

The pagecolor package

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Abstract

This L^AT_EX package provides the command `\thepagecolor`, which gives the current page (background) colour, i. e. the argument used with the most recent call of `\pagecolor{...}`. The command `\thepagecolornone` gives the same colour as `\thepagecolor`, except when the page background colour is “none”. In that case `\thepagecolor` is `white` and `\thepagecolornone` is `none`.

Similar to `\newgeometry` and `\restoregeometry` of the `geometry` package `\newpagecolor{<some colour >}` and `\restorepagecolor` are provided.

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Save per page about 200ml water, 2 g CO₂ and 2 g wood:
Therefore please print only if this is really necessary.

Contents

1	Introduction	2
2	Usage	3
2.1	Option	3
2.1.1	pagecolor	3
3	Alternatives	3
4	Example	4
5	The implementation	6
6	Installation	9
6.1	Downloads	9
6.2	Package, unpacking TDS	10
6.3	Refresh file name databases	11
6.4	Some details for the interested	11
6.5	Compiling the example	11
7	Acknowledgements	12
8	History	12
[2011/07/16 v1.0a]	. . . . .	12
[2011/08/06 v1.0b]	. . . . .	12
[2011/08/08 v1.0c]	. . . . .	12
[2012/02/01 v1.0d]	. . . . .	12
9	Index	13

1 Introduction

This L^AT_EX package provides the command `\thepagecolor`, which gives the current page (background) colour, i.e. the argument used with the most recent call of `\pagecolor{...}`. The package should be loaded before any package sets a page (background) colour, but after `color` or `xcolor` package. Its option `pagecolor={...}` is used to set the `\pagecolor{...}`.

The command `\thepagecolornone` gives the same colour as `\thepagecolor`, except when the page background colour is “none”(e.g. result of using the `\nopagecolor` command). In that case `\thepagecolor` is `white` and `\thepagecolornone` is `none`.

Similar to `\newgeometry` and `\restoregeometry` of the `geometry` package `\newpagecolor{<some colour>}` and `\restorepagecolor` are provided.

2 Usage

Just load the package placing

```
\usepackage[<option>]{pagecolor}
```

in the preamble of your L^AT_EX 2_ε source file. This should be done before another package uses `\pagecolor`, but after `\nopagecolor` is defined (if that is defined in the document at all).

Afterwards `\pagecolor{...}` can be used to change the page (background) colour as usual. Then `\thepagecolor` gives the current page (background) colour (in the same format as given with `\pagecolor{...}`).

Similar to `\newgeometry` and `\restoregeometry` of the `geometry` package

`\newpagecolor{<some colour >}` and `\restorepagecolor` are provided:

`\newpagecolor{<some colour >}` will execute `\pagecolor{<some colour >}` and remember the page colour used before. `\restorecolor` (without argument) restores the page colour to the one used before use of the `\newpagecolor{...}` command. When you want to change the colour for just one page and do not want to (or cannot) manually determine where the page ends,

```
\newpagecolor{<some colour>}\afterpage{\restorepagecolor}
```

does the trick (and requires a `\usepackage{afterpage}` in the document's preamble), or for short

```
\newcommand{\onepagecolor}[1]{%
```

```
\newpagecolor{#1}\afterpage{\restorepagecolor}}
```

in the preamble and

```
\onepagecolor{<some colour>} in the document.
```

2.1 Option

`option` The `pagecolor` package takes the following option:

2.1.1 `pagecolor`

`pagecolor` The option `pagecolor={...}` takes as value a colour. This could be as simple as `white` or `black`, but when e.g. the `xcolor` package is used (loaded before `pagecolor`!), also colours like `red!50!green!20!blue` are possible. The default is `pagecolor={none}`.

3 Alternatives

As I neither know what exactly you want to accomplish when using this package (e.g. hiding text), nor what resources you have (e.g. pdfT_EX version), here is a list of some possible alternatives:

`transparent` - `transparent` package: With it some object can be made (fully or partially) transparent.

`hrefhide` - `hrefhide` package: It allows to “hide” some (hyperlinked) text when printing the document while keeping the layout.

(You programmed or found another alternative, which is available at [CTAN](#):? OK, send an e-mail to me with the name, location at [CTAN](#):, and a short notice, and I will probably include it in the list above.)

About how to get those packages, please see subsection [6.1](#).

4 Example

```
1 (*example)
2 \documentclass[british]{article}[2007/10/19]% v1.4h
3 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
4 \usepackage[%
5   extension=pdf,%
6   plainpages=false,%
7   pdfpagelabels=true,%
8   hyperindex=false,%
9   pdflang={en},%
10  pdftitle={pagecolor package example},%
11  pdfauthor={H.-Martin Muench},%
12  pdfsubject={Example for the pagecolor package},%
13  pdfkeywords={LaTeX, pagecolor, thepagecolor, page colour,%
14    H.-Martin Muench},%
15  pdfview=Fit,pdfstartview=Fit,%
16  pdfpagelayout=SinglePage%
17 ]{hyperref}[2011/12/04]% v6.82m
18 \usepackage[x11names]{xcolor}[2007/01/21]% v2.11
19 % The xcolor package would not be needed for just using
20 % the base colours. The color package would be sufficient for that.
21 \usepackage[pagecolor={LightGoldenrod1}]{pagecolor}[2012/02/01]% v1.0d
22
23 \usepackage{afterpage}[1995/10/27]% v1.08
24 % The afterpage package is generally not needed,
25 % but the |\newpagecolor{somecolour}\afterpage{\restorepagecolor}|
26 % construct shall be demonstrated.
27
28 \usepackage{lipsum}[2011/04/14]% v1.2
29 % The lipsum package is generally not needed,
30 % but some blind text is needed for the example.
31
32 \gdef\unit#1{\mathord{\thinspace\mathrm{#1}}}%
33 \listfiles
34 \begin{document}
35 \pagenumbering{arabic}
36 \section*{Example for pagecolor}
37
38 This example demonstrates the use of package\newline
39 \textsf{pagecolor}, v1.0d as of 2012/02/01 (HMM).\newline
40 The used option was \verb|pagecolor={LightGoldenrod1}|.\newline
41 \verb|pagecolor={none}| would be the default.\newline
42
43 For more details please see the documentation!\newline
44
45 \noindent {\color{teal} Save per page about $200\unit{ml}$ water,\newline
46 $2\unit{g}$ CO$_2$ and $2\unit{g}$ wood:\newline
47 Therefore please print only if this is really necessary.}\newline
48
49 The current page (background) colour is\newline
50 \verb|\thepagecolor| = \thepagecolor \newline
51 (and \verb|\thepagecolornone| = \thepagecolornone ,\newline
52 which would only be different from \verb|\thepagecolor|,\newline
53 when the page colour would be \verb|none|).\newline
54
55 \pagebreak
56 \pagecolor{rgb:-green!40!yellow,3;green!40!yellow,2;red,1}
```

```

57
58 {\color{white} The current page (background) colour is\newline
59 \verb|\thepagecolor|\ =\ \thepagecolor . \newline}
60
61 {\color{\thepagecolor} And that makes this text practically invisible.
62 \newline}
63
64 {\color{white} Which made the preceding line of text practically
65 invisible.}
66
67 \pagebreak
68 \newpagecolor{red}
69
70 This page uses \verb|\newpagecolor{red}|.
71
72 \pagebreak
73 \restorepagecolor
74
75 {\color{white}And this page uses \verb|\restorepagecolor| to restore
76 the page colour to the value it had before the red page.}
77
78 \pagebreak
79 \pagecolor{none}
80
81 This page uses \verb|\pagecolor{none}|. If the \verb|\nopagecolor|
82 command is known (pdf\TeX and Lua\TeX; not yet for dvips, dvi2pdf(x)
83 or Xe\TeX), the page colour is now \verb|none|, otherwise \verb|white|:
84 \verb|\thepagecolor|\ =\ \thepagecolor\ and
85 \verb|\thepagecolornone|\ =\ \thepagecolornone .
86
87 \pagebreak
88 \restorepagecolor
89
90 {\color{white}\verb|\restorepagecolor| restored the page colour again.}
91
92 \pagebreak
93 \pagecolor{green}
94
95 This page is green due to \verb|\pagecolor{green}|.
96
97 \pagebreak
98 \newpagecolor{blue}\afterpage{\restorepagecolor}
99
100 {\color{white}\verb|\newpagecolor{blue}\afterpage{\restorepagecolor}|}%
101 \newline
102 was used here, i.\,e.\~this page is blue, and the next one will
103 automatically have the same page colour before it was changed to blue
104 here (i.\,e. green).}
105
106 \smallskip
107 {\color{red}\textbf{\lipsum[1-11]}}
108 \bigskip
109
110 The page colour was changed back at the end of the page -
111 in mid-sentence!
112
113 \end{document}
114 \end{example}

```

5 The implementation

We start off by checking that we are loading into L^AT_EX 2_ε and announcing the name and version of this package.

```
115 (*package)
116 \NeedsTeXFormat{LaTeX2e}[2011/06/27]
117 \ProvidesPackage{pagecolor}[2012/02/01 v1.0d
118         Provides thepagecolor (HMM)]
```

A short description of the pagecolor package:

```
119 %% Provides the \thepagecolor, \thepagecolornone, \newpagecolor{...},
120 %% and \restorepagecolor commands.
```

We need the kvoptions package by HEIKO OBERDIEK:

```
121 \RequirePackage{kvoptions}[2010/12/23]% v3.10
```

and either the color or the xcolor package:

```
122 %% \RequirePackage{ either color or xcolor }:
123 \@ifpackageloaded{color}{%
124     \RequirePackage{color}[2005/11/14]% v1.0j
125 }{% \else
126     \@ifpackageloaded{xcolor}{% OK
127     }{% \else
128         \PackageWarning{pagecolor}{%
129             The pagecolor package must be loaded after either\MessageBreak%
130             package color or after package xcolor (at your\MessageBreak%
131             option). Neither package was loaded before package\MessageBreak%
132             pagecolor. Loading of package xcolor will now be\MessageBreak%
133             tried automatically.\MessageBreak%
134             When the pagecolor package is used with option\MessageBreak%
135             pagecolor using a colour requiring e. g. x11names\MessageBreak%
136             option for xcolor package, this will not work!\MessageBreak%
137         }
138     }% \fi
139     \RequirePackage{xcolor}[2007/01/21]% v2.11
140 }% \fi
```

A last information for the user:

```
141 %% pagecolor may work with earlier versions of LaTeX and the
142 %% packages, but this was not tested. Please consider updating
143 %% your LaTeX and packages to the most recent version
144 %% (if they are not already the most recent version).
145
```

See subsection 6.1 about how to get them.

We process the options:

```
146 \SetupKeyvalOptions{family=pagecolor,prefix=pagecolor@}
147 \DeclareStringOption[none]{pagecolor}% \pagecolor@pagecolor
148 \ProcessKeyvalOptions*
149
```

We save the original \pagecolor command,

```
150 \let\origpagecolour\pagecolor
151
```

before we redefine it to include a definition of \thepagecolor and \thepagecolornone:

```

152 \renewcommand{\pagecolor}[1]{\@bsphack%
153   \edef\pagecolourtmpa{#1}%
154   \def\pagecolourtmpb{none}%
155   \ifx\pagecolourtmpa\pagecolourtmpb
156     \@ifundefined{nopagecolor}{%
157       \PackageError{pagecolor}{%
158         pagecolor=none requested but \string\nopagecolor\space unknown%
159       }{%
160         \string\pagecolor{none} was used, but the command %
161         \string\nopagecolor\space is undefined.\MessageBreak%
162         Please use another colour. pagecolor=white will be used now.%
163         \MessageBreak%
164       }%
165       \gdef\thepagecolor{white}%
166       \gdef\thepagecolornone{white}% although it should be "none"
167       \origpagecolour{white}%
168     }{%
169       \nopagecolor%
170     }%
171   \else%
172     \xdef\thepagecolor{#1}%
173     \xdef\thepagecolornone{#1}%
174     \origpagecolour{\thepagecolornone}%
175   \fi%
176   \@esphack%
177 }
178

```

`\nopagecolor` is only defined for pdfTeX and LuaTeX, but not yet for dvips, dvipdfm(x) or X_YTeX. Maybe

```

\@ifundefined{nopagecolor}{\newcommand{\nopagecolor}{\pagecolor{white}}}{\}

```

could be an alternative.

When `\pagecolor{none}` is used and `\nopagecolor` is defined, then

`\pagecolor{none}` is made into a synonym for `\nopagecolor`.

If `\nopagecolor` has not been defined, nothing needs to be done. Otherwise we redefine `\nopagecolor`, thus that `\thepagecolor` is set to `white` and `\thepagecolornone` to `none` whenever `\nopagecolor` is used.

```

179 \@ifundefined{nopagecolor}{%
180   \PackageWarning{pagecolor}{%
181     \string\nopagecolor\space is undefined.\MessageBreak%
182     (As long as it is neither used anywhere\MessageBreak%
183     \space nor defined later, that will be no problem.)\MessageBreak%
184   }
185   \AtEndDocument{%
186     \@ifundefined{nopagecolor}{% no problem
187       }{%
188         \PackageError{pagecolor}{%
189           \string\nopagecolor\space defined after loading package%
190           \MessageBreak%
191           pagecolor%
192         }{\string\nopagecolor\space was defined after loading the %
193           pagecolor package.\MessageBreak%
194           Either define \string\nopagecolor\space earlier or load the %
195           pagecolor package later.\MessageBreak%
196         }
197       }%

```

```

198 }%
199 {% \else
200   \let\orignopagecolour\nopagecolor
201   \renewcommand{\nopagecolor}{%
202     \xdef\thepagecolor{white}
203     \xdef\thepagecolornone{none}
204     \orignopagecolour
205   }
206 }
207

```

If the page colour as given with option `pagecolor={...}` is `none`, but `\nopagecolor` is not known, `\pagecolor@pagecolor` is set to `white` and a warning is given.

```

208 \def\pagecolourtmpb{none}
209 \ifx\pagecolor@pagecolor\pagecolourtmpb
210   \@ifundefined{nopagecolor}{%
211     \PackageWarning{pagecolor}{%
212       Option pagecolor=none (maybe by default) used,\MessageBreak%
213       but \string\nopagecolor\space is unknown. Please use another%
214       \MessageBreak%
215       option value; white will be used now.\MessageBreak%
216     }
217     \setkeys{pagecolor}{pagecolor=white}%
218   }{% ok
219   }%
220 \fi
221

```

The (new) `\pagecolor` is now just carried out.

```

222 \pagecolor{\pagecolor@pagecolor}
223

```

Now the page (background) colour and `\thepagecolor` and `\thepagecolornone` are `\pagecolor@pagecolor` (or page (background) colour and `\thepagecolornone` are `none=\pagecolor@pagecolor` and `\thepagecolor` is `white`), and when the page (background) colour is changed, `\thepagecolor` and `\thepagecolornone` are changed accordingly.

There have been requests (via e-mail and at <http://tex.stackexchange.com/q/25137>) to change the colour of just one (or two) page(s) only, similar to `\newgeometry` and `\restoregeometry` of the `geometry` package (<http://ctan.org/pkg/geometry>). Therefore `\newpagecolor` and `\restorepagecolor` are introduced (as suggested by HAOYUN-TEX):

```

224 \newcommand{\newpagecolor}[1]{%
225   \xdef\pagecolourtmpc{\thepagecolornone}%
226   \pagecolor{#1}%
227 }
228

```

`\newpagecolor{<some colour>}` will execute `\pagecolor{somecolour}` and remember the page colour used before.

```

229 \newcommand{\restorepagecolor}{\pagecolor{\pagecolourtmpc}}
230

```

`\restorecolor` (without argument) restores the page colour to the one used before use of the `\newpagecolor{...}` command.


```

231 \gdef\pagecolourtmpc{\thepagecolor}
232

```

is just a precaution for `\restorecolor` being used when no `\newpagecolor{...}` was used before it.

When you want to change the colour for just one page and do not want to (or cannot) manually determine where the page ends,

```

\newpagecolor{<some colour>}\afterpage{\restorepagecolor}

```

does the trick (and requires an additional `\usepackage{afterpage}` in the document's preamble).

```

233 \end{package}

```

6 Installation

6.1 Downloads

Everything is available on **CTAN**: <http://www.ctan.org/tex-archive/>, but may need additional packages themselves.

`pagecolor.dtx` For unpacking the `pagecolor.dtx` file and constructing the documentation it is required:

- T_EX Format L^AT_EX 2_ε, <http://www.CTAN.org/>
- document class `ltxdoc`, 2007/11/11, v2.0u, <http://ctan.org/pkg/ltxdoc>
- package `hltxdoc`, 2011/02/04, v0.21, <http://ctan.org/pkg/hltxdoc>

`pagecolor.sty` The `pagecolor.sty` for L^AT_EX 2_ε (i.e. each document using the `pagecolor` package) requires:

- T_EX Format L^AT_EX 2_ε, <http://www.CTAN.org/>
 - package `kvoptions`, 2010/12/23, v3.10, <http://ctan.org/pkg/kvoptions>
- and either
- package `color`, 2005/11/14, v1.0j, <http://ctan.org/pkg/color> (from the `graphics` package bundle)

or

- package `xcolor`, 2007/01/21, v2.11, <http://ctan.org/pkg/xcolor>

`pagecolor-example.tex` The `pagecolor-example.tex` requires the same files as all documents using the `pagecolor` package and additionally:

- class `article`, 2007/10/19, v1.4h, from `classes.dtx`:
[CTAN:macros/latex/base/classes.dtx](http://www.ctan.org/macros/latex/base/classes.dtx)
- package `pagecolor`, 2012/02/01, v1.0d, <http://ctan.org/pkg/pagecolor>
 (Well, it is the example file for this package, and because you are reading the documentation for the `pagecolor` package, it can be assumed that you already have some version of it – is it the current one?)
- package `xcolor`, 2007/01/21, v2.11, <http://ctan.org/pkg/xcolor>
 This package would not be needed for the use of just base colours only, the `color` package would be sufficient for that.

transparent As possible alternatives in section 3 there are listed

hrefhide - package transparent, 2007/01/08, v1.0,
<http://ctan.org/pkg/transparent>

- package hrefhide, 2011/04/29, v1.0f,
<http://ctan.org/pkg/hrefhide>

Oberdiek All packages of HEIKO OBERDIEK's bundle 'oberdiek' (especially holtxdoc and
holtxdoc kvoptions) are also available in a TDS compliant ZIP archive:
kvoptions [CTAN:install/macros/latex/contrib/oberdiek.tds.zip](http://ctan.org/install/macros/latex/contrib/oberdiek.tds.zip).
It is probably best to download and use this, because the packages in there are
quite probably both recent and compatible among themselves.

hyperref hyperref is not included in that bundle and needs to be downloaded separately,
<http://mirror.ctan.org/install/macros/latex/contrib/hyperref.tds.zip>.

Münch A hyperlinked list of my (other) packages can be found at <http://www.Uni-Bonn.de/~uzs5pv/LaTeX.html>.

6.2 Package, unpacking TDS

Package. This package is available on [CTAN](http://ctan.org):

[CTAN:macros/latex/contrib/pagecolor/pagecolor.dtx](http://ctan.org/macros/latex/contrib/pagecolor/pagecolor.dtx)

The source file.

[CTAN:macros/latex/contrib/pagecolor/pagecolor.pdf](http://ctan.org/macros/latex/contrib/pagecolor/pagecolor.pdf)

The documentation.

[CTAN:macros/latex/contrib/pagecolor/pagecolor-example.pdf](http://ctan.org/macros/latex/contrib/pagecolor/pagecolor-example.pdf)

The compiled example file, as it should look like.

[CTAN:macros/latex/contrib/pagecolor/README](http://ctan.org/macros/latex/contrib/pagecolor/README)

The README file.

There is also an undolabl.tds.zip available:

[CTAN:install/macros/latex/contrib/pagecolor.tds.zip](http://ctan.org/install/macros/latex/contrib/pagecolor.tds.zip)

Everything in TDS compliant, compiled format.

which additionally contains

pagecolor.ins	The installation file.
pagecolor.drv	The driver to generate the documentation.
pagecolor.sty	The .style file.
pagecolor-example.tex	The example file.

For required other packages, please see the preceding subsection.

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

```
tex pagecolor.dtx
```

About generating the documentation see paragraph 6.4 below.

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

```
pagecolor.sty      → tex/latex/pagecolor/pagecolor.sty
pagecolor.pdf      → doc/latex/pagecolor/pagecolor.pdf
pagecolor-example.tex → doc/latex/pagecolor/pagecolor-example.tex
pagecolor-example.pdf → doc/latex/pagecolor/pagecolor-example.pdf
pagecolor.dtx      → source/latex/pagecolor/pagecolor.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`.

6.3 Refresh file name databases

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

6.4 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{pagecolor.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 a configuration file `ltxdoc.cfg`. For instance, put the following 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 pagecolor.dtx
makeindex -s gind.ist pagecolor.idx
pdflatex pagecolor.dtx
makeindex -s gind.ist pagecolor.idx
pdflatex pagecolor.dtx
```

6.5 Compiling the example

The example file, `pagecolor-example.tex`, can be compiled via `(pdf)latex pagecolor-example.tex`.

7 Acknowledgements

I would like to thank HEIKO OBERDIEK for providing a lot (!) of useful packages (from which I also got everything I know about creating a file in `.dtx` format, ok, say it: copying), and the `news:comp.text.tex` and `news:de.comp.text.tex` newsgroups for their help in all things T_EX, especially all contributors to the discussion at http://groups.google.com/group/comp.text.tex/browse_thread/thread/533576ebe44d60f6/e1654d70a19de63c?lnk=gst&q=Determination+of+the+current+page+colour#e1654d70a19de63c (H. OBERDIEK & GOUAILLES). I thank HAOYUN_TEX for suggesting the `\newpagecolor`/`\restorepagecolor` pair of commands and everyone at <http://tex.stackexchange.com/q/25137> for their contributions there.

8 History

[2011/07/16 v1.0a]

- First version discussed at `news:comp.text.tex`.

[2011/08/06 v1.0b]

- Changed version uploaded to CTAN:.

[2011/08/08 v1.0c]

- Fixed a `\setkeys`.

[2012/02/01 v1.0d]

- Bugfix: Obsolete installation path given in the documentation, updated.
- New commands: `\newpagecolor{...}`, `\restorepagecolor`.
- Update of documentation, README, and `dtx` internals.

When you find a mistake or have a suggestion for an improvement of this package, please send an e-mail to the maintainer, thanks! (Please see BUG REPORTS in the README.)

9 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			
<code>\@bsphack</code>	.....	152	
<code>\@esphack</code>	.....	176	
A			
<code>\afterpage</code>	.....	25, 98, 100	
<code>\AtEndDocument</code>	.....	185	
H			
<code>\holtxdoc</code>	.....	10	
<code>\hrefhide</code>	.....	3, 10	
<code>\hyperref</code>	.....	10	
K			
<code>\kvoptions</code>	.....	10	
L			
<code>\lipsum</code>	.....	107	
M			
<code>\M{"{u}nch</code>	.....	10	
N			
<code>\newcommand</code>	.....	224, 229	
<code>\newpagecolor</code>		
	....	25, 68, 70, 98, 100, 119, 224	
<code>\nopagecolor</code>	....	81, 158, 161, 169,	
		181, 189, 192, 194, 200, 201, 213	
O			
<code>\Oberdiek</code>	.....	10	
<code>\option</code>	.....	3	
<code>\orignopagecolour</code>	.....	200, 204	
<code>\origpagecolour</code>	.....	150, 167, 174	
P			
<code>\PackageError</code>	.....	157, 188	
<code>\PackageWarning</code>	.....	128, 180, 211	
<code>\pagecolor</code>	.....	3, 56, 79, 81,	
		93, 95, 150, 152, 160, 222, 226, 229	
<code>\pagecolor-example.tex</code>	.....	9	
<code>\pagecolor.dtx</code>	.....	9	
<code>\pagecolor.sty</code>	.....	9	
<code>\pagecolor@pagecolor</code>	..	147, 209, 222	
<code>\pagecolourtmpa</code>	.....	153, 155	
<code>\pagecolourtmpb</code>	...	154, 155, 208, 209	
<code>\pagecolourtmpc</code>	.....	225, 229, 231	
R			
<code>\renewcommand</code>	.....	152, 201	
<code>\RequirePackage</code>	...	121, 122, 124, 139	
<code>\restorepagecolor</code>	.....	25,	
		73, 75, 88, 90, 98, 100, 120, 229	
S			
<code>\setkeys</code>	.....	217	
T			
<code>\thepagecolor</code>	.....	50, 52,	
		59, 61, 84, 119, 165, 172, 202, 231	
<code>\thepagecolornone</code>	.....	51,	
		85, 119, 166, 173, 174, 203, 225	
<code>\transparent</code>	.....	3, 10	
U			
<code>\unit</code>	.....	32, 45, 46	