

A very unkind style guide for technical writers

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Chapter 1

Style

1.1 hoze-layout.sty

```
\ifvartwo
\ifvartwoexpand \ifvartwoexpand{\marginparwidth}{\tableofcontents}
\setlayout
\normallayout
\vartwolayout
\normalmargin
\vartwomargin
\normalfolio
\vartwofolio
\sethffont
\ebooksize
\pbooksize
\ifebook

A4
A4landscape
A3landscape
paperwidth
paperheight
stockwidth
stockheight
ebook
layout
```

Example

```
\setkeys{layout}{paperheight=297mm, paperwidth=210mm, stockheight=353mm, %
stockwidth=250mm}
```

\ebooksizes
\pbooksize
\normallayout
\vartwolayout

1.2 hoze-illust.sty

```
\settabcaptionstyle
\setfigcaptionstyle
\setfigjustify
\setfigscale
\restorefigscale
\excludegraphics
```

1.2.1 To place a figure or a picture

```
\placefig      is short for \placefigure.
\placefigure    \placefigure[float=false, caption={blah blah}]{file}
\setplacefigure
```

Options for the `\placefigure` command are:

```
float          =true / false (default)
type           = figure (default) / picture
caption
captionfont
captionstyle
label
figurejustify
topspace
bottomspace
rotate         =90 (default)
scale
```

Example

```
\setplacefigure{
  float=false,
  type=figure,
  captionfont=\rmfamily\small\bfseries,
  rotate=0
}
```

Example

```
\placefigure[float=false, caption={At the seashore}, captionstyle=\raggedright, %
  figurejustify=\centering, scale=0.9, rotate=-45]{Silver}
```

**Example**

```
\placefigure[type=picture, caption={An example of tikz picture}]{  
  \begin{tikzpicture}  
    \node {root}  
    child {node {left}}  
    child {node {right}}  
    child {node {child}}  
    child {node {child}}  
  };  
\end{tikzpicture}  
}
```

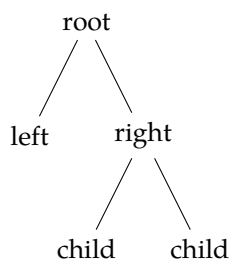


Figure 1.2: An example of tikz picture

1.2.2 To illustrate a figure or a picture in a row

`\illustfig` is short for `\illustfigure`.

`\illustfigure` `\illustfigure[caption={blah blah}]{file}{text}`

`\setillustfigure`

Options for the `\illustfigure` command are:

`type` = figure (default) / picture

`caption`

`captionfont`

`captionstyle`

`label`
`textstyle`
`figureposition =left / right`
`figurewidth`
`figurejustify`
`scale`
`protrude =true (default) / false`
`protrudelength`
`frame`
`framerule`
`framesep`
`align =top / middle / bottom`
`list`
`topspace`
`bottomspace`

Example

```
\setillustfigure{
  captionfont=\rmfamily\small\bfseries,
  textstyle=\sloppy,
  figureposition=left,
  frame=false,
  align=top,
  type=figure
}
```

Example

```
\illustfigure[figureposition=right, frame, framerule=0.5pt, framesep=5pt, scale=1.2, %
  align=middle, textstyle=\sloppy\raggedleft]{Silver}{
  Silver is Hoze's only son, who is in the fourth grade of primary school.
}
```

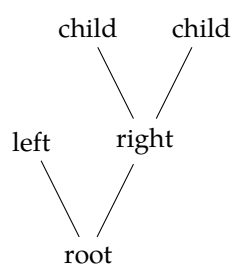
Silver is Hoze's only son, who is in the fourth grade of primary school.

**Example**

```

\illustration[type=picture, figurewidth=7.5cm, figurejustify=\raggedleft, caption={A %
    Hierarchical structure}, captionstyle=\raggedright]{
  \begin{tikzpicture}
    \node {root} [grow'=up]
    child {node {left}}
    child {node {right}}
    child {node {child}}
    child {node {child}}
  };
\end{tikzpicture}
}{
  Admittedly, in reality trees are more likely to grow upward and not downward as %
  above. You can tell
  whether the author of a paper is a mathematician or a computer scientist by %
  looking at the direction their
  trees grow. A computer scientist's trees will grow downward while a %
  mathematician's tree will grow upward.
}

```



Admittedly, in reality trees are more likely to grow upward and not downward as above. You can tell whether the author of a paper is a mathematician or a computer scientist by looking at the direction their trees grow. A computer scientist's trees will grow downward while a mathematician's tree will grow upward.

Figure 1.3: A Hierarchical structure

1.2.3 To place a table

```

\placetable \placetable[caption={blah blah}]{\begin{tabular}...\end{tabular}}
\setplacetable

```

Options for the `\placetable` command are:

```

float
caption
captionfont
captionstyle
label
tabularfont
tabularstyle
topspace
bottomspace

```

Example


```
\setplacetable{
  float=false,
  captionfont=\rmfamily\small\bfseries,
  tabularfont=\sffamily\small
}
```

Example

```
\placetable[float=false, caption={International Standard Paper sizes}, %
  tabularfont=\sffamily\small]{
  \begin{tabular}{ccccc}
  \toprule
  & \textbf{A} & \textbf{B} & \textbf{C} & \textbf{JIS B} \\
  \midrule
  0 & 841x1189 & 1000x1414 & 917x1297 & 1030x1456 \\
  1 & 594x841 & 707x1000 & 648x917 & 728x1030 \\
  2 & 420x594 & 500x707 & 458x648 & 515x728 \\
  3 & 297x420 & 353x500 & 324x458 & 364x515 \\
  4 & 210x297 & 250x353 & 229x324 & 257x364 \\
  5 & 148x210 & 176x250 & 162x229 & 182x257 \\
  6 & 105x148 & 125x176 & 114x162 & 128x182 \\
  7 & 74x105 & 88x125 & 81x114 & 91x128 \\
  \bottomrule
  \end{tabular}
}
```

Table 1.1: International Standard Paper sizes

	A	B	C	JIS B
0	841x1189	1000x1414	917x1297	1030x1456
1	594x841	707x1000	648x917	728x1030
2	420x594	500x707	458x648	515x728
3	297x420	353x500	324x458	364x515
4	210x297	250x353	229x324	257x364
5	148x210	176x250	162x229	182x257
6	105x148	125x176	114x162	128x182
7	74x105	88x125	81x114	91x128

1.2.4 To illust a table in a row

```
\illusttable \illusttable[caption={blah blah}]{\begin{tabular}...\end{tabular}}{text}
\setillusttable
```

Options for the `\illusttable` command are:

```
caption
captionfont
captionstyle
```

label
tabularfont
tabularstyle
tableposition =left / right
tablewidth
tablejustify
textstyle
protrude =true(default) / false
protrudelength
align =top / middle / bottom
topspace
bottomspace

Example

```
\setillusttable{
  captionfont=\rmfamily\small\bfseries,
  tabularfont=\sffamily\small,
  textstyle=\sloppy,
  tableposition=left
}
```

Example

```
\illusttable[align=bottom]{
  \begin{tabular}{c|cc}
  \toprule
  & raster & vector \\
  \midrule
  eps & 0 & 0 \\
  pdf & 0 & 0 \\
  bmp & 0 & X \\
  jpg & 0 & X \\
  png & 0 & X \\
  \bottomrule
  \end{tabular}
}
```

In computer graphics, a raster graphics image or bitmap is a data structure %
representing a generally rectangular grid of pixels, or points of color, %
viewable via a monitor, paper, or other display medium. Raster images are %
stored in image files with varying formats.

	raster	vector
eps	O	O
pdf	O	O
bmp	O	X
jpg	O	X
png	O	X

In computer graphics, a raster graphics image or bitmap is a data structure representing a generally rectangular grid of pixels, or points of color, viewable via a monitor, paper, or other display medium. Raster images are stored in image files with varying formats.

Example

```
\illusttable[align=top, tabularfont=\tiny, textstyle=\scriptsize]{
  \startgrayrow
  \begin{tabular}{ccccc}
  \toprule
  & \textbf{A} & \textbf{B} & \textbf{C} & \textbf{JIS B} \\
  \midrule
  \grayrow 0 & 841x1189 & 1000x1414 & 917x1297 & 1030x1456 \\
  \grayrow 1 & 594x841 & 707x1000 & 648x917 & 728x1030 \\
  \grayrow 2 & 420x594 & 500x707 & 458x648 & 515x728 \\
  \grayrow 3 & 297x420 & 353x500 & 324x458 & 364x515 \\
  \grayrow 4 & 210x297 & 250x353 & 229x324 & 257x364 \\
  \grayrow 5 & 148x210 & 176x250 & 162x229 & 182x257 \\
  \grayrow 6 & 105x148 & 125x176 & 114x162 & 128x182 \\
  \grayrow 7 & 74x105 & 88x125 & 81x114 & 91x128 \\
  \bottomrule
  \end{tabular}
}{
  \newcounter{mycnt}
  \setcounter{mycnt}{-1}
  \newcommand{\myno}{\stepcounter{mycnt}\themycnt}
  \setgrayrowhook{\myno}
  \startwhiterow
  \begin{tabular}{ccccc}
  \toprule
  & \textbf{A} & \textbf{B} & \textbf{C} & \textbf{JIS B} \\
  \midrule
  \grayrow & 841x1189 & 1000x1414 & 917x1297 & 1030x1456 \\
  \grayrow & 594x841 & 707x1000 & 648x917 & 728x1030 \\
  \grayrow & 420x594 & 500x707 & 458x648 & 515x728 \\
  \grayrow & 297x420 & 353x500 & 324x458 & 364x515 \\
  \grayrow & 210x297 & 250x353 & 229x324 & 257x364 \\
  \grayrow & 148x210 & 176x250 & 162x229 & 182x257 \\
  \grayrow & 105x148 & 125x176 & 114x162 & 128x182 \\
  \grayrow & 74x105 & 88x125 & 81x114 & 91x128 \\
  \bottomrule
  \end{tabular}
}
```

	A	B	C	JIS B
0	841x1189	1000x1414	917x1297	1030x1456
1	594x841	707x1000	648x917	728x1030
2	420x594	500x707	458x648	515x728
3	297x420	353x500	324x458	364x515
4	210x297	250x353	229x324	257x364
5	148x210	176x250	162x229	182x257
6	105x148	125x176	114x162	128x182
7	74x105	88x125	81x114	91x128

	A	B	C	JIS B
0	841x1189	1000x1414	917x1297	1030x1456
1	594x841	707x1000	648x917	728x1030
2	420x594	500x707	458x648	515x728
3	297x420	353x500	324x458	364x515
4	210x297	250x353	229x324	257x364
5	148x210	176x250	162x229	182x257
6	105x148	125x176	114x162	128x182
7	74x105	88x125	81x114	91x128

1.3 hoze-misc.sty

Options for the style group are:

`chaptertab`

`paragraph` = indent / boundary (default)

1.3.1 Thumb index and watermark

`\chaptertab`

`\setchaptertab`

`\watermark`

`\setwatermark`

`\clearwatermark`

Options for the `\chaptertab` command are:

`unit` returns the thumb index to the original y-position every time chapter happens to be a multiple of this option.

`x`

`y`

`width`

`yspace`

`color`

`font`

`on`

`off`

Example

```
\setchaptertab{
  x=200,
  y=210,
  width=12,
  height=8,
  yspace=-10,
  color=black,
  font=\LARGE\sffamily\bfseries,
  on
}
```

NOTE

The `\chaptertab` command is not available without `\mainmatter`.

Options for the `\watermark` command are:

`x`

y
text
font
fontsize
color
angle
figure
scale

Example

```
\watermark{x=50, y=50, angle=60, fontsize=90, color=yellow, text={Hoze is so hot!}}
```

Example

```
\clearwatermark  
  \watermark{x=150, y=150, scale=1, angle=-45, figure=MartinLutherKing}
```

NOTE


You can't make a thumb index and a watermark at the same time. To be precise, the watermark will be vanished by the thumb index when a new chapter begins.

1.3.2 To index a term

`\term` puts the argument in the index.
`\termf` typesets the argument in a specified typeface (default is italics) and puts it in the index.
`\termf*` does not index.
`\ui*` typesets the argument in a specified typeface (default is sans-serif) and puts it in the index.
`\ui` does not index.
`\btn` is short for `\button`.
`\button*` typesets the argument in a specified typeface (default is sans-serif) in oval box and puts it in the index.
`\button` does not index.
`\submenu` typesets the arguments with insertions of '>' between each argument and puts the last argument in the index.

Example

```
\btn{OK}  
  \submenu{Installation}{Network Setting}\\  
  \submenu[Installation]{Network Setting}{IP Setting}\\  
  \submenu[Installation][Network Setting]{IP Setting}{Profile}
```

 Installation > Network Setting
Installation > Network Setting > IP Setting
Installation > Network Setting > IP Setting > Profile

1.3.3 To index all entries of a list

`terms` is a list environment, which can put each item's label in the index.

`cmds` is a list environment where you can put a \TeX command in item label.

Options for the `terms` environment are:

`index` `=true (default) / false`
`highindex`
`enumerate`
`enumeratelabel`
`base` is short for `labelbase`.
`labelbase`
`labelfont`
`marker`
`markerspace`
`labelspace`
`labeloffset`
`font`
`justify`
`iteminterval`

Example

```
\begin{terms}[base=ko.TeX Live 2009]\firmlist
  \item[ko.TeX Live 2009] \url{http://faq.ktug.or.kr/faq/KoTeXLive}
  \item[EmEditor] \url{http://www.emeditor.com/}
  \item[Sumatra PDF] \url{http://blog.kowalczyk.info/software/sumatrapdf/index.html}
  \item[pdftk] \url{http://www.accesspdf.com/pdftk/}
\end{terms}
```

```
ko.TeX Live 2009 http://faq.ktug.or.kr/faq/KoTeXLive
EmEditor http://www.emeditor.com/
Sumatra PDF http://blog.kowalczyk.info/software/sumatrapdf/index.html
pdftk http://www.accesspdf.com/pdftk/
```

1.3.4 To decorate letters and paragraphs

```
\cirnum  
\ovalnum  
\recnum  
\wrapnum  
\setwrapnum  
\wrapchar  
\alert  
\setalert
```

Example

```
\setwrapnum{type=circle,base=99}  
  \cirnum{10}  
  \ovalnum{11}  
  \recnum{12}  
  \wrapnum{13}  
  \wrapchar[type=circle,color=white]{14}  
  \wrapchar[type=circle,color=black]{15}  
  \wrapchar[type=oval,color=white]{16}  
  \wrapchar[type=oval,color=black]{17}  
  \wrapchar[type=rectangle,color=white]{18}  
  \wrapchar[type=rectangle,color=black]{19}
```

10 **11** **12** **13** **14** **15** **16** **17** **18** **19**

Options for the `\alert` command are:

```
frameseparate  
labelposition  
labelfont  
justify  
font
```

Example

```
\setalert{  
  frameseparate=0.5em,  
  labelposition=left,  
  label=NOTE,  
  labelfont=\bfseries,  
  justify=\sloppy  
}
```

Example


```
\alert[label=CAUTION, labelfont=\sffamily]{  
  You can't make a thumb index and a watermark at the same time.  
  To be precise, the watermark will be vanished by the thumb index when a new %  
    chapter begins.  
}
```

CAUTION

You can't make a thumb index and a watermark at the same time. To be precise, the watermark will be vanished by the thumb index when a new chapter begins.

1.3.5 Sectional division

`\secnewpageon` makes every section begin on a new page from the 2nd section on.

`\secnewpageoff` deactivates `\secnewpageon`.

`\subsecnewpageon` makes every section begin on a new page from the 2nd subsection on.

`\subsecnewpageoff` deactivates `\subsecnewpageon`.





Appendix A

Style Package Source

A.1 hoze-layout.sty

```
1 \ProvidesPackage{hoze-layout}[2010/02/01 v1.00 Page layout for technical writing]
2
3 \RequirePackage{xifthen}
4 \RequirePackage{calc}
5 \RequirePackage{xkeyval}
6 %\RequirePackage{kvoptions}
7
8 %for variant two-column layout
9 \ifthenelse{\isnamedefined{if@vartwo}}{
10     %\setboolean{@vartwo}{true}
11 }{
12     \newboolean{@vartwo}
13     \setboolean{@vartwo}{false}
14 }
15
16 \newcommand\ifvartwo[2]{\if@vartwo#1\else#2\fi}
17 \newcommand\ifvartwoexpand[2]{\ifvartwo{\vartwoexpand{#1}{#2}}{#2}}
18 \newcommand{\vartwoexpand}[2]{
19 \begin{adjustwidth}{-#1}{0pt}%
20 #2%
21 \end{adjustwidth}%
22 }%\marginparwidth, \vartwosecindent
23
24 \ifthenelse{\isnamedefined{foliomarks}}{
25     \newcommand\foliomarks{}
26 }% defined in hoze-misc.sty
27
28 \newif\if@nonelayout\@nonelayoutfalse
29
30 % LAYOUT * * * * *
31
32 \newcommand\trimcentering{
33 \setlength\trimtop{\stockheight}
34 \addtolength\trimtop{-\paperheight}
35 \setlength\trimedge{\stockwidth}
```

```
36 \addtolength\trimedge{-\paperwidth}
37 \settrims{.5\trimtop}{.5\trimedge}
38 }
39
40 \newcommand\normalmargin{%
41 \trimcentering
42 \setulmarginsandblock{.09\paperheight}{.12\paperheight}{*}
43 \setheadfoot{.05\paperheight}{.05\paperheight}
44 \setlrmarginsandblock{.15\paperwidth}{.15\paperwidth}{*}
45 \checkandfixthelayout
46 }
47
48 \newcommand\vartwomargin{%
49 \trimcentering
50 \setulmarginsandblock{.115\paperheight}{.11\paperheight}{*}
51 \setlrmarginsandblock{.3\paperwidth}{.125\paperwidth}{*}
52 \setheadfoot{.045\paperheight}{.045\paperheight}
53 \setmarginnotes{.05\paperwidth}{.125\paperwidth}{0pt}
54 \checkandfixthelayout
55 \let\evensidemargin\oddsidemargin
56 }
57
58 \newcommand\hffont{\rmfamily\bfseries\small}
59 \newcommand\sethffont[1]{\renewcommand\hffont{#1}}
60
61 % normal pagestyle
62 \copypagestyle{normal}{headings}
63 \makepsmarks{normal}{\foliomarks}
64 \makeevenfoot{normal}{\hffont\thepage\quad\leftmark}{\}{}
65 \makeoddfoot{normal}{\}{}{\hffont\rightmark\quad\thepage}
66 \makeevenhead{normal}{\}{}{}
67 \makeoddhead{normal}{\}{}{}
68 \makeheadrule{normal}{\headwidth}{0pt}
69
70 \newcommand\normalfolio{
71 \pagestyle{normal}
72 }
73
74 %\newcommand\pagevrule{~\rule{1.5pt}{7pt}~}
75 %\newcommand\pageno{\wrapchar[type=rectangular,color=black,font=\hffont]{\thepage}}
76
77 % vartwo pagestyle
78 \copypagestyle{vartwo}{companion}
79 \makerunningwidth{vartwo}{\headwidth}
80 \makeheadrule{vartwo}{\headwidth}{\normalrulethickness}
81 \makepsmarks{vartwo}{\foliomarks}
82 \makeheadposition{vartwo}{flushright}{flushright}{flushright}{flushright}
83 \makeevenhead{vartwo}{\hffont\thepage\quad\leftmark}{\}{}
84 \makeoddhead{vartwo}{\}{}{\hffont\rightmark\quad\thepage}
85 \makeevenfoot{vartwo}{\}{}{}

```

```

86 \makeoddfoot{vartwo}{\}{\}
87 \newlength\vartwosecindent
88
89 \newcommand\vartwofolio{
90 \setlength\vartwosecindent{\marginparwidth}
91 \addtolength\vartwosecindent{\marginparsep}
92 \setlength{\headwidth}{\textwidth}
93 \addtolength{\headwidth}{\vartwosecindent}
94 \setsecindent{-\vartwosecindent}
95 \setsubsecindent{-\vartwosecindent}
96 \setsubsubsecindent{-\vartwosecindent}
97 \pagestyle{vartwo}
98 }
99
100 % Page size must be designated as a package option such as paperheight=297mm, %
    paperwidth=210mm, stockheight=353mm, stockwidth=250mm
101 \setlength\paperheight{200mm}
102 \setlength\paperwidth{150mm}
103 \setlength\stockheight{250mm}
104 \setlength\stockwidth{176mm}
105
106 \define@boolkey{layout}{A4}[true]{
107     \setlength\paperheight{297mm}
108     \setlength\paperwidth{210mm}
109     \setlength\stockheight{353mm}
110     \setlength\stockwidth{250mm}
111 }
112
113 \define@boolkey{layout}{A4landscape}[true]{
114     \setlength\paperheight{210mm}
115     \setlength\paperwidth{297mm}
116     \setlength\stockheight{250mm}
117     \setlength\stockwidth{353mm}
118 }
119
120 \define@boolkey{layout}{A3landscape}[true]{
121     \setlength\paperheight{297mm}
122     \setlength\paperwidth{420mm}
123     \setlength\stockheight{353mm}
124     \setlength\stockwidth{500mm}
125 }
126
127 \define@key{layout}{paperheight}{\setlength\paperheight{#1}}
128 \define@key{layout}{paperwidth}{\setlength\paperwidth{#1}}
129 \define@key{layout}{stockheight}{\setlength\stockheight{#1}}
130 \define@key{layout}{stockwidth}{\setlength\stockwidth{#1}}
131
132 \newcommand\booksize{
133     \setstocksize{\paperheight}{\paperwidth}
134     \settrimmedsize{\paperheight}{\paperwidth}{*}

```

```
135         \showtrimsoff
136     }
137     \newcommand\pbooksize{
138         \setstocksize{\stockheight}{\stockwidth}
139         \settrimmedsize{\paperheight}{\paperwidth}{*}
140         \trimcentering
141         \trimLmarks
142         \showtrimson
143     }
144
145     \define@boolkey{layout}{ebook}[true]{}
146
147     \define@key{layout}{layout}[vartwo]{
148         \ifthenelse{\equal{#1}{vartwo}}{
149             \@vartwotrue
150         }{
151             \@vartwofalse
152         }
153         \ifthenelse{\equal{#1}{none}}{
154             \@nonelayouttrue
155         }{}
156     }
157
158     \newcommand\vartwolayout{
159         \@ifpackageloaded{hoze-illust}{
160             \setfigtabjustify{\raggedright}
161         }{}
162         \vartwomargin
163         \vartwofolio
164         \renewcommand\chpalign{\raggedleft}
165     }
166
167     \newcommand\normallayout{
168         \@ifpackageloaded{hoze-illust}{
169             \setfigtabjustify{\centering}
170         }{}
171         \normalmargin
172         \normalfolio
173     }
174
175     \newcommand\setlayout{
176         \ifKV@layout@ebook
177             \ebooksize
178             \@ifpackageloaded{hyperref}{
179                 \hypersetup{colorlinks=true,linkcolor=blue}
180             }{}
181         \else
182             \pbooksize
183         \fi
184         \if@nonelayout\else
```

```

185             \if@vartwo
186                 \vartwolayout
187             \else
188                 \normallayout
189             \fi
190         \fi
191         \if@vartwo
192             \aliaspagestyle{plain}{vartwo}
193         \else
194             \makeoddfont{plain}{}{}{\hfont\thepage}
195             \makeoddhead{plain}{}{}{}
196             \makeevenfoot{plain}{}{\hfont\thepage}{}{}
197             \makeevenhead{plain}{}{}{}
198         \fi
199     }
200
201     \setkeys{layout}{ebook=true}
202     %\ProcessKeyvalOptions{layout}
203
204     \newcommand\ifebook[2]{\ifKV@layout@ebook#1\else#2\fi}

```

A.2 hoze-illust.sty

```
1  \ProvidesPackage{hoze-illust}[2010/02/01 v1.00 Easier manipulation of figures & tables for %
    technical writing]
2
3  \RequirePackage{xkeyval}
4  \RequirePackage{xifthen}
5  \RequirePackage{twoopt}
6  \RequirePackage{calc}
7  \RequirePackage{relsize}
8  \RequirePackage{graphicx}
9  \RequirePackage{xcolor}
10 \RequirePackage{colortbl}
11
12 %\DeclareGraphicsExtensions{.pdf,.png,.jpg}
13 %\DeclareGraphicsRule{.pdf}{eps}{.xbb}{ }
14 %\DeclareGraphicsRule{.png}{bmp}{.xbb}{ }
15 %\DeclareGraphicsRule{.jpg}{bmp}{.xbb}{ }
16
17 %for variant two column layout
18 \ifthenelse{\isnamedefined{if@vartwo}}{ }{
19     \newboolean{@vartwo}
20     \setboolean{@vartwo}{false}
21 }
22
23 % CAPTION * * * * *
24 %\newcommand\capfont{\rmfamily\small\bfseries}
25 %\captionnamefont{\capfont}
26 %\captiontitlefont{\capfont}
27 %\captiondelim{::~}
28
29 \setlength\abovecaptionskip{.25ex plus .125ex minus .125ex}
30 \setlength\belowcaptionskip{.25ex plus .125ex minus .125ex}
31
32 \newlength\nulllength
33 \setlength\nulllength{0pt}
34
35 \newfixedcaption{\tabcaption}{table}
36 \newcommand{\tabcaptionstyle}{ }
37 \newcommand{\settabcaptionstyle}[1]{\renewcommand{\tabcaptionstyle}{#1}}
38
39 \newfixedcaption{\figcaption}{figure}
40 \newcommand{\figcaptionstyle}{ }
41 \newcommand{\setfigcaptionstyle}[1]{\renewcommand{\figcaptionstyle}{#1}}
42
43 \newcommand{\figjustify}{ }
44 \newcommand{\setfigjustify}[1]{\renewcommand{\figjustify}{#1}}
45
46 \newcommand\setfigtabjustify[1]{%
47     \setfigcaptionstyle{#1}%
```



```

48         \settabcaptionstyle{#1}%
49         \setfigjustify{#1}%
50     }
51
52
53 % ILLUSTRATION * * * * *
54 \newcommand{\figscale}{1}
55 \newcommand\setfigscale[1]{\renewcommand\figscale{#1}}
56
57 \newcommand\orgscale{}
58 \newcommand\restorefigscale{\let\figscale\orgscale}
59 \newenvironment{FigScale}[1]{\setfigscale{#1}}{\restorefigscale}
60
61 \newlength\figprotrude
62
63 \newlength{\leftboxwidth}
64 \newlength{\rightboxwidth}
65 \newlength{\interwidth}
66 \setlength\interwidth{.75em}
67 \newlength{\illustwidth}
68
69 \newlength\fixedwidth
70
71 \newcommand\exlcudegraphics{%
72     \renewcommand\includegraphics[2][\@empty]{\LARGE FIGURE HERE}
73 }
74
75 % examples of \illustfigure * * * * *
76 %\def\verbfile{verb.tmp}
77 %\setverbatimfont{\ttfamily}
78 %\renewcommand\illustfig[3][\illustfigure{#1}{#2}]{\verbatiminput{\verbfile}}
79 %\setillustfigure{topspace=3ex, bottomspace=3ex}
80 %
81 %\begin{verbatimoutput}{\verbfile}
82 %\illustfig{ConnectHDMI}{
83 %\begin{verbatimoutput}{\verbfile}
84 %\illustfig[caption={blah blah}]{ConnectHDMI}{
85 %If you want to add a caption.
86 %If you don't specify anything for label,
87 %then the figure filename is also used for label.
88 %See \fref{ConnectHDMI}.
89 %}
90 %\end{verbatimoutput}
91 %\input{\verbfile}
92
93 % PF stands for placefigure * * * * *
94 \newsavebox{\PFbox}
95 \newlength{\PFboxwidth}
96 \newlength{\PFboxheight}
97

```

```
98 \newlength\PFtopspace
99 \newlength\PFbottomspace
100 \newcommand\PFtopskip{\vspace{\PFtopspace}\par\noindent}
101 \newcommand\PFbottomskip{\vspace{\PFbottomspace}\par}
102
103 \newcommand\PFcaption{}
104 \newcommand\PFcaptionfont{}
105 \newcommand\PFcaptionstyle{}
106 \newcommand\PFlabel{}
107 \newcommand\PFjustify{}
108 \newcommand\PFangle{90}
109 \newcommand\PFscale{}
110
111 \newif\ifPF@float\PF@floatfalse
112 \define@boolkey{placefigure}{float}[true]{%
113     \ifKV@placefigure@float%
114         \PF@floattrue%
115     \else%
116         \PF@floatfalse%
117     \fi%
118 }
119
120 \newif\ifPF@caption\PF@captionfalse
121 \define@key{placefigure}{caption}{%
122     \PF@captiontrue%
123     \renewcommand\PFcaption{#1}%
124 }
125 \define@key{placefigure}{captionfont}{%
126     \renewcommand\PFcaptionfont{#1}%
127 }
128 \define@key{placefigure}{captionstyle}{%
129     \renewcommand\PFcaptionstyle{\captionstyle{#1}}%
130 }
131
132 \newif\ifPF@label\PF@labelfalse
133 \define@key{placefigure}{label}{%
134     \PF@labeltrue%
135     \renewcommand\PFlabel{#1}%
136 }
137
138 \define@key{placefigure}{figurejustify}{%
139     \renewcommand\PFjustify{#1}%
140 }
141
142 \define@key{placefigure}{topspace}{%
143     \setlength\PFtopspace{#1}%
144 }
145 \define@key{placefigure}{bottomspace}{%
146     \setlength\PFbottomspace{#1}%
147 }
```

```

148
149 \newif\ifPF@rotate\PF@rotatefalse
150 \define@key{placefigure}{rotate}[90]{%
151     \ifthenelse{\equal{#1}{0}}{%
152         \PF@rotatefalse%
153     }{
154         \PF@rotatetrue%
155         \renewcommand\PFangle{#1}%
156     }
157 }
158
159 \define@key{placefigure}{scale}[1]{%
160     \renewcommand\PFscale{#1}%
161 }
162
163 % type = figure/picture
164 % figure option is for an external figure
165 % picture option is for an internal picture like tikzpicture
166 \newif\ifPF@figure\PF@figuretrue
167 \define@key{placefigure}{type}[figure]{%
168     \ifthenelse{\equal{#1}{figure}}{%
169         \PF@figuretrue%
170     }{%
171         \PF@figurefalse%
172     }%
173 }
174
175 \newcommand\setplacefigure[1]{%
176     \presetkeys{placefigure}{#1}{}
177 }
178
179 \setplacefigure{%
180     topspace=0.75\baselineskip-\parskip,
181     bottomspace=0.75\baselineskip-\parskip,
182     float=false,
183     type=figure,
184     captionfont=\rmfamily\small\bfseries,
185     captionstyle=\figcaptionstyle,
186     figurejustify=\figjustify,
187     scale=\figscale,
188     rotate=0
189 }
190
191 \newcommand\resetplacefigure{%
192     \PF@captionfalse%
193     \PF@labelfalse%
194 }
195
196 % definition * * * * *
197 \newcommand\placefigure[2][{}]{%

```

```
198 \resetplacefigure%
199 \setkeys{placefigure}{#1}%
200 \ifPF@figure%
201     \ifPF@label\else%
202         \renewcommand\PFlabel{#2}%
203     \fi%
204     \sbox{\PFbox}{\includegraphics[scale=\PFscale]{#2}}%
205     %\sbox{\PFbox}{\PFgraphics{#2}}%
206 \else%
207     \sbox{\PFbox}{#2}%
208 \fi%
209 \ifPF@float%
210     \begin{figure}[!hbt]%
211         \putPF%
212     \end{figure}%
213 \else%
214     \PFTopskip%
215     \begin{minipage}{\linewidth}%
216         \putPF%
217     \end{minipage}%
218     \PFbottomskip%
219 \fi%
220 }
221 %\newcommand\PFgraphics[1]{\includegraphics[scale=\PFscale]{#1}}
222
223 \newcommand\putPF{%
224 \ifPF@rotate%
225     \putPFlandscape%
226 \else%
227     \putPFportrait%
228 \fi%
229 }
230
231 \newcommand\putPFportrait{%
232 \if@vartwo%
233     \settowidth{\PFboxwidth}{\usebox{\PFbox}}%
234     \ifdim \PFboxwidth > \linewidth%
235         \addtolength{\PFboxwidth}{-\linewidth}%
236         \hspace*{-1\PFboxwidth}%
237     \fi%
238 \fi%
239 \PFjustify\usebox{\PFbox}%
240 \ifPF@caption%
241     \PFCaptionstyle%
242     \ifPF@float%
243         \vspace{1.25ex}\PFCaptionfont\caption{\PFCaption}\label{\PFlabel}%
244     \else%
245         \captionnamefont{\PFCaptionfont}%
246         \captiontitlefont{\PFCaptionfont}%
247         \figcaption{\PFCaption}\label{\PFlabel}%
```

```

248         \fi%
249 \fi%
250 }
251
252 \newcommand\putPFlandscape{%
253 \settowidth{\PFboxwidth}{\usebox{\PFbox}}
254 \PFjustify
255 \rotatebox{\PFangle}{%
256     \begin{minipage}{\PFboxwidth}%
257     \usebox{\PFbox}%
258     \ifPF@caption%
259         \PFcaptionstyle%
260         \ifPF@float%
261             \vspace{1.25ex}\PFcaptionfont\caption{\PFcaption}\label{\PFlabel}%
262         \else%
263             \captionnamefont{\PFcaptionfont}%
264             \captiontitlefont{\PFcaptionfont}%
265             \figcaption{\PFcaption}\label{\PFlabel}%
266         \fi%
267     \fi%
268 \end{minipage}%
269 }%
270 }
271
272 % IF stands for illustfigure * * * * *
273 % to place a figure with its text in a row
274 % e.g. \setillustfigure[frame=true, framerule=0.5pt, framesep=5pt, figureposition=right]
275 \newlength\figalignment
276 \setlength\figalignment{- .5\baselineskip}
277 \newcommand{\figalign}{\mbox{\}\[\figalignment]}
278
279 \newlength\IFtopspace
280 \newlength\IFbottomspace
281 \newcommand\IFtopskip{\vspace{\IFtopspace}\par\noindent}
282 \newcommand\IFbottomskip{\vspace{\IFbottomspace}\par}
283
284 \newsavebox{\IFbox}
285 \newlength{\IFboxwidth}
286 \newlength{\IFboxheight}
287
288 \newcommand\IFcaption{}
289 \newcommand\IFcaptionfont{}
290 \newcommand\IFcaptionstyle{}
291 \newcommand\IFlabel{}
292 \newcommand\IFstyle{}
293 \newcommand\IFjustify{\raggedleft}
294 \newcommand\IFalign{t}
295 \newlength\IFfigurewidth
296 \newlength\IFscale
297 \newlength\IFprotrude

```

```
298 \newlength\IFframerule
299 \newlength\IFframesep
300 \setlength\IFframerule{.25pt}
301 \setlength\IFframesep{2.5pt}
302
303 \newif\ifIF@caption\IF@captionfalse
304 \define@key{illustfigure}{caption}{%
305     \IF@captiontrue%
306     \renewcommand\IFcaption{#1}%
307 }
308 \define@key{illustfigure}{captionfont}{%
309     \renewcommand\IFcaptionfont{#1}%
310 }
311 \define@key{illustfigure}{captionstyle}{
312     \renewcommand\IFcaptionstyle{\captionstyle{#1}}%
313 }
314 \newif\ifIF@label\IF@labelfalse
315 \define@key{illustfigure}{label}{%
316     \IF@labeltrue
317     \renewcommand\IFlabel{#1}%
318 }
319
320 \define@key{illustfigure}{textstyle}{%
321     \renewcommand\IFstyle{#1}%
322 }
323
324 \newif\ifIF@left\IF@leftfalse
325 \define@key{illustfigure}{figureposition}[left]{%
326     \ifthenelse{\equal{#1}{left}}{%
327         \IF@lefttrue%
328     }{%
329         \IF@leftfalse%
330     }%
331 }
332
333 \newif\ifIF@fixed\IF@fixedfalse % if to use a fixed width for figure
334 \define@key{illustfigure}{figurewidth}{%
335     \setlength\IFfigurewidth{#1}%
336     \ifdim \IFfigurewidth > \nulllength%
337         \IF@fixedtrue%
338     \else%
339         \IF@fixedfalse%
340     \fi%
341 }
342
343 \define@key{illustfigure}{scale}{%
344     \renewcommand\IFscale{#1}%
345 }
346
347 %\newif\ifIF@protrude\IF@protrudefalse % to disable protruding for the vartwo layout
```

```

348 %\define@boolkey{illustfigure}{protrude}[true]{%
349 %      \ifKV@illustfigure@protrude%
350 %          \IF@protrudetrue%
351 %          \setlength\IFprotrude{\figprotrude}%
352 %      \else%
353 %          \IF@protrudedefalse%
354 %          \setlength\IFprotrude{0pt}%
355 %      \fi%
356 %}
357
358 \define@boolkey{illustfigure}{protrude}[true]{%
359     \ifKV@illustfigure@protrude\else%
360         \setlength\IFprotrude{0pt}%
361     \fi%
362 }
363
364 \define@key{illustfigure}{protrudelength}{%
365     \setlength\IFprotrude{#1}%
366 }
367
368 \newif\ifIF@frame\IF@framefalse
369 \define@boolkey{illustfigure}{frame}[true]{%
370     \ifKV@illustfigure@frame%
371         \IF@frametrue%
372     \else%
373         \IF@framefalse%
374     \fi%
375 }
376 \define@key{illustfigure}{framerule}{
377     \setlength\IFframerule{#1}
378 }
379 \define@key{illustfigure}{framesep}{
380     \setlength\IFframesep{#1}
381 }
382
383
384 \define@key{illustfigure}{figurejustify}{%
385     \renewcommand\IFjustify{#1}%
386 }
387
388 \define@key{illustfigure}{align}[top]{
389     \ifthenelse{\equal{#1}{top}}{\renewcommand\IFalign{t}}{}
390     \ifthenelse{\equal{#1}{middle}}{\renewcommand\IFalign{m}}{}
391     \ifthenelse{\equal{#1}{bottom}}{\renewcommand\IFalign{b}}{}
392 }
393
394 \newif\ifIF@list\IF@listfalse
395 \define@boolkey{illustfigure}{list}[true]{%
396     \ifKV@illustfigure@list%
397         \IF@listtrue%

```

```
398         \else%
399             \IF@listfalse
400         \fi%
401     }
402
403     \define@key{illustfigure}{topspace}{%
404         \setlength\IFtopspace{#1}
405     }
406     \define@key{illustfigure}{bottomspace}{%
407         \setlength\IFbottomspace{#1}
408     }
409
410     % type = figure/picture
411     % figure option is for an external figure
412     % picture option is for an internal picture like tikzpicture
413     \newif\ifIF@figure\IF@figuretrue
414     \define@key{illustfigure}{type}[figure]{%
415         \ifthenelse{\equal{#1}{figure}}{%
416             \IF@figuretrue%
417         }{%
418             \IF@figurefalse%
419         }%
420     }
421
422     \newcommand\setillustfigure[1]{%
423         \presetkeys{illustfigure}{#1}{}%
424     }
425
426     \newcommand\resetillustfigure{%
427         \IF@captionfalse%
428         \IF@labelfalse%
429     }
430
431     \setillustfigure{%
432         topspace=.35\baselineskip-\parskip,
433         bottomspace=.65\baselineskip-\parskip,
434         captionfont=\rmfamily\small\bfseries,
435         captionstyle=\figcaptionstyle,
436         textstyle=\sloppy,%\fussy
437         list=false,
438         protrude=true,
439         protrudelength=\figprotrude,
440         figureposition=left,
441         figurewidth=0pt,
442         frame=false,
443         align=top,
444         type=figure,
445         scale=\figscale
446     }
447
```



```

448 % definition * * * * *
449 \newcommand\illustfigure[3][\{%
450 \resetillustfigure%
451 \setkeys{illustfigure}{#1}%
452 \ifIF@figure%
453     \ifIF@label\else%
454         \renewcommand\IFlabel{#2}%
455     \fi%
456     \ifthenelse{\not\equal{#2}{}}{\%
457         \ifIF@frame%
458             \setlength\fbboxrule{\IFframerule}%
459             \setlength\fbboxsep{\IFframesep}%
460             \sbox{\IFbox}{\includegraphics[scale=\IFscale]{#2}}}%
461         \else%
462             \sbox{\IFbox}{\includegraphics[scale=\IFscale]{#2}}}%
463         \fi%
464     }{\%
465         \sbox{\IFbox}{}%
466     }%
467 \else%
468     \sbox{\IFbox}{#2}%
469 \fi%
470 \putIF{#3}%
471 }
472
473 \newcommand\putIF[1]{\%
474 \ifIF@fixed%
475     \setlength{\IFboxwidth}{\IFfigurewidth}%
476 \else%
477     \settowidth{\IFboxwidth}{\usebox{\IFbox}}%
478 \fi%
479 \ifIF@left%
480     \setlength\leftboxwidth{\IFboxwidth}%
481     \setlength{\rightboxwidth}{\illustwidth-\leftboxwidth-\interwidth}%
482 \else%
483     \setlength\rightboxwidth{\IFboxwidth}%
484     \setlength{\leftboxwidth}{\illustwidth-\rightboxwidth-\interwidth}%
485 \fi%
486 \if@vartwo
487     \ifIF@left%
488         \addtolength\rightboxwidth{\IFprotrude}%
489     \else%
490         \addtolength\leftboxwidth{\IFprotrude}%
491     \fi%
492 \fi%
493 \IFTopskip%
494 \begin{minipage}[t]{\illustwidth}%
495     \hspace*{-\IFprotrude}%
496     \begin{minipage}[\IFalign]{\leftboxwidth}%
497         \putIFleft{#1}%

```

```
498         \end{minipage}%
499         \hspace{\interwidth}%
500         \begin{minipage}[\IFalign]{\rightboxwidth}%
501         \putIFright{#1}%
502         \end{minipage}%
503 \end{minipage}%
504 \IFbottomskip%
505 }
506
507 \newcommand\putIFleft[1]{%
508 \ifIF@left%
509     \figalign\IFjustify\usebox{\IFbox}\putIFcaption%
510 \else%
511     \IFstyle\ifIF@list\vspace{-\topsep}\fi#1%
512 \fi%
513 }
514
515 \newcommand\putIFright[1]{%
516 \ifIF@left%
517     \IFstyle\ifIF@list\vspace{-\topsep}\fi#1%
518 \else%
519     \figalign\IFjustify\usebox{\IFbox}\putIFcaption%
520 \fi%
521 }
522
523 \newcommand\putIFcaption{%
524 \ifIF@caption%
525     \IFcaptionstyle%
526     \captionnamefont{\IFcaptionfont}%
527     \captiontitlefont{\IFcaptionfont}%
528     \figcaption{\IFcaption}\label{\IFlabel}%
529 \fi%
530 }
531
532 \newcommand\fixedillustfigure[3][]{%
533 \illustfigure[figurewidth=\fixedwidth, #1]{#2}{#3}%
534 }
535
536 % example
537 %\def\verbfile{verb.tmp}
538 %\setverbatimfont{\ttfamily}
539 %\newcommand\examfig[2][]{\illustfigure[#1]{#2}{\verbatiminput{\verbfile}}}
540 %\setillustfigure{topspace=3ex, bottomspace=3ex}
541 %
542 %\begin{verbatimoutput}{\verbfile}
543 %\examfig{ConnectHDMI}{
544 %What would be happen?
545 %}
546 %\end{verbatimoutput}
547 %\input{\verbfile}
```

```

548
549
550 % * * * * *
551 \newcommand\linefigscale{1}
552 %\newcommand\setlinefigscale[1]{\renewcommand\linefigscale{#1}}%
553 \newlength\linefigraise
554
555 \define@key{linefig}{scale}{%
556     \renewcommand\linefigscale{#1}%
557 }
558
559 \define@key{linefig}{raise}{%
560     \setlength\linefigraise{#1}%
561 }
562
563 \newcommand\setlinefig[1]{%
564     \presetkeys{linefig}{#1}{}%
565 }
566
567 \setlinefig{raise={-0.5ex}, scale=1}
568
569 \newcommand\linefig[2][]{%
570     \setkeys{linefig}{#1}%
571     \raisebox{\linefigraise}{\includegraphics[scale=\linefigscale]{#2}}%
572 }
573
574 %\newlength\landscapewidth%
575 %\setlength\landscapewidth{400mm}%
576
577 %\newcommand\remotefigscale{}
578 %\newcommand\panelfigscale{}
579 %\newcommand\connectfigscale{}
580 %\newcommand\setremotefigscale[1]{\renewcommand\remotefigscale{#1}}
581 %\newcommand\setpanelfigscale[1]{\renewcommand\panelfigscale{#1}}
582 %\newcommand\setconnectfigscale[1]{\renewcommand\connectfigscale{#1}}
583
584 \newcommand\figname{}
585 \newcommand\setfigname[1]{\renewcommand\figname{#1}}
586
587 % TABULAR * * * * *
588 %\renewcommand\arraystretch{1}
589
590 \definecolor{textgray}{gray}{0.4}
591 \definecolor{backgray}{gray}{0.9}
592 \definecolor{buttongray}{gray}{0.2}
593 \gdef\RowColor{backgray}
594
595 \newcounter{rowcnt}
596 \newcommand\grayrowhook{}
597 \newcommand\setgrayrowhook[1]{\renewcommand\grayrowhook{#1}}

```

```
598
599 \newcommand\grayrow{%
600     \rowcolor{\RowColor}%
601     \ifodd\therowcnt%
602         \gdef\RowColor{white}%
603     \else%
604         \gdef\RowColor{backgray}%
605     \fi%
606     \stepcounter{rowcnt}\grayrowhook%
607 }
608 \newcommand\grayheadrow{\rowcolor{backgray}}
609
610 \newcommand\startgrayrow{\setcounter{rowcnt}{0}}
611 \newcommand\startwhiterow{\setcounter{rowcnt}{-1}}
612 \newcommand\stopgrayrow{\let\grayrow\relax}
613
614 \setlength\heavyrulewidth{.75pt}
615 \setlength\lightrulewidth{.5pt}
616
617 % table
618 \newcolumntype{L}{>{\raggedright\arraybackslash}X}
619 \newcolumntype{C}{>{\centering\arraybackslash}X}
620 \newcolumntype{R}{>{\raggedleft\arraybackslash}X}
621
622 % PT stands for placetable * * * * *
623 \newsavebox{\PTbox}
624 \newlength{\PTboxwidth}
625 \newlength{\PTboxheight}
626
627 \newlength\PTtopspace
628 \newlength\PTbottomspace
629 \newcommand\PTtopskip{\vspace{\PTtopspace}\par\noindent}
630 \newcommand\PTbottomskip{\vspace{\PTbottomspace}\par}
631
632 \newcommand\PTcaption{}
633 \newcommand\PTcaptionfont{}
634 \newcommand\PTcaptionstyle{}
635 \newcommand\PTlabel{}
636 \newcommand\PTfont{}
637 \newcommand\PTstyle{}
638
639 \newif\ifPT@float\PT@floatfalse
640 \define@boolkey{placetable}{float}[true]{%
641     \ifKV@placetable@float%
642         \PT@floattrue%
643     \else%
644         \PT@floatfalse%
645     \fi%
646 }
647
```

```

648 \newif\ifPT@caption\PT@captionfalse
649 \define@key{placetable}{caption}{%
650     \PT@captiontrue%
651     \renewcommand\PTcaption{#1}%
652 }
653 \define@key{placetable}{captionfont}{%
654     \renewcommand\PTcaptionfont{#1}%
655 }
656 \define@key{placetable}{captionstyle}{%
657     \renewcommand\PTcaptionstyle{\captionstyle{#1}}%
658 }
659
660 \newif\ifPT@label\PT@labelfalse
661 \define@key{placetable}{label}{%
662     \PT@labeltrue%
663     \renewcommand\PTlabel{#1}%
664 }
665
666 \define@key{placetable}{tabularfont}{%
667     \renewcommand\PTfont{#1}%
668 }
669 \define@key{placetable}{tabularstyle}{%
670     \renewcommand\PTstyle{#1}%
671 }
672
673 \define@key{placetable}{topspace}{%
674     \setlength\PTtopspace{#1}
675 }
676 \define@key{placetable}{bottomspace}{%
677     \setlength\PTbottomspace{#1}
678 }
679
680 \newcommand\setplacetable[1]{%
681     \presetkeys{placetable}{#1}{}%
682 }
683
684 \newcommand\resetplacetable{%
685     \PT@captionfalse%
686     \PT@labelfalse%
687 }
688
689 \setplacetable{
690     topspace=\baselineskip-\parskip,
691     bottomspace=\baselineskip-\parskip,
692     float=false,
693     captionfont=\rmfamily\small\bfseries,
694     captionstyle=\tabcaptionstyle,
695     tabularfont=\sffamily\small,
696     tabularstyle=\tabcaptionstyle
697 }

```

```
698
699
700 \newcommand\placetable[2][\%
701 \resetplacetable
702 \setkeys{placetable}{#1}%
703 \sbox{\PTbox}{\PTfont#2}%
704 \ifPT@float%
705     \begin{table}[!hbt]%
706         \putPT%
707     \end{table}%
708 \else%
709     \PTtopskip%
710     \begin{minipage}{\linewidth}%
711         \putPT%
712     \end{minipage}%
713     \PTbottomskip%
714 \fi%
715 }
716
717 \newcommand\putPT{%
718 \if@vartwo%
719     \settowidth{\PTboxwidth}{\usebox{\PTbox}}%
720     \ifdim \PTboxwidth > \linewidth%
721         \addtolength{\PTboxwidth}{-\linewidth}%
722         \begin{adjustwidth}{-\PTboxwidth}{0pt}%
723             \putPTx%
724         \end{adjustwidth}%
725     \else%
726         \putPTx%
727     \fi%
728 \else%
729     \putPTx%
730 \fi%
731 }
732
733 \newcommand\putPTx{%
734 \ifPT@caption%
735     \PTcaptionstyle%
736     \ifPT@float%
737
738         \PTcaptionfont\caption{\PTcaption}\ifPT@label\label{\PTlabel}\fi\vspace{1.25ex}%
739     \else%
740         \captionnamefont{\PTcaptionfont}%
741         \captiontitlefont{\PTcaptionfont}%
742         \tabcaption{\PTcaption}\ifPT@label\label{\PTlabel}\fi%
743     \fi%
744 \fi%
745 \PTstyle\usebox{\PTbox}%
746 }
```

```

747 % IT stands for illusttable * * * * *
748 % to place a tabular with its text in a row
749 %\newlength\tabalignment
750 %\setlength\tabalignment{-.5\baselineskip}
751 %\newcommand{\tabalign}{\mbox{\}\[\tabalignment]}
752
753 \newlength\ITtopspace
754 \newlength\ITbottomspace
755 \newcommand\ITtopskip{\vspace{\ITtopspace}\par\noindent}
756 \newcommand\ITbottomskip{\vspace{\ITbottomspace}\par}
757
758 \newsavebox{\ITbox}
759 \newlength{\ITboxwidth}
760 \newlength{\ITboxheight}
761
762 \newcommand\ITcaption{}
763 \newcommand\ITcaptionfont{}
764 \newcommand\ITcaptionstyle{}
765 \newcommand\ITlabel{}
766 \newcommand\ITfont{}
767 \newcommand\ITstyle{}
768 \newcommand\ITjustify{\raggedleft}
769 \newcommand\ITalign{t}
770 \newlength\ITtablewidth
771 \newlength\ITprotrude
772
773 \newif\ifIT@caption\IT@captionfalse
774 \define@key{illusttable}{caption}{%
775     \IT@captiontrue%
776     \renewcommand\ITcaption{#1}%
777 }
778 \define@key{illusttable}{captionfont}{%
779     \renewcommand\ITcaptionfont{#1}%
780 }
781 \define@key{illusttable}{captionstyle}{%
782     \renewcommand\ITcaptionstyle{\captionstyle{#1}}%
783 }
784 \newif\ifIT@label\IT@labelfalse
785 \define@key{illusttable}{label}{%
786     \IT@labeltrue
787     \renewcommand\ITlabel{#1}%
788 }
789
790 \define@key{illusttable}{tabularfont}{%
791     \renewcommand\ITfont{#1}%
792 }
793
794 \define@key{illusttable}{textstyle}{%
795     \renewcommand\ITstyle{#1}%
796 }

```

```
797
798 \newif\ifIT@left\IT@leftfalse
799 \define@key{illusttable}{tableposition}[left]{%
800     \ifthenelse{\equal{#1}{left}}{%
801         \IT@lefttrue
802     }{%
803         \IT@leftfalse
804     }%
805 }
806
807 \newif\ifIT@fixed\IT@fixedfalse
808 \define@key{illusttable}{tablewidth}{%
809     \setlength\ITtablewidth{#1}%
810     \ifdim \ITtablewidth > \nulllength%
811         \IT@fixedtrue%
812     \else%
813         \IT@fixedfalse%
814     \fi%
815 }
816
817 %\newif\ifIT@protrude\IT@protrudefalse % to disable protruding for the vartwo layout
818 %\define@boolkey{illusttable}{protrude}[true]{%
819 %    \ifKV@illusttable@protrude%
820 %        \IT@protrudetrue%
821 %        \setlength\ITprotrude{\figprotrude}%
822 %    \else%
823 %        \IT@protrudefalse%
824 %        \setlength\ITprotrude{0pt}%
825 %    \fi%
826 %}
827
828 \define@boolkey{illusttable}{protrude}[true]{%
829     \ifKV@illusttable@protrude\else%
830         \setlength\ITprotrude{0pt}%
831     \fi%
832 }
833
834 \define@key{illusttable}{protrudelength}{%
835     \setlength\ITprotrude{#1}%
836 }
837
838
839 \define@key{illusttable}{tablejustify}{%
840     \renewcommand\ITjustify{#1}%
841 }
842
843 \define@key{illusttable}{align}{%
844     \ifthenelse{\equal{#1}{top}}{\renewcommand\ITalign{b}}{}
845     \ifthenelse{\equal{#1}{middle}}{\renewcommand\ITalign{m}}{}
846     \ifthenelse{\equal{#1}{bottom}}{\renewcommand\ITalign{t}}{}

```



```

847 }
848
849 \define@key{illusttable}{topspace}{%
850     \setlength\ITtopspace{#1}
851 }
852 \define@key{illusttable}{bottomspace}{%
853     \setlength\ITbottomspace{#1}
854 }
855
856 \newcommand\setillusttable[1]{%
857     \presetkeys{illusttable}{#1}{}%
858 }
859
860 \newcommand\resetillusttable{%
861     \IT@captionfalse%
862     \IT@labelfalse%
863 }
864
865 %\hangcaption
866 \setillusttable{
867     topspace=.35\baselineskip-\parskip,
868     bottomspace=.65\baselineskip-\parskip,
869     captionfont=\rmfamily\small\bfseries,
870     captionstyle=\tabcaptionstyle,
871     tabularfont=\sffamily\small,
872     textstyle=\sloppy,%\fussy
873     protrude=true,
874     protrudelength=\figprotrude,
875     tableposition=left,
876     tablewidth=0em,
877     align=top
878 }
879
880 \newcommand\illusttable[3][ ]{%
881 \resetillusttable%
882 \setkeys{illusttable}{#1}%
883 \sbox{\ITbox}{\ITfont#2}%
884 \putIT{#3}%
885 }
886
887 \newcommand\putIT[1]{%
888 \ifIT@fixed
889     \setlength{\ITboxwidth}{\ITtablewidth}
890 \else
891     \settowidth{\ITboxwidth}{\usebox{\ITbox}}%
892 \fi
893 \ifIT@left%
894     \setlength\leftboxwidth{\ITboxwidth}%
895     \setlength{\rightboxwidth}{\illustwidth-\leftboxwidth-\interwidth}%
896 \else%

```

```
897         \setlength\rightboxwidth{\ITboxwidth}%
898         \setlength{\leftboxwidth}{\illustwidth-\rightboxwidth-\interwidth}%
899 \fi%
900 \if@vartwo
901     \ifIT@left%
902         \addtolength\rightboxwidth{\ITprotrude}%
903     \else%
904         \addtolength\leftboxwidth{\ITprotrude}%
905     \fi%
906 \fi%
907 \ITtopskip%
908 \begin{minipage}[t]{\illustwidth}%
909     \hspace*{-\ITprotrude}%
910     \begin{minipage}[\ITalign]{\leftboxwidth}%
911         \putITleft{#1}%
912     \end{minipage}%
913     \hspace{\interwidth}%
914     \begin{minipage}[\ITalign]{\rightboxwidth}%
915         \putITright{#1}%
916     \end{minipage}%
917 \end{minipage}%
918 \ITbottomskip%
919 }
920
921 \newcommand\putITleft[1]{%
922 \ifIT@left%
923     \ITjustify\usebox{\ITbox}\putITcaption%
924 \else%
925     \ITstyle#1%
926 \fi%
927 }
928
929 \newcommand\putITright[1]{%
930 \ifIT@left%
931     \ITstyle#1%
932 \else%
933     \ITjustify\usebox{\ITbox}\putITcaption%
934 \fi%
935 }
936
937 \newcommand\putITcaption{%
938 \ifIT@caption%
939     \ITcaptionstyle%
940     \captionnamefont{\ITcaptionfont}%
941     \captiontitlefont{\ITcaptionfont}%
942     \tabcaption{\ITcaption}\label{\ITlabel}%
943 \fi%
944 }
945
946 %\newcommand\fixedillusttable[3][]{%
```

```
947 %\illusttable[tablewidth=\fixedwidth, #1]{#2}{#3}%
948 %}
949
950 \let\placefig\placefigure
951 \let\illustfig\illustfigure
952
953 \AtBeginDocument{
954 \let\orgscale\figscale
955 \setlength\illustwidth{\linewidth}
956 \ifthenelse{\boolean{@vartwo}}{
957     \setlength\figprotrude{\marginparwidth}
958 }{
959     \setlength\figprotrude{0pt}
960 }
961 \setlength\fixedwidth{\figprotrude}
962 }
```

A.3 hoze-misc.sty

```
1  \ProvidesPackage{hoze-misc}[2010/02/01 v1.00 Miscellaneous macros for technical writing]
2
3  \RequirePackage{ifluatex}
4  \RequirePackage{xkeyval}
5  \RequirePackage{kvoptions}
6  \RequirePackage{xifthen}
7  \RequirePackage{calc}
8  \RequirePackage{relsize}
9  \RequirePackage{enumitem}
10 \RequirePackage{twoopt} % for submenu
11 \RequirePackage{graphicx}
12 \RequirePackage{xcolor}
13 \RequirePackage{fancybox}
14 \RequirePackage{eso-pic} % for watermark and page tab with chapter number.
15 \RequirePackage{tikz}
16
17 % DIVISION * * * * *
18 \renewcommand{\chapterrefname}{\chaptername~}
19 \renewcommand{\tablerefname}{\tablename}
20 \renewcommand{\figurerefname}{\figurename}
21
22 \maxsecnumdepth{subsection}
23 \setsecnumdepth{subsection}
24 \settocdepth{subsection}
25 \newcommand\secnewpageon{%
26     \setsechook{\ifthenelse{\equal{\value{section}}{0}}{\}{\clearpage}}%
27 }
28 \newcommand\subsecnewpageon{%
29     \setsubsechook{\ifthenelse{\equal{\value{subsection}}{0}}{\}{\clearpage}}%
30 }
31 \newcommand\secnewpageoff{\setsechook{}}
32 \newcommand\subsecnewpageoff{\setsubsechook{}}
33 %\define@boolkey{style}{secnewpage}[true]{
34
35 % chapter, section & paragraph style * * * * *
36 %\setlength\footnotesep{.75\baselineskip}
37 \setSpacing{1.25} %\OnehalfSpacing = \setSpacing{1.35} at 9pt by memoir
38
39 \define@key{style}{paragraph}[boundary]{
40     \ifthenelse{\equal{#1}{indent}}{
41         \setlength{\parindent}{1em}
42     }{
43         \ifthenelse{\equal{#1}{boundary}}{
44
45             \abnormalparskip{.25\baselineskip plus .1\baselineskip minus .1\baselineskip}
46             \setlength{\parindent}{0em}
47         }{
48             \raggedbottom
49         }
50     }
51 }
```

```

48     \chapterstyle{hoze}
49     \sloppy%\fussy
50     \firmlists
51 }
52
53
54 \ProcessKeyvalOptions{style}
55
56 \newcommand{\nil}{\rule{0pt}{0pt}}
57 %\def\thinspace{\hspace{.16667em}\relax}
58
59 % chapter
60 \newcommand\chpfont{\normalfont\bfseries}
61 \newcommand\chpalig{\raggedright}
62
63 \makechapterstyle{hoze}{%
64     \renewcommand{\chapnamefont}{\chpalig\huge\chpfont}
65     \renewcommand{\chapnumfont}{\chpalig\huge\chpfont}
66     \renewcommand{\chaptitfont}{\chpalig\Huge\chpfont}
67     \setlength{\beforechapskip}{50pt}
68     \setlength{\midchapskip}{20pt}
69     \setlength{\afterchapskip}{40pt}
70 }
71
72 % section
73 \setbeforesecskip{-2.5ex \@plus -1ex \@minus -.5ex}
74 \setaftersecskip{1.5ex \@plus .1ex}
75 \setbeforesubsecskip{-2ex \@plus -1ex \@minus -.5ex}
76 \setaftersubsecskip{1.ex \@plus .1ex}
77 \setbeforesubsubsecskip{-2.ex \@plus -1ex \@minus -.5ex}
78 \setaftersubsubsecskip{1.ex \@plus .1ex}
79
80 % appendix
81 \makechapterstyle{appendixhoze}{%
82     \renewcommand{\prechapternum}{\chapnumfont\@chapapp}
83     \renewcommand{\postchapternum}{\}
84     \renewcommand{\chapternamenum}{\enskip}
85     \renewcommand\printchapternum{\chapnumfont \thechapter}
86     \setlength{\beforechapskip}{50pt}
87     \setlength{\midchapskip}{20pt}
88     \setlength{\afterchapskip}{40pt}
89 }
90
91 % header, footer and tab * * * * *
92 \newcommand\foliomarks{%
93 \renewcommand{\chaptermark}[1]{\chaptertabswitch\markboth{##1}{}}
94 \if@mainmatter
95     \renewcommand{\sectionmark}[1]{\markright{\thesection~##1}}
96 \else
97     \renewcommand{\sectionmark}[1]{\markright{##1}}

```

```
98 \fi
99 }
100 \addtodef{\frontmatter}{\foliomarks}
101 \addtodef{\mainmatter}{\foliomarks}
102
103 % colours
104 %\definecolor{PantoneCCLXXXVIIc}{cmyk}{1, 0.68, 0, 0.12} % blue 287c
105 %\color{PantoneCCLXXXVIIc}
106
107 % Language Tab
108 \newcommand\language\label{EN}
109 \newcounter{pagetabunit}
110 \newcounter{pagetabturn}
111 \newcounter{pagetabx}
112 \newcounter{pagetaby}
113 \newcounter{pagetabyorg}
114 \newcounter{pagetabwidth}
115 \newcounter{pagetabheight}
116 \newcounter{pagetabysep}
117 \newcommand\pagetabcolor{}
118 \newcommand\pagetablabel{}
119 \newcommand\pagetabfont{\LARGE\sffamily\bfseries}
120
121 \define@key{pagetab}{unit}{%
122     \setcounter{pagetabunit}{#1}%
123 }
124
125
126 \define@key{pagetab}{x}{%
127     \setcounter{pagetabx}{#1}%
128 }
129
130 \define@key{pagetab}{y}{%
131     \setcounter{pagetaby}{#1}%
132     \setcounter{pagetabyorg}{#1}%
133 }
134
135 \define@key{pagetab}{width}{%
136     \setcounter{pagetabwidth}{#1}%
137 }
138
139 \define@key{pagetab}{height}{%
140     \setcounter{pagetabheight}{#1}%
141 }
142
143 \define@key{pagetab}{yspace}{%
144     \setcounter{pagetabysep}{#1}
145 }
146
147 \define@key{pagetab}{color}{%
```

```

148         \renewcommand\pagetabcolor{#1}%
149     }
150
151     \define@key{pagetab}{font}{%
152         \renewcommand\pagetabfont{#1}%
153     }
154
155     \newcommand\chaptertabswitch{}
156
157     \define@boolkey{pagetab}{off}[true]{%
158         \ifKV@pagetab@off%
159             \renewcommand\chaptertabswitch{}%
160         \fi%
161     }
162
163     \define@boolkey{pagetab}{on}[true]{%
164         \ifKV@pagetab@on%
165             \renewcommand\chaptertabswitch{\chaptertabx}%
166             \addtodef{\printindex}{\ClearShipoutPicture}{}%
167         \fi%
168     }
169
170     \newcommand\pagetab{%
171         \AddToShipoutPicture{%
172             \setlength{\unitlength}{1mm}%
173             \setlength{\fboxsep}{0pt}%
174             \ifthenelse{\isodd{\number\c@page}}{%
175                 \put(\thepagetabx, \thepagetaby){%
176                     \colorbox{\pagetabcolor}{%
177                         \makebox(\thepagetabwidth, \thepagetabheight){%
178                             \textcolor{white}{\pagetabfont\pagetablabel\quad}%
179                         }%
180                     }%
181                 }%
182             }{}%
183         }%
184     }
185
186     \newcommand\chaptertabx{%
187         \renewcommand\pagetablabel{\thechapter}%
188         \ClearShipoutPicture%
189         \if@mainmatter%
190             \pagetab%
191             \addtocounter{pagetaby}{\thepagetabysep}%
192             \pagetabyreturn%
193         \fi%
194     }
195
196     \newcommand\pagetabyreturn{%
197         \ifthenelse{\value{pagetabunit}>0}{%

```

```
198         \ifthenelse{\value{chapter}>\value{pagetabunit}}{%
199             \setcounter{pagetabturn}{\thechapter-\thepagetabunit}%
200             \whiledo{\value{pagetabturn}>\value{pagetabunit}}{%
201                 \setcounter{pagetabturn}{\thepagetabturn-\thepagetabunit}%
202             }%
203             \ifthenelse{\value{pagetabturn}=1}{%
204                 \setcounter{pagetaby}{\thepagetabyorg}%
205             }{%
206                 {}%
207             }%
208     }
209
210     \newcommand\chaptertab[1]{%
211         \setkeys{pagetab}{#1}%
212     }
213
214     \newcommand\setchaptertab[1]{%
215         \presetkeys{pagetab}{#1}{}%
216     }
217
218
219     % the unit is mm.
220     \setchaptertab{
221         unit=0,
222         x=140,
223         y=150,
224         width=12,
225         height=8,
226         yspace=-10,
227         color=black,
228         font=\LARGE\sffamily\bfseries
229     }
230
231     %\newcommand\chaptertabon{
232     %    \setkeys{pagetab}{}%
233     %    \renewcommand\chaptertabswitch{\chaptertab}
234     %    \addtoedef{\printindex}{\ClearShipoutPicture}{%
235     %        %\addtoedef{\printindex}{\ClearShipoutPicture\indexfont}{%
236     %    }%
237
238     %\newcommand\chaptertaboff{
239     %    \renewcommand\chaptertabswitch{}
240     %    %\addtoedef{\printindex}{\indexfont}{%
241     %    }%
242
243     \define@boolkey{style}{chaptertab}[true]{
244         \ifKV@style@chaptertab
245             \chaptertab{on}
246         \fi
247     }
```



```

248 \newcommand\langtab{
249     \renewcommand\pagetablabel{\language\label}
250 }
251
252 % watermark * * * * *
253 % usage:
254 %\watermark{x=30, y=30, angle=50, fontsize=90, color=red, text={Hoze is so hot!}}
255 %\watermark{x=50, y=100, scale=2, angle=-45, figure=Topfield}
256
257 \newif\if@watermarkfigure\@watermarkfiguretrue
258 \newcounter{watermarkx}
259 \newcounter{watermarky}
260 \definecolor{watermarkgray}{gray}{0.85}
261 \newcommand\watermarkcolor{watermarkgray}
262 \newcommand\watermarkfont{\sfamily}
263 \newcommand\watermarkfontsize{}
264 \newcommand\watermarktext{}
265 \newcommand\watermarkangle{}
266 \newcommand\watermarkfigure{}
267 \newcommand\watermarkfigurescale{}
268
269 \define@key{watermark}{x}{%
270     \setcounter{watermarkx}{#1}%
271 }
272 \define@key{watermark}{y}{%
273     \setcounter{watermarky}{#1}%
274 }
275 \define@key{watermark}{text}{%
276     \@watermarkfigurefalse%
277     \renewcommand\watermarktext{#1}%
278 }
279 \define@key{watermark}{font}{%
280     \renewcommand\watermarkfont{#1}%
281 }
282 \define@key{watermark}{fontsize}{%
283     \renewcommand\watermarkfontsize{\fontsize{#1}{10}\selectfont}%
284 }
285 \define@key{watermark}{color}{%
286     \renewcommand\watermarkcolor{#1}%
287 }
288 \define@key{watermark}{angle}{%
289     \renewcommand\watermarkangle{#1}%
290 }
291 \define@key{watermark}{figure}{%
292     \@watermarkfiguretrue%
293     \renewcommand\watermarkfigure{#1}%
294 }
295 \define@key{watermark}{scale}{%
296     \renewcommand\watermarkfigurescale{#1}%
297 }

```

```
298
299 \newcommand\setwatermark[1]{%
300     \presetkeys{watermark}{#1}{}%
301 }
302
303 \setwatermark{
304     fontsize=80,
305     angle=62
306 }
307
308 \newcommand\watermark[1]{%
309     \setkeys{watermark}{#1}%
310     \if@watermarkfigure%
311         \putwatermarkfigure%
312     \else%
313         \putwatermarktext%
314     \fi%
315 }%
316
317 \newcommand\putwatermarktext{
318 \AddToShipoutPicture{%
319     \setlength{\unitlength}{1mm}%
320     \put(\thewatermarkx, \thewatermarky){%
321         \rotatebox{\watermarkangle}{%
322             %
323             \textcolor{\watermarkcolor}{\watermarkfont\watermarkfontsize\watermarktext}%
324             }%
325         }%
326     }
327
328 \newcommand\putwatermarkfigure{
329 \AddToShipoutPicture{%
330     \setlength{\unitlength}{1mm}%
331     \put(\thewatermarkx, \thewatermarky){%
332         \rotatebox{\watermarkangle}{%
333             %
334             \includegraphics[scale=\watermarkfigurescale]{\watermarkfigure}%
335             }%
336         }%
337     }
338
339 \newcommand\clearwatermark{\ClearShipoutPicture}
340
341 % For the shaded environment
342 \definecolor{shadecolor}{gray}{0.9}
343
344 % FONT & INDEX * * * * *
345 %\RequirePackage{type1ec}
```

```

346
347 \newcommand\indexfont{\small\rmfamily}
348 \addtodef{\printindex}{\indexfont}{%
349 \setlength\indexcolsep{2.5em}
350 %\newcommand\symbolheadname{}
351 %\newcommand\numberheadname{}
352
353 %\newcommand\proper[1]{\emph{#1}\index{#1 @{\emph{#1}}}}
354 % \proper{}: put in the index
355 % \proper*{}: NOT put in the index
356 \newcommand\properfont{\itshape}
357 \newcommand\proper{\@ifstar{\propera}{\properb}}
358 \newcommand\propera[1]{\{\properfont#1\}}
359 \newcommand\properb[2][\@empty]{%
360     \propera{#2}%
361     \ifx#1\@empty%
362         \index{#2@{\properfont#2}}%
363     \else%
364         \index{#1@{\properfont#2}}%
365     \fi%
366 }
367
368
369 \newcommand\termfont{}
370 \define@key{term}{font}{%
371     \renewcommand\termfont{#1}%
372 }
373
374 \newcommand\termemphfont{}
375 \define@key{term}{emphfont}{%
376     \renewcommand\termemphfont{#1}%
377 }
378
379 \newif\ifterm@index\term@indexfalse
380 \newcommand\terminde{\indexfont}
381 \define@key{term}{index}{%
382     \renewcommand\terminde{#1}%
383     \term@indextrue
384 }
385
386 \newcommand\setterm[1]{%
387     \presetkeys{term}{#1}{%
388     }
389
390 \setterm{%
391     font={},%
392     emphfont={\itshape}%
393 }
394
395

```

```
396 \newcommand\term[2] [] {%
397     \term@indexfalse%
398     \setkeys{term}{#1}%
399     {\termfont#2}%
400     \ifterm@index%
401         \index{\termindex @{\termfont#2}}%
402     \else%
403         \index{#2@{\termfont#2}}%
404     \fi%
405 }
406
407 \newcommand\termf{\@ifstar{\termfb}{\termfa}}
408
409 \newcommand\termfa[2] [] {
410     \term@indexfalse%
411     \setkeys{term}{#1}%
412     {\termemphfont#2}%
413     \ifterm@index%
414         \index{\termindex @{\termemphfont#2}}%
415     \else%
416         \index{#2@{\termemphfont#2}}%
417     \fi%
418 }
419
420 \newcommand\termfb[1] {\{\termemphfont#1\}}
421
422 %\newcommand\term[2] [\@empty] {#2\ifx\@empty#1\index{#2}\else\index{#1@#2}\fi}
423 %\newcommand\termdef[1] {\index{#1|IndexBf}#1}
424 %\newcommand*\IndexBf[1] {\textbf{\hyperpage{#1}}}
425 % something should be done to be processed by texindy
426 %\newcommand\termdef[1] {\index{#1|hyperpagebf}#1}
427 %\newcommand*\hyperpagebf[1] {\textbf{\hyperpage{#1}}}
428 % hoze.xdy
429 %(require "lang/english/utf8-test.xdy")
430 %(define-attributes ("hyperpagebf"))
431 %(markup-locref :open "\hyperpagebf" :close "]" :attr "hyperpagebf")
432
433 % \ui{}: NOT put in the index
434 % \ui*{}: put in the index
435 \newcommand\UIFont{\sffamily}
436 \newcommand\ui{\@ifstar{\uib}{\uia}}
437 \newcommand\uia[1] {\{\UIFont#1\}}
438 \newcommand\uib[2] [\@empty] {%
439     \uia{#2}%
440     \ifx#1\@empty%
441         \index{#2@{\UIFont#2}}%
442     \else%
443         \index{#1@{\UIFont#2}}%
444     \fi%
445 }
```

```

446 \newcommand\uibf[1]{\ui{\bfseries#1}}
447 \let\ui\uib
448
449 % \button{}: NOT put in the index
450 % \button*{}: put in the index
451 \newcommand\buttonfont{\uifont}
452 \newcommand\button{\@ifstar{\buttonb}{\buttona}}
453 \newcommand\buttona[1]{\{%
454     \setlength{\fboxsep}{1.2pt}%
455     \ovalbox{\relsize{-1}\buttonfont#1}%
456 }}
457 \newcommand\buttonb[2][\@empty]{%
458 \buttona{#2}
459     \ifx#1\@empty%
460         \index{#2@{\buttonfont#2}}%
461     \else%
462         \index{#1@{\buttonfont#2}}%
463     \fi%
464 }
465 %\newcommand\buttoni[1]{\button*{#1}}
466 \let\buttoni\buttonb
467 \let\btn\button
468
469 \newcommandtwoopt{\submenu}[4][\@empty][\@empty]{
470 \ifx#1\@empty%
471     \ui{#3} $>$ \ui*{#4}%
472 \else%
473     \ifx#2\@empty%
474         \ui{#1} $>$ \ui{#3} $>$ \ui*{#4}%
475     \else%
476         \ui{#1} $>$ \ui{#2} $>$ \ui{#3} $>$ \ui*{#4}%
477     \fi%
478 \fi%
479 }
480
481
\newcommand\registered{\raisebox{1ex}{\scriptsize\textcircled{\tiny \raisebox{-.15ex}{R}}}}
482
483 %\usetikzlibrary{positioning}
484
485 \newcommand\wrapnumfont{\wrapnumbf}
486 \newcommand\wrapnumbf{\bfseries}
487 \newcommand\wrapnumbase{}
488 \newlength\wrapnumwidth
489 %\newlength\wrapnumheight
490 \newlength\wrapsep
491 \setlength\wrapsep{1.5pt}
492 \newcommand\wrapbgcolor{black}
493 \newcommand\wrapfgcolor{white}
494

```

```
495 %\newcommand{\cirnum}[1]{\textcircled{\relsize{-3}\raisebox{.1ex}{#1}}}
496 \newcommand\cirnum[1]{%
497     \raisebox{-.25\baselineskip}{\abnormalparskip{0pt}
498         \tikz\node[%
499             circle, draw=\wrapfgcolor, thin, inner sep=.1\wrapsep,
500             top color=\wrapbgcolor, bottom color=\wrapbgcolor,
501             text width=\wrapnumwidth,
502             font=\wrapnumfont, text badly centered, \wrapfgcolor
503             ]{#1};%
504     }%
505 }
506
507
508 \newcommand\ovalnum[1]{%
509     \raisebox{-.15\baselineskip}{\abnormalparskip{0pt}
510         \tikz\node[%
511             rectangle, draw=\wrapfgcolor, thin, inner sep=\wrapsep,
512             rounded corners=3pt,
513             top color=\wrapbgcolor, bottom color=\wrapbgcolor,
514             text width=\wrapnumwidth,
515             font=\wrapnumfont, text badly centered, \wrapfgcolor
516             ]{#1};%
517     }%
518 }
519
520 \newcommand\recnum[1]{%
521     \raisebox{-.15\baselineskip}{\abnormalparskip{0pt}
522         \tikz\node[%
523             rectangle, draw=\wrapfgcolor, thin, inner sep=\wrapsep,
524             top color=\wrapbgcolor, bottom color=\wrapbgcolor,
525             text width=\wrapnumwidth,
526             font=\wrapnumfont, text badly centered, \wrapfgcolor
527             ]{#1};%
528     }%
529 }
530
531 %\renewcommand\recnum[1]{%
532 %    \setlength\fbboxsep{\wrapsep}%
533 %    \colorbox{\wrapbgcolor}{%
534 %        \parbox{\wrapnumwidth}{%
535 %            \centering\textcolor{\wrapfgcolor}{\wrapnumfont#1}%
536 %        }%
537 %    }%
538 %}
539
540 \define@key{wrapnum}{base}{%
541     \renewcommand\wrapnumbase{#1}%
542     \setwrapnumwidth%
543 }
544 \define@key{wrapnum}{font}{%
```

```

545     \renewcommand\wrapnumfont{\wrapnumbf#1}%
546     \setwrapnumwidth%
547 }
548
549 \newcommand\setwrapnumwidth{%
550     \settowidth\wrapnumwidth{\wrapnumfont\wrapnumbase}%
551 }
552
553 \define@key{wrapnum}{type}[circle]{%
554     \ifthenelse{\equal{#1}{circle}}{\let\wrapnum\cirnum}{}%
555     \ifthenelse{\equal{#1}{rectangle}}{\let\wrapnum\recnum}{}%
556     \ifthenelse{\equal{#1}{oval}}{\let\wrapnum\ovalnum}{}%
557 }
558
559 \define@key{wrapnum}{background}{
560     \renewcommand\wrapbgcolor{#1}
561 }
562
563 \define@key{wrapnum}{foreground}{
564     \renewcommand\wrapfgcolor{#1}
565 }
566
567 \define@key{wrapnum}{color}{%
568     \ifthenelse{\equal{#1}{white}}{%
569         \renewcommand\wrapbgcolor{white}%
570         \renewcommand\wrapfgcolor{black}%
571         \renewcommand\wrapnumbf{}%
572     }{%
573         \ifthenelse{\equal{#1}{black}}{%
574             \renewcommand\wrapbgcolor{black}%
575             \renewcommand\wrapfgcolor{white}%
576             \renewcommand\wrapnumbf{\bfseries}%
577         }{%
578         }
579     }
580 \define@key{wrapnum}{wrapseparate}{%
581     \setlength\wrapsep{#1}%
582 }
583
584 \newcommand\setwrapnum[1]{%
585     \setkeys{wrapnum}{#1}%
586 }
587
588 \newcommand\wrapcharhook{}
589 \define@boolkey{wrapnum}{random}[true]{
590     \ifKV@wrapnum@random%
591         \renewcommand\wrapcharhook{\randomwrapnum}%
592     \else%
593         \renewcommand\wrapcharhook{}%
594     \fi%

```

```
595 }%
596
597 \setwrapnum{%
598     type=rectangle,
599     base=99,
600 }
601
602 %%\wrapchar{ Daum }
603 %% luatex
604 \ifluatex
605 \RequirePackage{lcg}
606 \newcommand\randomwrapnum{%
607 \chgrand[first=0,last=2,quiet]\rand%
608 \ifcase\therand%
609     \setkeys{wrapnum}{type=circle}%
610     \or \setkeys{wrapnum}{type=rectangle}%
611     \or \setkeys{wrapnum}{type=oval}%
612 \fi%
613 \chgrand[first=0,last=1,quiet]\rand%
614 \ifcase\therand%
615     \setkeys{wrapnum}{color=black}%
616     \or \setkeys{wrapnum}{color=white}%
617 \fi%
618 }
619
620 \newcommand\wrapchar[2][]{%
621     \setwrapnum{#1}%
622     \@wrapchar#2|{%
623 }
624 \def\@wrapchar#1|{%
625     \directlua{%
626         local utf8 = unicode.utf8
627         str = "#1"
628         for i=1, utf8.len(str) do
629             char=utf8.sub(str, i, i)
630             if char==' ' then
631                 macro = "\string\\hspace{0.5em}"
632             else
633
634                 macro = "\string\\wrapcharhook\string\wrapnum{..char..}\string\\hspace{-0.5em}"
635             end
636             tex.print(macro)
637         end
638     }%
639 }
640 \else
641 \newcommand\wrapchar[2][]{%
642     \setkeys{wrapnum}{#1}%
643     \wrapnum{#2}
644 }
```



```

644 \fi
645 %% xetex & luatex
646 %\def\wrapchar#1{\wrapcharx#1|}
647 %\def\wrapcharx{\afterassignment\wrapcharxx\let\next= }
648 %\def\wrapcharxx{\ifx|\next\else\wrapnum\next\expandafter\wrapcharx\fi}
649
650 % terms list * * * * *
651 \setenumerate{topsep=\itemsep} % setting by the enumitem package
652 \setitemize{topsep=\itemsep} % setting by the enumitem package
653
654 \newcommand\termshighindex{}
655 \newlength\termslabelwidth{}
656 \newlength\termslabelsep{}
657 \newlength\termslabeloffset{}
658 \newlength\termsmarkersep{}
659 \newcommand\termslabelbase{\quad}
660 \newcommand\termslabelfont{\sffamily}
661 %\newcommand\cmdfont{\ttfamily}
662 \newcommand\termsmarker{}
663 \newcommand\termsdelim{}
664 \newcommand\termsfont{}
665 \newcommand\termsjustify{}
666 \newcommand\termsitemsep{}
667 \newcounter{termsenum}
668 \renewcommand\thetermsenum{\wrapnum{\arabic{termsenum}}}
669
670 \newif\ifterms@index\terms@indexfalse
671 \define@key{terms}{index}[true]{%
672     \ifthenelse{\equal{#1}{true}}{\terms@indextrue}{}
673     \ifthenelse{\equal{#1}{on}}{\terms@indextrue}{}
674     \ifthenelse{\equal{#1}{false}}{\terms@indexfalse}{}
675     \ifthenelse{\equal{#1}{off}}{\terms@indexfalse}{}
676 }
677
678 \newif\ifterms@highindex\terms@highindexfalse
679 \define@key{terms}{highindex}{%
680     \terms@highindextrue%
681     \renewcommand\termshighindex{#1}%
682 }
683
684 \newif\ifterms@enum\terms@enumfalse
685 \define@boolkey{terms}{enumerate}[true]{%
686     \ifKV@terms@enumerate%
687         \terms@enumtrue%
688         \renewcommand\termsmarker{\thetermsenum\hspace{\termsmarkersep}}%
689         \setkeys{terms}{labeloffset=1em}
690     \else%
691         \terms@enumfalse
692     \fi%
693 }

```

```
694
695 \define@key{terms}{enumeratelabel}{%
696     \renewcommand\thetermsenum{#1}%
697 }
698
699 \define@key{terms}{labelbase}{%
700     \renewcommand\termslabelbase{#1}%
701 }
702
703 \define@key{terms}{base}{%
704     \renewcommand\termslabelbase{#1}%
705 }
706
707 \define@key{terms}{labelfont}{%
708     \renewcommand\termslabelfont{#1}%
709 }
710
711 %\define@key{terms}{cmdfont}{%
712 %    \renewcommand\cmdfont{#1}%
713 %}
714
715 \define@key{terms}{marker}{%
716     \renewcommand\termsmarker{#1\hspace{\termsmarkersep}}%
717 }
718
719 \define@key{terms}{markerspace}{%
720     \setlength\termsmarkersep{#1}%
721 }
722
723 \define@key{terms}{labelspace}{%
724     \setlength\termslabelsep{#1}%
725 }
726
727 \define@key{terms}{delimiter}{%
728     \renewcommand\termsdelim{#1}%
729 }
730
731 \define@key{terms}{labeloffset}{%
732     \setlength\termslabeloffset{#1}%
733 }
734
735 \define@key{terms}{font}{%
736     \renewcommand\termsfont{#1}%
737 }
738
739 \define@key{terms}{justify}{%
740     \renewcommand\termsjustify{#1}%
741 }
742
743 \define@key{terms}{iteminterval}{%
```

```

744         \renewcommand\termsitemsep{#1}% =\firmlist, \tightlist
745     }
746
747     \newcommand\setterms[1]{%
748         \presetkeys{terms}{#1}{}%
749     }
750
751     \newcommand\resetterms{%
752         \terms@indexfalse%
753         \terms@highindexfalse%
754         \terms@enumfalse%
755     }
756
757     \setterms{
758         justify=\fussy,
759         markerspace=.5em,
760         labelspace=.5em,
761         labeloffset=0em,
762         iteminterval={}
763     }
764
765     \newenvironment{terms}[1][]{%
766         \begin{list}{}{%
767             \resetterms%
768             \setkeys{terms}{#1}%
769             \termsitemsep\termsjustify\termsfont%
770             \maketermslabel%
771             \settermsspace%
772         }{}%
773     \end{list}%
774 }
775
776 \newcommand\maketermslabel{
777     \setcounter{termsenum}{0}%
778     \renewcommand{\makelabel}[1]{%
779         \stepcounter{termsenum}%
780         {\termsmarker\termslabelfont##1}%
781         \ifterms@index%
782             \ifterms@highindex%
783                 \index{\termshighindex!\termslabelfont##1}%
784             \fi%
785             \index{##1@{\termslabelfont##1}}%
786         \fi%
787         \termsdelim\hfill%
788     }%
789 }
790
791 \newcommand\settermsspace{%
792 \settowidth\labelwidth{\termslabelfont\termsmarker\termslabelbase}\termsdelim}%
793 \setlength\labelsep{\termslabelsep}%

```

```
794 \setlength\leftmargin{\labelwidth+\labelsep+\termslabeloffset}%
795 %\setlength\topsep{1ex}%
796 \setlength\topsep{0.5\baselineskip-\parskip}
797 }
798
799 \renewcommand{\cmd}[1]{\cmdprint{#1}%
800   \index{\expandafter\@gobble\string#1\string\cmdprint{\string#1}}}
801 % ? used instead of @ in the memoir class; changed to @ here
802
803 \newenvironment{cmds}[1][]{%
804   \begin{list}{}{%
805     \resetterms%
806     \setkeys{terms}{#1}%
807     \termsitemsep\termsjustify\termsfont%
808     \makecmdslabel%
809     \settermsspace%
810   }}{%
811     \end{list}%
812   }
813
814 \newcommand\makecmdslabel{
815   \setcounter{termsenum}{0}%
816   \renewcommand{\makelabel}[1]{%
817     \stepcounter{termsenum}%
818     {\termsmarker\cmdprint{##1}}%
819
820     \ifterms@index\index{\expandafter\@gobble\string##1\string\cmdprint{\string##1}}\fi%
821     \termsdelim\hfill%
822   }%
823 }
824 % You should write like \item[Wöchentlich][Woehentlich] so that Wöchentlich will be %
% located in the position of Woehentlich.
825 %\def\termsindexitem{%
826 %  \let\ITEM\item%
827 %  \def\item{\@ifnextchar[\MYitem\MYAitem}%
828 %  \def\MYAitem{\ITEM}%
829 %  \def\MYitem[##1]{%
830 %    \def\templabel{##1}%
831 %    \@ifnextchar[\myXXitem\myXXitemA%
832 %  }%
833 %  \def\myXXitem[##1]{%
834 %    \ITEM[\templabel] \index{##1 @{\termslabelfont\templabel}}%
835 %  }%
836 %  \def\myXXitemA{%
837 %    \ITEM[\templabel] \index{\templabel @{\termslabelfont\templabel}}%
838 %  }%
839 %}
840
841 \let\listjustify\termsjustify
```

```

842 \let\deflist\terms
843 \let\enddeflist\endterms
844 \let\indlist\terms
845 \let\endindlist\endterms
846
847 % Note * * * * *
848 \newlength\alertframesep
849 \newcommand\alertlabelpos{}
850 \newcommand\alertlabel{NOTE}
851 \newcommand\alertlabelfont{}
852 \newcommand\alertfont{}
853 \newcommand\alertjustify{}
854
855 \newenvironment{myshaded}{%
856 \setlength{\FrameSep}{\alertframesep}%
857 \ifnum\@listdepth>0%
858     \def\FrameCommand##1{%
859         \fboxsep=\FrameSep%
860         \hskip\@totalleftmargin%
861         \colorbox{shadecolor}{##1}%
862         \hskip-\linewidth \hskip-\@totalleftmargin \hskip\columnwidth%
863     }%
864     \MakeFramed{%
865         \advance\hsize-\width%
866         \advance\hsize \FrameSep%
867         \@totalleftmargin\z@ \linewidth=\hsize%
868     }%
869 \else%
870     \def\FrameCommand{%
871         \fboxsep=\FrameSep %
872         \colorbox{shadecolor}%
873     }%
874     \MakeFramed{%
875         \hsize=\linewidth%
876         \advance\hsize-2\FrameSep%
877         \FrameRestore%
878     }%
879 \fi%
880 }%
881 {\endMakeFramed}
882
883 \define@key{alert}{frameseparate}{%
884     \setlength\alertframesep{#1}%
885 }
886
887 \define@key{alert}{labelposition}[left]{%
888     \ifthenelse{\equal{#1}{left}}{\renewcommand\alertlabelpos{\raggedright}}{}%
889     \ifthenelse{\equal{#1}{center}}{\renewcommand\alertlabelpos{\centering}}{}%
890     \ifthenelse{\equal{#1}{right}}{\renewcommand\alertlabelpos{\raggedleft}}{}%
891 }

```

```
892
893 \define@key{alert}{label}{%
894     \renewcommand\alertlabel{#1}%
895 }
896
897 \define@key{alert}{labelfont}{%
898     \renewcommand\alertlabelfont{#1}%
899 }
900
901 \define@key{alert}{justify}{%
902     \renewcommand\alertjustify{#1}%
903 }
904
905 \define@key{alert}{font}{%
906     \renewcommand\alertfont{#1}%
907 }
908
909 \newcommand\setalert[1]{
910     \presetkeys{alert}{#1}{}
911 }
912
913 \setalert{
914     frameseparete=0.5em,
915     labelposition=left,
916     label=NOTE,
917     labelfont=\bfseries,
918     justify=\sloppy %\fussy
919 }
920
921 \newcommand\alert[2][{}]{%
922 \setkeys{alert}{#1}%
923 \begin{myshaded}%
924 {\alertlabelpos\alertlabelfont\alertlabel\nopagebreak\par}%
925 \alertjustify\noindent\alertfont#2%
926 \end{myshaded}%
927 }
928
929 % Troubleshooting * * * * *
930 \newcounter{trouble}
931 \newcommand\ltsname{\Large List of Symptoms}
932 \newlistof{troublelist}{lts}{\ltsname}
933 \newlistentry{trouble}{lts}{0}
934 \def\ltsmark{} % to inactivate \markboth
935
936 \newcommand\symptom[1]{%
937 \subsubsection*{#1}%
938 \addcontentsline{lts}{trouble}{#1}%
939 }
940
941 % Proofreading
```

```

942 \newcommand\retouchcolor{red}
943 \newcommand\retouch[1]{\textcolor{\retouchcolor}{#1}}
944 \newenvironment{Retouch}{\color{\retouchcolor}}{}
945 %\newcommand\setretouchcolor[1]{\renewcommand\retouchcolor{#1}}
946 %\newcommand\setretouchon{\renewcommand\retouchcolor{red}}
947 %\newcommand\setretouchoff{\renewcommand\retouchcolor{black}}
948
949 \newif\if@secret\@secretfalse
950 \newcommand{\secret}[1]{\if@secret#1\fi}
951 \newcommand{\showsecret}{\@secrettrue}
952 \newcommand{\hideseecret}{\@secretfalse}
953
954 % font viewer
955 % written by
956 %viewttf.bat output_filename "font_name" fontsize
957 %\RequirePackage{fmtcount} %to use \Hexadecimal for \fontviewer
958 \newcommand\fontviewer[2]{%
959 %\newcounter{tohexa}
960 \font\test=#1 at #2pt % "font name" or font filename%
961 \newcount\charcountA \charcountA 0%
962 \newcount\charcountB \charcountB \XeTeXcountglyphs\test \advance\charcountB -1%
963 \newcount\charcountC \charcountC 0%
964 \def\ystrut {\vrule height 15.0pt depth 5.5pt width 0pt}%
965 \advance\vsiz 4\baselineskip%
966 \loop%
967 \advance\charcountC 1%
968 \leavevmode%
969 %\setcounter{tohexa}{\charcountA}
970 % \hbox{\hbox to 20mm{\hss\number\charcountA \Hexadecimal{tohexa}\quad}}%
971 % \hbox to 10mm{\test\XeTeXglyph\charcountA\ystrut\hss}}%
972 % }%
973 \hbox{\hbox to 20mm{\hss\number\charcountA\quad}}%
974 \hbox to 10mm{\test\XeTeXglyph\charcountA\ystrut\hss}}%
975 }%
976 \ifnum\charcountC = 5 \endgraf \charcountC 0 \fi%
977 \ifnum\charcountA < \charcountB \advance\charcountA 1%
978 \repeat%
979 }
980 % ***
981 % written by
982 %xelatex --shell-escape foo.tex
983 %\documentclass[a4paper]{memoir}
984 %\usepackage{xetexko}
985 %\usepackage{hoze-style}
986 %\begin{document}
987 %\hangulfontsvviewer
988 %\end{document}
989 \def\fontlistfile{kofontlist.txt}
990 \def\gethfnt{%
991 \read0 to \temp

```

```
992     \ifeof0
993     \let\next\relax
994     \else
995     \expandafter\gethfntx\temp,\end
996     \let\next\gethfnt
997     \fi
998     \next}
999 \def\gethfntx#1,#2\end{%
1000 \ifcsname X#1X\endcsname\else
1001     \expandafter\let\csname X#1X\endcsname\empty
1002     \hangulfontspec{#1}#1
1003     \quad
1004     \quad{\bfseries    }
1005     \par
1006     \fi}
1007 \newcommand\hangulfontsvviewer{
1008 \let\XLastResortX\empty
1009 \def\{-{-}
1010 \hangulmarks
1011 \immediate\openin0\fontlistfile\relax
1012 \ifeof0
1013     \immediate\write18{fc-list :lang=ko:outline=true family|sort>\fontlistfile}
1014     \immediate\openin0\fontlistfile\relax
1015     \ifeof0
1016         \errmessage{Please compile with '--shell-escape' option}
1017         \def\abortprocess{\end{document}}
1018         \expandafter\expandafter\expandafter\abortprocess
1019     \fi
1020 \fi
1021 \endlinechar=-1
1022 \gethfnt
1023 \immediate\closein0
1024 }
1025 \endinput
1026
1027 % !TEX TS-program=xelatex
1028 % !TEX encoding=UTF-8 Unicode
1029 %
1030 %%
1031 \documentclass[amsmath]{oblivoir}
1032
1033 \usepackage{fapapersize}
1034 \usefapapersize{297mm,210mm,30mm,*,30mm,*}
1035
1036 \usepackage{xcolor}
1037 \usepackage{multido}
1038 \usepackage{arrayjob}
1039 \input random
1040 \newcount\iFnt
1041
```



```

1042 \newarray\FontName
1043 \newcounter{cntfnt}
1044 \setcounter{cntfnt}{4}%
1045 \readarray{FontName}{%
1046     & & & %
1047 %     & & %
1048 %     &HY L&HY B&HY M&HY &HY B&%
1049 %     HY B&HY M&HY L&HY M&HY B&HY B&%
1050 %     HY &HY M&HY L&HY M&HY &%
1051 %     HY &HY L&HY B&HY M&HY B&HY M&%
1052 %     HY B&HY M&%
1053 %     2006 & 2006 & 2006 &%
1054 %     & & &%
1055 %     & & &%
1056 %     & Bold& & Bold&%
1057 }
1058
1059 \newcommand\Test[1]{%
1060     \XXTestChaar#1}%
1061 }
1062 \def\XXTestChaar{%
1063     \afterassignment\XXOneChar\let\next=
1064 }
1065
1066 \def\XXOneChar{%
1067     \ifx\next\else\PrintOneChar\next
1068     \expandafter\XXTestChaar\fi
1069 }
1070
1071 \newif\ifODDIT
1072 \newcommand\PrintOneChar[1]{%
1073     \ODDITfalse
1074     \setrannum{\iFnt}{1}{\thecntfnt}%
1075     \checkFontName(\iFnt)%
1076     \setrannum{\iFnt}{1}{3}% 3
1077     \ifodd\iFnt\ODDITfalse\else\ODDITtrue\fi
1078     \hangulfontspec{\cachedata}\hangulmarks
1079     \setrannum{\iFnt}{12}{50}% 12, 50
1080     \fontsize{\iFnt}{\iFnt}%
1081     \ifODDIT
1082         \fcolorbox{cyan!90}{cyan!80}{\color{white}#1}\else
1083         {\color{cyan!80}#1}%
1084     \fi\kern-.5em
1085 }
1086
1087 \parindent=0pt
1088
1089 \begin{document}
1090
1091 \pagestyle{empty}

```

```

1092
1093 \Test{ . ! . ?}
1094
1095 \end{document}

```

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