Photo-Album-Like Layouts: Common Height for Beside Photos

This section shows draft examples which where get the common height for rectangular graphics, i.e. photos and in this case the row of these graphics fill full width. To emulate the rectangular photos, graphics were created as rules with different widths and heights.

For creation of such rows you load the `\CommonHeightRow` command:

`\CommonHeightRow{`⟨*supposed height*⟩`}{`⟨*floatrow environment*⟩`}`

with supposed value of height in the first argument, which could be near the necessary common height. The second argument—the contents of the `floatrow` environment. All float boxes in this row must use the `[\FBwidth]` option.

The code of example uses the `\includegraphics` command (graphics or graphicx package).

The example of the code of the filled row with figures with common height:

⟨*preamble*⟩
```
  \usepackage{graphicx}
```
⟨*preamble*⟩

```
\begin{figure*}\fboxsep-.4pt
\CommonHeightRow[2.5cm]{\begin{floatrow}[4]
\ffigbox[\FBwidth]
{\includegraphics[height=\CommonHeight]{...}}{\caption{...}}
\ffigbox[\FBwidth]
{\includegraphics[height=\CommonHeight]{...}}{\caption{...}}
\ffigbox[\FBwidth]
{\includegraphics[height=\CommonHeight]{...}}{\caption{...}}
\ffigbox[\FBwidth]
{\includegraphics[height=\CommonHeight]{...}}{\caption{...}}
\end{floatrow}}
\end{figure*}%
```

Below are few examples.

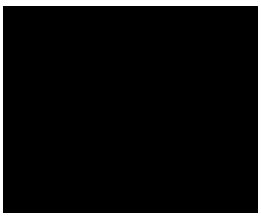


Figure 1

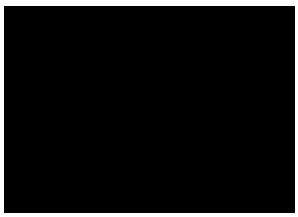


Figure 2

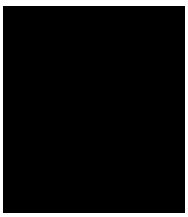


Figure 3

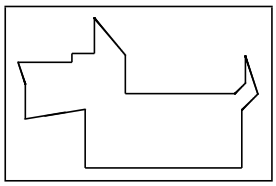


Figure 4

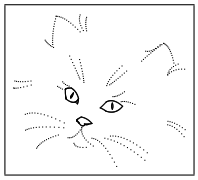


Figure 5

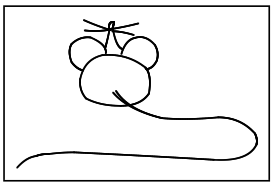


Figure 6

Figure 7

Figure 8

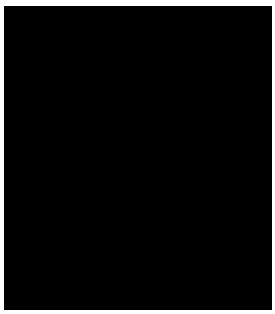


Figure 9

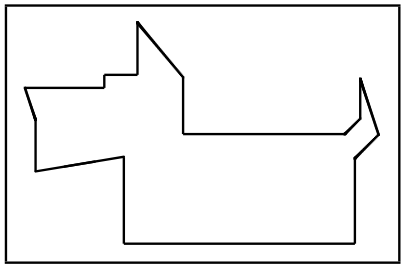


Figure 10

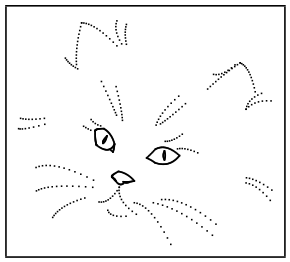


Figure 11

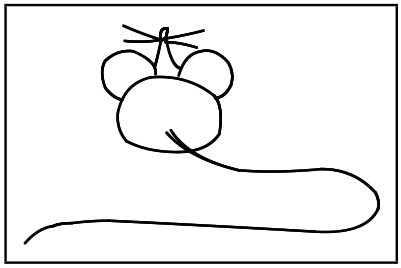


Figure 12

Figure 13

Figure 14

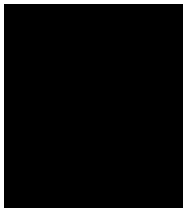


Figure 15

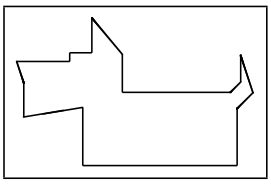


Figure 16

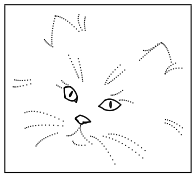


Figure 17

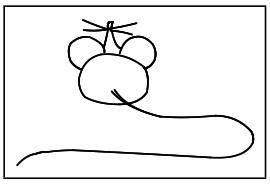


Figure 18

Figure 19

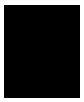


Figure 20

Figure 21

Figure 22

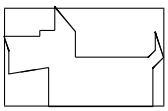


Figure 23

Figure 24

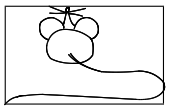


Figure 25

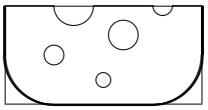


Figure 26

Figure 27

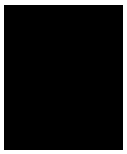


Figure 28

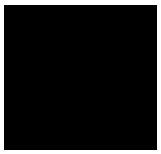


Figure 29

Figure 30

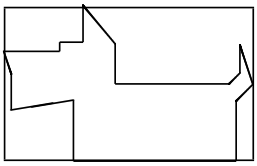


Figure 31

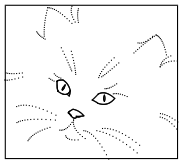


Figure 32

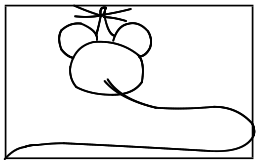


Figure 33

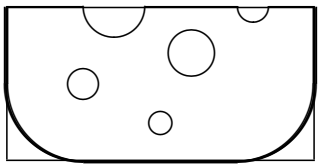


Figure 34

Figure 35

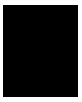


Figure 36

Figure 37

Figure 38

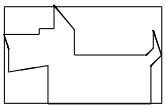


Figure 39

Figure 40

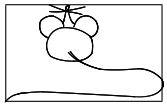


Figure 41

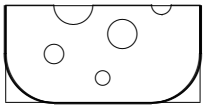


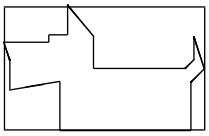
Figure 42

The next example of code is a variation of previous one. The `\CommonHeightRow` command here was used for the `subfloatrow` environment.

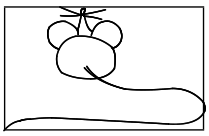
```
⟨preamble⟩
  \usepackage{graphicx}
⟨preamble⟩

\begin{figure*}\fboxsep-.4pt
\ffigbox{}{\CommonHeightRow[.5cm]{\begin{subfloatrow}[4]
\ffigbox[\FBwidth]
{\includegraphics[height=\CommonHeight]{...}}{\caption{...}}
\ffigbox[\FBwidth]
{\includegraphics[height=\CommonHeight]{...}}{\caption{...}}
\ffigbox[\FBwidth]
{\includegraphics[height=\CommonHeight]{...}}{\caption{...}}
\ffigbox[\FBwidth]
{\includegraphics[height=\CommonHeight]{...}}{\caption{...}}
\end{subfloatrow}}\caption{...}}
\end{figure*}%
```

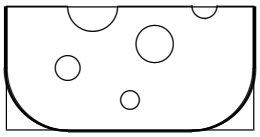
Below are few examples.



a): Figure IA in the row with common heights



b): Figure IIA in the row with common heights



c): Figure IIIA in the row with common heights

d): Figure IVA in the row with common heights

Figure 43: Figure A with a row of parts with common height. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

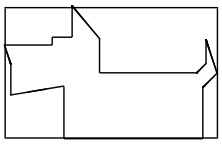
a): Figure IB in the row with common heights

b): Figure IIB in the row with common heights

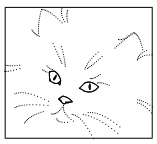
c): Figure IIIB in the row with common heights

d): Figure IVB in the row with common heights

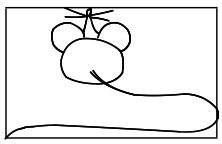
Figure 44: Figure B with a row of parts with common height. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics



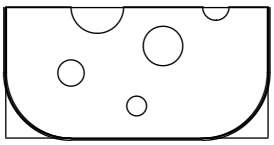
a): Figure IA in the row with common heights



b): Figure IIA in the row with common heights



c): Figure IIIA in the row with common heights



d): Figure IVA in the row with common heights

Figure 45: Figure B with a row of parts with common height. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

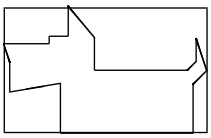
a): Figure IB in the row with common heights

b): Figure IIB in the row with common heights

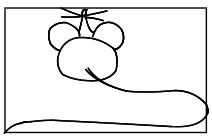
c): Figure IIIB in the row with common heights

d): Figure IVB in the row with common heights

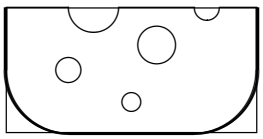
Figure 46: Figure B with a row of parts with common height. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics



a): Figure IA in the row with common heights



b): Figure IIA in the row with common heights



c): Figure IIIA in the row with common heights

d): Figure IVA in the row with common heights

Figure 47: Figure B with a row of parts with common height. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

This example of the code loads labels of parts of figures beside graphics.

⟨*preamble*⟩
```
  \usepackage{graphicx}
```
⟨*preamble*⟩

```
\begin{figure*}\fboxsep-.4pt
\ffigbox{}{\CommonHeightRow{\begin{subfloatrow}[4]\useFCwidth
\fcapside[\FBwidth]
{\includegraphics[height=\CommonHeight]{...}}{\caption{}}
\fcapside[\FBwidth]
{\includegraphics[height=\CommonHeight]{...}}{\caption{}}
\fcapside[\FBwidth]
{\includegraphics[height=\CommonHeight]{...}}{\caption{}}
\fcapside[\FBwidth]
{\includegraphics[height=\CommonHeight]{...}}{\caption{}}
\end{subfloatrow}}\caption{...}}
\end{figure*}%
```

a) b) c) d)

Figure 48: Figure C with a row of parts with common height. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

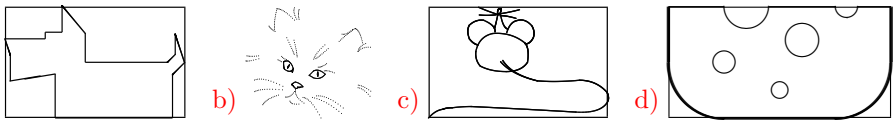


Figure 49: Figure C with a row of parts with common height. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

a) b) c) d)

Figure 50: Figure D with a row of parts with common height. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

a) b) c) d)

Figure 51: Figure D with a row of parts with common height. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

a) b) c) d)

Figure 52: Figure D with a row of parts with common height. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

a) b) c) d)

Figure 53: Figure D with a row of parts with common height. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

The examples with beside figures which also include labeled parts, have bug in calculation. They need predefined height value more close to the necessary common height.

The code of the mixed-level row with labels of parts below.

```
\floatsetup[subfigure]{capbesideposition=left}
\begin{figure*}[H]
\CommonHeightRow*[1.5cm]%
{\begin{floatrow}
\ffigbox[\FBwidth]{}%
{\begin{subfloatrow}
\ffigbox[\FBwidth]{}{\caption{}\label{...}...}
\ffigbox[\FBwidth]{}{\caption{}\label{...}...}
\end{subfloatrow}\caption{Common caption~I}}
\ffigbox[\FBwidth]{}%
{\begin{subfloatrow}
\ffigbox[\FBwidth]{}{\caption{}\label{...}...}
\ffigbox[\FBwidth]{}{\caption{}\label{...}...}
\end{subfloatrow}\caption{...}}
\end{floatrow}}%
\end{figure*}
```

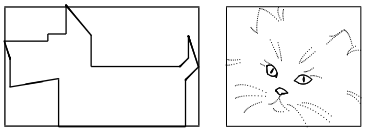
Below are few examples.

a) b)

Figure 54: Common captions Ic. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

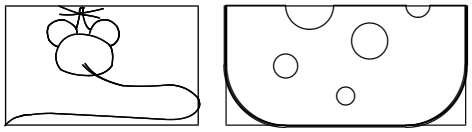
a) b)

Figure 55: Common captions IIc in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics



a) b)

Figure 56: Common captions Ic. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics



a) b)

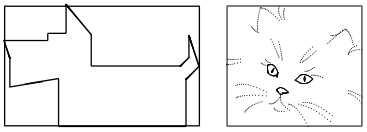
Figure 57: Common captions IIc in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

a) b)

Figure 58: Common captions Id. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

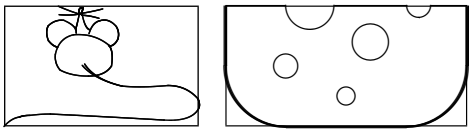
a) b)

Figure 59: Common captions IId in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics



a) b)

Figure 60: Common captions Id. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics



a) b)

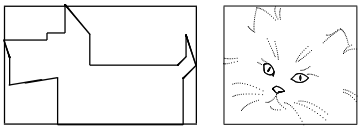
Figure 61: Common captions IId in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

a) b)

Figure 62: Common captions Ie. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

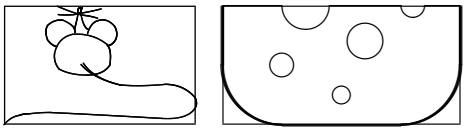
a) b)

Figure 63: Common captions IIe in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics



a) b)

Figure 64: Common captions Ie. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics



a) b)

Figure 65: Common captions IIe in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

The example of the mixed-level row with labels of parts beside.

```
\floatsetup[subfigure]{capbesideposition=left}
\begin{figure*}[H]
\CommonHeightRow*[55pt]%
{\begin{floatrow}
\ffigbox[\FBwidth]{}%
{\begin{subfloatrow}\useFCwidth
\fcapside[\FBwidth]{}{\caption{}\label{...}...}
\fcapside[\FBwidth]{}{\caption{}\label{...}...}
\end{subfloatrow}\caption{Common caption~I}}
\ffigbox[\FBwidth]{}%
{\begin{subfloatrow}\useFCwidth
\fcapside[\FBwidth]{}{\caption{}\label{...}...}
\fcapside[\FBwidth]{}{\caption{}\label{...}...}
\end{subfloatrow}\caption{...}}
\end{floatrow}}%
\end{figure*}
```

Below are few examples.

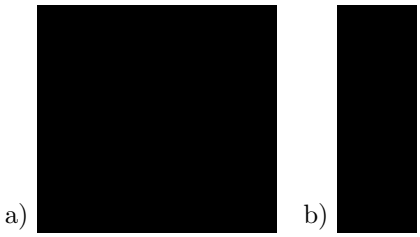


Figure 66: Common captions If. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

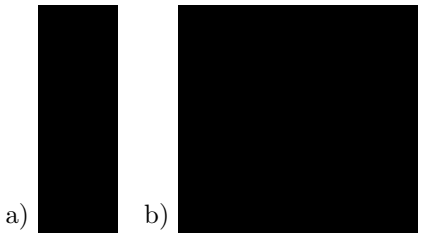


Figure 67: Common captions IIf in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

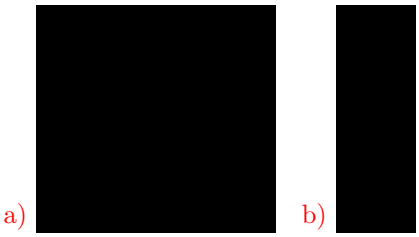


Figure 68: Common captions Ig. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

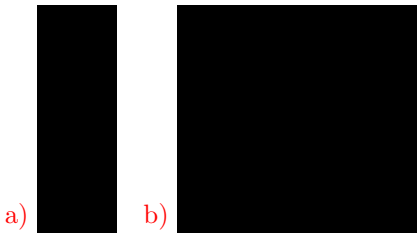


Figure 69: Common captions IIg in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

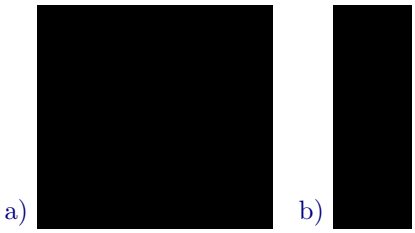


Figure 70: Common captions Ih. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

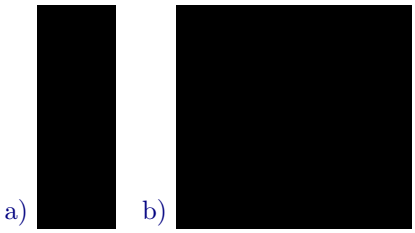


Figure 71: Common captions IIh in a row with common height of graphics. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

a) b)

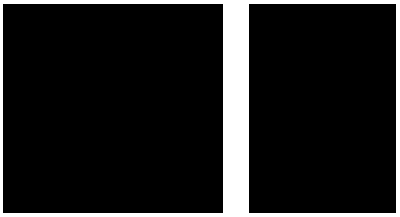
Figure 72: Common captions Ii. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

a) b)

Figure 73: Common captions IIi. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

a) b)

Figure 74: Common captions Ij. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

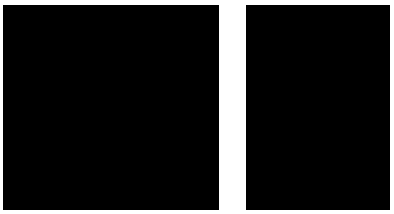


a) b)

Figure 75: Common captions IIj. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

a) b)

Figure 76: Common captions Ij. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics



a) b)

Figure 77: Common captions IIj. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

The code of the mixed-level row with labels of parts beside.

```
\floatsetup[subfigure]{capbesideposition=left}
\begin{figure*}[H]
\CommonHeightRow*[2.75cm]%
{\begin{floatrow}\ffigbox[\FBwidth]{}
{\begin{subfloatrow}[3]\useFCwidth
\fcapside[\FBwidth]{}{\caption{}\label{...}...}
\fcapside[\FBwidth]{}{\caption{}\label{...}...}
\fcapside[\FBwidth]{}{\caption{}\label{...}...}
\end{subfloatrow}\caption{Common caption~I}}
\ffigbox[\FBwidth]{}{\caption{...}\label{...}...}
\end{floatrow}}%
\end{figure*}
```

Below is the example.

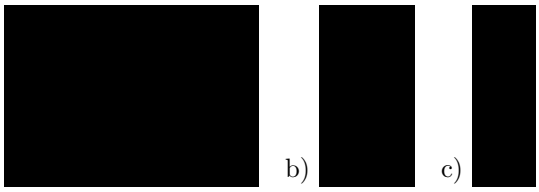


Figure 78: Common captions Ik. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

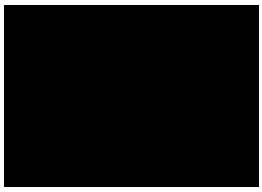


Figure 79: Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

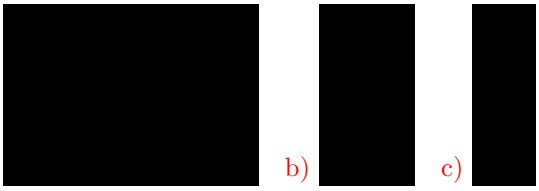


Figure 80: Common captions Im. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

Figure 81

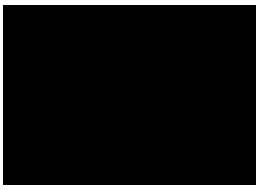
a)  b) c)

Figure 82: Common captions Im. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

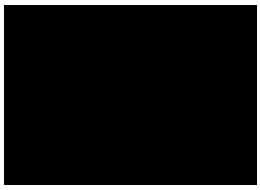


Figure 83

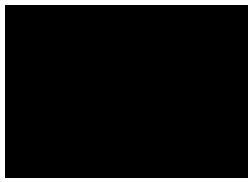
a)  b)

Figure 84: Common captions Il. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

a) b)

Figure 85: Common captions IIl. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

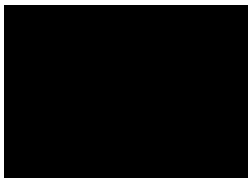
a)  b)

Figure 86: Common captions Im. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

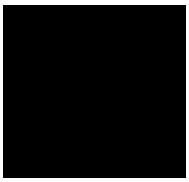
a)  b)

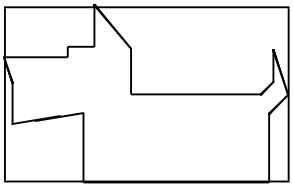
Figure 87: Common captions IIm. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

a) b)

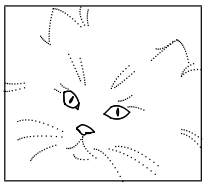
Figure 88: Common captions Im. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

a) b)

Figure 89: Common captions IIm. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

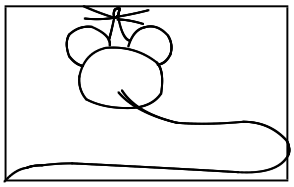


a): Figure I in the row with common heights

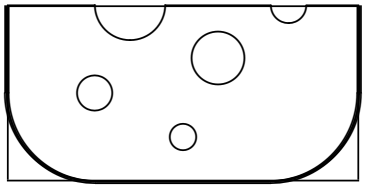


b): Figure II in the row with common heights

Figure 90: Common caption I



a): Figure III in the row with common heights



b): Figure IV in the row with common heights

Figure 91: Common caption II in a row with common height of graphics

0.1 Usage of the \Xhsize command in mixed-level rows

Usage of the `\Xhsize` command in mixed-level rows.

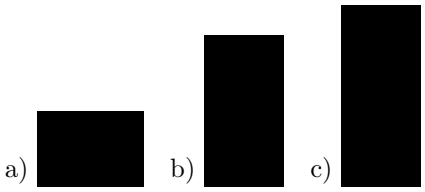


Figure 92: Common captions In. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

Figure 93: Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

The next row needs the `\hsize\Xhsize\filFCOhsize` sentence for the last subfigure in `\fcapside` box.

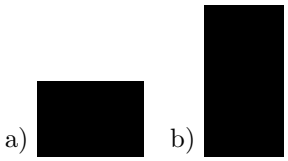


Figure 94: Common captions Io. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

Figure 95: Common captions IIo. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

a) b) c)

Figure 96: Common captions Ip. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

Figure 97: Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

a) b)

Figure 98: Common captions Iq. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics

a) b)

Figure 99: Common captions IIq. Common captions in a row with common height of graphics. Common captions in a row with common height of graphics