The pdfcolmk package

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2007/01/01 v1.0

Abstract

This package tries a solution for the missing color stack of pdfTeX.

Contents

1 Documentation **1**
1.1 Introduction . . . 1
1.2 Background . . . 2
1.3 Limitations . . . 2
1.4 Recommendation . . . 2
1.5 Usage . . . 2
1.6 Compatibility . . . 2

2 Implementation **3**
2.1 \marginpar fix . . . 4
2.1.1 latex/base/latex.ltx . . . 4
2.1.2 memoir.cls . . . 5
2.1.3 poemscol/marn.sty, poemscol/newmarn.sty . . . 6
2.1.4 refman/refart.cls, refnam/refrep.cls . . . 7
2.2 Color fix . . . 9

3 Installation **10**
3.1 Some details for the interested . . . 10

4 History **11**
[2000/08/27 v0.1] . . . 11
[2000/09/02 v0.2] . . . 11
[2000/09/02 v0.3] . . . 11
[2000/09/06 v0.4] . . . 11
[2000/09/06 v0.5] . . . 11
[2005/06/15 v0.6] . . . 11
[2005/07/09 v0.7] . . . 11
[2006/02/20 v0.8] . . . 12
[2007/01/01 v1.0] . . . 12

5 Index **12**

1 Documentation

1.1 Introduction

This package uses a mark register in order to solve the problem of a missing color stack of pdfTeX prior 1.40.0. Since this version of pdfTeX a color stack is available and supported by `pdftex.def` 2007/01/01 v0.04a. In this case this package is obsolete and the package stops its loading.

1.2 Background

After the Dante meeting (Clausthal 2000) I have started to experiment with the eTeX method of a *colour* mark. One of the major problems is the understanding of the output routine and the need to rewrite it because of missing hooks. Currently I have made some tests in in onecolumn and twocolumn mode, but the state is experimental.

1.3 Limitations

- Mark limitations: page breaks in math.
- LaTeX's output routine is redefinded.
  - Changes in the output routine of newer versions of LaTeX are not detected.
  - Packages that change the output routine are not supported.
- It does not support several independent text streams like footnotes.
- Limitations in float and marginpar support.

1.4 Recommendation

ε-TeX (for additional mark register) Without ε-TeX LaTeX's mark commands are redefined to store an additional color value.

1.5 Usage

Load after package color:

```
\usepackage[pdftex]{color}
\usepackage{pdfcolmk}
```

1.6 Compatibility

- Load the following packages after pdfcolmk:

  mparhack.sty

- Load the following packages before pdfcolmk:

  marn.sty
  newmarn.sty

- Supported `\@addmarginpar` patch:

  latex/base/latex.ltx
  memoir.cls
  poemscol/marn.sty, poemscol/newmarn.sty
  mparhack.sty

- Unsupported `\@addmarginpar` patch:

  lineno.sty
  sttools/marginal.sty
  revtex4.cls

2 Implementation

```
1 ⟨*package⟩
```

Package identification.

```
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{pdfcolmk}%
4   [2007/01/01 v1.0 PDFtex COLor MarK (HO)]
5 \@ifundefined{ver@pdftex.def}{%
6   \PackageWarningNoLine{pdfcolmk}{%
7     Nothing to fix, because \string‘pdftex.def\string’ not loaded%
8   }%
9   \endinput
10 }{}
11 \@ifpackageloaded{color}{}{%
12   \PackageWarningNoLine{pdfcolmk}{%
13     Nothing to fix, because \string‘color.sty\string’ not loaded%
14   }%
15   \endinput
16 }
17 \begingroup\expandafter\expandafter\expandafter\endgroup
18 \expandafter\ifx\csname main@pdfcolorstack\endcsname\relax
19 \else
20   % pdftex.def >= 2007/01/01 0.04a and pdfTeX >= 1.40.0
21   \begingroup
22     \let\on@line\@empty
23     \PackageInfo{pdfcolmk}{%
24       The color stack of pdfTeX \string>\string= 1.40 is used. %
25       Therefore\MessageBreak
26       this package is not necessary and not loaded%
27     }%
28   \endgroup
29   \expandafter\endinput
30 \fi
31
32 \PackageInfo{pdfcolmk}{%
33   This package tries to simulate dvips’s color stack\MessageBreak
34   for pdfTeX based on a mark register of e-TeX.\MessageBreak
35   It redefines LaTeX’s output routine. Therefore\MessageBreak
36   use with care, no warranties%
37 }
38
39 \ifx\marks\@undefined
40
41   \let\pec@mark\mark
42   \let\pec@value\empty
43   \long\def\mark#1{%
44     \protected@xdef\pec@value{#1}%
45     \pec@setmark
46   }
47   \def\pec@setmark{%
48     \begingroup
49       \@temptokena\expandafter{\pec@value}%
50       \pec@mark{{\current@color}\the\@temptokena}%
51     \endgroup
52   }
53   \def\pec@getmark{%
54     \xdef\pec@botcolor{%
55       \expandafter\@firstofthree\botmark\@empty\@empty\@empty
56     }%
57   }
58   \long\def\@firstofthree#1#2#3{#1}%
59   \CheckCommand{\@leftmark}[2]{#1}
```

```
  \CheckCommand{\@rightmark}[2]{#2}
  \CheckCommand*{\leftmark}{%
    \expandafter\@leftmark\botmark\@empty\@empty
  }
  \CheckCommand*{\rightmark}{%
    \expandafter\@rightmark\firstmark\@empty\@empty
  }
  \long\def\@leftmark#1#2#3{#2}
  \long\def\@rightmark#1#2#3{#3}
  \g@addto@macro\leftmark\@empty
  \g@addto@macro\rightmark\@empty

\else

  \RequirePackage{etex}[1998/03/26]
  \newmarks\pec@marks
  \def\pec@setmark{\marks\pec@marks{\current@color}}
  \def\pec@getmark{\xdef\pec@botcolor{\botmarks\pec@marks}}

\fi
```

2.1 \marginpar fix

```
\chardef\pec@result\z@
\def\pec@temp#1{%
  \chardef\pec@result\@ne
  \begingroup
    \let\on@line\@empty
    \PackageInfo{pdfcolmk}{%
      Patch for \string\@addmarginpar\space applied (#1)%
    }%
  \endgroup
}
```

2.1.1 latex/base/latex.ltx

```
\def\pec@addmarginpar{%
  \@next\@marbox\@currlist{%
    \@cons\@freelist\@marbox
    \@cons\@freelist\@currbox
  }\@latexbug
  \@tempcnta\@ne
  \if@twocolumn
    \if@firstcolumn
      \@tempcnta\m@ne
    \fi
  \else
    \if@mparswitch
      \ifodd\c@page
      \else
        \@tempcnta\m@ne
      \fi
    \fi
    \if@reversemargin \@tempcnta -\@tempcnta \fi
  \fi
  \ifnum\@tempcnta <\z@  \global\setbox\@marbox\box\@currbox \fi
  \@tempdima\@mparbottom
  \advance\@tempdima -\@pageht
  \advance\@tempdima\ht\@marbox
  \ifdim\@tempdima >\z@
    \@latex@warning@no@line{Marginpar on page \thepage\space moved}%
  \else
    \@tempdima\z@
  \fi
```

```
  \global\@mparbottom\@pageht
  \global\advance\@mparbottom\@tempdima
  \global\advance\@mparbottom\dp\@marbox
  \global\advance\@mparbottom\marginparpush
  \advance\@tempdima -\ht\@marbox
  \global\setbox\@marbox\vbox{%
    \vskip \@tempdima
    \box \@marbox
  }%
  \global \ht\@marbox \z@
  \global \dp\@marbox \z@
  \kern -\@pagedp
  \nointerlineskip
  \hb@xt@\columnwidth{%
    \ifnum \@tempcnta >\z@
      \hskip\columnwidth
      \hskip\marginparsep
    \else
      \hskip -\marginparsep
      \hskip -\marginparwidth
    \fi
    \box\@marbox \hss
  }%
  \nointerlineskip
  \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}%
}
\ifx\pec@addmarginpar\@addmarginpar
  \pec@temp{latex/base}%
\fi
```

2.1.2 memoir.cls

```
\def\pec@addmarginpar{%
  \checkoddpage
  \@next\@marbox\@currlist{%
    \@cons\@freelist\@marbox
    \@cons\@freelist\@currbox
  }\@latexbug
  \@tempcnta\@ne
  \if@twocolumn
    \if@firstcolumn
      \@tempcnta\m@ne
    \fi
  \else
    \if@mparswitch
      \ifoddpage
      \else
        \@tempcnta\m@ne
      \fi
    \fi
    \if@reversemargin
      \@tempcnta -\@tempcnta
    \fi
  \fi
  \ifnum\@tempcnta <\z@
    \global\setbox\@marbox\box\@currbox
  \fi
  \@tempdima\@mparbottom
  \advance\@tempdima -\@pageht
  \advance\@tempdima\ht\@marbox
  \ifdim\@tempdima >\z@
    \@latex@warning@no@line{%
      Marginpar on page \thepage\space moved by \the\@tempdima
    }%
```

```
  \else
    \@tempdima\z@
  \fi
  \global\@mparbottom\@pageht
  \global\advance\@mparbottom\@tempdima
  \global\advance\@mparbottom\dp\@marbox
  \global\advance\@mparbottom\marginparpush
  \advance\@tempdima -\ht\@marbox
  \global\setbox\@marbox\vbox{%
    \vskip \@tempdima
    \box \@marbox
  }%
  \global \ht\@marbox \z@
  \global \dp\@marbox \z@
  \kern -\@pagedp
  \nointerlineskip
  \hb@xt@\columnwidth{%
    \ifnum \@tempcnta >\z@
      \hskip\columnwidth
      \hskip\marginparsep
    \else
      \hskip -\marginparsep
      \hskip -\marginparwidth
    \fi
    \box\@marbox
    \hss
  }%
  \nointerlineskip
  \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}%
}%
\ifx\pec@addmarginpar\@addmarginpar
  \pec@temp{memoir.cls}%
\fi
```

2.1.3 poemscol/marn.sty, poemscol/newmarn.sty

```
\def\pec@addmarginpar{%
  \@next \@marbox\@currlist{%
    \@cons\@freelist\@marbox
    \@cons\@freelist\@currbox
  }\@latexbug
  \global\advance\@mpar@count\m@ne
  \@ifundefined{@marn@\the\@mpar@count @}{% was location logged last time?
    \@tempcnta\@ne % NO: use original LaTeX logic
    \if@twocolumn
      \if@firstcolumn
        \@tempcnta\m@ne
      \fi
    \else
      \if@mparswitch
        \ifodd\c@page
        \else
          \@tempcnta\m@ne
        \fi
      \fi
      \if@reversemargin
        \@tempcnta -\@tempcnta
      \fi
    \fi
  }{%
    \@tempcnta %    YES: use record from last time to decide side.
    \@nameuse{@marn@\the\@mpar@count @}%
    \if@reversemargin -\fi \@ne
  }%
```

```
  \ifnum\@tempcnta <\z@
    \global\setbox\@marbox\box\@currbox
    \global\let\@marnbottom\@mparbottoml
  \else
    \global\let\@marnbottom\@mparbottom
  \fi
  \@tempdima\@marnbottom \advance\@tempdima -\@pageht
  \advance\@tempdima\ht\@marbox
  \ifdim\@tempdima >\z@
    \@@warning{Marginpar on page \thepage\space moved}%
  \else
    \@tempdima\z@
  \fi
  \global\@marnbottom\@pageht
  \global\advance\@marnbottom\@tempdima
  \global\advance\@marnbottom\dp\@marbox
  \global\advance\@marnbottom\marginparpush
  \advance\@tempdima -\ht\@marbox
  \global\ht\@marbox\z@
  \global\dp\@marbox\z@
  \vskip -\@pagedp
  \vskip\@tempdima\nointerlineskip
  \hbox to\columnwidth{%
    \ifnum \@tempcnta >\z@
      \hskip\columnwidth
      \hskip\marginparsep
    \else
      \hskip -\marginparsep
      \hskip -\marginparwidth
    \fi
    \if@filesw % record where this is for use next time:
       \@marn@log\@mpar@count
    \fi
    \box\@marbox
    \hss
  }%
  \nobreak   %% RmS 91/06/21 \nobreak added
  \vskip -\@tempdima
  \nointerlineskip
  \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}%
}
\ifx\pec@addmarginpar\@addmarginpar
  \pec@temp{poemscol/(new)marn.sty}%
\fi
```

2.1.4 refman/refart.cls, refnam/refrep.cls

```
\def\pec@addmarginpar{%
  \@next\@marbox\@currlist{%
    \@cons\@freelist\@marbox
    \@cons\@freelist\@currbox
  }\@latexbug
  \@tempcnta\@ne
  \if@twocolumn
    \if@firstcolumn
      \@tempcnta\m@ne
    \fi
  \else
    \@tempcnta\m@ne
  \fi
  \ifnum\@tempcnta <\z@
    \global\setbox\@marbox\box\@currbox
  \fi
  \@tempdima\@mparbottom
```

```
  \advance\@tempdima -\@pageht
  \advance\@tempdima\ht\@marbox
  \ifdim\@tempdima >\z@
     \@@warning{Marginpar on page \thepage\space moved}%
  \else
     \@tempdima\z@
  \fi
  \global\@mparbottom\@pageht
  \global\advance\@mparbottom\@tempdima
  \global\advance\@mparbottom\dp\@marbox
  \global\advance\@mparbottom\marginparpush
  \advance\@tempdima -\ht\@marbox
  \global\setbox\@marbox\vbox{%
    \vskip \@tempdima \box \@marbox
  }%
  \global \ht\@marbox \z@
  \global \dp\@marbox \z@
  \kern -\@pagedp
  \nointerlineskip
  \hb@xt@\columnwidth{%
    \ifnum \@tempcnta >\z@
      \hskip\columnwidth
      \hskip\marginparsep
    \else
      \hskip -\marginparsep
      \hskip -\marginparwidth
    \fi
    \box\@marbox
    \hss
  }%
  \nointerlineskip
  \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}%
}
\ifx\pec@addmarginpar\@addmarginpar
  \pec@temp{ref(art|rep).cls}%
\fi

\ifcase\pec@result
  \PackageInfo{pdfcolmk}{%
    Fix for \string\@addmarginpar\space is omitted, %
    because this variant\MessageBreak
    of \string\@addmarginpar\space
      is not recognized%
  }%
\else
  % apply patch for \@addmarginpar
  \def\pec@PatchAddMarginpar#1\columnwidth#2#3\@nil{%
    \pec@PatchAddMarginparI#2\@nil{#1}{#3}%
  }%
  \def\pec@PatchAddMarginparI#1\box\@marbox\hss#2\@nil#3#4{%
    \def\@addmarginpar{%
      #3%
      \columnwidth{%
        #1%
        \pdfliteral{q}%
        \rlap{%
          \box\@marbox
        }%
        \pdfliteral{Q}%
        \hss
        #2%
      }%
```

```
      #4%
    }%
  }%
  \expandafter\pec@PatchAddMarginpar\@addmarginpar\@nil
\fi
```

2.2 Color fix

```
\def\set@color{%
  \pdfliteral{\current@color}%
  \ifinner
  \else
    \pec@setmark
  \fi
  \aftergroup\reset@color
}
\def\reset@color{%
  \pdfliteral{\current@color}%
  \ifinner
  \else
    \pec@setmark
  \fi
}

\let\pec@botcolor\current@color

\def\pec@PatchVBoxCCLV{%
  \ifx\pec@botcolor\@empty
  \else
    \setbox\@cclv\vbox{%
      \pdfliteral{\pec@botcolor}%
      \unvbox\@cclv
    }%
  \fi
  \pec@getmark
}

\def\pec@PatchAlreadyInBox{%
  \ifx\pec@botcolor\@empty
  \else
    \pdfliteral{\pec@botcolor}%
  \fi
  \pec@getmark
}

\@ifclassloaded{memoir}{%
  \expandafter\def\expandafter\mem@makecol\expandafter{%
    \expandafter\pec@PatchVBoxCCLV
    \mem@makecol
  }%
  \endinput
}{}

\@ifclassloaded{seminar}{%
  \newcommand\pec@org@makeslide{}
  \let\pec@org@makeslide\@makeslide
  \def\@makeslide{%
    \pec@PatchVBoxCCLV
    \pec@org@makeslide
  }%
  \endinput
}{}

```

```
\long\def\pec@output#1\@specialoutput\else#2\pec@end{%
  \begingroup
    \def\x{#2}%
  \expandafter\endgroup
  \ifx\x\@empty
    \PackageWarningNoLine{pdfcolmk}{%
      Unexpected \string\output\space routine detected,%
      \MessageBreak
      loading of package stopped%
    }%
    \expandafter\endinput
  \fi
}
\expandafter\expandafter\expandafter\pec@output
\expandafter\@firstofone\the\output\@specialoutput\else\pec@end

\long\def\pec@output#1\@specialoutput\else#2\pec@end{%
  \output{%
    #1\@specialoutput\else
    \pec@PatchVBoxCCLV
    #2%
  }%
}
\expandafter\expandafter\expandafter\pec@output
\expandafter\@firstofone\the\output\pec@end
```

⟨/package⟩

3 Installation

CTAN. This package is available on CTAN[1]:

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

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

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

```
tex pdfcolmk.dtx
```

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

```
pdfcolmk.sty  →  tex/latex/oberdiek/pdfcolmk.sty
pdfcolmk.pdf  →  doc/latex/oberdiek/pdfcolmk.pdf
pdfcolmk.dtx  →  source/latex/oberdiek/pdfcolmk.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.

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

3.1 Some details for the interested

Attached source. The PDF documentation on CTAN also includes the `.dtx` source file. It can be extracted by AcrobatReader 6 or higher. Another option is pdftk, e.g. unpack the file into the current directory:

```
pdftk pdfcolmk.pdf unpack_files output .
```

[1] ftp://ftp.ctan.org/tex-archive/

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{pdfcolmk.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 pdfcolmk.dtx
makeindex -s gind.ist pdfcolmk.idx
pdflatex pdfcolmk.dtx
makeindex -s gind.ist pdfcolmk.idx
pdflatex pdfcolmk.dtx
```

4 History

[2000/08/27 v0.1]

- First published version (`comp.text.tex`, `pdftex@tug.org`).

[2000/09/02 v0.2]

- Next try.

[2000/09/02 v0.3]

- Solution without ε-TeX added.

[2000/09/06 v0.4]

- Patch commands added.
- Patch for seminar.cls added.

[2000/09/06 v0.5]

- Bug fix: initialization of `\pec@value` added.

[2005/06/15 v0.6]

a

- Support for dded. See thread in `comp.text.tex` (Message-ID: `d86d3r$kpv$1@news.BelWue.DE`).

[2005/07/09 v0.7]

- Output support added for memoir, provided by Lars Madsen.

[2006/02/20 v0.8]

- Code is not changed.
- DTX framework.

[2007/01/01 v1.0]

- If `pdftex.def` >= 2007/01/01 v0.04a is used with pdfTeX 1.40.0, then package pdfcolmk is obsolete.

5 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; numbers in roman refer to the code lines where the entry is used.

Symbols

\@@warning 249, 304
\@addmarginpar 86, 144, 209, 281, 334, 340, 342, 346, 351, 366
\@cclv 389, 391
\@cons 92, 93, 150, 151, 214, 215, 286, 287
\@currbox 93, 109, 151, 170, 215, 241, 287, 298
\@currlist 91, 149, 213, 285
\@depth 142, 207, 279, 332
\@empty 22, 55, 62, 65, 69, 70, 84, 387, 398, 427
\@firstofone 437, 447
\@firstofthree 55, 58
\@freelist 92, 93, 150, 151, 214, 215, 286, 287
\@height 142, 207, 279, 332
\@ifclassloaded 405, 413
\@ifpackageloaded 11
\@ifundefined 5, 218
\@latex@warning@no@line . . . 114, 176
\@latexbug 94, 152, 216, 288
\@leftmark 59, 62, 67
\@makeslide 415, 416
\@marbox 91, 92, 109, 112, 120, 122, 123, 125, 127, 128, 139, 149, 150, 170, 174, 184, 186, 187, 189, 191, 192, 203, 213, 214, 241, 247, 255, 257, 258, 259, 273, 285, 286, 298, 302, 310, 312, 313, 314, 316, 317, 328, 350, 357
\@marn@log 271
\@marnbottom 242, 244, 246, 253, 254, 255, 256
\@mpar@count 217, 218, 237, 271
\@mparbottom 110, 118, 119, 120, 121, 172, 182, 183, 184, 185, 244, 300, 308, 309, 310, 311
\@mparbottoml 242
\@nameuse 237
\@ne 82, 95, 153, 219, 238, 289
\@next 91, 149, 213, 285
\@nil 347, 348, 350, 366
\@pagedp 129, 142, 193, 207, 260, 279, 318, 332
\@pageht 111, 118, 173, 182, 246, 253, 301, 308
\@rightmark 60, 65, 68
\@specialoutput . . . 423, 437, 439, 441
\@tempcnta . . 95, 98, 104, 107, 109, 132, 153, 156, 162, 166, 169, 196, 219, 222, 228, 232, 236, 240, 263, 289, 292, 295, 297, 321
\@tempdima 110, 111, 112, 113, 116, 119, 122, 124, 172, 173, 174, 175, 177, 180, 183, 186, 188, 246, 247, 248, 251, 254, 257, 261, 277, 300, 301, 302, 303, 306, 309, 312, 314
\@temptokena 49, 50
\@undefined 39
\@width 142, 207, 279, 332

A

\advance 111, 112, 119, 120, 121, 122, 173, 174, 183, 184, 185, 186, 217, 246, 247, 254, 255, 256, 257, 301, 302, 309, 310, 311, 312
\aftergroup 374

B

\botmark 55, 62
\botmarks 77
\box . . . 109, 125, 139, 170, 189, 203, 241, 273, 298, 314, 328, 350, 357

C

\c@page 102, 226
\chardef 80, 82
\CheckCommand 59, 60, 61, 64
\checkoddpage 148
\columnwidth 131, 133, 195, 197, 262, 264, 320, 322, 347, 353
\csname 18
\current@color . . 50, 76, 369, 377, 384

D

\dp 120, 128, 184, 192, 255, 259, 310, 317

E

\empty 42
\endcsname 18
\endinput 9, 15, 29, 410, 420, 433

F

\firstmark 65

G

\g@addto@macro 69, 70

H

\hb@xt@ 131, 195, 320
\hbox 142, 207, 262, 279, 332
\hskip 133, 134, 136, 137, 197, 198, 200, 201, 264, 265, 267, 268, 322, 323, 325, 326
\hss 139, 204, 274, 329, 350, 360
\ht 112, 122, 127, 174, 186, 191, 247, 257, 258, 302, 312, 316

I

\if@filesw 270
\if@firstcolumn 97, 155, 221, 291
\if@mparswitch 101, 159, 225
\if@reversemargin . 107, 165, 231, 238
\if@twocolumn 96, 154, 220, 290
\ifcase 338
\ifdim 113, 175, 248, 303
\ifinner 370, 378
\ifnum 109, 132, 169, 196, 240, 263, 297, 321
\ifodd 102, 226
\ifoddpage 160
\ifx 18, 39, 144, 209, 281, 334, 387, 398, 427

K

\kern 129, 193, 318

L

\leftmark 61, 69

M

\m@ne 98, 104, 156, 162, 217, 222, 228, 292, 295
\marginparpush 121, 185, 256, 311
\marginparsep 134, 136, 198, 200, 265, 267, 323, 325
\marginparwidth . . . 137, 201, 268, 326
\mark 41, 43
\marks 39, 76
\mem@makecol 406, 408
\MessageBreak . 25, 33, 34, 35, 341, 430

N

\NeedsTeXFormat 2
\newcommand 414
\newmarks 75
\nobreak 276
\nointerlineskip 130, 141, 194, 206, 261, 278, 319, 331

O

\on@line 22, 84
\output 429, 437, 440, 447

P

\PackageInfo 23, 32, 85, 339
\PackageWarningNoLine 6, 12, 428
\pdfliteral 355, 359, 369, 377, 390, 400
\pec@addmarginpar 90, 144, 147, 209, 212, 281, 284, 334
\pec@botcolor 54, 77, 384, 387, 390, 398, 400
\pec@end 423, 437, 439, 447
\pec@getmark 53, 77, 394, 402
\pec@mark 41, 50
\pec@marks 75, 76, 77
\pec@org@makeslide 414, 415, 418
\pec@output 423, 436, 439, 446
\pec@PatchAddMarginpar 347, 366
\pec@PatchAddMarginparI . . . 348, 350
\pec@PatchAlreadyInBox 397
\pec@PatchVBoxCCLV . 386, 407, 417, 442
\pec@result 80, 82, 338
\pec@setmark 45, 47, 76, 372, 380
\pec@temp 81, 145, 210, 282, 335
\pec@value 42, 44, 49
\protected@xdef 44
\ProvidesPackage 3

R

\RequirePackage 74
\reset@color 374, 376
\rightmark 64, 70
\rlap 356

S

\set@color 368
\setbox 109, 123, 170, 187, 241, 298, 313, 389
\space 86, 114, 177, 249, 304, 340, 342, 429

T

\the 50, 177, 218, 237, 437, 447
\thepage 114, 177, 249, 304

U

\unvbox 391

V

\vbox 123, 187, 313, 389
\vrule 142, 207, 279, 332
\vskip 124, 188, 260, 261, 277, 314

X

\x 425, 427

Z

\z@ 80, 109, 113, 116, 127, 128, 132, 142, 169, 175, 180, 191, 192, 196, 207, 240, 248, 251, 258, 259, 263, 279, 297, 303, 306, 316, 317, 321, 332