The pdfcolparallel package

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2016/05/16 v1.4

Abstract

This packages fixes bugs in parallel and improves color support by using several color stacks that are provided by pdfTEX since version 1.40.

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

1 Usage

```
\usepackage{pdfcolparallel}
```

The package pdfcolparallel loads package parallel [1] and redefines some macros to fix bugs.

If color stacks are available then package parallel is further patched to support them.

1.1 Option rulebetweencolor

Package pdfcolparallel also fixes the color for the rule between columns. Default color is `\normalcolor`. But this can be changed by using option rulebetweencolor for `\setkeys{parallel}` (see package keyval). The option takes a color specification as value. If the value is empty, then the default (`\normalcolor`) is used. Examples:

```
\setkeys{parallel}{rulebetweencolor=blue},
\setkeys{parallel}{rulebetweencolor={red}},
\setkeys{parallel}{rulebetweencolor={}}, % \normalcolor is used
\setkeys{parallel}{rulebetweencolor=[rgb]{1,0,.5}}
```

1.2 Future

If there will be a new version of package parallel that adds support for color stacks, then this package may become obsolete.

2 Implementation

2.1 Identification

```
1 ⟨*package⟩
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{pdfcolparallel}%
4   [2016/05/16 v1.4 Color stacks support for parallel (HO)]%
```

2.2 Load and fix package parallel

Package parallel is loaded. Before options of package pdfcolparallel are passed to package parallel.

```
5 \DeclareOption*{%
6   \PassoptionsToPackage{\CurrentOption}{parallel}%
7 }
8 \ProcessOptions\relax
9 \RequirePackage{parallel}[2003/04/13]
10 \RequirePackage{infwarerr}[2007/09/09]
```

`\pcp@ColorPatch`

```
11 \begingroup\expandafter\expandafter\expandafter\endgroup
12 \expandafter\ifx\csname currentgrouplevel\endcsname\relax
13   \def\pcp@ColorPatch{}%
14 \else
15   \def\pcp@ColorPatch{%
16     \@ifundefined{set@color}{%
17       \gdef\pcp@ColorPatch{}%
18     }{%
19       \gdef\pcp@ColorPatch{%
20         \gdef\pcp@ColorResets{}%
21         \bgroup
22         \aftergroup\pcp@ColorResets
23         \aftergroup\egroup
```

```
      \let\pcp@OrgSetColor\set@color
      \let\set@color\pcp@SetColor
      \edef\pcp@GroupLevel{\the\currentgrouplevel}%
    }%
  }%
  \pcp@ColorPatch
 }%
```

\pcp@SetColor

```
 \def\pcp@SetColor{%
  \ifnum\pcp@GroupLevel=\currentgrouplevel
   \let\pcp@OrgAfterGroup\aftergroup
   \def\aftergroup{%
    \g@addto@macro\pcp@ColorResets
   }%
   \pcp@OrgSetColor
   \let\aftergroup\pcp@OrgAfterGroup
  \else
   \pcp@OrgSetColor
  \fi
 }%
\fi
```

\pcp@CmdCheckRedef

```
\def\pcp@CmdCheckRedef#1{%
 \begingroup
  \def\pcp@cmd{#1}%
  \afterassignment\pcp@CmdDo
  \long\def\reserved@a
}
\def\pcp@CmdDo{%
   \expandafter\ifx\pcp@cmd\reserved@a
   \else
    \edef\x*{\expandafter\string\pcp@cmd}%
    \@PackageWarningNoLine{pdfcolparallel}{%
     Command \x* has changed.\MessageBreak
     Supported versions of package 'parallel':\MessageBreak
     \space\space 2003/04/13\MessageBreak
     The redefinition of \x* may\MessageBreak
     not behave correctly depending on the changes%
    }%
   \fi
 \expandafter\endgroup
 \expandafter\def\pcp@cmd
}

\def\pcp@SwitchStack#1#2{}

\def\pcp@SetCurrent#1{}
```

\ParallelLText

```
\pcp@CmdCheckRedef\ParallelLText{%
 \everypar{}%
 \@restorepar
 \begingroup
  \hbadness=3000 %
  \let\footnote=\ParallelLFootnote
  \ParallelWhichBox=0 %
  \global\setbox\ParallelLBox=\vbox\bgroup
   \hsize=\ParallelLWidth
   \aftergroup\ParallelAfterText
   \begingroup
    \afterassignment\ParallelCheckOpenBrace
```

```
      \let\x=%
}{%
  \everypar{}%
  \@restorepar
  \@nobreakfalse
  \begingroup
    \hbadness=3000 %
    \let\footnote=\ParallelLFootnote
    \ParallelWhichBox=0 %
    \global\setbox\ParallelLBox=\vbox\bgroup
      \hsize=\ParallelLWidth
      \linewidth=\ParallelLWidth
      \pcp@SwitchStack{Left}\ParallelLBox
      \aftergroup\ParallelAfterText
      \pcp@ColorPatch
      \begingroup
        \afterassignment\ParallelCheckOpenBrace
        \let\x=%
}
```

\ParallelRText

```
\pcp@CmdCheckRedef\ParallelRText{%
  \everypar{}%
  \@restorepar
  \begingroup
    \hbadness=3000 %
    \ifnum\ParallelFNMode=\@ne
      \let\footnote=\ParallelRFootnote
    \else
      \let\footnote=\ParallelLFootnote
    \fi
    \ParallelWhichBox=\@ne
    \global\setbox\ParallelRBox=\vbox\bgroup
      \hsize=\ParallelRWidth
      \aftergroup\ParallelAfterText
      \begingroup
        \afterassignment\ParallelCheckOpenBrace
        \let\x=%
}{%
  \everypar{}%
  \@restorepar
  \@nobreakfalse
  \begingroup
    \hbadness=3000 %
    \ifnum\ParallelFNMode=\@ne
      \let\footnote=\ParallelRFootnote
    \else
      \let\footnote=\ParallelLFootnote
    \fi
    \ParallelWhichBox=\@ne
    \global\setbox\ParallelRBox=\vbox\bgroup
      \hsize=\ParallelRWidth
      \linewidth=\ParallelRWidth
      \pcp@SwitchStack{Right}\ParallelRBox
      \aftergroup\ParallelAfterText
      \pcp@ColorPatch
      \begingroup
        \afterassignment\ParallelCheckOpenBrace
        \let\x=%
}
```

\ParallelParTwoPages

```
\pcp@CmdCheckRedef\ParallelParTwoPages{%
  \ifnum\ParallelBoolVar=\@ne
    \par
    \begingroup
      \global\ParallelWhichBox=\@ne
      \newpage
      \vbadness=10000 %
      \vfuzz=3ex %
      \splittopskip=\z@skip
      \loop%
        \ifnum\ParallelBoolVar=\@ne%
          \ifnum\ParallelWhichBox=\@ne
            \ifvoid\ParallelLBox
              \mbox{} %
              \newpage
            \else
              \global\ParallelWhichBox=\z@
            \fi
          \else
            \ifvoid\ParallelRBox
              \mbox{} %
              \newpage
            \else
              \global\ParallelWhichBox=\@ne
            \fi
          \fi
          \ifnum\ParallelWhichBox=\z@
            \ifodd\thepage
              \mbox{} %
              \newpage
            \fi
            \hbox to\textwidth{%
              \vbox{\vsplit\ParallelLBox to.98\textheight}%
            }%
          \else
            \ifodd\thepage\relax
            \else
              \mbox{} %
              \newpage
            \fi
            \hbox to\textwidth{%
              \vbox{\vsplit\ParallelRBox to.98\textheight}%
            }%
          \fi
          \vspace*{\fill}%
          \newpage
        \fi
        \ifvoid\ParallelLBox
          \ifvoid\ParallelRBox
            \global\ParallelBoolVar=\z@
          \fi
        \fi
      \ifnum\ParallelBoolVar=\@ne
      \repeat
      \par
    \endgroup
  \fi
}{%
```

Additional fixes:

- Unnecessary white space removed.
- `\ifodd\thepage` changed to `\ifodd\value{page}`.

```
\ifnum\ParallelBoolVar=\@ne
  \par
  \begingroup
    \global\ParallelWhichBox=\@ne
    \newpage
    \vbadness=10000 %
    \vfuzz=3ex %
    \splittopskip=\z@skip
    \loop%
      \ifnum\ParallelBoolVar=\@ne%
        \ifnum\ParallelWhichBox=\@ne
          \ifvoid\ParallelLBox
            \mbox{}%
            \newpage
          \else
            \global\ParallelWhichBox=\z@
          \fi
        \else
          \ifvoid\ParallelRBox
            \null
            \newpage
          \else
            \global\ParallelWhichBox=\@ne
          \fi
        \fi
        \ifnum\ParallelWhichBox=\z@
          \ifodd\value{page}%
            \null
            \newpage
          \fi
          \hbox to\textwidth{%
            \pcp@SetCurrent{Left}%
            \setbox\z@=\vsplit\ParallelLBox to.98\textheight
            \vbox to.98\textheight{%
              \@texttop
              \unvbox\z@
              \@textbottom
            }%
          }%
        \else
          \ifodd\value{page}%
          \else
            \mbox{}%
            \newpage
          \fi
          \hbox to\textwidth{%
            \pcp@SetCurrent{Right}%
            \setbox\z@=\vsplit\ParallelRBox to.98\textheight
            \vbox to.98\textheight{%
              \@texttop
              \unvbox\z@
              \@textbottom
            }%
          }%
        \fi
        \vspace*{\fill}%
        \newpage
      \fi
      \ifvoid\ParallelLBox
        \ifvoid\ParallelRBox
          \global\ParallelBoolVar=\z@
        \fi
```

```
      \fi
    \ifnum\ParallelBoolVar=\@ne
    \repeat
    \par
  \endgroup
  \pcp@SetCurrent{}%
 \fi
}
```

2.3 Color stack support

```
\RequirePackage{pdfcol}[2007/12/12]
\ifpdfcolAvailable
\else
 \PackageInfo{pdfcolparallel}{%
  Loading aborted, because color stacks are not available%
 }%
 \expandafter\endinput
\fi
\pdfcolInitStack{pcp@Left}
\pdfcolInitStack{pcp@Right}
```

\pcp@Box

```
\newbox\pcp@Box
```

\pcp@SwitchStack

```
\def\pcp@SwitchStack#1#2{%
 \pdfcolSwitchStack{pcp@#1}%
 \global\setbox\pcp@Box=\vbox to 0pt{%
  \pdfcolSetCurrentColor
 }%
 \aftergroup\pcp@FixBox
 \aftergroup#2%
}
```

\pcp@FixBox

```
\def\pcp@FixBox#1{%
 \global\setbox#1=\vbox{%
  \unvbox\pcp@Box
  \unvbox#1%
 }%
}
```

\pcp@SetCurrent

```
\def\pcp@SetCurrent#1{%
 \ifx\\#1\\%
  \pdfcolSetCurrent{}%
 \else
  \pdfcolSetCurrent{pcp@#1}%
 \fi
}
```

2.4 Redefinitions

\ParallelParOnePage

```
\pcp@CmdCheckRedef\ParallelParOnePage{%
 \ifnum\ParallelBoolVar=\@ne
  \par
  \begingroup
   \leftmargin=\z@
   \rightmargin=\z@
```

```
    \parskip=\z@skip
    \parindent=\z@
    \vbadness=10000 %
    \vfuzz=3ex %
    \splittopskip=\z@skip
    \loop
      \ifnum\ParallelBoolVar=\@ne
        \noindent
        \hbox to\textwidth{%
          \hskip\ParallelLeftMargin
          \hbox to\ParallelTextWidth{%
            \ifvoid\ParallelLBox
              \hskip\ParallelLWidth
            \else
              \ParallelWhichBox=\z@
              \vbox{%
                \setbox\ParallelBoxVar
                    =\vsplit\ParallelLBox to\dp\strutbox
                \unvbox\ParallelBoxVar
              }%
            \fi
            \strut
            \ifnum\ParallelBoolMid=\@ne
              \hskip\ParallelMainMidSkip
              \vrule
            \else
              \hss
            \fi
            \hss
            \ifvoid\ParallelRBox
              \hskip\ParallelRWidth
            \else
              \ParallelWhichBox=\@ne
              \vbox{%
                \setbox\ParallelBoxVar
                    =\vsplit\ParallelRBox to\dp\strutbox
                \unvbox\ParallelBoxVar
              }%
            \fi
          }%
        }%
        \ifvoid\ParallelLBox
          \ifvoid\ParallelRBox
            \global\ParallelBoolVar=\z@
          \fi
        \fi%
      \fi%
    \ifnum\ParallelBoolVar=\@ne
      \penalty\interlinepenalty
    \repeat
    \par
  \endgroup
 \fi
}{%
 \ifnum\ParallelBoolVar=\@ne
  \par
  \begingroup
    \leftmargin=\z@
    \rightmargin=\z@
    \parskip=\z@skip
    \parindent=\z@
    \vbadness=10000 %
```

```
    \vfuzz=3ex %
    \splittopskip=\z@skip
    \loop
      \ifnum\ParallelBoolVar=\@ne
        \noindent
        \hbox to\textwidth{%
          \hskip\ParallelLeftMargin
          \hbox to\ParallelTextWidth{%
            \ifvoid\ParallelLBox
              \hskip\ParallelLWidth
            \else
              \pcp@SetCurrent{Left}%
              \ParallelWhichBox=\z@
              \vbox{%
                \setbox\ParallelBoxVar
                    =\vsplit\ParallelLBox to\dp\strutbox
                \unvbox\ParallelBoxVar
              }%
            \fi
            \strut
            \ifnum\ParallelBoolMid=\@ne
              \hskip\ParallelMainMidSkip
              \begingroup
                \pcp@RuleBetweenColor
                \vrule
              \endgroup
            \else
              \hss
            \fi
            \hss
            \ifvoid\ParallelRBox
              \hskip\ParallelRWidth
            \else
              \pcp@SetCurrent{Right}%
              \ParallelWhichBox=\@ne
              \vbox{%
                \setbox\ParallelBoxVar
                    =\vsplit\ParallelRBox to\dp\strutbox
                \unvbox\ParallelBoxVar
              }%
            \fi
          }%
        }%
        \ifvoid\ParallelLBox
          \ifvoid\ParallelRBox
            \global\ParallelBoolVar=\z@
          \fi
        \fi%
      \fi%
    \ifnum\ParallelBoolVar=\@ne
      \penalty\interlinepenalty
    \repeat
    \par
  \endgroup
  \pcp@SetCurrent{}%
 \fi
}
```

\pcp@RuleBetweenColorDefault

```
\def\pcp@RuleBetweenColorDefault{%
 \normalcolor
}
```

\pcp@RuleBetweenColor

```
\let\pcp@RuleBetweenColor\pcp@RuleBetweenColorDefault

\RequirePackage{keyval}
\define@key{parallel}{rulebetweencolor}{%
  \edef\pcp@temp{#1}%
  \ifx\pcp@temp\@empty
    \let\pcp@RuleBetweenColor\pcp@RuleBetweenColorDefault
  \else
    \edef\pcp@temp{%
      \noexpand\@ifnextchar[{%
        \def\noexpand\pcp@RuleBetweenColor{%
          \noexpand\color\pcp@temp
        }%
        \noexpand\pcp@GobbleNil
      }{%
        \def\noexpand\pcp@RuleBetweenColor{%
          \noexpand\color{\pcp@temp}%
        }%
        \noexpand\pcp@GobbleNil
      }%
      \pcp@temp\noexpand\@nil
    }%
    \pcp@temp
  \fi
}
```

\pcp@GobbleNil

```
\long\def\pcp@GobbleNil#1\@nil{}

⟨/package⟩
```

3 Test

The test file is a modified version of the file that Alexander Hirsch has posted in de.comp.text.tex: "parallel.sty und farbiger Text"[1]

```
⟨*test1⟩
\AtEndDocument{%
  \typeout{}%
  \typeout{**************************************}%
  \typeout{*** \space Check the PDF file manually! \space ***}%
  \typeout{**************************************}%
  \typeout{}%
}
\documentclass{article}
\usepackage{xcolor}
\usepackage{pdfcolparallel}[2016/05/16]

\begin{document}
  \color{green}%
  Green%
  \begin{Parallel}{0.47\textwidth}{0.47\textwidth}%
    \ParallelLText{%
      \textcolor{red}{%
        Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
        Ein Absatz, der sich ueber zwei Zeilen erstrecken soll.%
      }%
    }%
    \ParallelRText{%
      \textcolor{blue}{%
```

[1] Url: http://groups.google.com/group/de.comp.text.tex/msg/6a759cf33bb071a5

```
      Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
      Ein Absatz, der sich ueber zwei Zeilen erstrecken soll.%
    }%
  }%
  \ParallelPar
  \ParallelLText{%
    Default %
    \color{red}%
    Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
    Ein Absatz, der sich ueber zwei Zeilen erstrecken soll.%
  }%
  \ParallelRText{%
    Default %
    \color{blue}%
    Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
    Ein Absatz, der sich ueber zwei Zeilen erstrecken soll.%
  }%
  \ParallelPar
  \ParallelLText{%
    \begin{enumerate}%
    \item left text, left text, left text, left text, %
         left text, left text, left text, left text,%
    \item left text, left text, left text, left text, %
         left text, left text, left text, left text.%
    \end{enumerate}%
  }%
  \ParallelRText{%
    \begin{enumerate}%
    \item right text, right text, right text, right text, %
         right text, right text, right text, right text.%
    \item right text, right text, right text, right text, %
         right text, right text, right text, right text.%
    \end{enumerate}%
  }%
\end{Parallel}%
\begin{Parallel}[p]{\textwidth}{\textwidth}%
  \ParallelLText{%
    \textcolor{red}{%
      Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
      Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
      Foo bar bla bla bla.%
    }%
    \par
    Und noch ein Absatz.%
  }%
  \ParallelRText{%
    \textcolor{blue}{%
      Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
      Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
      Foo bar bla bla bla.%
    }%
  }%
\end{Parallel}%
\begin{Parallel}[p]{\textwidth}{\textwidth}%
  \ParallelLText{%
    \rule{1pt}{.98\textheight}\Huge g%
  }%
  \ParallelRText{%
    \rule{1pt}{.98\textheight}y%
  }%
\end{Parallel}%
Green%
```

```
\end{document}
⟨/test1⟩
```

4 Installation

4.1 Download

Package. This package is available on CTAN[2]:

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

CTAN:macros/latex/contrib/oberdiek/pdfcolparallel.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:tds/tds.pdf). Directories with texmf in their name are usually organized this way.

4.2 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
```

Script installation. Check the directory TDS:scripts/oberdiek/ for scripts that need further installation steps. Package attachfile2 comes with the Perl script pdfatfi.pl that should be installed in such a way that it can be called as pdfatfi. Example (linux):

```
chmod +x scripts/oberdiek/pdfatfi.pl
cp scripts/oberdiek/pdfatfi.pl /usr/local/bin/
```

4.3 Package installation

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

```
tex pdfcolparallel.dtx
```

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

```
pdfcolparallel.sty              → tex/latex/oberdiek/pdfcolparallel.sty
pdfcolparallel.pdf              → doc/latex/oberdiek/pdfcolparallel.pdf
test/pdfcolparallel-test1.tex → doc/latex/oberdiek/test/pdfcolparallel-test1.tex
pdfcolparallel.dtx              → source/latex/oberdiek/pdfcolparallel.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.

4.4 Refresh file name databases

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

[2] http://ctan.org/pkg/pdfcolparallel

4.5 Some details for the interested

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

plain TeX: Run docstrip and extract the files.

LaTeX: Generate the documentation.

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{pdfcolparallel.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 pdfLaTeX:

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

5 Catalogue

The following XML file can be used as source for the TeX Catalogue. The elements caption and description are imported from the original XML file from the Catalogue. The name of the XML file in the Catalogue is pdfcolparallel.xml.

```
⟨*catalogue⟩
<?xml version='1.0' encoding='us-ascii'?>
<!DOCTYPE entry SYSTEM 'catalogue.dtd'>
<entry datestamp='$Date$' modifier='$Author$' id='pdfcolparallel'>
  <name>pdfcolparallel</name>
  <caption>Fix colour problems in package 'parallel'.</caption>
  <authorref id='auth:oberdiek'/>
  <copyright owner='Heiko Oberdiek' year='2007,2008,2010'/>
  <license type='lppl1.3'/>
  <version number='1.4'/>
  <description>
    Since version 1.40 pdfTeX supports colour stacks.
    This package uses them to fix colour problems in
    package <xref refid='parallel'>parallel</xref>.
    <p/>
    The package is part of the <xref refid='oberdiek'>oberdiek</xref>
    bundle.
  </description>
  <documentation details='Package documentation'
      href='ctan:/macros/latex/contrib/oberdiek/pdfcolparallel.pdf'/>
  <ctan file='true' path='/macros/latex/contrib/oberdiek/pdfcolparallel.dtx'/>
  <miktex location='oberdiek'/>
  <texlive location='oberdiek'/>
  <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'/>
</entry>
⟨/catalogue⟩
```

6 References

[1] Matthias Eckermann: *The parallel-package*; 2003/04/13; CTAN:macros/latex/contrib/parallel/.

[2] Heiko Oberdiek: *The pdfcol package*; 2007/09/09; CTAN:macros/latex/contrib/oberdiek/pdfcol.pdf.

7 History

[2007/09/09 v1.0]

- First version.

[2007/12/12 v1.1]

- Adds patch for setting \linewidth to fix bug in package parallel.
- Package parallel is also fixed if color stacks are not available.
- Bug fix, switched stacks now initialized with current color.
- Fix for package parallel: \raggedbottom is respected.

[2008/08/11 v1.2]

- Code is not changed.
- URLs updated.

[2010/01/11 v1.3]

- Option 'rulebetweencolor' added.

[2016/05/16 v1.4]

- Documentation updates.

8 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.

Symbols

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\@empty 429
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\@ifundefined 16
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\@nil 444, 449
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