

# The pdfcolmk package

Heiko Oberdiek  
<oberdiek@uni-freiburg.de>

2007/04/11 v1.1

## Abstract

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

## Contents

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Introduction	2
1.2	Background	2
1.3	Limitations	2
1.4	Recommendation	2
1.5	Usage	2
1.6	Compatibility	2
<b>2</b>	<b>Implementation</b>	<b>3</b>
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
<b>3</b>	<b>Installation</b>	<b>10</b>
3.1	Download	10
3.2	Bundle installation	10
3.3	Package installation	11
3.4	Refresh file name databases	11
3.5	Some details for the interested	11
<b>4</b>	<b>History</b>	<b>11</b>
	[2000/08/27 v0.1]	11
	[2000/09/02 v0.2]	12
	[2000/09/02 v0.3]	12
	[2000/09/06 v0.4]	12
	[2000/09/06 v0.5]	12
	[2005/06/15 v0.6]	12
	[2005/07/09 v0.7]	12
	[2006/02/20 v0.8]	12
	[2007/01/01 v1.0]	12
	[2007/04/11 v1.1]	12
<b>5</b>	<b>Index</b>	<b>12</b>

# 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 In this case this package is obsolete and the package stops its loading.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 onecolumn and twocolumn mode, but the state is experimental.

## 1.3 Limitations

- Mark limitations: page breaks in math.
- L<sup>A</sup>T<sub>E</sub>X's output routine is redefined.
  - 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

$\varepsilon$ -T<sub>E</sub>X (for additional mark register) Without  $\varepsilon$ -T<sub>E</sub>X L<sup>A</sup>T<sub>E</sub>X'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   [2007/04/11 v1.1 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}%
60 \CheckCommand{\@rightmark}[2]{#2}%
61 \CheckCommand*{\leftmark}{%
62   \expandafter\@leftmark\botmark\@empty\@empty
63 }%
64 \CheckCommand*{\rightmark}{%
65   \expandafter\@rightmark\firstmark\@empty\@empty
66 }%
67 \long\def\@leftmark#1#2#3{#2}%
68 \long\def\@rightmark#1#2#3{#3}%
69 \g@addto@macro\leftmark\@empty
70 \g@addto@macro\rightmark\@empty
71
72 \else
73
74   \RequirePackage{etex}[1998/03/26]%
75   \newmarks\pec@marks
76   \def\pec@setmark{\marks\pec@marks{\current@color}}%
77   \def\pec@getmark{\xdef\pec@botcolor{\botmarks\pec@marks}}%
78
79 \fi

```

## 2.1 \marginpar fix

```

80 \chardef\pec@result\z@
81 \def\pec@temp#1{%
82   \chardef\pec@result\@ne
83   \begingroup
84     \let\on@line\@empty
85     \PackageInfo{pdfcolmk}{%
86       Patch for \string\@addmarginpar\space applied (#1)%
87     }%
88   \endgroup
89 }

```

### 2.1.1 latex/base/latex.ltx

```

90 \def\pec@addmarginpar{%
91   \@next\@marbox\@currlist{%
92     \@cons\@freelist\@marbox
93     \@cons\@freelist\@currbox
94   }\@latexbug
95   \@tempcnta\@ne
96   \if@twocolumn
97     \if@firstcolumn
98       \@tempcnta\m@ne
99     \fi
100  \else
101    \if@mparswitch
102      \ifodd\c@page
103        \else
104          \@tempcnta\m@ne
105        \fi
106      \fi
107    \if@reversemargin \@tempcnta -\@tempcnta \fi
108  \fi
109  \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
110  \@tempdima\@mparbottom
111  \advance\@tempdima -\@pageht
112  \advance\@tempdima\ht\@marbox

```

```

113 \ifdim\@tempdima >\z@
114   \@latex@warning@no@line{Marginpar on page \thepage\space moved}%
115 \else
116   \@tempdima\z@
117 \fi
118 \global\@mparbottom\@pageht
119 \global\advance\@mparbottom\@tempdima
120 \global\advance\@mparbottom\dp\@marbox
121 \global\advance\@mparbottom\marginparpush
122 \advance\@tempdima -\ht\@marbox
123 \global\setbox\@marbox\vbox{%
124   \vskip \@tempdima
125   \box \@marbox
126 }%
127 \global \ht\@marbox \z@
128 \global \dp\@marbox \z@
129 \kern -\@pagedp
130 \nointerlineskip
131 \hb@xt@\columnwidth{%
132   \ifnum \@tempcnta >\z@
133     \hskip\columnwidth
134     \hskip\marginparsep
135   \else
136     \hskip -\marginparsep
137     \hskip -\marginparwidth
138   \fi
139   \box\@marbox \hss
140 }%
141 \nointerlineskip
142 \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}%
143 }
144 \ifx\pec@addmarginpar\@addmarginpar
145   \pec@temp{latex/base}%
146 \fi

```

## 2.1.2 memoir.cls

```

147 \def\pec@addmarginpar{%
148   \checkoddpages
149   \@next\@marbox\@currlist{%
150     \@cons\@freelist\@marbox
151     \@cons\@freelist\@currbox
152   } \@latexbug
153   \@tempcnta\@ne
154   \if@twocolumn
155     \if@firstcolumn
156       \@tempcnta\m@ne
157     \fi
158   \else
159     \if@mparswitch
160       \ifoddpage
161       \else
162         \@tempcnta\m@ne
163       \fi
164     \fi
165     \if@reversemargin
166       \@tempcnta -\@tempcnta
167     \fi
168   \fi
169   \ifnum\@tempcnta <\z@
170     \global\setbox\@marbox\box\@currbox
171   \fi
172   \@tempdima\@mparbottom
173   \advance\@tempdima -\@pageht

```

```

174 \advance\@tempdima\ht\@marbox
175 \ifdim\@tempdima >\z@
176   \@latexwarning@no@line{%
177     Marginpar on page \thepage\space moved by \the\@tempdima
178   }%
179 \else
180   \@tempdima\z@
181 \fi
182 \global\@mparbottom\@pageht
183 \global\advance\@mparbottom\@tempdima
184 \global\advance\@mparbottom\dp\@marbox
185 \global\advance\@mparbottom\marginparpush
186 \advance\@tempdima -\ht\@marbox
187 \global\setbox\@marbox\vbox{%
188   \vskip \@tempdima
189   \box \@marbox
190 }%
191 \global \ht\@marbox \z@
192 \global \dp\@marbox \z@
193 \kern -\@pagedp
194 \nointerlineskip
195 \hb@xt@\columnwidth{%
196   \ifnum \@tempcnta >\z@
197     \hskip\columnwidth
198     \hskip\marginparsep
199   \else
200     \hskip -\marginparsep
201     \hskip -\marginparwidth
202   \fi
203   \box\@marbox
204   \hss
205 }%
206 \nointerlineskip
207 \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}%
208 }%
209 \ifx\pec@addmarginpar\@addmarginpar
210   \pec@temp{memoir.cls}%
211 \fi

```

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

```

212 \def\pec@addmarginpar{%
213   \@next \@marbox\@currlist{%
214     \@cons\@freelist\@marbox
215     \@cons\@freelist\@currbox
216   } \@latexbug
217   \global\advance\@mpar@count\m@ne
218   \@ifundefined{marn@the\@mpar@count @}{% was location logged last time?
219     \@tempcnta\@ne % NO: use original LaTeX logic
220     \if@twocolumn
221       \if@firstcolumn
222         \@tempcnta\m@ne
223       \fi
224     \else
225       \if@mparswitch
226         \ifodd\c@page
227         \else
228           \@tempcnta\m@ne
229         \fi
230       \fi
231       \if@reversemargin
232         \@tempcnta -\@tempcnta
233       \fi
234     \fi

```

```

235 }{%
236   \@tempcnta %    YES: use record from last time to decide side.
237   \@nameuse{@marn@the\@mpar@count @}%
238   \if@reversemargin -\fi \@ne
239 }%
240 \ifnum \@tempcnta <\z@
241   \global\setbox\@marbox\box\@currbox
242   \global\let\@marnbottom\@mparbottoml
243 \else
244   \global\let\@marnbottom\@mparbottom
245 \fi
246 \@tempdima\@marnbottom \advance\@tempdima -\@pageht
247 \advance\@tempdima\ht\@marbox
248 \ifdim \@tempdima >\z@
249   @@warning{Marginpar on page \thepage\space moved}%
250 \else
251   \@tempdima\z@
252 \fi
253 \global\@marnbottom\@pageht
254 \global\advance\@marnbottom\@tempdima
255 \global\advance\@marnbottom\dp\@marbox
256 \global\advance\@marnbottom\marginparpush
257 \advance\@tempdima -\ht\@marbox
258 \global\ht\@marbox\z@
259 \global\dp\@marbox\z@
260 \vskip -\@pagedp
261 \vskip \@tempdima\nointerlineskip
262 \hbox to\columnwidth{%
263   \ifnum \@tempcnta >\z@
264     \hskip\columnwidth
265     \hskip\marginparsep
266   \else
267     \hskip -\marginparsep
268     \hskip -\marginparwidth
269   \fi
270   \if@filesw % record where this is for use next time:
271     \@marn@log\@mpar@count
272   \fi
273   \box\@marbox
274   \hss
275 }%
276 \nobreak   %% RmS 91/06/21 \nobreak added
277 \vskip -\@tempdima
278 \nointerlineskip
279 \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}%
280 }
281 \ifx\pec@addmarginpar\@addmarginpar
282   \pec@temp{poemscol/(new)marn.sty}%
283 \fi

```

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

```

284 \def\pec@addmarginpar{%
285   \@next\@marbox\@currlist{%
286     \@cons\@freelist\@marbox
287     \@cons\@freelist\@currbox
288   }\@latexbug
289   \@tempcnta\@ne
290   \if@twocolumn
291     \if@firstcolumn
292       \@tempcnta\m@ne
293     \fi
294   \else
295     \@tempcnta\m@ne

```

```

296 \fi
297 \ifnum \@tempcnta < \z@
298   \global\setbox\@marbox\box\@currbox
299 \fi
300 \@tempdima\@mparbottom
301 \advance\@tempdima -\@pageht
302 \advance\@tempdima\ht\@marbox
303 \ifdim\@tempdima > \z@
304   \@@warning{Marginpar on page \thepage\space moved}%
305 \else
306   \@tempdima\z@
307 \fi
308 \global\@mparbottom\@pageht
309 \global\advance\@mparbottom\@tempdima
310 \global\advance\@mparbottom\dp\@marbox
311 \global\advance\@mparbottom\marginparpush
312 \advance\@tempdima -\ht\@marbox
313 \global\setbox\@marbox\vbox{%
314   \vskip \@tempdima \box \@marbox
315 }%
316 \global \ht\@marbox \z@
317 \global \dp\@marbox \z@
318 \kern -\@pagedp
319 \nointerlineskip
320 \hb@xt@\columnwidth{%
321   \ifnum \@tempcnta > \z@
322     \hskip\columnwidth
323     \hskip\marginparsep
324   \else
325     \hskip -\marginparsep
326     \hskip -\marginparwidth
327   \fi
328   \box\@marbox
329   \hss
330 }%
331 \nointerlineskip
332 \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}%
333 }
334 \ifx\pec@addmarginpar\@addmarginpar
335   \pec@temp{ref(art|rep).cls}%
336 \fi
337
338 \ifcase\pec@result
339   \PackageInfo{pdfcolmk}{%
340     Fix for \string\@addmarginpar\space is omitted, %
341     because this variant\MessageBreak
342     of \string\@addmarginpar\space
343     is not recognized%
344   }%
345 \else
346   % apply patch for \@addmarginpar
347   \def\pec@PatchAddMarginpar#1\columnwidth#2#3\@nil{%
348     \pec@PatchAddMarginparI#2\@nil{#1}{#3}%
349   }%
350   \def\pec@PatchAddMarginparI#1\box\@marbox\hss#2\@nil#3#4{%
351     \def\@addmarginpar{%
352       #3%
353       \columnwidth{%
354         #1%
355         \pdfliteral{q}%
356         \rlap{%
357           \box\@marbox

```



```

358         }%
359         \pdfliteral{Q}%
360         \hss
361         #2%
362     }%
363     #4%
364 }%
365 }%
366 \expandafter\pec@PatchAddMarginpar\@addmarginpar\@nil
367 \fi

```

## 2.2 Color fix

```

368 \def\set@color{%
369     \pdfliteral{\current@color}%
370     \ifinner
371     \else
372         \pec@setmark
373     \fi
374     \aftergroup\reset@color
375 }
376 \def\reset@color{%
377     \pdfliteral{\current@color}%
378     \ifinner
379     \else
380         \pec@setmark
381     \fi
382 }
383
384 \let\pec@botcolor\current@color
385
386 \def\pec@PatchVBoxCCLV{%
387     \ifx\pec@botcolor\@empty
388     \else
389         \setbox\@cclv\vbox{%
390             \pdfliteral{\pec@botcolor}%
391             \unvbox\@cclv
392         }%
393     \fi
394     \pec@getmark
395 }
396
397 \def\pec@PatchAlreadyInBox{%
398     \ifx\pec@botcolor\@empty
399     \else
400         \pdfliteral{\pec@botcolor}%
401     \fi
402     \pec@getmark
403 }
404
405 \@ifclassloaded{memoir}{%
406     \expandafter\def\expandafter\mem@makecol\expandafter{%
407         \expandafter\pec@PatchVBoxCCLV
408         \mem@makecol
409     }%
410     \endinput
411 }{}
412
413 \@ifclassloaded{seminar}{%
414     \newcommand\pec@org@makeslide{}%
415     \let\pec@org@makeslide\@makeslide
416     \def\@makeslide{%
417         \pec@PatchVBoxCCLV

```

```

418     \pec@org@makeslide
419 }%
420 \endinput
421 }{}
422
423 \long\def\pec@output#1\@specialoutput\else#2\pec@end{%
424   \begingroup
425   \def\x{#2}%
426   \expandafter\endgroup
427   \ifx\x\@empty
428     \PackageWarningNoLine{pdfcolmk}{%
429       Unexpected \string\output\space routine detected,%
430       \MessageBreak
431       loading of package stopped%
432     }%
433   \expandafter\endinput
434   \fi
435 }
436 \expandafter\expandafter\expandafter\pec@output
437 \expandafter\@firstofone\the\output\@specialoutput\else\pec@end
438
439 \long\def\pec@output#1\@specialoutput\else#2\pec@end{%
440   \output{%
441     #1\@specialoutput\else
442     \pec@PatchVBoxCCLV
443     #2%
444   }%
445 }
446 \expandafter\expandafter\expandafter\pec@output
447 \expandafter\@firstofone\the\output\pec@end
448 \endpackage

```

## 3 Installation

### 3.1 Download

**Package.** This package is available on CTAN<sup>1</sup>:

[CTAN:macros/latex/contrib/oberdiek/pdfcolmk.dtx](#) The source file.

[CTAN:macros/latex/contrib/oberdiek/pdfcolmk.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:macros/latex/contrib/oberdiek/oberdiek-tds.zip](#)

### 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
```

**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/
```

---

<sup>1</sup>[ftp://ftp.ctan.org/tex-archive/](http://ftp.ctan.org/tex-archive/)

### 3.3 Package installation

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

```
tex 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`.

### 3.4 Refresh file name databases

If your  $\TeX$  distribution (te $\TeX$ , mi $\TeX$ , ...) relies on file name databases, you must refresh these. For example, te $\TeX$  users run `texhash` or `mktextlsr`.

### 3.5 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 .
```

**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 pdf $\LaTeX$ :

```
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  $\varepsilon$ -T<sub>E</sub>X 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]

- Support for `dded`. See thread in `comp.text.tex` (Message-ID: d86d3r\$kp\$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`  $\geq$  2007/01/01 v0.04a is used with pdfT<sub>E</sub>X 1.40.0, then package `pdfcolmk` is obsolete.

[2007/04/11 v1.1]

- Line ends sanitized.

## 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	
<code>\@@warning</code> . . . . .	249, 304
<code>\@addmarginpar</code> . . . . .	86, 144, 209, 281, 334, 340, 342, 346, 351, 366
<code>\@cclv</code> . . . . .	389, 391
<code>\@cons</code> 92, 93, 150, 151, 214, 215, 286, 287	
<code>\@currbox</code> . . . . .	93, 109, 151, 170, 215, 241, 287, 298
<code>\@currlist</code> . . . . .	91, 149, 213, 285
<code>\@depth</code> . . . . .	142, 207, 279, 332
<code>\@empty</code> . . . . .	22, 55, 62, 65, 69, 70, 84, 387, 398, 427
<code>\@firstofone</code> . . . . .	437, 447
<code>\@firstofthree</code> . . . . .	55, 58
<code>\@freelist</code> . . . . .	92, 93, 150, 151, 214, 215, 286, 287
<code>\@height</code> . . . . .	142, 207, 279, 332
<code>\@ifclassloaded</code> . . . . .	405, 413
<code>\@ifpackageloaded</code> . . . . .	11
<code>\@ifundefined</code> . . . . .	5, 218
<code>\@latex@warning@no@line</code> . . .	114, 176
<code>\@latexbug</code> . . . . .	94, 152, 216, 288
<code>\@leftmark</code> . . . . .	59, 62, 67
<code>\@makeslide</code> . . . . .	415, 416
<code>\@marbox</code> . . . . .	
	91, 92, 109, 112, 120, 122, 123,



<code>\output</code> . . . . .	429, 437, 440, 447	<code>\rightmark</code> . . . . .	64, 70
		<code>\rlap</code> . . . . .	356
<b>P</b>			
<code>\PackageInfo</code> . . . . .	23, 32, 85, 339	<b>S</b>	
<code>\PackageWarningNoLine</code> . . . .	6, 12, 428	<code>\set@color</code> . . . . .	368
<code>\pdfliteral</code> . . . . .	355, 359, 369, 377, 390, 400	<code>\setbox</code> . . . . .	109,
<code>\pec@addmarginpar</code> . . . . .	90,		123, 170, 187, 241, 298, 313, 389
	144, 147, 209, 212, 281, 284, 334	<code>\space</code> . . . . .	86,
<code>\pec@botcolor</code> . . . . .			114, 177, 249, 304, 340, 342, 429
	54, 77, 384, 387, 390, 398, 400	<b>T</b>	
<code>\pec@end</code> . . . . .	423, 437, 439, 447	<code>\the</code> . . . . .	50, 177, 218, 237, 437, 447
<code>\pec@getmark</code> . . . . .	53, 77, 394, 402	<code>\thepage</code> . . . . .	114, 177, 249, 304
<code>\pec@mark</code> . . . . .	41, 50	<b>U</b>	
<code>\pec@marks</code> . . . . .	75, 76, 77	<code>\unvbox</code> . . . . .	391
<code>\pec@org@makeslide</code> . . . .	414, 415, 418	<b>V</b>	
<code>\pec@output</code> . . . . .	423, 436, 439, 446	<code>\vbox</code> . . . . .	123, 187, 313, 389
<code>\pec@PatchAddMarginpar</code> . . . .	347, 366	<code>\vrule</code> . . . . .	142, 207, 279, 332
<code>\pec@PatchAddMarginparI</code> . . .	348, 350	<code>\vskip</code> . . . .	124, 188, 260, 261, 277, 314
<code>\pec@PatchAlreadyInBox</code> . . . . .	397	<b>X</b>	
<code>\pec@PatchVBoxCCLV</code> . . . .	386, 407, 417, 442	<code>\x</code> . . . . .	425, 427
<code>\pec@result</code> . . . . .	80, 82, 338	<b>Z</b>	
<code>\pec@setmark</code> . . . . .	45, 47, 76, 372, 380	<code>\z@</code> . . . . .	80, 109, 113, 116,
<code>\pec@temp</code> . . . . .	81, 145, 210, 282, 335		127, 128, 132, 142, 169, 175,
<code>\pec@value</code> . . . . .	42, 44, 49		180, 191, 192, 196, 207, 240,
<code>\protected@xdef</code> . . . . .	44		248, 251, 258, 259, 263, 279,
<code>\ProvidesPackage</code> . . . . .	3		297, 303, 306, 316, 317, 321, 332
<b>R</b>			
<code>\RequirePackage</code> . . . . .	74		
<code>\reset@color</code> . . . . .	374, 376		