskip}%
265
       \leavevmode\checkoddpage
266
       \ifoddpage
267
         \hspace*{\dimexpr-\oddsidemargin-\parindent-lin}%
268
       \else
269
         \hspace*{\dimexpr-\evensidemargin-\parindent-lin}%
270
271
       \fi\noindent
       \includegraphics[#1,width=\paperwidth,height=\paperheight,keepaspectratio=false]{#2}%
272
273
     }
274
     \newcommand\put@CaptionBox[1][0]{%
275
       \ifcase#1
276
         \ifhv@fbox
277
           \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
278
         \else
279
           \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
280
         \fi
281
       \or
282
283
         \ifhv@fbox
284
           \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
285
         \else
           \raisebox{-\height}{\usebox{\hvCaptionBox}}%
286
         ∖fi
287
       \or
288
         \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}\else\usebox{\hvCaptionBox}\fi
289
       \fi
290
    }
291
292
293
     \newcommand\put@ObjectBox[1][0]{%
294
       \ifcase#1
         \ifhv@fbox
295
           \fbox{\parbox{\wd\hv0bjectBox}{\usebox{\hv0bjectBox}}}%
296
297
         \else
           \parbox{\wd\hv0bjectBox}{\ifhv@objectFrame\frame{\usebox{\hv0bjectBox}}\else\usebox{\hv0bjectBox}\fi}%
298
         \fi
299
       \or
300
         \ifhv@fbox
301
           \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
302
         \else
303
304
           \raisebox{-\height}{\ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\fi}%
305
         ∖fi
306
       \or
         \ifhv@fbox
307
           \fbox{\usebox{\hvObjectBox}}%
308
309
         \else
           \ifhv@objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi%
310
         \fi
311
```

```
25 The Package Source
```

```
∖fi
312
    }
313
314
    \newif\ifhv@star
315
    \newif\if@hvsubstar
316
    \setDefaults
317
318
    \def\hvFloat{\@ifnextchar*%
                                      Main macro
319
       {\global\hv@startrue\hv@maxImageWidth=\textwidth\hvFloat@i}%
320
       {\global\hv@starfalse\hv@maxImageWidth=\columnwidth\hvFloat@i*}%
321
    }
322
323
    %\newcommand*{\hvFloat}[5][]+{%
324
     % [#1}: keyvalues
325
326
    % #2: type figure | table | ...
    % #3: float contents
327
    % [#4]: short caption
328
    % #5: caption
329
    % #6: label
330
    %
331
     \def\hvFloat@i*{\@ifnextchar[{\do@hvFloat}{\do@hvFloat[]}}
332
     \def\do@hvFloat[#1]{%
333
       \begingroup
334
       \setlength\hvWideWidth{\dimexpr\textwidth+\marginparwidth+\marginparsep}%
335
    % \setlength\hvWideWidth{\dimexpr\linewidth+\marginparwidth}%
336
337
       \hv@maxImageWidth=\textwidth
       \reset@special@float
338
       \setcounter{hv@pfigure}{\value{figure}}%
339
       \setcounter{hv@ptable}{\value{table}}%
340
       \gdef\hv@save@setting{#1}%
341
       \ifx\relax#1\relax\else\setkeys{hvSet}{#1}\fi
342
       \gdef\hv@floatType{figure}%
343
344
       \@ifnextchar+{\do@multiFloat}{\hvFloat@ii[#1]}%
345
    }
346
347
    \ExplSyntaxOn
348
     \def\do@multiFloat+#1#2{%
349
       \clist_set:Nn\l_clist_Type{{#1}}%
350
       \clist_set:Nn\l_clist_Object{{#2}}%
351
       \@ifnextchar[\do@multiFloat@i{\do@multiFloat@i[]}%
352
    }
353
     \def\do@multiFloat@i[#1]#2#3{% lof-caption, caption, label
354
       \ifx\relax#1\relax
355
         \clist_set:Nn\l_clist_LofCaption{{}}%
356
357
       \else
358
         \clist_set:Nn\l_clist_LofCaption{{#1}}%
359
       \fi
       \clist_set:Nn\l_clist_Caption{{#2}}%
360
       \ifx\relax#3\relax
361
         \clist_set:Nn\l_clist_Label{{}%
362
       \else
363
         \clist_set:Nn\l_clist_Label{{#3}}%
```

364

```
\fi
365
       \@ifnextchar+{\do@multiFloat@ii}{}%
366
    }
367
     \def\do@multiFloat@ii+#1#2{%
368
       \clist_put_right:Nn\l_clist_Type{{#1}}%
369
       \clist_put_right:Nn\l_clist_Object{{#2}}%
370
       \@ifnextchar[\do@multiFloat@iii{\do@multiFloat@iii[]}%
371
    }
372
373
     \def\do@multiFloat@iii[#1]#2#3{% lof-caption, caption, label
374
       \ifx\relax#1\relax
375
         \clist_put_right:Nn\l_clist_LofCaption{{}}%
376
       \else
377
         \clist_put_right:Nn\l_clist_LofCaption{{#1}}%
378
       \fi
379
       \clist_put_right:Nn\l_clist_Caption{{#2}}%
380
       \ifx\relax#3\relax
381
         \clist_put_right:Nn\l_clist_Label{{}%
382
       \else
383
         \clist_put_right:Nn\l_clist_Label{{#3}}%
384
       \fi
385
       \@ifnextchar+\do@multiFloat@ii%
386
         {\def\hvSet@CapWidth{n}%
387
          \do@@@dhvFloat}%
388
389
     }
     \ExplSyntaxOff
390
391
392
     \newcounter{hv@pfigure}
393
     \newcounter{hv@ptable}
394
     \newcounter{subhv@pfigure}
395
     \newcounter{subhv@ptable}
396
397
     \def\drawSepLine{%
398
399
       \par\noindent
       \if@twocolumn\rule{\columnwidth}{0.4pt}\else\rule{\linewidth}{0.4pt}\fi
400
401
       \vspace{0pt}%
     }
402
403
     \newcount\hv@cnta
404
     \newcount\hv@cntb
405
406
     \def\hvFloat@ii[#1]#2{%
                                  #1: key/value, #2: floattype
407
       \@ifnextchar[{\hvFloat@iii[#1]{#2}}{\hvFloat@iii[#1]{#2}[]}%
408
     }
409
410
411
     \def\hvFloat@iii[#1]#2[#3]#4{%
                                          #1: key/value, #2: floattype, #3: ListOfExt, #4: object
412
       \hv@maxImageWidth=\textwidth
       \ifx\relax#1\relax\else\setkeys{hvSet}{#1}\fi
413
       \gdef\hv@floatType{#2}%
414
       \ifx\relax#3\relax
415
         \ifx\hv@floatType\hv@figure
416
           \gdef\hv@floatListOfExt{lof}%
417
```

```
\else
418
                           \gdef\hv@floatListOfExt{lot}%
419
420
                      ∖fi
421
                 \else
                      \gdef\hv@floatListOfExt{#3}%
422
                 \fi
423
                 \ifx\relax#2\relax \setkeys{hvSet}{nonFloat=true}\fi
424
                 \gdef\hv@float0bject{#4}%
425
                 \@ifnextchar[{\do@hvFloat}{\do@hvFloat[]}%
426
427
           }
428
            \def\do@dhvFloat[#1]#2#3{%
429
                 \gdef\hv@shortCap{#1}%
430
                 \gdef\hv@longCap{#2}%
431
432
                 \gdef\hv@label{#3}%
                 \label{linear} \lab
433
434
                 \ifhv@fullpage
                      \def\hvSet@CapWidth{n}% relative value
435
                      \do@@@dvFloat% fullpage with caption on other page
436
                 \else
437
                      \ifhv@FULLPAGE
438
                           \def\hvSet@CapWidth{n}% relative value
439
                           \do@@@hvFloat% fullpage with caption on other page
440
                      \else
441
                           \ifhv@doubleFULLPAGE
442
                                \setlength\hvCapWidth{\textheight}%
443
                                \expandafter\do@hvFloat@doubleFULLPAGE\@@temp% fullpage with caption rotated or under on an odd page
444
                           \else
445
                                \ifhv@doublePAGE
446
                                     \expandafter\do@hvFloat@doublePAGE\@@temp% fullpage with caption rotated or under on an odd page
447
                                \else
448
                                     \ifhv@doublePage
449
                                          \expandafter\do@hvFloat@doublePage\@@temp% fullpage with caption rotated or under on an odd page
450
451
                                     \else
452
                                          \do@@@hvFloat
453
                                     ∖fi
                                \fi
454
                           \fi
455
                     \fi
456
                 \fi
457
                 \global\hv@capbesidefalse
           %
458
           }
459
           %
460
            \def\do@@hvFloat{% no special float page
461
                 \ensuremath{\mathsf{def}}\ensuremath{\mathsf{0}}\
462
463
                 \ifx\hvSet@rotAngle\@tempa
464
                      \setlength\hvMaxCapWidth{\textheight}%
465
                 \else
                      \setlength\hvMaxCapWidth{\hvWideWidth}%
466
467
                 \fi
468
           %
           % First we save the object in \hvObjectBox
469
470
           %
```

```
\ifx\hvSet@objectAngle\hv@Zero% rotate the object?
471
         \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
472
473
       \else
         \savebox{\hvObjectBox}{%
474
475
           \rotatebox{\hvSet@objectAngle}{%
             \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi
476
477
           }%
         }%
478
       \fi
479
       \setlength\hv0bjectWidth{\wd\hv0bjectBox}%
480
     %
481
     % Now we save the caption with its defined \hvCapWidth
482
483
     %
       \ifx\hvSet@capWidth\hv@Width%
                                                       captionwidth=objectwidth
484
         \setlength\hvCapWidth{\hvObjectWidth}%
485
486
       \else
         \ifx\hvSet@capWidth\hv@Height%
                                                       captionwidth=objectheight
487
           \setlength\hvCapWidth{\ht\hvObjectBox}%
488
         \else
489
           \ifx\hvSet@capWidth\hv@Natural%
                                                       captionwidth=\linewidth-\objectwidth-separation
490
             \ifhv@capbeside
491
               \ifhv@wide
492
                  \setlength\hvCapWidth{\the\dimexpr\hvWideWidth-\hvObjectWidth-\hvSet@floatCapSep\relax}%
493
               \else
494
495
                  \ifhv@star
                    \setlength\hvCapWidth{\the\dimexpr\textwidth-\hvObjectWidth-\hvSet@floatCapSep\relax}%
496
497
                  \else
                    \setlength\hvCapWidth{\the\dimexpr\linewidth-\hvObjectWidth-\hvSet@floatCapSep\relax}%
498
                  \fi
499
               \fi
500
             \else
501
               \setlength\hvCapWidth{\columnwidth}%
502
             \fi
503
           \else
504
505
             \ifhv@capbeside
506
               \ifhv@wide
                  \setlength\hvCapWidth{\hvSet@capWidth\hvWideWidth}%
507
                  \setlength\@tempdima{\the\dimexpr\hvWideWidth-\hvObjectWidth-\hvSet@floatCapSep\relax}%
508
               \else
509
                  \setlength\hvCapWidth{\hvSet@capWidth\columnwidth}%
510
                  \setlength\@tempdima{\the\dimexpr\columnwidth-\hvObjectWidth-\hvSet@floatCapSep\relax}%
511
               \fi
512
               \ifdim\hvCapWidth>\@tempdima
513
                  \setlength\hvCapWidth{\@tempdima}%
514
               \fi
515
516
             \else
517
               \ifhv@wide
518
                  \setlength\hvCapWidth{\hvSet@capWidth\hvWideWidth}%
519
               \else
                  \setlength\hvCapWidth{\hvSet@capWidth\columnwidth}%
520
               \fi
521
             \fi
522
           ∖fi
523
```

95

524	\fi
525	\fi
526	\saveCaptionSkip% we put this space ourselve
527	\ ifx \hvSet@capAngle\hv@Zero% <i>need rotation</i> ?
528	\savebox% NO rotation
529	<pre>\begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation</pre>
530	\ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
531	\ifhv@nonFloat
532	\ifhv@onlyText
533	\hv@longCap
534	\else
535	\ ifx \hv@floatType\hv@figure
536	\ ifx \ relax \hv@shortCap\ relax
537	\figcaption{\hv@longCap\ expandafter\label\expandafter {\hv@label}}%
538	\else
539	\figcaption[\hv@shortCap]{\hv@longCap\ expandafter\label\expandafter {\hv@label}}%
540	\fi
541	\else
542	\ ifx\relax \hv@shortCap\ relax
543	\tabcaption{\hv@longCap\ expandafter\label\expandafter {\hv@label}}%
544	\else
545	\tabcaption[\hv@shortCap]{\hv@longCap\ expandafter\label\expandafter {\hv@label}}%
546	\fi
547	\fi
548	\fi
549	\else
550	\ifhv@onlyText
551	\hv@longCap
552	\else
553	\ let \@captype\hv@floatType
554	\ifhv@floatRefToObject
555	\ expandafter\ifx\expandafter\relax \hv@shortCap\ relax
556	\caption[]{\hv@longCap\expandafter\label\expandafter{\hv@label}}%
557	\addcontentsline{\hv@floatListOfExt}{\hv@floatType}{\protect\csname the\
	hv@floatType\ endcsname }{\ ignorespaces \hv@longCap}}%
558	\else
559	\ caption []{\hv@shortCap\ expandafter\label\expandafter {\hv@label}}%
560	\ addcontentsline {\hv@floatListOfExt}{\hv@floatType}{\ protect\numberline {\ csname the\
	hv@floatType\ endcsname }{\ ignorespaces \hv@shortCap}}%
561	\fi
562	\else
563	\ expandafter\ifx\expandafter\relax \hv@shortCap\ relax
564	\ caption {\hv@longCap\ expandafter\label\expandafter {\hv@label}}%
565	\else
566	\ caption [\hv@shortCap]{\hv@longCap\ expandafter\label\expandafter {\hv@label}}%
567	\fi
568	\fi
569	\fi
570	\fi
571	<pre>% \expandafter\label\expandafter{\hv@label}% 2.17 put label into the caption argument</pre>
572	\ end {minipage}%
573	}%
574	\else

575	\savebox% Rotation
576	<pre>\rotatebox{\hvSet@capAngle}{%</pre>
577	\begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
578	\ ifx\relax \hv@caption@format\ relax\else\expandafter \captionsetup\ expandafter {\hv@caption@format}\ fi
579	\ifhv@nonFloat
580	\iftw@onlyText
581	\hv@longCap
582	\else
583	\ ifx \hv@floatType\hv@figure
584	<pre>\ifx\relax\hv@shortCap\relax \figcaption{\hv@longCap}\else\figcaption[\hv@shortCap]{\hv@longCap}\ figcaption[\hv@shortCap]{\hv@longCap}\</pre>
	fi \else
585	
586	\ ifx\relax \hv@shortCap\ relax \tabcaption{\hv@longCap}\ else \tabcaption[\hv@shortCap]{\hv@longCap}\ fi
507	\fi
587 588	\fi
589	\else
590	\ifhv@onlyText
590	\hv@longCap
592	\else
593	\ let \@captype\hv@floatType
594	\ifhv@floatRefToObject
595	\expandafter\ifx\expandafter\relax\hv@shortCap\relax
596	<pre>\caption[]{\hv@longCap\expandafter\label\expandafter{\hv@label}}%</pre>
597	\addcontentsline{\hv@floatListOfExt}{\hv@floatType}{\protect\csname the\
	hv@floatType\ endcsname }{\ ignorespaces \hv@longCap}}%
598	\else
599	\caption[]{\hv@shortCap\expandafter\label\expandafter{\hv@label}}%
600	\addcontentsline{\hv@floatListOfExt}{\hv@floatType}{\protect\csname the\
	hv@floatType\ endcsname }{\ ignorespaces \hv@shortCap}}%
601	\fi
602	\else
603	\ expandafter\ifx\expandafter\relax \hv@shortCap\ relax
604	\ caption {\hv@longCap}\ else\caption [\hv@shortCap]{\hv@longCap}%
605	\fi
606	\fi
607	<pre>% \expandafter\ifx\expandafter\relax\hv@shortCap\relax \caption{\hv@longCap}\else\caption[\</pre>
	hv@shortCap]{\hv@longCap}\fi
608	\fi
609	\fi
610	\ label {\hv@label}%
611	\ end {minipage}%
612	}% rotatebox
613	}% \sbox
614	\fi
615	
616	% now we have the object and the caption with the right
617	% rotated angles saved in different boxes
618	%
619	\restoreCaptionSkip% save old values
620	\def\fps@figure{\hvSet@floatPos}%
621	\ifhv@nonFloat
622	\begingroup% Start the nonfloat part

```
\else
623
                      \ifhv@star
624
                                                                                                     625
                           \@nameuse{\hv@floatType*}%
626
                      \else
                           \begin{\hv@floatType}%
                                                                                              Start the floating environment
627
628
                      \fi
                 \fi
629
                 \checkoddpage
630
                 \ifx\hvSet@objectPos\hv@Right\raggedleft\fi
631
                 \ifx\hvSet@objectPos\hv@Center
632
                     \ifhv@nonFloat\hspace*{\fill}\else\centering\fi
633
                 \fi
634
                 \ifx\hvSet@objectPos\hv@Outer
635
                     \ifoddpage\raggedleft\fi
636
637
                 \fi
                 \ifx\hvSet@objectPos\hv@Inner
638
                     \label{eq:lise} with the set of the set of
639
                \fi
640
           %
641
           % to rotate object and caption together, we save all in another box
642
           % the caption comes first, if its on the left or the top
643
           % O caption left, inner and odd page, oneside inner
644
           % 1 caption top
645
           % 2 caption right, inner and even page, oneside outer
646
647
           % 3 caption bottom
648
           %
                \ifx\hvSet@capPos\hv@Left
649
                     \hv@@capPos=0
650
                 \else
651
                     \ifx\hvSet@capPos\hv@Top
652
                          \hv@@capPos=1
653
                      \else
654
                           \ifx\hvSet@capPos\hv@Right
655
                                \hv@@capPos=2
656
657
                           \else
                                \ifx\hvSet@capPos\hv@Bottom
658
659
                                    \hv@@capPos=3
                                \else
660
                                    \ifx\hvSet@capPos\hv@Inner
661
                                         \ifoddpageoroneside\hv@capPos=0\else\hv@capPos=2\fi
662
                                    \else
663
                                          \ifx\hvSet@capPos\hv@Outer
664
                                              \ifoddpageoroneside\hv@capPos=2\else\hv@capPos=0\fi
665
                                          \else
666
                                               \ifx\hvSet@capPos\hv@Before
667
668
                                                   \hv@capPos=0% same as cappos=right
669
                                               \else
670
                                                    \ifx\hvSet@capPos\hv@After
                                                         \hv@capPos=2% same as capPos=right
671
                                                   \fi
672
                                              \fi
673
                                         \fi
674
                                    \fi
675
```

676	\fi
677	\fi
678	\fi
679	\fi
680	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
681	\savebox{\@tempboxa}{% ***** @tempbox start
682	\expandafter\ifcase\the\hv@capPos% 0 is LEFT START \ifcase
683	\ ifx \hvSet@capVPos\hv@Center
684	\put@CaptionBox
685	\hspace{\hvSet@floatCapSep}% capfloatsep
686	\put@ObjectBox
687	\else
688	\ ifx \hvSet@capVPos\hv@Top%
689	<pre>\put@CaptionBox[1]%</pre>
690	<pre>\hspace{\hvSet@floatCapSep}% capfloatsep</pre>
691	\put@ObjectBox[1]%
692	\else% caption on bottom
693	\put@CaptionBox[2]%
694	<pre>\hspace{\hvSet@floatCapSep}% capfloatsep</pre>
695	\put@ObjectBox[2]%
696	\fi
697	\fi% end caption left
698	\ or %1 is top
699	\ ifdim \w d \hvCaptionBox>\w d \hvObjectBox
700	\ begin {minipage}{\ wd \hvCaptionBox}%
701	\else
702	\ begin {minipage}{\ wd \hvObjectBox}%
703	\fi
704	\centering
705	\ifhv@fbox
706	\ fbox {\ usebox {\hvCaptionBox}}\\[\hvBelowCaptionSkip]%
707	\ fbox {\ usebox {\hvObjectBox}}%
708	\else
709	\ usebox {\hvCaptionBox}\\[\hvBelowCaptionSkip]%
710	\ usebox {\hvObjectBox}%
711	\fi
712	\ end {minipage}%
713	\or%2 is right
714	\ ifx \hvSet@capVPos\hv@Center
715	\put@ObjectBox
716	\hspace{\hvSet@floatCapSep}%
717	\put@CaptionBox
718	\else
719	\ifx\hvSet@capVPos\hv@Top
720	<pre>\put@ObjectBox[1]% \background butCastcastcastcastcastcastcastcastcastcastc</pre>
721	<pre>\hspace{\hvSet@floatCapSep}% capfloatsep \nuteCationBay[1]%</pre>
722	\put@CaptionBox[1]%
723	\else
724	\put@ObjectBox[2]% \ hspace {\hvSet@floatCapSep}%
725	<pre>\nspace(\nvset@rtoatcapsep}% caprioatsep \put@CaptionBox[2]%</pre>
726	\put@captionBox[2]% \fi
727	\fi
728	(11

729	\or%3 bottom
730	\ ifdim\wd \hvCaptionBox>\ wd \hvObjectBox
731	\ begin {minipage}{\ wd \hvCaptionBox}%
732	\else
733	\ begin {minipage}{\ wd \hvObjectBox}%
734	\fi
735	\centering
736	\ifhv@fbox
737	\ fbox {\usebox{\hv0bjectBox}}\\[\hvAboveCaptionSkip]%
738	\ fbox {\ usebox {\hvCaptionBox}}%
739	\else
740	\ifhv@objectFrame\ frame {\ usebox {\hv0bjectBox}}\ else\usebox {\hv0bjectBox}\ fi \\[\hvAboveCaptionSkip]%
741	\usebox{\hvCaptionBox}%
742	\fi
743	\ end {minipage}%
744	\fi% \ifcase\the\hv@@capPos
745	}% End savebox Object and caption %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
746	%
740	° % now we rotate the object and caption, if needed
748	%
749	\ifhv@wide
750	\ifoddpageoroneside\ else \ifoddpage\ else\hspace *{\dimexpr-\ marginparwidth -\ marginparsep }\ fi\fi % <- for
/50	wide and left page
751	\fi
751 752	\ifx\hvSet@rotAngle\hv@Zero
	\usebox{\@tempboxa}%
753	
754	\ else \rotatebox{\hvSet@rotAngle}{\ usebox {\@tempboxa}}%
755	\fi
756	
757	\ifhv@nonFloat
758	\ if x\hvSet@objectPos\hv@Center
759	\ifhv@nonFloat
760	\hspace{\fill}%
761	\fi
762	\fi
763	\endgroup% End the nonfloat part
764	\else
765	\ifhv@star
766	\@nameuse{end\hv@floatType*}% End the floating environment
767	\else
768	<pre>\end{\hv@floatType}% End the floating environment</pre>
769	\fi
770	\fi
771	\ endgroup % startet at main \hvFloat
772	}
773	%
774	\newenvironment{hvFloatEnv}[1][\textwidth]
775	{\minipage{#1}\center}
776	{\endcenter\endminipage}
777	8
778	
779	\ExplSyntaxOn
780	\ let \clist@item@Nn\clist_item:Nn

```
\let\l@clist@Type\l clist_Type
781
     \let\l@clist@LofCaption\l_clist_LofCaption
782
     \let\l@clist@Label\l_clist_Label
783
    \let\clist@count@N\clist_count:N
784
785
     \ExplSyntaxOff
786
     \def\do@@@hvFloat{% special float page: caption <-> fullpage image
787
       \ifx\hvSet@capPos\hv@After \hv@capPos=1
788
       \else
789
         \ifx\hvSet@capPos\hv@Even \hv@@capPos=2
790
         \else
791
           \ifx\hvSet@capPos\hv@Odd \hv@@capPos=3
792
           \else
793
             \ifx\hvSet@capPos\hv@Inner
                                           \hv@@capPos=4
794
795
             \else
               \ifx\hvSet@capPos\hv@Outer
                                             \hv@@capPos=5
796
               \else
797
                 \ifx\hvSet@capPos\hv@Right
                                               \hv@@capPos=6% only for twocolumn mode
798
                 \else
799
                    \ifx\hvSet@capPos\hv@Left \hv@capPos=7% only for twocolumn mode
800
                   \else
801
                     \hv@@capPos=0
802
                   ∖fi
803
                 \fi
804
               \fi
805
806
             ∖fi
           \fi
807
         \fi
808
       ∖fi
809
       \checkoddpage
810
       \set@caption@object% set caption and object into a box
811
       \ifcase\hv@capPos% caption before object 0-> always left
812
813
         \setBottomCaption\setPageObject
814
       \or%
                             caption after object 1-> _always_ right
815
         \setPageObject\setBottomCaption
816
       \or%
                             caption on even page 2-> left page
817
         \ifoddpage
           \afterpage{\setBottomCaption\setPageObject}%
818
         \else% we are on an even page
819
            \zsaveposy{hv@currentPos}%
     %
820
            \ifdim\the\dimexpr\zposy{hv@currentPos}sp-\hv@BottomSpace-1cm>\ht\TBox % enough space*
     %
821
             \setBottomCaption\setPageObject
822
    %
            lelse
823
    %
              \afterpage{\afterpage{\setBottomCaption\setPageObject}}%
824
     %
            ١fi
825
826
         ∖fi
827
       \or%
                            caption on odd page 3->right page
828
         \if@twoside
           \if@twocolumn
829
             \ifoddpage
830
               \if@firstcolumn% on right side
831
                 \setBottomCaption\setPageObject
832
               \else
833
```

834	\afterpage{\setPageObject\setBottomCaption}%
835	\fi
836	\ else % left (even) page
837	\if@firstcolumn
838	\afterpage{\setPageObject\setBottomCaption}%
839	\else
840	\setPageObject\setBottomCaption
841	\fi
842	\fi
843	\ else % onecolumn
844	\ifoddpage
845	\setPageObject\setBottomCaption
846	\else% even page
847	\afterpage{\setPageObject\setBottomCaption}%
848	\fi
849	\fi
850	\ else % oneside
851	\if@twocolumn
852	\ifoddpage
853	\if@firstcolumn%
854	\setBottomCaption\setPageObject
855	\else
856	\setPageObject\setBottomCaption
857	\fi
858	\else
859	\if@firstcolumn% on left side
860	\afterpage{\setPageObject\setBottomCaption}%
861	\else
862	\setPageObject\setBottomCaption
863	\fi
864	\fi
865	\else % onecolumn
866	\ifoddpage
867	\setBottomCaption\setPageObject
868	\else
869	\afterpage{\setBottomCaption\setPageObject}%
870	\fi
871	\fi
872	\fi
873	\or% caption on the inner column 4->inner
874	\set@caption@object \if@twocolumn
875	\ifoddpage
876 877	\if@firstcolumn% <i>on right side</i>
877 878	\setBottomCaption\setPageObject
879	\else % right column on right side
	\setPageObject\setBottomCaption% start next firstcolumn next page
880 881	\fi
882	\else
883	\if@firstcolumn% <i>on left side</i>
884	\afterpage{\afterpage{\setBottomCaption\setPageObject}}% start next page/first column
885	\else% left page/column
886	\setBottomCaption\setPageObject% start on same page/column

```
∖fi
887
          ∖fi
888
889
         \else% onecolumn
          \setBottomCaption\setPageObject
890
891
        ∖fi
                          caption on the outer column 5->outer
892
      \or%
        \set@caption@object
893
        \if@twocolumn
894
          \ifoddpage
895
            \if@firstcolumn
896
              \afterpage{\afterpage{\setBottomCaption\setPageObject}}%
897
            \else
898
              \afterpage{\setBottomCaption\setPageObject}%
899
            ∖fi
900
          \else% even page (left)
901
            \if@firstcolumn
902
              \setBottomCaption\setPageObject
903
            \else
904
    %%%
                      !!!! to-do: !!!!
905
            \fi
906
          ∖fi
907
        \else% onecolumn
908
          \setBottomCaption\setPageObject
909
910
        ∖fi
                          caption after object on same page 6->right for twocolumn
911
      \or%
912
        \if@twocolumn
          \if@firstcolumn
913
            \afterpage{\setPageObject\setBottomCaption}%
914
          \else
915
            \setPageObject\setBottomCaption
916
          ∖fi
917
        \else% always caption _after_ object for onecolumn
918
919
          \setPageObject\setBottomCaption
        \fi
920
921
      \or%
                          caption before object on same page 7->left for twocolumn
922
        \if@twocolumn
923
          \if@firstcolumn
            \setBottomCaption\setPageObject
924
          \else
925
            \afterpage{\setBottomCaption\setPageObject}%
926
          ∖fi
927
        \else%
                      onecolumn -> same as before
928
          \setBottomCaption\setPageObject
929
        \fi
930
931
      ∖fi
932
      \endgroup% startet at main \hvFloat
933
    }
934
    %
    %
935
    936
          -----
      % #1-> 0/1 caption under/right
937
      \checkoddpage
938
```

939	\ global \savebox{\hvObjectBox}{\ifhv@useOBox\ usebox {\hvOBox}\ else \hv@floatObject\ fi }%
940	\ifoddpage
941	%
942	\noindent
943	\ global \savebox{\hvObjectBox}{\ifhv@useOBox\ usebox {\hvOBox}\ else \hv@floatObject\ fi }%
944	\ global \@tempdima=\dimexpr\ paperwidth -lin-\ evensidemargin\relax
945	\clipbox*{0 -\ depth {} \@tempdima{} \ height }{\ usebox \hvObjectBox}%
946	\par\bigskip
947	%
948	\newpage
949	\ global \savebox{\hv0bjectBox}{\ifhv@use0Box\ usebox {\hv0Box}\ else \hv@float0bject\ fi }%
950	\hspace*{\dimexpr-lin-\oddsidemargin-\parindent}%
951	\clipbox*{\@tempdima{} -\ depth {} \ width {} \ height {}}{\ usebox \hvObjectBox}%
952	\ifnum#1>0
953	\medskip
954	\ ifdim\dp \hvObjectBox > \z@
955	\rotatebox[origin=c]{90}{\ parbox {\ the \dimexpr\ ht \hvObjectBox+\ dp \hvObjectBox}{%
956	<pre>\captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\expandafter\label\expandafter{\hv@label}}}</pre>
	8
957	\else
958	\rotatebox{90}{\ parbox {\ the \dimexpr\ ht \hvObjectBox+\ dp \hvObjectBox}{%
959	<pre>\captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\expandafter\label\expandafter{\hv@label}}}</pre>
	8
960	\fi
961	\else
962	\captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\ expandafter\label\expandafter {\hv@label}}%
963	\fi
964	}%
965	}%
966	\else
967	%
968	%
969	\newpage
970	% \noindent\null
971	\ global \savebox{\hvObjectBox}{\ifhv@useOBox\ usebox {\hvOBox}\ else \hv@floatObject\ fi }%
972	\global\@tempdima=\dimexpr\paperwidth-lin-\evensidemargin
973	\hspace*{\@tempdima}%
974	<pre>\clipbox*{0 - \@tempdima{} \height}{\usebox\hvObjectBox}%</pre>
975	\par\bigskip
976	%
977	\ global \savebox{\hv0bjectBox}{\ifhv@use0Box\ usebox {\hv0Box}\ else \hv@float0bject\ fi }%
978	\noindent
979	\hspace*{\dimexpr-lin-\marginparwidth}%
980	<pre>\clipbox*{\@tempdima{} - }{\usebox\hvObjectBox}%</pre>
981	\ifnum#1>0
982	\medskip
983	\ ifdim\dp \hvObjectBox > \z@
984	<pre>\rotatebox[origin=c]{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%</pre>
985	<pre>\captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\expandafter\label\expandafter{\hv@label}}}</pre>
986	\else
980 987	<pre>\rotatebox{90}{\parbox{\the\dimexpr\ht\hv0bjectBox+\dp\hv0bjectBox}{%</pre>
987 988	<pre>\captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\expandafter\label\expandafter{\hv@label}}}</pre>
.00	

```
%
                  \fi
 989
                \else
 990
 991
                  \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\expandafter\label\expandafter{\hv@label}}%
                ∖fi
 992
 993
         }}}%
 994
        \fi
        \endgroup
 995
 996
     }
 997
     \def\do@hvFloat@doublePAGE#1{% image on left and right page with caption on the right
998
           -----
       % #1-> 0/1 caption under/right
 999
        \checkoddpage
1000
        \ifoddpage
1001
1002
         \afterpage{%
              \newpage
1003
              \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1004
              \hspace*{\the\dimexpr-\evensidemargin-\parindent-lin}%
1005
              \clipbox*{0 -\depth{} \paperwidth{} \height}{\usebox\hvObjectBox}%
1006
              \newpage
1007
              \global\savebox{\hv0bjectBox}{\ifhv@use0Box\usebox{\hv0Box}\else\hv0float0bject\fi}%
1008
              \hspace*{\the\dimexpr-\oddsidemargin-\parindent-lin}%
1009
              \clipbox*{\paperwidth{} -\depth{} \width{} \height{}}{\usebox\hvObjectBox}%
1010
              \ifnum#1>0
1011
                  \medskip
1012
                  \ifdim\dp\hv0bjectBox > \z@
1013
                    \rotatebox[origin=c]{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1014
                    \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\expandafter\label\expandafter{\hv@label}}}
1015
                         %
                  \else
1016
                    \rotatebox{90}{\parbox{\the\dimexpr\ht\hvObjectBox+\dp\hvObjectBox}{%
1017
                    \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\expandafter\label\expandafter{\hv@label}}}
1018
                         %
1019
                  \fi
1020
                \else
                  \captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\expandafter\label\expandafter{\hv@label}}%
1021
                \fi
1022
1023
              \newpage
         }%
1024
        \else
1025
          \afterpage{%
1026
            \AddToHookNext{shipout/before}{%
1027
     %
               \newpage
1028
              \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1029
              \hspace*{\dimexpr-\evensidemargin-lin-\parindent}%
1030
              \clipbox*{0 -\depth{} \paperwidth{} \height}{\usebox\hvObjectBox}%
1031
1032
              \newpage
              \global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1033
              \hspace*{\the\dimexpr-lin-\oddsidemargin-\parindent\relax}%
1034
              \clipbox*{\paperwidth{} -\depth{} \width{} \height{}}{\usebox\hvObjectBox}%
1035
                              % caption right and rotated
              \ifnum#1>0
1036
                  \medskip
1037
```

1038	\ ifdim\dp \hv0bjectBox > \z@
1039	\rotatebox[origin=c]{90}{\ parbox {\ the \dimexpr\ ht \hvObjectBox+\ dp \hvObjectBox}{%
1040	\captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\ expandafter\label\expandafter {\hv@label}}}}
	%
1041	\else
1042	\rotatebox{90}{\ parbox {\ the \dimexpr\ ht \hvObjectBox+\ dp \hvObjectBox}{%
1043	<pre>\captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\expandafter\label\expandafter{\hv@label}}}}</pre>
	8
1044	\fi
1045	\else
1046	\captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\ expandafter\label\expandafter {\hv@label}}%
1047	\fi
1048	\newpage
1049	}}%
1050	\fi
1051	\endgroup
1052	}
1052	y %
1055	。 \ def \do@hvFloat@doubleFULLPAGE#1{%
1001	
1055	% #1-> 0/1 caption under/right
1056	\checkoddpage
1057	\ global \savebox{\hv0bjectBox}{\ifhv@use0Box\ usebox {\hv0Box}\ else \hv@float0bject\ fi }%
1058	\ifoddpage
1059	%
1060	\global\savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
1060	\vspace*{\the\dimexpr-lin-\voffset-\topmargin-\headheight-\headsep-\baselineskip}% +0.5\paperheight
1001	-0.5\ht\hvObjectBox
1062	\hspace*{\the\dimexpr-\evensidemargin-\parindent-lin}%
	\AtBeginShipoutNext{\ thispagestyle {empty}}%
1063	
1064	<pre>\clipbox*{0 0 \height}{\usebox\hvObjectBox}% </pre>
1065	\newpage
1066	\AtBeginShipoutNext{\ thispagestyle {empty}}%
1067	\vspace*{\the\dimexpr-lin-\voffset-\topmargin-\headheight-\headsep-\normalbaselineskip}% -0.5\
	paperheight+0.5\ht\hvObjectBox
1068	\hspace*{\the\dimexpr-\oddsidemargin-\parindent-lin}%
1069	<pre>\clipbox*{ 0 \wd\hv0bjectBox{} }{\usebox\hv0bjectBox}%</pre>
1070	\savebox\hvCaptionBox{\ parbox {0.9\ ht \hvObjectBox}{%
1071	\captionof*{\hv@floatType}[\hv@shortCap]{\hv@longCap\ expandafter\label\expandafter {\hv@label}}}%
1072	\ifnum#1>0
1073	\ ifdim \dimexpr\ ht \hvCaptionBox+\ wd \hvObjectBox\ relax < 2\ paperwidth
1074	<pre>\rotatebox{90}{\qquad\parbox{0.9\ht\hv0bjectBox}{%</pre>
1075	\captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\ expandafter\label\expandafter {\hv@label
	}}}%
1076	\else
1077	<pre>\put(-\ht\hvCaptionBox,0.5\ht\hvObjectBox){\makebox(0,0){\rotatebox{90}{\minipage{\textwidth}\ .</pre>
	centering
1078	\parbox{0.8\textwidth}{%
1079	\captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\ expandafter\label\expandafter {\hv@label
	<pre>}}\endminipage</pre>
1080	}}}%
1081	\fi
1082	\else

1083	\captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\ expandafter\label\expandafter {\hv@label}}%
1084	\fi
1085	\newpage
1086	}%
1087	\else
1088	%
1089	\AddToHookNext{shipout/before}{%
1090	\newpage
1091	\AddToHook{begin/page}{\ thispagestyle {empty}}
1092	\ global \savebox{\hvObjectBox}{\ifhv@useOBox\ usebox {\hvOBox}\ else \hv@floatObject\ fi }%
1093	\ vspace *{\ the \dimexpr-lin-\ voffset -\ topmargin -\ headheight -\ headsep -\ baselineskip }% +0.5\ <i>paperheight</i>
	-0.5\ht\hvObjectBox
1094	\hspace*{\the\dimexpr-\evensidemargin-\parindent-lin}%
1095	\AtBeginShipoutNext{\ thispagestyle {empty}}%
1096	\clipbox*{0 0 \ paperwidth {} \ paperheight }{\ usebox \hvObjectBox}%
1097	\newpage
1098	\vspace*{\the\dimexpr-lin-\voffset-\topmargin-\headheight-\headsep-\normalbaselineskip}% -0.5\
	paperheight+0.5\ht\hvObjectBox
1099	\hspace *{\ the \dimexpr-\ oddsidemargin-\parindent -lin}%
1100	\clipbox*{\ paperwidth {} 0 \ wd \ paperheight {}}{\ usebox \hvObjectBox}%
1101	\AtBeginShipoutNext{\ thispagestyle {empty}}%
1102	\savebox\hvCaptionBox{\ parbox {0.9\ ht \hvObjectBox}{%
1103	\captionof*{\hv@floatType}[\hv@shortCap]{\hv@longCap\ expandafter\label\expandafter {\hv@label}}}%
1104	\ifnum#1>0
1105	\ ifdim \dimexpr\ ht \hvCaptionBox+\ wd \hvObjectBox\ relax < 2\ paperwidth
1106	<pre>\rotatebox{90}{\minipage{\the\ht\hvObjectBox}\centering\parbox{0.75\textwidth}{%</pre>
1107	<pre>\captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\expandafter\label\expandafter{\hv@label}}}</pre>
1100	%
1108	\endminipage }% \else %
1109	<pre>\else% no space on the right, put it over the imag \put(-\ht\hvCaptionBox,0.5\ht\hvObjectBox){\makebox(0,0){\rotatebox{90}{\the\dimexpr\ht</pre>
1110	<pre>\hutering in the investigation of the investig</pre>
1111	\centering\parbox{0.8\textwidth}{%
1112	<pre>\captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\expandafter\label\hv@label</pre>
1112	<pre>}}\endminipage}}}%</pre>
1113	\fi
1114	\else
1115	\captionof{\hv@floatType}[\hv@shortCap]{\hv@longCap\ expandafter\label\expandafter {\hv@label}}%
1116	\fi
1117	\newpage
1118	}%
1119	}%
1120	\fi
1121	\endgroup
1122	}
1123	
1124	\ def %
1125	\ begin {\hv@floatType}[!b]%
1126	\ifhv@separatorLine\drawSepLine\ fi
1127	\par
1128	\ usebox \hvCaptionBox
1129	\ end {\hv@floatType}%
1130	}

1130 }

```
1131
      \def\setPageObject{%
1132
        \ifhv@star
1133
          \begin{\hv@floatType*}[p]%
1134
1135
        \else
          \begin{\hv@floatType}[p]%
1136
        \fi
1137
        \ifhv@FULLPAGE
1138
          \vspace*{\the\dimexpr-lin-\voffset-\topmargin-\headheight-\headsep}%-0.5\baselineskip}%
1139
          \checkoddpage
1140
          \if@twoside
1141
            \ifoddpage
1142
              \hspace*{\the\dimexpr-\oddsidemargin-\parindent-lin}%
1143
            \else
1144
1145
              \hspace*{\the\dimexpr-\evensidemargin-\parindent-lin}%
            ∖fi
1146
          \else
1147
            \hspace*{\the\dimexpr-\oddsidemargin-\parindent-lin}%
1148
          \fi
1149
          %\put(0,0){%
1150
          \AtBeginShipoutNext{\thispagestyle{empty}}%
1151
          \usebox\hv0bjectBox%}%
1152
1153
        \else
          \usebox\hv0bjectBox
1154
1155
        ∖fi
1156
        \ifhv@star
          \end{\hv@floatType*}%
1157
        \else
1158
          \end{\hv@floatType}%
1159
        \fi
1160
     }
1161
1162
      \ExplSyntaxOn
1163
1164
1165
      \def\getMultiCaptionAndLabel{%
1166
        \global\sbox\hvCaptionBox{\minipage[b]{\linewidth}%
          \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
1167
          \setlength\belowcaptionskip{5pt}%
1168
          \setlength\abovecaptionskip{0pt}%
1169
          \hv@cntb=\clist_count:N\l_clist_Type
1170
          \advance\hv@cntb by \@ne
1171
          \hv@cnta=1
1172
          \loop
1173
            \edef\@captype{\clist_item:Nn\l_clist_Type{\hv@cnta}}%
1174
            \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{\hv@cnta}}%
1175
1176
            \ifx\@tempa\@empty
1177
              \caption{\clist_item:Nn\l_clist_Caption{\hv@cnta}}%
1178
            \else
              \expandafter\caption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{\hv@cnta}}%
1179
            \fi
1180
            \edef\@tempa{\clist_item:Nn\l_clist_Label{\hv@cnta}}%
1181
            \ifx\@tempa\@empty
1182
            \else
1183
```

1184	\expandafter\label\expandafter {\clist_item:Nn \l _clist_Label{\hv@cnta}-cap}\ fi
1185	\ advance \hv@cnta by \@ne
1186	\ ifnum \hv@cnta<\hv@cntb
1187	\repeat
1188	\endminipage}%
1189	}
1190	\ def %
1191	\global\sbox\hvObjectBox{\minipage{\linewidth}%
1192	<pre>\ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi</pre>
1193	\ ifx \hvSet@objectPos\hv@Right\ raggedleft\else
1194	\ ifx \hvSet@objectPos\hv@Left\ raggedleft\else
1195	\ ifx \hvSet@objectPos\hv@Center\ centering
1196	\fi\fi
1197	<pre>\hv@cntb=\clist_count:N\1_clist_Type</pre>
1198	\advance\hv@cntb by \@ne
1199	\hv@cnta=1
1200	
1201	\def\@temp{\clist_item:Nn\l_clist_Object{\hv@cnta}}%
1202	<pre>\ifhv@objectFrame\frame{\@temp}\else\@temp\fi }</pre>
1203	\ edef \@tempa{\clist_item:Nn\ l _clist_Label{\hv@cnta}}%
1204	\ifx\@tempa\@empty
1205	\else \refstepcounter{\@captype}%
1206 1207	\expandafter\label\expandafter{\clist item:Nn\l clist Label{\hv@cnta}}%
1207	\fi
1200	\ ifnum \hv@cnta<\clist count:N\ l clist Type\ par \hv@vskip\ fi
1210	\advance\hv@cnta by \@ne
1210	\ ifnum \hv@cnta<\hv@cntb
1212	\repeat
1213	\endminipage}%
1214	}
1215	
1216	\ def %
1217	\global\sbox\hvCaptionBox{\minipage{\linewidth}%
1218	\ ifx\relax \hv@caption@format\ relax\else\expandafter \captionsetup\ expandafter {\hv@caption@format}\ fi
1219	\setlength\belowcaptionskip{5pt}%
1220	\setlength\abovecaptionskip{0pt}%
1221	\ xdef \@captype{\clist_item:Nn\ l _clist_Type{1}}% <i>the same for all subfloats</i>
1222	\edef\@tempa{\clist_item:Nn\l_clist_LofCaption{1}}%
1223	\ ifx \@tempa\@empty
1224	\caption{\clist_item:Nn\l_clist_Caption{1}}%
1225	\else
1226	<pre>\expandafter\caption\expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{1}}%</pre>
1227	\fi
1228	\ edef \@tempa{\clist_item:Nn\ l _clist_Label{1}}% \ ifx \@tempa\@empty\ else\expandafter\label\expandafter {\clist item:Nn\ l clist Label{1}-cap}\ fi
1229	\endminipage}%
1230	
1231 1232	}
1232	\ def %
1233	\global\sbox\hvObjectBox{\minipage{\linewidth}%
1235	\ ifx\relax \hv@subcaption@format\ relax\else \captionsetup[sub]{\hv@subcaption@format}\ fi
1236	\ ifx \hvSet@objectPos\hv@Right\ raggedleft\else

```
\ifx\hvSet@objectPos\hv@Left\raggedleft\else
1237
              \ifx\hvSet@objectPos\hv@Center\centering
1238
          \fi\fi\fi
1239
          \hv@cntb=\clist_count:N\l_clist_Caption
1240
1241
          \advance\hv@cntb by \@ne
1242
          \hv@cnta=2
          \xdef\@captype{\clist_item:Nn\l_clist_Type{1}}% the same for all subfloats
1243
          \loop
1244
            \def\@temp{\clist_item:Nn\l_clist_Object{\hv@cnta}}%
1245
            \ifhv@objectFrame\frame{\@temp}\else\@temp\fi
1246
            \begingroup
1247
            \edef\@tempa{\clist_item:Nn\l_clist_LofCaption{\hv@cnta}}%
1248
            \ifx\@tempa\@empty
1249
              \subcaption{\clist_item:Nn\l_clist_Caption{\hv@cnta}}%
1250
            \else
1251
              \expandafter/subcaption/expandafter[\@tempa]{\clist_item:Nn\l_clist_Caption{\hv@cnta}}%
1252
            ∖fi
1253
            \edef\@tempa{\clist_item:Nn\l_clist_Label{\hv@cnta}}%
1254
            \ifx\@tempa\@empty
1255
            \else
1256
              \expandafter\label\expandafter{\clist_item:Nn\l_clist_Label{\hv@cnta}}%
1257
            ∖fi
1258
1259
            \endgroup
            \ifnum\hv@cnta<\clist_count:N\l_clist_Type\par\hv@vskip\fi
1260
            \advance\hv@cnta by \@ne
1261
1262
          \ifnum\hv@cnta<\hv@cntb
1263
          \repeat
          \edef\@tempa{\clist_item:Nn\l_clist_Label{1}}%
                                                             the main label at the end
1264
          \ifx\@tempa\@empty
1265
          \else
1266
            \refstepcounter{\@captype}
1267
            \expandafter\label\expandafter{\@tempa}%
1268
          \fi
1269
        \endminipage}%
1270
1271
     }
1272
     \ExplSyntax0ff
1273
     \def\getSingleCaptionAndLabel{%
1274
        \global\sbox\hvCaptionBox{\minipage{\linewidth}%
1275
          \ifx\relax\hv@caption@format\relax\else\expandafter\captionsetup\expandafter{\hv@caption@format}\fi
1276
          \setlength\belowcaptionskip{5pt}%
1277
          \setlength\abovecaptionskip{0pt}%
1278
          \edef\@captype{\hv@floatType}%
1279
          \expandafter\ifx\expandafter\relax\hv@shortCap\relax
1280
            \caption{\hv@longCap}%
1281
1282
          \else
1283
            \caption[\hv@shortCap]{\hv@longCap}%
1284
          \fi
        \expandafter\ifx\expandafter\relax\hv@label\relax\else\label{\hv@label-cap}\fi
1285
        \endminipage}%
1286
1287
     }
1288
     \def\set@caption@object{%
                                    first caption, then object
1289
```

1290	\ifhv@multiFloat
1291	\getMultiCaptionAndLabel
1292	\else
1293	\ifhv@subFloat
1294	\getMultiSubCaptionAndLabel
1295	\else
1296	\getSingleCaptionAndLabel
1297	\fi
1298	\fi
1299	\ edef \@captype{hv@p\hv@floatType}%
1300	\ifhv@multiFloat
1301	\getMultiObjectAndLabel
1302	\else
1303	\ifhv@subFloat
1304	\getMultiSubObjectAndLabel
1305	\else
1306	\ global\sbox %
1307	<pre>\refstepcounter{\@captype}%</pre>
1308	\ifhv@objectFrame\ frame {\hv@floatObject}\ else \hv@floatObject\fi
1309	\expandafter\ifx\expandafter\relax \hv@label\ relax
1310	\else
1311	\ expandafter\label\expandafter {\hv@label}%
1312	\fi
1313	}%
1314	\fi
1315	\fi
1316	}
1317	8
1318	\endinput