Chapter 1

Examples in One Column Document

This example shows floats in one-column document.

Common float settings.

Font for float contents \small*; skips before foot material half reduced; skip between caption above/below and object also half reduced; footnote rule has maximal width1 in (the maximal width defined by* \frulemax *command); separation between beside caption and object equals to 1 em; separation between beside float boxes also equals to 1 em.*

```
\usepackage[font=small,footskip=.65\skip\footins,
   capbesideposition=inside,footnoterule=limited,
   margins=centering,captionskip=5pt,facing=yes,
   capbesidesep=quad,floatrowsep=quad]{floatrow}
```

Common caption settings.

For caption text used \small *font, caption label font bold, separated by period sign, justification centerlast (last line centered).*

```
\usepackage[font=small,labelfont=bf,labelsep=period,
   justification=centerlast]{caption}
```

Common subcaption settings.

Justification centerlast (last line centered). The skip between caption and object enlarged to 7 pt.

```
\usepackage[captionskip=7pt]{subfig}
```

Special settings for float types.

Textbox.

The new float **textbox** *uses special ruled style: there are defined three new options* **textprerule**, **textmidrule**, *and* **textpostrule**. *Please note that, in the case of usage of* **floatrow** *environment where float boxes must be aligned,*

the rule below float must have total height no more than 2 pt to get correct alignment, so first goes compensate vertical space.

```
\DeclareFloatVCode{textprerule}%
  {{\hskip-6pt\vrule depth5ptwidth2pt\hrulefill
    \vrule depth5ptwidth2pt\hspace*{-6pt}}\par\kern-3pt}
\DeclareFloatVCode{textmidrule}%
  {\kern4pt\hrule\kern4pt}
\DeclareFloatVCode{textpostrule}%
  {\par\kern-6pt
   \hbox to\hsize{\hskip-6pt
   \vrule height5ptwidth2pt\hrulefill
   \vrule height5ptwidth2pt\hskip-6pt}\par\relax}

\DeclareFloatStyle{textbox}{style=BOXED,
  frameset={\fboxsep6pt\fboxrule0pt},
  framefit=yes,precode=textprerule,midcode=textmidrule,
  postcode=textpostrule,heightadjust=all}

\DeclareFloatSeparators{textbox}{\kern6pt\vrule\kern6pt}
\DeclareObjectSet{textbox}{\raggedright\parindent15pt\parskip2pt}

\floatsetup[textbox]{style=textbox,capposition=bottom,
   objectset=textbox,capbesidesep=textbox,
   heightadjust=object,valign=t}
```

　　Special settings for special float layout.
　　Rotated.
For rotated floats beside caption placed to right side of object; right side expanded to the top of running head. To delete running head from pages with rotated float was used \emptyfloatpage *macro[1] and loaded* `floatpagestyle` *package.*

```
\DeclareMarginSet{expand}%
   {\setfloatmargins
     {\hfil}
     {\hskip-\headsep\hskip-.7\headheight plus1fil}}
\floatsetup[rotfloat]{capbesideposition=right,margins=expand}
```

　　Beside caption.
There was set of changed \captionsetup *for alignment of beside captions. There was created special justification: the last line of beside caption flushed to object side.*

```
\DeclareCaptionJustification{togglelast}
  {\floatfacing*\rightlast\leftlast}
\captionsetup[floatbeside]{justification=togglelast}
```

_____

[1]In current example the \wideemptyfloatpage command is the synonym.

a

Figure 1.1. Plain figure. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space

<hr>

^{a}Simple footnote

Example of plain `figure` environment (figure ??).

And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space.

Here goes first line of text And more text and some more text and a bit more text and a little more text and a little piece of text to fill space

There goes second line of text

Thence goes third line of text And more text and some more text and a bit more text and a little more text and a little piece of text to fill space

Hence goes fourth line of text

Text 1. Plain textbox. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space

Example of plain `textbox` environment (text ??).

And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space.

Figure 1.2. Plain figure with side caption. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space[a]

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[a]Simple footnote

Example of plain `figure` environment with beside caption (figure ??).

`\thisfloatsetup{capposition=beside}`

And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space.

Figure 1.3. Plain figure with changed width.
And more text and some more text and a bit more
text and a little more text and a little piece of text
to fill space[a]

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[a] *Current* float has width $= 7$ cm.

Example of plain `figure` environment (figure ??) with predefined width.

`\thisfloatsetup{floatwidth=7cm}`

And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space.

Here goes first line of text And more text and some more text and a bit more text and a little more text and a little piece of text to fill space

There goes second line of text

Thence goes third line of text And more text and some more text and a bit more text and a little more text and a little piece of text to fill space

Hence goes fourth line of text

Text 2. Plain text box with predefined width. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space

Example of plain `textbox` environment (box ??) with predefined width inside group.

```
\begingroup
\floatsetup{floatwidth=.7\hsize}
...
\endgroup
```

And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space.

Figure 1.4. Float box (`\ffigbox`) width of graphics. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space

Example of figure placed in `\ffigbox` (`\floatbox` stuff); the width of float box equals to the width of graphics (see figure ??):

```
\begin{figure}
\ffigbox[\FBwidth]
  ...
\end{figure}
```

And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space.

	Here goes first line of text And more text and some more text and a bit more text and a little more text and a little piece of text to fill space
Text 3. Beside caption (in `\tcapside`). The width of object equals to 1.25"column" width. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space	There goes second line of text
	Thence goes third line of text And more text and some more text and a bit more text and a little more text and a little piece of text to fill space
	Hence goes fourth line of text

Example of text box in `\tcapside` command (see box ??) with beside caption.

```
\begin{textbox}
\tcapside[1.25\hsize]
  ...
\end{textbox}
```

text box contents occupy 1.25"column" width.

And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space.

Figure 1.5. Beside caption (in `\fcapside`) with of object equals to width of graphics. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space

Example of figure in `\fcapside` with beside caption (see figure ??). The object box has width of object contents.

And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space.

Text 4. Beside plain caption. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space	Here goes first line of text And more text and some more text and a bit more text and a little more text and a little piece of text to fill space There goes second line of text Thence goes third line of text And more text and some more text and a bit more text and a little more text and a little piece of text to fill space Hence goes fourth line of text

Example of plain text box (see box ??).

`\thisfloatsetup{capposition=beside}`

And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space.

Figure 1.6. Beside plain caption with of object equals to width of graphics. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space

Example of plain figure with beside caption (see figure ??). Both caption and object boxes have 1"column" width.

\thisfloatsetup{capposition=beside}

And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space.

Figure 1.7. Wide beside caption width of object equals to width of graphics. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space

Example of two-column or wide figure with beside caption (see figure ??).

And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space.

	Here goes first line of text And more text and some more text and a bit more text and a little more text and a little piece of text to fill space
Text 5. Wide beside caption width of object box equals to 1.2"column" width. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space	There goes second line of text
	Thence goes third line of text And more text and some more text and a bit more text and a little more text and a little piece of text to fill space
	Hence goes fourth line of text

Example of text box in \tcapside with beside caption (see text box ??)

And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space.

	Here goes first line of text And more text and some more text and a bit more text and a little more text and a little piece of text to fill space
Text 6. Wide beside caption. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space	There goes second line of text
	Thence goes third line of text And more text and some more text and a bit more text and a little more text and a little piece of text to fill space
	Hence goes fourth line of text

Example of plain text box with beside caption (see text box ??)

And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space. And more text and some more text and a bit more text and a little more text and a little piece of text to fill space.