Package hvfloat
Controlling captions, fullpage and doublepage floats
ver 2.37

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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 \footnote{float} is set into the margin. This is done also only for demonstration!

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</tr>
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</tr>
<tr>
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<td>Description</td>
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<td>--------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
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<tr>
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</tr>
<tr>
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</tbody>
</table>
1 The package options

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

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

The following packages are loaded by hvfloat and the optional argument hypcap is passed to the packages caption and subcaption:
- caption, subcaption, atbegshi, stfloats, expl3, multido, graphicx, xkeyval, ifoddpage, and afterpage.

2 The Macros and optional arguments

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

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

The star version is explained in section 11 on page 22 and 19.2 on page 48 and the optional \* is explained in section 17.3 on page 37.

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

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

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

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

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

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

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

[...] It is no problem to use the \verb|\tabcaption| command to place a caption anywhere, like here in an inlined mode:
\tabcaption[The Caption without sense ...]%
```
\section*{2 The Macros and optional arguments}

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

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

\HVDefFloatStyle{name}{setting}

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

There are the following keywords:

\begin{table}[h]
\centering
\begin{tabular}{llp{0.5\linewidth}}
\hline
\textbf{Keyword} & \textbf{Default} & \textbf{Description} \\
\hline
floatPos & tbp & This is the same default placement setting as in standard \LaTeX; maybe not always the best setting. \\
rotAngle & 0 & The value for the angle if both the object and the caption should be rotated together. \\
capWidth & n & The width of the caption. Can be \textit{n} for a natural width given by the current linewidth, \textit{w} for the width of the object, \textit{h} for the height of the object, or a scale factor for \texttt{\columnwidth}. \\
capAngle & 0 & The integer value for the angle if the caption should be rotated. Positive is counter-clockwise. \\
capPos & bottom & The position of the caption relative to the object. Possible values:
\begin{itemize}
  \item before: always before (left) from the object.
  \item top: always on top of the object.
  \item left: always before (left) from the object, but on the same page in twocolumn mode.
  \item after: always after (right) from the object.
  \item bottom: always on the bottom of the object.
  \item right: always after (right) from the object, but on the same page in twocolumn mode.
  \item inner: in twoside mode always typeset at the inner margin.
  \item outer: in twoside mode always typeset at the outer margin.
  \item evenPage: in twoside mode with fullpage objects always on an even page.
  \item oddPage: in twoside mode with fullpage objects always on an odd page.
\end{itemize} \\
\text{} & center & Only used when capPos=left/center/right; in these cases, the caption can be vertically placed at the bottom, center or top.
\text{} & center & Horizontal placement of the object relative to the document. Possible values are (l)eft, (c)enter, (r)ight.
\text{} & 0 & Integer value for the angle if the object should be rotated. Positive is counter-clockwise.
\text{} & 5pt & Additional space between the object and a left- or right-placed caption.
\text{} & false & Instead of passing the object as a parameter to \HVFloat, with useOBox=true the contents of the predefined box \HVBox is used.
\text{} & false & The caption is printed as normal text with no entry in any list of ...
\text{} & false & The object isn’t put in a floating environment, but printed as standard text with an additional caption.
\text{} & false & The float counter is increased as usual and can be referenced.
\text{} & false & The float can use \texttt{\textwidth+\marginparwidth} as horizontal width.
\hline
\end{tabular}
\caption{The optional keywords for the macro \HVFloat}
\end{table}
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}
4 Caption width

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

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

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:

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

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

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

Fig. 3

![Figure 3: Default caption width setting, which is the natural width with respect to the current linewidth.](image)
4.2 Relative linewidth

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

\begin{verbatim}
\hvFloat[floatPos=htb, capWidth=0.9]{figure}{includegraphics[images/rose]}% 
\texttt{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\}
\end{verbatim}

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

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

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

Fig. 6
4.3 Identical object and caption width

With \texttt{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.

\begin{verbatim}
\hvFloat[floatPos=!htb,capWidth=w]{figure}{\includegraphics[width=0.5\linewidth]{images/CTAN}}
\end{verbatim}

\begin{figure}[htb]
\centering
\includegraphics[width=0.5\linewidth]{images/CTAN}
\caption{Caption below with a width of the given object which may be a problem if it is a very small object.}
\label{fig:width4}
\end{figure}

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

\begin{figure}[htb]
\centering
\includegraphics{images/rose}
\caption{Caption beside with a width of the given object height which may be a problem if it is a very small object.}
\label{fig:width5}
\end{figure}

4.4 caption width to height of the object

With \texttt{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.

\begin{verbatim}
\hvFloat[floatPos=!htb,capPos=after,capWidth=h,capAngle=90,objectFrame]{figure}{\includegraphics[width=0.5\linewidth]{images/CTAN}}
\end{verbatim}

\begin{figure}[htb]
\centering
\includegraphics[width=0.5\linewidth]{images/CTAN}
\caption{Caption beside with a width of the given object height which may be a problem if it is a very small object.}
\label{fig:width5}
\end{figure}

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 \texttt{before} is identical to the setting \texttt{left}.

5.1 Caption right with specific length

Code for figure 9:

\begin{verbatim}
\end{verbatim}
5.2 Caption left and rotated

Code for figure 10:

```latex
\texttt{hvFloat}
[floatPos=htb,
  capPos=left,
  capWidth=h, \% of \texttt{\texttt{columnwidth}}
  capAngle=90,
  objectFrame
]{figure}{\includegraphics[width=\textwidth]{images/rose}}

\{Caption vertically centered left beside the float with a caption width of \texttt{capWidth=h}}, which is the height of the object.\{fig:2\}
```

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

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

**Fig. 11**

### 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:**

```latex
\hvFloat[capPos=inner]{figure}{\includegraphics{images/rose}}%
[Centered Caption on the inner side]{fig:3}
```

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

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

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

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

Figure 14: Caption at the bottom right beside the float with a caption width of 0.5\textwidth and and `capPos=outer`.
We have an even page, the reason why figure 13 has the caption for *inner* on the left side and figure 14 for *outer* on the right side.

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

**Code for figure 15:**

```
\hvFloat[
  \capWidth=0.5, \% of \columnwidth
  \capPos=inner, \% \texttt{INNER}
  \capAngle=0,
  \capVPos=bottom,
  \objectPos=center]{figure}{\includegraphics{images/rose}}% \\
\{Centered Caption beside Object\}%
\widthof{\texttt{0.5\textbackslash columnwidth}} and \texttt{\capPos=outer} \}{fig:22}
```

**Fig. 15**

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

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

### 7 Vertical Position of the Caption

The caption can be placed beside the object in the positions

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

**The code for figure 16:**

```
\hvFloat[
  \floatPos=htb, \\
  \capWidth=0.25, \\
  \capPos=right, \\
  \capVPos=bottom, \\
  ]{figure}{\\includegraphics{images/rose}}\texttt{Caption at bottom right beside the float}{fig :4}
```

**Fig. 16**

The code for figure 17:

```
\hvFloat[
  \floatPos=htb, \\
  \capWidth=0.25, \\
  ]
```

16
The code for figure 18:

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

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
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:

```latex
\hlfloat[
  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: 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”? Kjif – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.
```
The same with `capPos=left`:

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

![Figure 21](image)

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

The code for figure 22:

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

![Figure 22](image)

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

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

The code for figure 23:

```latex
\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:

```latex
\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”? Klif – 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 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.

The caption can be typeset completely into the margin with:

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

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:

```latex
\begin{figure}%
\centering
\begin{minipage}{0.9\textwidth}
\caption{A default caption setting\%}
\end{minipage}
\end{figure}
```

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)](image)

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).

```latex
\begin{figure}%
\centering
\begin{minipage}{0.9\textwidth}
\caption{Object and Caption in landscape mode\%}
\end{minipage}
\end{figure}
```

The float can also be put to the left or to the right (above/below in landscape) with the objectPos=1 parameter

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

```latex
\texttt{hvFloat}[
  floatPos=p,  
  capWidth=\text{left},  
  capPos=right,  
  objectAngle=90,  
  capAngle=-90,  
  objectPos=left,  
][\texttt{figure}]\texttt{\includegraphics[width=\textwidth]{images/CTAN}}%

[Rotated Caption in Landscape]{
  Caption right beside the float and object position left. The caption rotated by $-90$ degrees.}
```

Fig. 30

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

13 The nonFloat Option

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

```latex
Some nonsense text before the following \texttt{non floating} object.
\texttt{hvFloat}[
  nonFloat,  
  capWidth=0.25,  
  capPos=right,  
  capVPos=bottom,  
  objectPos=bottom,  
  objectFrame,  
][\texttt{figure}]\texttt{\includegraphics[width=\textwidth]{images/rose}}%
[Nonfloat Captions]{
  Caption of a `nonfloat' Object, using the \texttt{nonfloat} Package}

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

Fig. 31
Figure 30: Caption right beside the float and object position left. The caption rotated by −90 degrees. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Not at all! A blank text 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 a selected font. There is no need for special content, but the length of words should match the language. There is no difference between this text and some nonsense like “Huardest gefburn? Kjift – not at all!”
14 Tabulars as Objects

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 \texttt{xxxcaption} commands to support other with the \texttt{float} package defined new floats.

14 Tabulars as Objects

The object has to be passed as an parameter to the \texttt{hvfloat} macro. This is no problem with images but maybe with tables, so it is easier to use the box \texttt{hvOBox} to save the table in this box and pass it then to \texttt{hvfloat} with the \texttt{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.

\begin{tabular}{|l|l|l|}
\hline
  \texttt{Name} & \texttt{Type} & \texttt{Description} \\
\hline
\texttt{CMD(hvfloat)} & \texttt{command} & places object and caption in different ways \texttt{CMD(!hb)} \\
\texttt{hvFloatEnv} & \texttt{environment} & places object and caption exactly \texttt{CMD(nodefaults)} \\
\texttt{CMD(figcaption)} & \texttt{command} & writes a figure caption in a non floating environment \texttt{CMD(tabcaption)} \\
\texttt{CMD(hvFloatSetDefaults)} & \texttt{command} & sets all options to the defaults \\
\hline
\end{tabular}

The code for table 4 and 5 is:

\begin{verbatim}
\begin{tabular}{>{\small\texttt{ttfamily}}l|l|l|}
\hline
  \texttt{Name} & \texttt{Type} & \texttt{Description} \\
\hline
\texttt{CMD(hvfloat)} & \texttt{command} & places object and caption in different ways \texttt{CMD(!hb)} \\
\texttt{hvFloatEnv} & \texttt{environment} & places object and caption exactly \texttt{CMD(nodefaults)} \\
\texttt{CMD(figcaption)} & \texttt{command} & writes a figure caption in a non floating environment \texttt{CMD(tabcaption)} \\
\texttt{CMD(hvFloatSetDefaults)} & \texttt{command} & sets all options to the defaults \\
\hline
\end{tabular}
\end{verbatim}
In this case leave the third parameter empty.

**Table 4: Demonstration of the useOBox Parameter**

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

**15 Text and objects**

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

The code for figure 15:

```
\hvfloat
onlyText=true,
capAngle=90,
capPos=right,
capVPos=top,
objectFrame,
capWidth=h\}{\includegraphics{images/rose}}%
```

Demonstration of the onlyText Parameter, which makes it possible to put some text beside a floating object without getting a starting Figure: or Table: \texttt{fig:text}
16 Environment \texttt{hvFloatEnv}

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

\begin{verbatim}
\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}
\end{verbatim}

\textbf{Table 6:} A caption for a nice table

\begin{tabular}{lccc}
left & center & right \\
L & C & R \\
\end{tabular}

The environment has an optional argument for setting the line width which is preset to \texttt{\textwidth}. The object is always centered.
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 preceding or following page. It is possible in oneside and twoside mode, but makes only real sense in the twoside mode. \texttt{hvfloat} defines three additional optional arguments for placing images in a complete column, page or paper:

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

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

17.1 Using the textarea

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

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 \texttt{capPos=left} for a onecolumn document. For the twocolumn option it makes more sense to use the setting \texttt{capPos=before} if the caption and object can appear on different pages.
\section*{17 Full page objects in onecolumn mode}

\begin{figure}[ht]
\centering
\includegraphics[fullpage]{tiger}
\caption{Output of fullpage1s2c (pages 1–8)}
\end{figure}

\begin{table}[ht]
\centering
\begin{tabular}{|l|l|p{10cm}|}
\hline
\textbf{Name} & \textbf{Type} & \textbf{Description} \\
\hline
fullpage & true/false & Put the caption on the bottom of the preceding or following page and the object alone a page. \\
FULLPAGE & true/false & The same for full papersize objects over one or two columns. The pagestyle is set to empty \\
multiFloat & true/false & For multiple objects with captions for every object. See section 17.3 on page 37. \\
subFloat & true/false & For multiple objects with one main and more subcaptions. See section 18 on page 39. \\
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. \\
\hline
\end{tabular}
\caption{Valid optional arguments for a full page object.}
\end{table}

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

\begin{figure}
  \centering
  \includegraphics[width=\textwidth]{frose}
  \caption{Output of default1s1c (pages 2–9)}
\end{figure}
17 Full page objects in onecolumn mode

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 onestide document.

\begin{figure}[fullpage, capPos=after]
\centering
\includegraphics[fullpage]{images/frose}
\caption[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.}
\end{figure}

\begin{description}
\item[First item in a list] 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 an impression of the look.
\item[Second item in a list] 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 an impression of the look.
\item[Third item in a list] 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 an impression of the look.
\item[Fourth item in a list] 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 an impression of the look.
\item[Fifth item in a list] 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 an impression of the look.
\end{description}

\begin{figure}[fullpage]
\centering
\includegraphics[fullpage]{images/frose}
\caption[Output of after1s1c (pages 2–9)].{Output of after1s1c (pages 2–9)}
\end{figure}
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!

```latex
\hfill \text{Figure 35: Output of \texttt{even1s1c} (pages 2–9)}
```
17 Full page objects in onecolumn mode

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.

```
\nwFloat[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 which 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.
17.2 Using the paper size

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

\begin{verbatim}
\texttt{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}
\end{verbatim}

\textbf{Figure 37: Output of paper-default1s1c (pages 2–9)}
17.3 Multifloats

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

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

+{float type}{floating object}{short caption}{long caption}{label}

+...{float type}{floating object}{short caption}{long caption}{label}

The + symbol defines an additional Object which will be part of the same floating environment. It’s up to 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:

```latex
\captionsetup{singlelinecheck=false}
\hvFloat[fullpage,capPos=before,multiFloat,vFill]{figure}{includegraphics[width=linewidth]{images/CTAN}}
\caption{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 which has no real meaning because it fills only the space for a long caption.}
\label{img:demo0}

+{table}\begin{tabular}{lrcp{3cm}}
\hline
Linksbündig & Rechtsbündig & Zentriert & Parbox\%
L & R & C & P\%
left & right & center & Text with possible linebreaks\%
\multicolumn{4}{c}{Multicolumn over all columns}\%
\end{tabular}
\caption{A Caption B of a `fullpage' object, which follows on the left or right column.}
\label{img:demo1}

+{figure}{includegraphics[width=linewidth]{images/CTAN}}
\caption{A Caption C of a `fullpage' object, which follows on the left or right column.}
\label{img:demo2}
```

The page with the objects has no additional informations it holds only the figures and/or tabulars. If you want it like subfigures or subtabulars then go to section 18 on page 39. The setting \captionsetup{singlelinecheck=false} is needed if you want the captions always left aligned.
17 Full page objects in onecolumn mode

\begin{table}
\centering
\begin{tabular}{|c|c|c|c|}
\hline
Linksbündig & Rechtsbündig & Zentriert & Parbox\\
\hline
left & right & center & Text with possible linebreaks\\
\hline
\end{tabular}
\end{table}

\begin{figure}
\centering
\includegraphics[width=\textwidth]{image1}
\caption{Figure 3: A Caption C of a "fullpage" object, which follows on the left or right column.}
\end{figure}

\begin{figure}
\centering
\includegraphics[width=\textwidth]{image2}
\caption{Figure 4: Output of multi-default1s1c (pages 4–11)}
\end{figure}

\begin{figure}
\centering
\includegraphics[width=\textwidth]{image3}
\caption{Figure 5: Output of multi-after1s1c (pages 4–11)}
\end{figure}
18 Subfloat page

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

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

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

```latex
\hvfloat[fullpage,capPos=before,objectFrame,subFloat,vFill]

+{figure}{}[Short main caption of the objects]

{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:demo0}%

+{}{\includegraphics[width=\linewidth]{images/CTAN}}%

{A Caption B of a `fullpage' sub object.}% subcaption

{sub:demo1}%

+{}{\includegraphics[width=\linewidth]{images/CTAN}}%

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

{sub:demo2}%

+{}{\includegraphics[width=\linewidth]{images/CTAN}}%

{A Caption D of a `fullpage' object}{sub:demo3}

{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}'.

```latex
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}'.
```
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 content, but the length of words should match the language.

• First item in a list
• Second item in a list
• Third item in a list
• Fourth item in a list
• First item in a list

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.

First item in a list
Second item in a list
Third item in a list
Fourth item in a list
Fifth item in a list

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 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 30 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)]

```latex
\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{frose}
\caption{A fullpage object with a caption.}
\end{figure}
```

The example 43 shows that the caption and the object can be on different pages. If you do not like this behaviour, then use the setting capPos=left, which puts the caption before the
object, but always on the same page (see Figure 44).

Figure 44: Output of \texttt{left2s2c} (pages 2–9)

19.1.1 Using \texttt{capPos=after}

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

\begin{verbatim}
\hvFloat[fullpage, capPos=after]{figure}%
{\includegraphics[fullpage]{images/rose}}%
\hfill
\texttt{(A float which needs the complete column width and height.)}%
\hfill
\texttt{(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 text which has no real meaning because it fills only the space for a long caption.)}%
\hfill
\texttt{[fig:fullpage1-2]}
\end{verbatim}

The caption and the object can be on different pages (Figure \texttt{45 on the facing page}). If you do not like this behaviour, then use the setting \texttt{capPos=right} instead of \texttt{capPos=after} . Figure \texttt{right2s2c} shows that caption and object in this case are always on the same page.
Hello, here is some text without a meaning. This text should contain all letters of the alphabet and it should be written in the original language. There is no need for special contents, but the length of words should match the language.

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

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

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 \hfloat.

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

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)
19.1.4 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.

\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{images/rose}
\caption{Caption of a \texttt{``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.\vspace{0.5em}}
\end{figure}

\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{images/rose}
\caption{Output of inner2s2c (pages 2–9)}
\end{figure}
19.1 Default setting

19.1.5 Using \texttt{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.

\begin{verbatim}
\hfillfloat[fullpage, capPos=outer]{figure}
{includegraphics[fullpage]{images/rose}}
\end{verbatim}

[A float which needs the complete page width and height with \texttt{capPos=outer}.]

{A Caption on the outer side of a twosided document.}

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{fullpage2-2a}

\begin{figure}[ht]
\centering
\begin{tabular}{|c|c|c|c|c|}
\hline
1. & 2. & 3. & 4. & 5. \\
\hline
• & • & • & • & • \\
\hline
\end{figure}

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 \texttt{hvfloat} the object is placed over both columns, the whole page. In such a case the only useful caption position is \texttt{capPos=inner} for \textit{inner}.

\begin{verbatim}
\texttt{hvfloat*[fullpage, capPos=inner]{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 in twocolumn mode: It uses the star version}
of \texttt{\textbackslash hvfloat}. The object goes over both columns.}{fig:two}
\end{verbatim}

![Figure 51: Output of paper-default2s2c (pages 2–9)](image)
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 to 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}
\hffloat[fullpage,multifloat,capPos=inner,\vfill]
% {figure}\includegraphics[height=0.4\textheight]{{images/rose}}\% no 1
  {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 which has no
   real meaning because it fills only the space for a long caption.}%
% {multi:demo8}%
% +{table}\begin{tabular}{lr}\hline
\textwidth & \% no 2
  Linksbündig & Rechtsbündig\%
  L & R \%
% left & right \%
\multicolumn{2}{c}{{Multicolumn}}\\hline
% {multi:demo9}%
\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:demo10%}
```

Figure 52: Output of paper-inner2s2c (pages 2–9)
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 39. 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.

\captionsetup[sub]{singlelinecheck}
\hfloatep[fullpage,capPos=before,objectFrame,subFloat,vFill]%
+{(figure)}\{Short main caption of the objects\}
   \{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 short lsi entry\}
   \{sub:demo08\}
+{}\{\includegraphics[height=0.28\textheight]{images/rose}\}
   \{Short caption B\}
   \{A Caption B of a "fullpage" sub object.\}
+{}\{\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).
Hello, here is some text without a meaning. This text 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.

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

Hello, here is the third paragraph. Hello, here is the forth 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 how the letters are written and an impression of the alphabet and it should be written in the original language. There is no need for special contents, but the length of words should match the language.

Hello, here is some text without a meaning. This text should contain all letters of the alphabet and it should be written in the original language. There is no need for special content, but the length of words should match the language.

**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 $2\text{\paperwidth}-4\text{\margin}$. The caption can be rotated on the right side of the right object part or under the right part.

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

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

21.1 doubleFULLPAGE

The scaling of the image is left to the user. If the proportion of the object doesn’t fit $2\text{\paperwidth}/\text{\paperheight}$, then there can be a white part on the top or bottom of the object. A pagename 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.

```latex
\hvFloat{doubleFULLPAGE,capPos=right,capAngle=90}
\includegraphics[width=2\paperwidth]{images/r+j2}

(A doublepage image with a caption on the image.)

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

The parameter is \texttt{doubleFULLPAGE}

{fig:doubleFULLPAGE0}

Fig. 57
```

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

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

53
Figure 57: A caption for a double-sided image that will be placed on the right-hand part of the illustration. The illustration begins on the left edge of the paper. No further text is placed on the pages. A short form is used for the LOF. The parameter is doubleFULLPAGE.
And after the second paragraph follows the third paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

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

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

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

In the following example 60 the caption is on page 70, the left image part on page 68 and the right part on page 69. In the following example 61 the caption is on page 71, the left image part on page 72 and the right part on page 73. All three labels points to the same figure or table number:

\begin{figure}
\centering
\includegraphics[doubleFULLPAGE,keepaspectratio=false]{images/rheinsberg-1000}
\caption{A caption for a double-sided image that will be placed after the image. The image begins on the left edge of the paper. No further text is placed on the pages. A short form is used for the LOF. The parameter is doubleFULLPAGE}
\end{figure}

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Figure 60: A caption for a double-sided image that will be placed after the image. The image begins on the left edge of the paper. No further text is placed on the pages. A short form is used for the LOF. The parameter is doubleFULLPAGE
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**Figure 61:** A caption for a double-sided image that will be placed before the image. The image begins on the left edge of the paper. No further text is placed on the pages. A short form is used for the LOF. The parameter is `doubleFULLPAGE`
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21.2 doublePAGE

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

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

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

```latex
\hvFloat[doublePage,sameHeight]
\{figure\}
\{\includegraphics[doublefullPage]{images/sonne-meer}\}
[A doublepage image with a caption on the right side of the right part.]
[A caption for a double-sided image that will be placed on the right side of the right-hand part of the illustration. The illustration begins on the left edge of the paper. A short form is used for the LOF.]
The parameter is \texttt{doublePage}\%\}
\{fig:doublePage0sH\}
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Figure 63: A caption for a double-sided image that will be placed on the right side of the right-hand part of the illustration. The illustration begins on the left edge of the paper. A short form is used for the LOF. The parameter is doublePage

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

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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.

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

```latex
\begin{tabular}{l*{18}r}
\toprule
\midrule
\end{tabular}
```
21.4 Tabulars

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| Zeile 1 | 1 | 3 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Zeile 2 | 1 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Zeile 3 | 2 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Zeile 4 | 1 | 0 | 5 | 1 | 2 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 |
| Zeile 6 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |
| Zeile 5 | 0 | 0 | 4 | 2 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| Zeile 8 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Zeile 9 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Zeile 10 | 1 | 0 | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Zeile 11 | 0 | 2 | 2 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Zeile 12 | 2 | 0 | 2 | 4 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lärm | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Zeile 13 | 1 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Zeile 14 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Zeile 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Zeile 16 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Artikel gesamt | 2 | 6 | 13 | 8 | 4 | 3 | 5 | 4 | 0 | 6 | 3 | 0 | 0 |

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And after the second paragraph follows the third paragraph. Hello, here is some text.
Table 9: A caption for a double-sided tabular that will be placed on the right side of the right-hand part of the illustration. The illustration begins on the left edge of the paper. A short form is used for the LOF. The parameter is doublePage

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5 23 10 8 15 13 1

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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 reference to the page where the object is set. Let’s assume that we use something like

\hVFloatSetDefaults
\hVFloat[fullpage,capPos=evenPage]{figure}\%
\{\IncludeGraphics\text{images/frose}}\%
23 Defining a style

[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)

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

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

The caption of figure 67 is on page 94, but the image itself is on page 95. With package `varioref` it is:

With 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 floating object and not the caption page number which is\vpageref{demo:fullpage-cap}.

The figure\ref{demo:fullpage} is on page\pageref{demo:fullpage} and the caption on page\pageref{demo:fullpage-cap}

With the package `varioref` (\url{https://ctan.org/pkg/varioref}) one can get something like: see figure 67 on page 95, which uses a correct page number of the floating object and not the caption pagenumber which is on page 94. The figure 67 is on page 95 and the caption on page 94

23 Defining a style

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

\begin{verbatim}
\hvDefFloatStyle{name}{setting}
\end{verbatim}

For example:

\begin{verbatim}
\hvDefFloatStyle{RightCaption}{floatPos=htb, capWidth=0.5, capPos=after, capVPos=bottom, objectPos=center}
\hvFloat[style=RightCaption]{figure}{\includegraphics{images/rose}}
\end{verbatim}

\texttt{Caption vertically centered right beside the float with a caption width of 0.5\textbackslash columnwidth.}

\textbf{Figure 66:} Caption at bottom right beside the float with a caption width of 0.5\textbackslash columnwidth.
24 Global float setting

Instead of writing the following sequence into the preamble:

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

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

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

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

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

%% $Id: hvfloat.sty 453 2022-02-28 14:50:24Z herbert $
%%
%% IMPORTANT NOTICE:
%% This is file `hvfloat.sty',
%% Herbert Voss <hvoss@tug.org>
%% This program can be redistributed and/or modified under the terms
%% of the LaTeX Project Public License Distributed from CTAN archives
%% in directory macros/latex/base/lppl.txt.
%% DESCRIPTION:
%% `hvfloat' offers rotating of captions and objects for floats
%%
%\NeedsTeXFormat{LaTeX2e}
%\ProvidesPackage{hvfloat}\[
\filedate space v\fileversion space special floating objects (hv)]
%\let\hvFloatFileVersion\fileversion
%
%\newif\ifhv@fbox \hv@fboxfalse
%\newif\ifhv@hyperref \hv@hyperreffalse
%\newif\ifhv@nostfloats \hv@nostfloatstrue
%\newif\ifhv@tugboat \hv@tugboatfalse
%
%\DeclareOption{fbox}{\hv@fboxtrue\setlength{\fboxsep}{1pt}}
%\DeclareOption{hyperref}{\hv@hyperreftrue}
%\DeclareOption{nostfloats}{\hv@nostfloatstrue}
%\DeclareOption{no-stfloats}{\hv@nostfloatstrue}
%
%\ProcessOptions
%
%\PassOptionsToPackage{hypcap}{caption}
%\RequirePackage{caption}
%\RequirePackage{varwidth}
%
%\PassOptionsToPackage{hypcap}{subcaption}
%\RequirePackage{subcaption}
%\RequirePackage{atbegshi}
%\RequirePackage{picture,trimclip}
%\RequirePackage{expl3,multido}
%\RequirePackage{graphicx}
%\RequirePackage{varwidth}
%
%\RequirePackage{xkeyval}
%\RequirePackage{ifoddpage}
%\RequirePackage{afterpage}
%\ifhv@hyperref
%\RequirePackage{hyperref}
%\fi
%\ifhv@nostfloats\else
%\RequirePackage{stfloats}\% for bottom floats in a twocolumn mode
%\fi
%
%\providecommand\LenToUnit[1]{\strip@pt\dimexpr#1*@\unitlength}
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\newlength{hvCapWidth}
\newlength{hvWideWidth}
\newlength{hvMultiFloatSkip}
\newlength{hvMaxCapWidth}
\AtBeginDocument{
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\newsavebox{hvObjectBox}
\newsavebox{hvCaptionBox}
\newsavebox{hvBox}
\newsavebox{@tempbox}
\newsavebox{hv@caption@box}
\newsavebox{hv@leftBox}
\newsavebox{hv@rightBox}
\newif\ifhv@capbeside \hv@capbesidefalse
\newif\ifhv@switchType
\def{hv@Top}{top}
\def{hv@Bottom}{bottom}
\def{hv@After}{after}
\def{hv@Before}{before}
\def{hv@Left}{left}
\def{hv@Center}{center}
\def{hv@Outer}{outer}
\def{hv@Inner}{inner}
\def{hv@Even}{evenPage}
\def{hv@Odd}{oddPage}
\def{hv@Natural}{n}
\def{hv@Width}{w}
\def{hv@Height}{h}
\def{hv@Zero}{0}
%\def{hv@figure}{figure}
\define@key{hvSet}{floatPos}[tbp]{% LaTeX's position parameters htbp
   \def{hvSet@floatPos}{#1} %}
\define@key{hvSet}{rotAngle}[0]{% rotates caption AND image together
   \def{hvSet@rotAngle}{#1} %}
\define@key{hvSet}{capWidth}[n]{% (n)atural width|object (w)idth)|object (h)eight|<scale of \columnwidth>
   \def{hvSet@capWidth}{#1} %}
\define@key{hvSet}{capAngle}[0]{% -360..+360, only integers
   \def{hvSet@capAngle}{#1} %}
\define@choicekey*+{hvSet}{capPos}[\val\nr][bottom,top,left,before,right,after,inner,outer,evenPage,oddPage][bottom]{% it is relativ to the object, (e),(d) only valid for fullpage float
   \ifcase\nr 
   \relax
   \else
   \else
  \fi}
\define@choicekey*+{hvSet}{capVPos}[\val\nr][bottom,center,top]{% it is relativ to the object
   \ifcase\nr 
   \relax
   \else
   \else
  \fi}
\PackageWarning{hvfloat}{erroneous input (#1) for capPos ignored. Using bottom.} %
\def{hvSet@capPos}{bottom} % it is relativ to the object, (e),(d) only valid for fullpage float
\ifcase\nr 
\relax
\else
\else
\fi
\def{hvSet@capVPos}{bottom} % it is relativ to the object
\ifcase\nr 
\relax
\else
\else
\fi
\ifcase
  \def\hv@capVPos{b}
\or
  \def\hv@capVPos{c}
\else
  \def\hv@capVPos{t}
\fi
{% PackageWarning{hvfloat}{erroneous input (#1) for capVPos ignored. Using center.}
\def\hvSet@capVPos{center}
% it is relativ to the object
%
\define@choicekey*+{hvSet}{capHPos}{\val}{\left,\center,\right}{\center}{% PackageWarning{hvfloat}{erroneous input (#1) for capHPos ignored. Using center.}
\def\hvSet@capHPos{center}
% it is relativ to the object
%
\define@choicekey*+{hvSet}{objectPos}{\val}{\left,\center,\right,\inner,\outer}{\center}{% PackageWarning{hvfloat}{erroneous input (#1) for objectPos ignored. Using center.}
\def\hvSet@objectPos{center}
% it is relativ to the object
%
\define@key{hvSet}{objectAngle}{0}{% -360..+360
\def\hvSet@objectAngle{#1}
%
\define@key{hvSet}{floatCapSep}{5pt}{% a width with the unit pt
\def\hvSet@floatCapSep{#1}
%
\define@key{hvSet}{multiFloatSkip}{\normalbaselineskip}{% a width with the unit pt
\setlength\hvMultiFloatSkip{#1}
%
\define@boolkey{hvSet}[hv@]{useOBox}{true}{% use of the hvBox contents
\define@boolkey{hvSet}[hv@]{nonFloat}{true}{% Do not use float environment
\define@boolkey{hvSet}[hv@]{onlyText}{true}{% Write the caption only as text
\define@boolkey{hvSet}[hv@]{twoColumnCaption}{true}{\global@nameuse{hv@twoColumnCaption#1}{}}% Write the caption only as text
\define@boolkey{hvSet}[hv@]{sameHeight}{true}{\global@nameuse{hv@sameHeight#1}{}}% Write the caption only as text
\define@boolkey{hvSet}[hv@]{Debug}{true}{% give more infos in the terminal
\ifhv@fullpage
\ifhv@FULLPAGE
\ifhv@doubleFULLPAGE
\ifhv@doublePage
\ifhv@setObjectLabel
\ifhv@global@sameHeight
\ifhv@forceOutput
\newlength\hvSet@bindCorrection
\newlength\hvSet@sepLineskip
\newlength\hv@leftPageObjectWidth% for doublepage images
\newlength\hv@temWidthA
\newlength\hv@temWidthB
\newlength\hv@minTextlines
\newlength\hv@floatCapSep
\newlength\hvSet@bindCorr
\newif\ifhv@fullpage
\newif\ifhv@FULLPAGE
\newif\ifhv@doubleFULLPAGE
\newif\ifhv@doublePage
\newif\ifhv@setObjectLabel
\newif\ifhv@global@sameHeight
\newif\ifhv@forceOutput
\newif\ifhv@fullpage
\newif\ifhv@FULLPAGE
\newif\ifhv@doubleFULLPAGE
\newif\ifhv@doublePage
\newif\ifhv@setObjectLabel
\newif\ifhv@global@sameHeight
\newif\ifhv@forceOutput

\define@key{hvSet}{fullpage}{true}{\global@nameuse{hv@fullpage#1}{}}
\define@key{hvSet}{FULLPAGE}{true}{\global@nameuse{hv@FULLPAGE#1}{}}
\define@key{hvSet}{doubleFULLPAGE}[true]{\global\@nameuse{hv@doubleFULLPAGE#1}hv@doublePagefalse}

\define@key{hvSet}{doublePage}[true]{\global\@nameuse{hv@doublePage#1}hv@doubleFULLPagefalse}

\define@key{hvSet}{bindCorr}[0pt]{\%}

\def\hv@temp{#1}\
\ifx\hv@temp\hv@Inner\setlength\hvSet@bindCorr{\dimexpr1\textwidth+oddsidemargin}
\else\setlength\hvSet@bindCorr{#1}\fi

\define@boolkey{hvSet}{subFloat}[true]{\ifhv@subFloat\setkeys{hvSet}{multiFloat=false}\fi}
\define@boolkey{hvSet}{multiFloat}[true]{\ifhv@multiFloat\setkeys{hvSet}{subFloat=false}\fi}

\define@boolkey{hvSet}{vFill}[true]{}

\define@boolkey{hvSet}{separatorLine}[true]{}

\define@key{hvSet}{sepLineskip}{\def\hv@sepLineskip{#1}}

\define@key{hvSet}{minTextlines}{\setlength\hv@minTextlines{#1\baselineskip}}

\define@boolkey{hvSet}{objectFrame}[true]{}

\define@key{hvSet}{style}{\@ifundefined{hv@#1}{\errmessage{Custom style `#1' undefined}}{\begingroup\edef\x{endgroup\noexpand\setkeys{hvSet}{\@nameuse{hv@#1}}}}}

\define@key{hvSet}{capFormat}{\def\hv@caption@format{#1}}
\define@key{hvSet}{subcapFormat}{\def\hv@subcaption@format{#1}}

\define@boolkey{hvSet}{forceOutput}[true]{}

\def\hv@set#1{\begingroup\edef\x{\endgroup\noexpand\setkeys{hvSet}{\@nameuse{hv@#1}}}}% use a defined style

\def\defhvstyle#1#2{\@namedef{hv@#1}{#2}}% better name

\newcommand\setDefaults{hv@set{\%}
floatPos=, rotAngle=0, capWidth=n, capAngle=0, objectAngle=0,
capPos=bottom, capVPos=center, objectPos=center, capHPos=center,
floatCapSep=5pt, useOBox=false,
onlyText=false, wide=false, fullpage=false, FULLPAGE=false,
doubleFULLPage=false, doublePage=false, doublePage=false,
multiFloat=false, subFloat=false,
separatorLine, objectFrame=false, multiFloatSkip=normalbaselineskip,
capFormat={}, subcapFormat={}, twoColumnCaption=false,
sameHeight=false,
bindCorr=\%2, sepLineskip=0pt,
vfill=false, minTextlines=2,
forceOutput=false, nonFloat=false,
}\let\hvFloatSetDefaults\setDefaults% only for first loading of the package
\newcommand\hvTypeout[1]{\ifhv@Debug\typeout{\%}
}
\providecommand@tugclass{\@empty}
\if\@tugclass\@empty
\else
\hv@tugboattrue % special page handling
\hv@typeout{>>> we are using a TUGboat class}\
\fi
\newcommand\reset@special@float{
\hv@set{subFloat=false,
%fullpage=false,
multiFloat=false,
%FULLPAGE=false}
}
\def\hv@vskip{\vspace{\hvMultiFloatSkip}}
\newlength\hvAboveCaptionSkip
\newlength\hvBelowCaptionSkip
\newlength\hv@dblfptop
\newlength\hv@fptop
\newcount\hv@@capPos
\newlength\fboxlinewidth
\AtBeginDocument{
\setlength\fboxlinewidth{\dimexpr\linewidth\relax-2\fboxrule\relax-2\fboxsep\relax}%
\setlength\belowcaptionskip{\abovecaptionskip} % it is in latex.ltx = 0pt
\newcommand\saveCaptionSkip{
\setlength{\hvAboveCaptionSkip}{\abovecaptionskip}
\setlength{\hvBelowCaptionSkip}{\belowcaptionskip}
\setlength{\abovecaptionskip}{0pt}
\setlength{\belowcaptionskip}{0pt}
}
\newcommand\restoreCaptionSkip{
\setlength{\abovecaptionskip}{\hvAboveCaptionSkip}
\setlength{\belowcaptionskip}{\hvBelowCaptionSkip}
}
\newcommand\hv@set@noverticalSpace{
% no space on top for a float page
\let\hv@dblfptop\@dblfptop
\let\hv@fptop\@fptop
\global\setlength{\@dblfptop}{0\p@}
%\global\setlength{\@fptop}{0\p@}
}
\newcommand\hv@reset@noverticalSpace{
%\global\setlength{\@dblfptop}{\hv@dblfptop}
%\global\setlength{\@fptop}{\hv@fptop}
}
\providecommand\figcaption[2][\@empty]{
\begin{figure}
\if\relax\@captype\relax\else\expandafter\captionsetup\expandafter{\@captype}\fi
\if\relax\@captype\relax\else\caption{\@captype}{#1}{#2}\fi
\end{figure}
}
\providecommand\tabcaption[2][\@empty]{
\begin{table}
\if\relax\@captype\relax\else\captionsetup{position=top}\fi
\if\relax\@captype\relax\else\caption{\@captype}{#1}{#2}\fi
\end{table}
}
\providecommand\tabcaptionbelow[2][\@empty]{
\begin{table}
\if\relax\@captype\relax\else\captionsetup{position=below}\fi
\if\relax\@captype\relax\else\caption{\@captype}{#1}{#2}\fi
\end{table}
}
\begin{thebibliography}{10}
\expandafter\captionsetup\expandafter\relax\caption{#2}{#1}
\ifx\relax#1\relax\caption{#2}\else\caption{#1}{#2}\fi
\endgroup

\renewcommand{\caption@format,position=below}
\ifx\relax#1\relax\caption{#2}\else\caption{\texttt{#1}}{#2}\fi
\endgroup
\captionsetup{position=below}
\end{thebibliography}

\newcommand{\put@CaptionBox}{\ifcase#1\if\hv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}\else\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}\fi\else\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}\else\raisebox{-\height}{\usebox{\hvCaptionBox}}\fi}

\renewcommand{\IncludeGraphics}{\vspace{\dimexpr-1in-\voffset+\topskip-0.5\baselineskip}}
\leavevmode\checkoddpage\ifoddpage\hspace*{\dimexpr-\oddsidemargin-1in-\evensidemargin}\else\hspace*{\dimexpr-\oddsidemargin-\parindent-1in}\fi}
\if\noindent\includegraphics[#1,\textwidth=\paperwidth\htextwidth\paperheight,\keepaspectratio=false]{#2}\fi
\begin{document}
\newcommand{\put@CaptionBox}{\if\hv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}\else\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}\fi\else\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}\else\raisebox{-\height}{\usebox{\hvCaptionBox}}\fi}
\renewcommand{\IncludeGraphics}{\vspace{\dimexpr-1in-\voffset+\topskip-0.5\baselineskip}}
\leavevmode\checkoddpage\ifoddpage\hspace*{\dimexpr-\oddsidemargin-1in-\evensidemargin}\else\hspace*{\dimexpr-\oddsidemargin-\parindent-1in}\fi}
\if\noindent\includegraphics[#1,\textwidth=\paperwidth\htextwidth\paperheight,\keepaspectratio=false]{#2}\fi
\end{document}
\or \ifhv@fbox \fbox{\usebox{\hlCaptionBox}} \else \usebox{\hlCaptionBox} \fi
\fi
\newcommand{\put@ObjectBox}[1][0]{%
\ifcase1
\ifhv@fbox
\parbox{\wd{\hlObjectBox}}{\usebox{\hlObjectBox}}%
\else
\parbox{\wd{\hlObjectBox}}{\ifhv@objectFrame\frame{\usebox{\hlObjectBox}}\else\usebox{\hlObjectBox}\fi}
\fi
\or \ifhv@fbox
\raisebox{-\height}{\usebox{\hlObjectBox}}%
\else
\raisebox{-\height}{\ifhv@objectFrame\frame{\usebox{\hlObjectBox}}\else\usebox{\hlObjectBox}\fi}
\fi
\or \ifhv@fbox
\usebox{\hlObjectBox}%
\else
% rotated object with a depth need to raise up the \depth
\ifhv@objectFrame\frame{\usebox{\hlObjectBox}}\else\raisebox{\depth}{\usebox{\hlObjectBox}}\fi
\fi
\fi
%
\def\drawSepLine{
\par\noindent
\if@twocolumn
\ifhv@twoColumnCaption
\rule{\linewidth}{0.4pt}\[-2.5ex]
\else
\rule{\columnwidth}{0.4pt}\[-2.5ex]
\fi
\else
\rule{\linewidth}{0.4pt}\[-2.5ex]
\fi
\vspace{\hv@sepLineskip}
}
\newcounter{hv@tempCNTfigA}
\newcounter{hv@tempCNTfigB}
\newcounter{hv@tempCNTtabA}
\newcounter{hv@tempCNTtabB}
\newcounter{hv@pfigure}
\newcounter{hv@ptable}
\newcounter{subhv@pfigure}
\newcounter{subhv@ptable}
\newif\ifhv@star
\newif\ifhv@substar
\setDefaults
%\newcommand*{hvFloat}[5]{%
% #1: keyvalues
% #2: type figure | table | ...
% #3: float contents
% #4: short caption
% #5: caption
% #6: label
%}
\def\hvFloat{\ifnextchar*\% Main macro
\begin{group}
\setlength\hvWideWidth{\dimexpr columnwidth+marginparwidth+marginparsep}\% \setlength\hvWideWidth{\dimexpr textwidth+marginparwidth+marginparsep}\% \setlength\hvWideWidth{\dimexpr linewidth+marginparwidth+marginparsep}\% \setlength\hvWideWidth{\textwidth}
\reset@special@float
\global\setcounter{hv@pfigure}{value{figure}}\% \global\setcounter{hv@ptable}{value{table}}\% \setcounter{hv@tempCNTfigA}{value{figure}}\% \setcounter{hv@tempCNTfigB}{value{figure}}\% \setcounter{hv@tempCNTtabA}{value{table}}\% \setcounter{hv@tempCNTtabB}{value{table}}\%
\gdef\hv@save@setting{#1} % for later use after \endgroup inside figure/table env
\ifx#1relax\else\setkeys{hvSet}{#1}\fi
\ifx\hv@caption@format\@empty\else\captionsetup{expandafter\@empty\captionsetup\expandafter{\hv@caption@format}}\fi
\ifx\hv@subcaption@format\@empty\else\captionsetup{expandafter\@empty\captionsetup\expandafter{\[\expandafter\@empty\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter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\def@tempa{90} %
\ifx\hvSet@rotAngle@tempa
\setlength\hvMaxCapWidth{|\textwidth} %
\else
\setlength\hvMaxCapWidth{|\hvWideWidth} \fi
% First we save the object in \hvObjectBox
% \iftmp@objectAngle=0, rotate the object?
\if\hv@useOBox
\let\hvObjectBox@OBox
\else
\savebox\hvObjectBox{\hv@floatObject} \fi
\else
\savebox\hvObjectBox{\rotatebox{\hvSet@objectAngle}{\if\hv@useOBox
\usebox\hvOBox\else\hv@floatObject\fi}} \fi
\setlength\hvObjectWidth{|\wd\hvObjectBox} %
% Now we save the caption with its defined \hvCapWidth
% \iftmp@capWidth=objectwidth
\if\hvSet@capWidth=\hv@Width % captionwidth=objectwidth
\setlength\hvCapWidth{|\hvObjectWidth} \else
\if\hvSet@capWidth=\hv@Height % captionwidth=objectheight
\setlength\hvCapWidth{|\ht\hvObjectBox} \else
\if\hvSet@capWidth=\hv@Natural % captionwidth=linewidth-objectwidth-separation
\if\hv@capbeside
\if\hv@wide
\setlength\hvCapWidth|{\the\dimexpr\hvWideWidth-\hvObjectWidth-\hv@floatCapSep\relax} \else
\if\hv@star
\setlength\hvCapWidth|{\the\dimexpr\textwidth-\hvObjectWidth-\hv@floatCapSep\relax} \else
\setlength\hvCapWidth|{\the\dimexpr\linwidth-\hvObjectWidth-\hv@floatCapSep\relax} \fi
\fi
\else
\setlength\hvCapWidth|{|\columnwidth} \fi
\else
\if\hv@capbeside
\if\hv@wide
\setlength\hvCapWidth|{|\the\dimexpr\hvWideWidth|\hvObjectWidth-\hv@floatCapSep|\relax} \else
\if\hv@star
\setlength\hvCapWidth|{|\the\dimexpr\textwidth-\hvObjectWidth-\hv@floatCapSep\relax} \else
\setlength\hvCapWidth|{|\the\dimexpr\linwidth-\hvObjectWidth-\hv@floatCapSep\relax} \fi
\fi
\else
\setlength\hvCapWidth|{|\columnwidth} \fi
\else
\setlength\hvCapWidth|{|\columnwidth} \fi
\else
\if\hv@capbeside
\if\hv@wide
\setlength\hvCapWidth|{|\the\dimexpr\hvWideWidth|\hvObjectWidth-\hv@floatCapSep|\relax} \else
\if\hv@star
\setlength\hvCapWidth|{|\the\dimexpr\columnwidth-\hvObjectWidth-\hv@floatCapSep\relax} \else
\setlength\hvCapWidth|{|\columnwidth} \fi
\fi
\else
\setlength\hvCapWidth|{|\columnwidth} \fi
\else
\setlength\hvCapWidth|{|\columnwidth} \fi
\fi
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\fi
\fi
\fi
\fi
\saveCaptionSkip% we put this space ourselve
\ifnum\hv@set@capAngle=0 % need rotation?
  \savebox\hvCaptionBox{% NO rotation
    \minipage[b]{\hv@capWidth}% minipage, to get hyphenation
      \ifx\relax\hv@caption@format\relax\else\captionsetup{\hv@caption@format}\fi
      \ifhv@onlyText
        \ hv@longCap
      \else\fi
      \if\hv@figure\relax\hv@shortCap\relax
        \figcaption[\hv@shortCap]{\hv@longCap}{\ifx\@empty\hv@label\fi]%
      \else\fi
      \figcaption[\hv@longCap]{\hv@shortCap}{\ifx\@empty\hv@label\fi}%
    \fi
  \else\fi
  \ifhv@onlyText
    \ hv@longCap
  \else\fi
  \let@captype\hv@floatType
  \if\hv@shortCap\@empty\caption[\hv@longCap]{\hv@shortCap}{\ifx\@empty\hv@label\fi} \else\fi
  \if\hv@longCap\@empty\label{\hv@label}\fi
  \fi
\endminipage
% now we have the object and the caption with the right
% rotated angles saved in different boxes
% save old values
% \def\fps@figure{\hvSet@floatPos}\empty % use type default
% \if\namedef{fps@\hv@floatType}{\hvSet@floatPos}\fi
% if\hv@nonFloat\noindent\begingroup% Start the nonfloat part\else
% if\hv@star\ifx\hvSet@floatPos\hv@floatBottom
% \nameuse{\hv@floatType*}[b]% Start the floating environment ****************************
% \else\nameuse{\hv@floatType*}%
% \fi\else
% begin{\hv@floatType}% Start the floating environment\fi\checkoddpage% ifx\hvSet@objectPos\hv@Right\raggedleft\fi
% ifx\hvSet@objectPos\hv@Center\fi
% if\hv@nonFloat\hspace{\fill}\else\centering\fi\fi
% ifoddpage\raggedleft\fi
% ifx\hvSet@objectPos\hv@Outer\ifoddpage\raggedleft\fi
% ifx\hvSet@objectPos\hv@Inner\ifoddpage\else\raggedleft\fi
% \begin{\hv@floatType}% Start the floating environment\fi\checkoddpage
% ifx\hvSet@capPos\hv@Left\hv@@capPos=0
% \else\hv@@capPos=1\else\hv@@capPos=2\else\hv@@capPos=3\else\hv@@capPos=0\else\hv@@capPos=2\fi\fi
% \else\hv@@capPos=0\fi% same as capPos=right
% \else\hv@@capPos=2\fi% same as capPos=right
% \else\hv@@capPos=0\fi% even page (left=0) | odd page (oneside) (right=2)
% \else\hv@@capPos=2\fi% same as capPos=right
% \else\hv@@capPos=0\fi% even page (left=0) | odd page (oneside) (right=2)
% \else\hv@@capPos=2\fi% same as capPos=right
% \else\hv@@capPos=0\fi% even page (left=0) | odd page (oneside) (right=2)
\begin{minipage}{wd\hvObjectBox}
% \fi
\ifx\hvSet@capHPos\hvLeft% horizontal justification
  \raggedright
\else
  \ifx\hvSet@capHPos\hvCenter
   \centering
  \else
   \raggedleft
  \fi
\fi
\ifhv@fbox
  \fbox{\usebox{\hvObjectBox}}\[0.5\hvAboveCaptionSkip]
% \fi
\else
  \ifx\objectFrame\frame{\usebox{\hvObjectBox}}\else\usebox{\hvObjectBox}\fi\[0.5\]
  \ifhvAboveCaptionSkip
  \usebox{\hvCaptionBox}
  \else
    \usebox{\hvObjectBox}
  \fi
% \fi
\fi
\if\hv@fbox
  \fbox{\usebox{\hvCaptionBox}}
\else
  \usebox{\hvCaptionBox}
\fi
\end{minipage}
% \fi
% \ifcase\the\hv@@capPos}
% End savebox Object and caption %%%%%%%%%%%%%%%%% @tempboxa
% \fi
% now we rotate the object and caption, if needed
\ifhv@wide
  \ifoddpageoroneside
    \if@twocolumn
      \if@firstcolumn
        \noindent
        \hspace*{\fill}
        % oddpage first column
      \fi
\fi
% \else
% \fi
\else
  \ifoddpage
    \if@twocolumn
      \if@firstcolumn
        \noindent
        \hspace*{\fill}
% <- for wide and left page
      \fi
    \fi
  \fi
% \else evenpage
  \if@firstcolumn
    \noindent
    \hspace*{\fill}
    % <- for wide and left page
  \fi
\fi
% \fi
% \fi
\ifx\hvSet@rotAngle\hvZero
  \usebox{@tempboxa}
\else
  \rotatebox{\hvSet@rotAngle}{\usebox{@tempboxa}}
\fi
\ifhv@nonFloat
  \ifcase\the\hv@capPos
    % \ifhv@nonFloat
    \hspace*{\fill}
    % \fi
  \fi
\else
  \ifhv@star
    \@nameuse{end\hv@floatType*}
  \else
    \end{\hv@floatType}
  \fi
\fi
\endgroup
% End the nonfloat part
\fi
% else onecolumn
\if@oddpage
  \setPageObject\setBottomCaption
\else
  \afterpage{\setPageObject\setBottomCaption}
\fi
\else
% oneside
\iftwocolumn
  \if@oddpage
    \setPageObject\setBottomCaption
  \else
    \afterpage{\setPageObject\setBottomCaption}
  \fi
\else
  \if@firstcolumn
    \setBottomCaption\setPageObject\setNextPage\setNextColumn
  \else
    \setPageObject\setBottomCaption
  \fi
\fi
\else
% caption on the inner column 4->inner
% \set@caption@object
\iftwocolumn
  \if@oddpage
    \set@firstcolumn\setPageObject\setNextPage\setNextColumn
  \else
    \setPageObject\setBottomCaption\setNextPage\setNextColumn
  \fi
\else
  \if@firstcolumn
    \set@caption@object
  \else
    \afterpage{\set@caption@object}
  \fi
\fi
\else
% caption on the outer column 5->outer
% \set@caption@object
\iftwocolumn
  \if@oddpage
    \afterpage{\set@caption@object}
  \else
    \afterpage{\set@caption@object}
  \fi
\else
  \if@firstcolumn
    \set@caption@object
  \else
    \afterpage{\set@caption@object}
  \fi
\fi
\else
% to-do: !!!!
\fi
\else
% onecolumn
\fi
\fi
\if@firstcolumn
  \ifhv@switchType
    \afterpage{\do@hvFloat@doublePAGECaptionRight(#1)}\%
  \else
    \afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight(#1)}}\%
  \fi
\else
  \ifhv@tugboat
    \do@hvFloat@doublePageCaptionRight(#1)\%
  \else
    \ifhv@switchType
      \do@hvFloat@doublePageCaptionRight(#1)\%
    \else
      \afterpage{\do@hvFloat@doublePageCaptionRight(#1)}\%
    \fi
  \fi
\fi
\else% we have an even page
\if@twocolumn
  \if@firstcolumn
    \ifhv@switchType
      \afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight(#1)}}\%
    \else
      \afterpage{\afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight(#1)}}}\%
    \fi
  \else% second column
    \ifhv@switchType
      \afterpage{\do@hvFloat@doublePAGECaptionRight(#1)}\%
    \else
      \afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight(#1)}}\%
    \fi
  \else% onecolumn
    \ifhv@switchType
      \afterpage{\do@hvFloat@doublePAGECaptionRight(#1)}\%
    \else
      \afterpage{\afterpage{\do@hvFloat@doublePageCaptionRight(#1)}}\%
    \fi
  \fi
\fi
\endgroup% started at main macro \hvFloat
\fi
\def\do@hvFloat@doublePageCaptionRight#1{% image on left and right page with caption on the right page
----------------------------------
\do@hvFloat@doublePageCaptionRightObjectLeft{0pt}\%
\afterpage{\do@hvFloat@doublePageCaptionRightObjectRight(#1)}\%
}
\ifx\h@floatCapSep\empty\else\label{\h@floatCapSep}\fi}
\hspace{\h@floatCapSep}
\rlap{\parbox[b]{\dimexpr\ht\h@rightBox+\dp\h@rightBox+\ht\h@label-cap}{\h@floatObject}}
\ifx\h@shortCap\empty\caption{\h@longCap}\else\caption[\h@shortCap]{\h@longCap}\fi
\ifx\h@label\empty\else\label{\h@label-cap}\fi
\fi
\else% #1 = 0 caption below
\relax\h@shortCap\relax
\else
\caption{\h@longCap}
\fi
\ifx\h@label\empty\else\label{\h@label-cap}\fi
\fi
\vspace{0pt}
\hv@reset@noverticalSpace
\end{\hv@floatType*}
\newsavebox\hv@boxLeftPage
\newsavebox\hv@boxRightPage
\def\do@hvFloat@doublePAGE#1{% image on left and right page with caption on the right
----------------------------------
% #1-> 0/1 caption under/right
\global\setlength{\hv@tempWidthA}{\the\dimexpr1in+\oddsidemargin-\hvSet@bindCorrection}%
\global\setlength{\hv@leftPageObjectWidth}{\the\dimexpr\paperwidth-1in-\evensidemargin-\hvSet@bindCorrection}%
\expandafter\global\expandafter\savebox\expandafter\hvObjectBox\expandafter{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
\expandafter\global\expandafter\savebox\expandafter\hv@boxLeftPage\expandafter{\clipbox*{0 -\depth{} \ht\hvObjectBox}{\usebox{\hvObjectBox}}}%
\expandafter\global\expandafter\savebox\expandafter\hv@boxRightPage\expandafter{\clipbox*{\hv@leftPageObjectWidth{} -\depth{} \width{} \ht\hvObjectBox}{\usebox{\hvObjectBox}}}%
\checkoddpage
\ifoddpage
\if@twocolumn
\if@firstcolumn
\afterpage{\afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight[#1]}}}
\else
\do@hvFloat@doublePAGECaptionRight[#1]
\fi
\else
\do@hvFloat@doublePAGECaptionRight[#1]
\fi
\else
\if@twocolumn
\if@firstcolumn
\afterpage{\afterpage{\afterpage{\afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight[#1]}}}}}
\else
\afterpage{\afterpage{\afterpage{\do@hvFloat@doublePAGECaptionRight[#1]}}}
\fi
\else
\fi
\fi
\def\do@hvFloat@doubleFULLPAGE#1{% image on left and right page with caption before/below/right/after
% #1-> 0/1 caption under/right
\expandafter\hvFloatSet\expandafter{\hv@save@setting}%
ifx\hvSet@capPos\hv@After \global\hv@capPos=1
else
  \ifx\hvSet@capPos\hv@Before \global\hv@capPos=0
  \else
    \global\hv@capPos=2 % other caption type
fi\fi
\checkoddpage
\ifoddpage
  \global\savebox{\hvObjectBox}{\if\hv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}%
  \global\setlength\hv@tempWidthA{\dimexpr-\oddsidemargin-1in-\parindent+\hvSet@bindCorrection}% the
  width of the right side offset
  \global\setlength\hv@tempWidthB{\dimexpr\ht\hvCaptionBox+\wd\hvObjectBox+2\hvSet@bindCorrection}%
  \global\setlength\hv@leftPageObjectWidth{\dimexpr\paperwidth-\ht\hvCaptionBox+\depth\hvObjectBox+2\wd\hvObjectBox}%
  \expandafter\captionsetup\expandafter{\hv@caption@format}%
  \if\oddpage
    \hv@typeout{do@hvFloat@doubleFULLPAGE: ifoddpage=true}
    \ifcase\hv@@capPos
      % =0 Caption before
      \hv@typeout{do@hvFloat@doubleFULLPAGE: caption before}
      \if\@twocolumn
        \hv@typeout{do@hvFloat@doubleFULLPAGE: twocolumn=true}
        \if\@firstcolumn
          \sv@Normal@Bottom@Caption\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
        \else
          \sv@Normal@Bottom@Caption\afterpage{\do@hvFloat@doubleFULLPAGE@CaptionBefore}%
        \fi\fi\fi\fi\fi\fi
  \else\fi
  \else
    \sv@Normal@Bottom@Caption\do@hvFloat@doubleFULLPAGE@CaptionBefore\fi
\fi
\fi\fi
\fi\fi
\fi\fi
\fi\fi
\fi\fi
\fi\fi
\fi\fi
\fi\fi
\fi\fi
\fi\fi
\fi\fi
\fi\fi
\fi\fi
\fi\fi
\fi\fi
\fi\fi
\fi\fi
\textsc{The Package Source}
\begin{HVFloatType*}[p]
\end{HVFloatType*}}

\end{HVFloatType}[p]

\fi
\hfuzz=\maxdimen
\expandafter\HVFloatSet\expandafter{\save@setting}
\vspace*{\the\dimexpr-1in-\voffset-\topmargin-\headheight-\headsep-0.5\baselineskip}
\ifhv@FULLPAGE
\vspace*{\the\dimexpr-1in-\voffset-\topmargin-\headheight-\headsep-0.5\baselineskip}
\checkoddpage
\if@twoside
\ifoddpage
\hspace*{\the\dimexpr-\oddsidemargin-\parindent-1in}
\else
\hspace*{\the\dimexpr-\evensidemargin-\parindent-1in}
\fi
\else
\hspace*{\the\dimexpr-\oddsidemargin-\parindent-1in}
\fi
\AtBeginShipoutNext{\thispagestyle{empty}}
\usebox\hvObjectBox
\ifhv@star
\end{HVFloatType*}
\else
\end{HVFloatType}
\fi
\ExplSyntaxOn
\def\getMultiCaptionAndLabel{%
\global\sbox\hvCaptionBox{\minipage}{\linewidth}
\captionsetup{aboveskip=\z@,belowskip=\z@,position=below,parbox=none}\%\captionsetup{aboveskip=\z@,belowskip=\z@,position=below,parbox=none}\%\captionsetup{aboveskip=\z@,belowskip=\z@,position=below,parbox=none}\%\captionsetup{aboveskip=\z@,belowskip=\z@,position=below,parbox=none}\%\captionsetup{aboveskip=\z@,belowskip=\z@,position=below,parbox=none}\%\captionsetup{aboveskip=\z@,belowskip=\z@,position=below,parbox=none}\%\captionsetup{aboveskip=\z@,belowskip=\z@,position=below,parbox=none}\%
\expandafter\HVFloatSet\expandafter{\save@setting}
\parskip=-0.5\baselineskip

\advance\hv@cntb by \@ne
\hv@cnta=1
\loop
\edef@captype{\clist_item:Nn\clist_Type{\hv@cnta}}
\edef@tempa{\clist_item:Nn\clist_LofCaption{\hv@cnta}}
\ifx@tempa\@empty
\caption{\clist_item:Nn\clist_Caption{\hv@cnta}}
\else
\caption[\@tempa]{\clist_item:Nn\clist_Caption{\hv@cnta}}
\fi
\edef@tempa{\clist_item:Nn\clist_Label{\hv@cnta}-cap}
\ifnum\hv@cnta<\hv@cntb
\repeat
\vspace{-\baselineskip}\% no vspace at the end
\endminipage%
}
\def\getMultiObjectAndLabel{%
\global\sbox\hvObjectBox{\minipage}[b]{\linewidth}
\captionsetup{aboveskip=\z@,belowskip=\z@,position=below,parbox=none}\%\captionsetup{aboveskip=\z@,belowskip=\z@,position=below,parbox=none}\%\captionsetup{aboveskip=\z@,belowskip=\z@,position=below,parbox=none}\%\captionsetup{aboveskip=\z@,belowskip=\z@,position=below,parbox=none}\%\captionsetup{aboveskip=\z@,belowskip=\z@,position=below,parbox=none}\%\captionsetup{aboveskip=\z@,belowskip=\z@,position=below,parbox=none}\%
\expandafter\HVFloatSet\expandafter{\save@setting}
\vspace*{\the\dimexpr-1in-\voffset-\topmargin-\headheight-\headsep-0.5\baselineskip}
\ifhv@vFill
\minipage[b]\[\textheight][s]{\columnwidth}\%\minipage[b]\[\textheight][s]{\columnwidth}\%\minipage[b]\[\textheight][s]{\columnwidth}\%\minipage[b]\[\textheight][s]{\columnwidth}\%\minipage[b]\[\textheight][s]{\columnwidth}\%\minipage[b]\[\textheight][s]{\columnwidth}\%
\else
\minipage[\columnwidth]
\fi
\expandafter\HVFloatSet\expandafter{\save@setting}
if \texttt{x} \texttt{Set} \texttt{objectPos} \texttt{hv@Right} \texttt{raggedleft} \texttt{else}  
\texttt{if} \texttt{x} \texttt{Set} \texttt{objectPos} \texttt{hv@Left} \texttt{raggedleft} \texttt{else}  
\texttt{if} \texttt{x} \texttt{Set} \texttt{objectPos} \texttt{hv@Center} \texttt{centering}  
\texttt{fi} \texttt{fi} \texttt{fi}  
\texttt{hv@cntb} = \texttt{clist_count:N} \texttt{lclist_Type}  
\texttt{advance} \texttt{hv@cntb} by \texttt{\@ne}  
\texttt{hv@cnta} = 1  
\texttt{loop}  
\texttt{def} \texttt{@temp}{\texttt{clist_item:Nn} \texttt{lclist_Object}{\texttt{hv@cnta}}}  
\texttt{if} \texttt{hv@objectFrame}  
\texttt{frame}{\texttt{@temp}}  
\texttt{else}  
\texttt{@temp}  
\texttt{fi}  
\texttt{edef} \texttt{@tempa}{\texttt{clist_item:Nn} \texttt{lclist_Label}{\texttt{hv@cnta}}}  
\texttt{edef} \texttt{@tempb}{\texttt{clist_item:Nn} \texttt{lclist_Type}{\texttt{hv@cnta}}}  
\texttt{edef} \texttt{@captype}{\texttt{hv@p}@texttt{@tempb}}  
\texttt{if} \texttt{\@tempa}\texttt{@empty}  
\texttt{else}  
\texttt{refstepcounter}{\texttt{@captype}}  
\texttt{expandafter}{\texttt{label}}  
\texttt{expandafter}{\texttt{clist_item:Nn} \texttt{lclist_Label}{\texttt{hv@cnta}}}  
\texttt{fi}  
\texttt{ifnum}{\texttt{hv@cnta}<\texttt{clist_count:N} \texttt{lclist_Type}\texttt{par}\texttt{hv@vskip}}  
\texttt{fi}  
\texttt{repeat}  
\texttt{endminipage}  
\texttt{def}{\texttt{getMultiSubCaptionAndLabel}}{}  
\texttt{global sbox}{\texttt{hvCaptionBox}}{}  
\texttt{minipage}{\texttt{\linewidth}}{}  
\texttt{expandafter}{\texttt{hvFloatSet}}\texttt{expandafter}{\texttt{hv@save@setting}}{}  
\texttt{setlength}{\texttt{belowcaptionskip}5pt}{}  
\texttt{setlength}{\texttt{abovecaptionskip}0pt}{}  
\texttt{def}{\texttt{@tempa}{\texttt{clist_item:Nn} \texttt{lclist_Type}1}}  
\texttt{the same for all subfloats}  
\texttt{def}{\texttt{@tempa}{\texttt{clist_item:Nn} \texttt{lclist_LofCaption}1}}{}  
\texttt{def}{\texttt{@tempa}{\texttt{clist_item:Nn} \texttt{lclist_Caption}1}}{}  
\texttt{def}{\texttt{@tempa}{\texttt{clist_item:Nn} \texttt{lclistLabel}1-cap}}{}  
\texttt{endminipage}{}  
\texttt{def}{\texttt{getMultiSubObjectAndLabel}}{}  
\texttt{global sbox}{\texttt{hvObjectBox}}{}  
\texttt{minipage}{\texttt{\linewidth}}{}  
\texttt{expandafter}{\texttt{hvFloatSet}}\texttt{expandafter}{\texttt{hv@save@setting}}{}  
\texttt{setlength}{\texttt{belowcaptionskip}5pt}{}  
\texttt{setlength}{\texttt{abovecaptionskip}0pt}{}  
\texttt{def}{\texttt{@tempa}{\texttt{clist_item:Nn} \texttt{lclist_Object}1}}  
\texttt{the same for all subfloats}  
\texttt{if} \texttt{\@tempa}\texttt{@empty}  
\texttt{else}  
\texttt{expandafter}{\texttt{caption}}  
\texttt{expandafter}{\texttt{clist_item:Nn} \texttt{lclist_Caption}1}{}  
\texttt{endminipage}{}
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\def\getSingleCaptionAndLabel{%
\global\sbox\hvCaptionBox{\minipage{\linewidth}%
\expandafter\hvFloatSet\expandafter{\hv@save@setting}%
\setlength\belowcaptionskip{5pt}%
\setlength\abovecaptionskip{0pt}%
\if\hv@onlyText\else\caption{\hv@longCap}\fi
\else\caption[\hv@shortCap]{\hv@longCap}\fi
\hf@label\empty\else\label{\hv@label-cap}\fi
\endminipage}%
\ExplSyntaxOff
\def\getSingleCaptionAndLabel{%
\global\sbox\hvCaptionBox{\minipage{\linewidth}%
\expandafter\hvFloatSet\expandafter{\hv@save@setting}%
\setlength\belowcaptionskip{5pt}%
\setlength\abovecaptionskip{0pt}%
\if\hv@onlyText\else\caption{\hv@longCap}\fi
\else\caption[\hv@shortCap]{\hv@longCap}\fi
\hf@label\empty\else\label{\hv@label-cap}\fi
\endminipage}%
\def\set@caption@object#1{%
\if\hv@multiFloat
\setcounter{hv@pfigure}{\value{figure}}% 
\setcounter{hv@ptable}{\value{table}}%
\getMultiCaptionAndLabel
\else
\if\hv@subFloat
\setcounter{hv@pfigure}{\value{figure}}% 
\setcounter{hv@ptable}{\value{table}}%
\getMultiSubCaptionAndLabel
\else
\getSingleCaptionAndLabel
\fi
\fi
\fi
\fi
\else\set@caption@object{1}% first caption, then object #1=\hv@floatType
\if\hv@multiFloat
\setcounter{hv@pfigure}{\value{figure}}% 
\setcounter{hv@ptable}{\value{table}}%
\getMultiCaptionAndLabel
\else
\if\hv@subFloat
\setcounter{hv@pfigure}{\value{figure}}% 
\setcounter{hv@ptable}{\value{table}}%
\getMultiSubCaptionAndLabel
\else
\getSingleCaptionAndLabel
\fi
\fi
\fi

\edef\@captype{hv@p#1}%
\ifh@multiFloat
 \getMultiObjectAndLabel
\else
 \ifh@subFloat
 \getMultiSubObjectAndLabel
\else
 \global\sbox\hvObjectBox{%
 \refstepcounter{\@captype}%
 \ifh@objectFrame\frame{\hv@floatObject}\else\hv@floatObject\fi
 \expandafter\ifx\expandafter\relax\hv@label\relax
 \else
 \expandafter\label\expandafter{\hv@label}%
 \fi
 \fi
 \fi
 \fi}
\global\sbox\endinput