The enparen package

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Abstract

The package defines macros to set parentheses that automatically change the symbols from inner to outer fences.

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^{*}Please report any issues at https://github.com/ho-tex/oberdiek/issues

1 Documentation

The LATEX package provides macros for automatically changed parentheses symbols depending on the fence order. The innermost parentheses are always using the same parentheses. The symbols changes for the outer fences.

Example:

```
{a (b) [c (d)] (e)}
```

is generated by

```
\documentclass{article}
\usepackage{enparen}
\begin{document}
  \enparen{a \enparen{b} \enparen{c \enparen{d}} \enparen{e}}
\end{document}
```

The package is the result of a newsgroup thread. Dan gives the following specification [1]:

"On the other hand, the rules for fences are usually the reverse: innermost fences are always (), next outer are [], etc. This means the opening fence has to wait until all the fences between it and the matching close have been detected before it can decide whether to be (or [or {."

The fence level counting starts from innermost parentheses with one. For the next outer fences the level is increased by one. The example above with level indexes:

```
\{a (a (b)_1 [a (d)_1]_2 (e)\}_3
```

The correct level is only known at the closing symbol. Therefore the correct value is remembered in the main .aux file and used in the second LATEX run.

1.1 User macros

```
\enparen \{\langle text \rangle\}
```

The macro \enparen puts its argument $\langle text \rangle$ in parentheses. If the macro is nested, the used fence symbols change for the outer fences.

```
\enparenLeft \enparenRight
```

Instead of \enparen{text} the left and right symbol can be used separately, but in pairs:

```
\enparenLeft text\enparenRight
```

\enparenLeft and \enparenRight may be used at different group levels, but they must be properly nested.

```
\enparenSetSymbols \{\langle level \rangle\}\ \{\langle opening\ symbol \rangle\}\ \{\langle closing\ symbol \rangle\}
```

Macro \enparenSetSymbols configures the $\langle opening\ symbol \rangle$ and $\langle closing\ symbol \rangle$ for the $\langle level \rangle$. The $\langle level \rangle$ is a number and the counting starts with one. Level

zero is used, if the correct level is not known (e.g. in the first LATEX run). The package defines the following sets:

```
\enparenSetSymbols{0}{(){()}}
\enparenSetSymbols{1}{(){()}}
\enparenSetSymbols{2}{[]}
\enparenSetSymbols{3}{\{}{\}}
```

Example for changing the third and adding a fourth level:

```
\ensuremath{\langle}}{\ensuremath{\rangle}} \ensuremath{\rangle}} \ensuremath{\rangle}}
```

```
\verb|\enparenUnsetSymbols| \{\langle level \rangle\}|
```

The symbols for level $\langle level \rangle$ are removed. Example scenario: Only two nesting levels must be used, the package defines more, then the third level can be disabled by $\ensuremath{\verb|level|}$ and the user gets warnings if parentheses at level 3 are needed.

1.2 Contexts

```
\enparenBeginContext \{\langle name \rangle\}
\enparenEndContext \{\langle name \rangle\}
```

If the current text is interrupted by footnotes, floats with captions, then the parentheses inside the text of footnotes, captions, ...should restart from scratch. This can be achieved by embedding the text inside macros \enparenBeginContext and \enparenEndContext. These macros must be properly nested. The $\langle name \rangle$ for the begin and end macro must be the same. It is a help for debugging problems, because the warning messages show the context name. But it is not necessary that the begin/end pairs have different names. Example:

```
\enparenLeft text before table ...
\begin{table}
  \caption{Table caption}
  \enparenBegin{Context}{table}
  Other text \enparen{foobar}.
  \enparenEnd{Context}{table}
\end{table}
text after table ...
\enparenRight
```

The parentheses inside the table environment and context 'table' are not nested inside other parentheses: (foobar). In case of captions and footnotes the contexts are automatically added, see next section about options.

1.3 Options

```
\enparenSetup \{\langle key \ value \ list \rangle\}
```

Some options (currently all) can also be set after the package is loaded. They can be set in the argument $\langle key \ value \ list \rangle$ of \enparenSetup. Options are disabled after they are used the last time. Currently all options are boolean options and are disabled in \begin{document}.

caption: The caption text is put in a context caption.

footnote: The footnote text is put in a context footnote.

Example for disabling the two options at different places:

```
\usepackage[caption=false]{enparen}
\enparenSetup{footnote=false}
```

1.4 Notes

Implicite kerning: Unexpandable stuff might affect the implicite kerning. The package cannot avoid this, because it need to define and redefine macros at the occurrence of each symbol. This is done before the opening and after the closing symbol, thus that the implicite kerning inside is not affected.

2 Implementation

```
1 \( **package \)
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{enparen}
4      [2016/05/16 v1.1 Parentheses nesting (H0)]%

2.1 Resources
5 \RequirePackage{ltxcmds}[2011/11/09]
6 \ltx@IfUndefined{numexpr}{%
7  \PackageError{enparen}{%
8      Missing e-TeX's \ltx@backslashchar numexpr.\MessageBreak
9      The package will continue with emergency definitions%
```

- 12 \def\enparenRight{)}%
 13 \long\def\enparen#1{\enparenLeft#1\enparenRight}%
- 13 \long\der\enparen#1\enparenEert#1\enparenkight;
 14 \let\enparenSetup\ltx@gobble
- 15 \let\enparenSetSymbols\ltx@gobblethree
- 16 \let\enparenUnsetSymbols\ltx@gobble

\def\enparenLeft{(}%

17 \endinput

}\@ehc

18 }{}

10

11

- 19 \RequirePackage{protecteddef} [2011/01/31]
- $20 \ \texttt{RequirePackage\{atveryend\}[2011/06/30]}$
- 21 \RequirePackage{uniquecounter}[2011/01/30]
- $22 \ensuremath{\,^{}}\text{RequirePackage} \{ \texttt{zref-base} \} \ensuremath{\,^{}}\text{[2011/03/18]}$
- 23 \RequirePackage{kvoptions} [2011/06/30]
- 24 \RequirePackage{kvsetkeys} [2011/10/18]

\zref@wrapper@mainaux

```
25 \providecommand{\zref@wrapper@mainaux}[1]{%
    \ifx\@auxout\@mainaux
27
      #1%
28
   \else
29
      \begingroup
30
        \let\@auxout\@mainaux
        #1%
31
      \endgroup
32
33
    \fi
34 }
```

```
36 \zref@newprop{enparen}[0]{}
                        2.2
                               Contexts
\enparenContextDefault
                         37 \def\enparenContextDefault{main}
          \enparen@ctx
                         38 \let\enparen@ctx\ltx@empty
        \enparen@stack
                         39 \let\enparen@stack\ltx@empty
                        2.2.1 Stack for contexts
     \enparen@CtxStack
                         40 \global\let\enparen@CtxStack\ltx@empty
\enparen@CtxStackPush
                         41 \def\enparen@CtxStackPush#1{%
                             \xdef\enparen@CtxStack{%
                                {\enparen@ctx}{\enparen@stack}%
                         43
                                \enparen@CtxStack
                         44
                            }%
                         45
                             \xdef\enparen@ctx{#1}%
                         46
                             \global\let\enparen@stack\ltx@empty
                         47
                         48 }
 \enparen@CtxStackPop
                         49 \def\enparen@CtxStackPop{%
                             \ifx\enparen@CtxStack\ltx@empty
                                \PackageWarning{enparen}{%
                         51
                                 Pop request for empty context stack%
                         52
                         53
                                \global\let\enparen@ctx\enparenContextDefault
                         54
                         55
                                \global\let\enparen@stack\ltx@empty
                         56
                             \else
                                \xdef\enparen@ctx{%
                         57
                                 \verb|\expandafter\ltx@car\enparen@CtxStack\@nil|
                         58
                         59
                                \xdef\enparen@stack{%
                         60
                                 \expandafter\ltx@carsecond\enparen@CtxStack\@nil
                         61
                         62
                                \xdef\enparen@CtxStack{%
                         63
                                 \expandafter\ltx@cdrtwo\enparen@CtxStack\@nil
                         64
                               }%
                         65
                         66
                             \fi
                         67 }
                        2.2.2
                              Context user macros
 \enparenBeginContext
                         68 \ProtectedDef*{\enparenBeginContext}[1]{%
                             \enparen@CtxStackPush{#1}%
                         70 }
```

35 \UniqueCounterNew{enparen}

```
\enparenEndContext
                         71 \ProtectedDef*{\enparenEndContext}[1]{%
                         72
                             \edef\enparen@temp{#1}%
                             \ifx\enparen@temp\enparen@ctx
                         74
                               \PackageWarning{enparen}{%
                         75
                                 Context mismatch in end request.\MessageBreak
                         76
                                  '#1' should be ended, but current context\MessageBreak
                         77
                                 is '\enparen@ctx'%
                         78
                               }%
                         79
                         80
                             \fi
                             \enparenCheckEmptyStack
                             \enparen@CtxStackPop
                         83 }
\verb|\enparenCheckEmptyStack| \\
                         84 \ProtectedDef*{\enparenCheckEmptyStack}[0]{%
                             \ifx\enparen@stack\ltx@empty
                         86
                               \PackageWarning{enparen}{%
                         87
                                 Ending non-empty stack '\enparen@ctx':\MessageBreak
                         88
                                  \enparen@PrintStack\MessageBreak
                         89
                               }%
                         90
                         91
                             \fi
                         92 }
    \enparen@PrintStack
                         93 \def\enparen@PrintStack{%
                             \expandafter\enparen@PrintStackAux
                             \enparen@stack\ltx@empty\ltx@empty
                         96 }
 \enparen@PrintStackAux
                         97 \def\enparen@PrintStackAux#1#2{%
                             \ifx\ltx@empty#1%
                         98
                             \else
                         99
                               {#1:#2}%
                         100
                         101
                               \expandafter\enparen@PrintStackAux
                         102
                         103 }
                        2.3
                               Symbols
     \enparenSetSymbols
                        104 \ProtectedDef*{\enparenSetSymbols}[3]{%
                             \expandafter
                             \def\csname enparen@symbol\the\numexpr#1L\endcsname{#2}%
                         106
                         107
                             \expandafter
                             \def\csname enparen@symbol\the\numexpr#1R\endcsname{#3}%
                        108
                        109 }
   \enparenUnsetSymbols
                        110 \ProtectedDef*{\enparenUnsetSymbols}[1]{%
                             \expandafter
                        111
                             \let\csname enparen@symbol\the\numexpr#1L\endcsname\ltx@undefined
                        112
                             \expandafter
                        113
                             114
                        115 }
```

```
116 \enparenSetSymbols{0}{(){)}
               117 \enparenSetSymbols{1}{(){)}
               118 \enparenSetSymbols{2}{[]}{
               119 \enparenSetSymbols{3}{\{}{\}}
               120 \verb|\enparenSetSymbols{4}{\ensuremath{\langle}}{\ensuremath{\rangle}}|
                      Main user macros
     \enparen
               121 \ProtectedDef{\enparen}[1]{%
                     \enparenLeft#1\enparenRight
               123 }
 \enparenLeft
               124 \ProtectedDef*{\enparenLeft}[0]{%
                    \UniqueCounterCall{enparen}\enparen@Left
               126 }
\enparen@Left
               127 \def\enparen@Left#1{%
               128
                     \xdef\enparen@stack{%
               129
                       {#1}{1}%
               130
                       \expandafter\enparen@Inc\expandafter2\expandafter!%
                       \enparen@stack\ltx@empty\ltx@empty
               131
               132
               133
                     \edef\enparen@tmp{\zref@extract{enparen#1}{enparen}}%
               134
                     \ltx@IfUndefined{enparen@symbol\enparen@tmp L}{%
               135
                       \PackageWarning{enparen}{%
               136
                         Undefined symbols for level \enparen@tmp
               137
                       }%
               138
                       \csname enparen@symbolOL\endcsname
               139
               140
                       \csname enparen@symbol\enparen@tmp L\endcsname
               141
                     }%
               142 }
 \enparen@Inc
               143 \def\enparen@Inc#1!#2#3{%
                    \ifx\ltx@empty#2%
               144
                     \else
               145
               146
                       \ifnum#3<#1 %
               147
                         {#2}{#1}%
                         \expandafter\enparen@Inc
               148
                         \the\numexpr#1+1\expandafter\expandafter\expandafter!%
               149
               150
                         {#2}{#3}%
               151
                       \fi
               152
               153
                     \fi
               154 }
\enparenRight
               155 \ProtectedDef*{\enparenRight}[0]{%
                     \ifx\enparen@stack\ltx@empty
               156
                       \PackageWarning{enparen}{%
               157
                         Missing left symbol for right symbol%
               158
               159
               160
                       \csname enparen@symbolOR\endcsname
```

```
161
                        \else
                          \expandafter\enparen@Right\enparen@stack\@nil
                   162
                   163
                        \fi
                   164 }
 \enparen@Right
                   165 \def\enparen@Right#1#2#3\@nil{%
                   166
                        \ltx@IfUndefined{%
                   167
                          enparen@symbol%
                          \zref@extract{enparen#1}{enparen}%
                   168
                   169
                   170
                        }{%
                          \csname enparen@symbolOR\endcsname
                   171
                        }{%
                   172
                          \csname
                   173
                            enparen@symbol%
                   174
                            \zref@extract{enparen#1}{enparen}%
                   175
                   176
                   177
                          \endcsname
                   178
                   179
                        \zref@wrapper@mainaux{%
                          \zref@setcurrent{enparen}{#2}%
                   180
                          \zref@labelbyprops{enparen#1}{enparen}%
                   181
                        }%
                   182
                        \xdef\enparen@stack{#3}%
                   183
                   184 }
                   2.5
                          Options
                   185 \SetupKeyvalOptions{%
                       family=enparen,%
                        prefix=enparen@,%
                   187
                   188 }
   \enparenSetup
                   189 \ProtectedDef*{\enparenSetup}[0]{%
                   190
                        \kvsetkeys{enparen}%
                   191 }
                   192 \DeclareBoolOption[true]{footnote}
                   193 \DeclareBoolOption[true] {caption}
                   194 \ProcessKeyvalOptions*
                   2.6
                          Context settings
\enparen@AtBegin
                   195 \def\enparen@AtBegin{%
                   196
                        \ifenparen@footnote
                          \let\enparen@org@makefntext\@makefntext
                   197
                          \label{longdef} $$ \omega{fntext##1{%}} $$
                   198
                   199
                             \enparen@org@makefntext{%
                   200
                               \enparenBeginContext{footnote}%
                   201
                               \enparenEndContext{footnote}%
                   202
                            }%
                   203
                          }%
                   204
                   205
                        \fi
```

\enparen@Disable{footnote}%

```
207
                                   \ifenparen@caption
                                     \let\enparen@org@makecaption\@makecaption
                             208
                             209
                                     \long\def\@makecaption##1##2{%
                             210
                                       \enparen@org@makecaption{##1}{%
                             211
                                         \enparenBeginContext{caption}%
                             212
                                         \enparenEndContext{caption}%
                             213
                                       }%
                             214
                                    }%
                             215
                                   \fi
                             ^{216}
                                   \enparen@Disable{caption}%
                             218 }
          \enparen@Disable
                             219 \def\enparen@Disable#1{%
                                  \DisableKeyvalOption[%
                             220
                                     action=warning,%
                             221
                                    package=enparen,%
                             222
                                 ]{enparen}{#1}%
                             224 }
                             225 \AtBeginDocument{\enparen@AtBegin}
                             2.7
                                    At end of document
            \enparen@AtEnd
                             226 \def\enparen@AtEnd{%
                                   \verb|\enparenCheckEmptyStack| \\
                             227
                                   \ifx\enparen@CtxStack\ltx@empty
                             228
                             229
                                   \else
                                     \PackageWarningNoLine{enparen}{%
                             230
                             231
                                       Context stack is not empty at end of document.\MessageBreak
                             232
                                       Current stack and contents of context stack:\MessageBreak
                                       [\enparen@ctx]:[\enparen@PrintStack]%
                             233
                             234
                                       \expandafter
                                       \enparen@PrintContextStack\enparen@CtxStack\relax\relax
                             235
                             236
                                    }%
                             237
                                   \fi
                             238 }
\enparen@PrintContextStack
                             239 \def\enparen@PrintContextStack#1#2{%
                             240
                                  \ifx\relax#1\ltx@empty
                             241
                                   \else
                             242
                                     \MessageBreak
                             243
                                     [#1]:[\enparen@PrintStackAux#2\ltx@empty\ltx@empty]% hash-ok
                                     \expandafter\enparen@PrintContextStack
                             244
                                   \fi
                             245
                             246 }
                             247 \AtVeryEndDocument{\enparen@AtEnd}
                             248 (/package)
```

3 Installation

3.1 Download

Package. This package is available on CTAN¹:

CTAN:macros/latex/contrib/oberdiek/enparen.dtx The source file.

CTAN:macros/latex/contrib/oberdiek/enparen.pdf Documentation.

Bundle. All the packages of the bundle 'oberdiek' are also available in a TDS compliant ZIP archive. There the packages are already unpacked and the documentation files are generated. The files and directories obey the TDS standard.

CTAN:install/macros/latex/contrib/oberdiek.tds.zip

TDS refers to the standard "A Directory Structure for TeX Files" (CTAN:pkg/tds). Directories with texmf in their name are usually organized this way.

3.2 Bundle installation

Unpacking. Unpack the oberdiek.tds.zip in the TDS tree (also known as texmf tree) of your choice. Example (linux):

```
unzip oberdiek.tds.zip -d ~/texmf
```

3.3 Package installation

Unpacking. The .dtx file is a self-extracting docstrip archive. The files are extracted by running the .dtx through plain T_FX:

```
tex enparen.dtx
```

TDS. Now the different files must be moved into the different directories in your installation TDS tree (also known as texmf tree):

```
enparen.sty \rightarrow tex/latex/oberdiek/enparen.sty enparen.pdf \rightarrow doc/latex/oberdiek/enparen.pdf enparen.dtx \rightarrow source/latex/oberdiek/enparen.dtx
```

If you have a docstrip.cfg that configures and enables docstrip's TDS installing feature, then some files can already be in the right place, see the documentation of docstrip.

3.4 Refresh file name databases

If your TEX distribution (TEX Live, MiKTEX, ...) relies on file name databases, you must refresh these. For example, TEX Live users run texhash or mktexlsr.

3.5 Some details for the interested

Unpacking with LATEX. The .dtx chooses its action depending on the format:

plain T_EX: Run docstrip and extract the files.

LATEX: Generate the documentation.

¹CTAN:pkg/enparen

If you insist on using LATEX for docstrip (really, docstrip does not need LATEX), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{enparen.dtx}
```

Do not forget to quote the argument according to the demands of your shell.

Generating the documentation. You can use both the .dtx or the .drv to generate the documentation. The process can be configured by the configuration file ltxdoc.cfg. For instance, put this line into this file, if you want to have A4 as paper format:

```
\PassOptionsToClass{a4paper}{article}
```

An example follows how to generate the documentation with pdfIATEX:

```
pdflatex enparen.dtx
makeindex -s gind.ist enparen.idx
pdflatex enparen.dtx
makeindex -s gind.ist enparen.idx
pdflatex enparen.dtx
```

4 References

[1] Dan Luecking: Re: bracket order; newsgroup comp.text.tex; message id \(9b07c9c8-ff92-4cbf-b3a9-84efecfeb506@124g2000yqm.googlegroups.com \) 2012-01-05. https:

```
//groups.google.com/group/comp.text.tex/msg/8774519da31c2352
```

5 History

[2012/01/07 v1.0]

• First version.

$[2016/05/16\ v1.1]$

• Documentation updates.

6 Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; plain numbers refer to the code lines where the entry is used.

${f Symbols}$	\mathbf{A}
\@auxout 26, 30	\AtBeginDocument 225
\@ehc 10	\AtVeryEndDocument 247
$\verb \color= 0 0 0 0 0 0 0 0 0 0$	C \csname 106, 108, 112, 114, 138, 140, 160, 171, 173
\@makecaption 208, 209	
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