

The pagecolor package

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2012/02/23 v1.0e

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 200 ml 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	10
6.1	Downloads	10
6.2	Package, unpacking TDS	11
6.3	Refresh file name databases	12
6.4	Some details for the interested	12
6.5	Compiling the example	12
7	Acknowledgements	12
8	History	13
[2011/07/16 v1.0a]	. . . . .	13
[2011/08/06 v1.0b]	. . . . .	13
[2011/08/08 v1.0c]	. . . . .	13
[2012/02/01 v1.0d]	. . . . .	13
[2012/02/23 v1.0e]	. . . . .	13
9	Index	14

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_εX 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. pdf_TE_X 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}[2012/02/06]% v6.82o
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}[2012/02/23]% v1.0e
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}, v1.0e as of 2012/02/23 (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}[2012/02/23 v1.0e
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{xcolor}{% xcolor loaded
124   \ifpackagelater{xcolor}{2007/01/21}{%
125     % 2007/01/21, v2.11, or even more recent: OK
126   }{% else: older package version
127     \PackageWarning{pagecolor}{%
128       It is requested version '2007/01/21' of package\MessageBreak%
129       xcolor, but only an older version is available.\MessageBreak%
130     }%
131   }%
132 }{% xcolor not loaded
133   \ifpackageloaded{color}{%
134     \RequirePackage{color}[2005/11/14]% v1.0j
135   }{% \else
136     \PackageWarning{pagecolor}{%
137       The pagecolor package must be loaded after either\MessageBreak%
138       package color or after package xcolor (at your\MessageBreak%
139       option). Neither package was loaded before package\MessageBreak%
140       pagecolor. Loading of package xcolor will now be\MessageBreak%
141       tried automatically.\MessageBreak%
142       When the pagecolor package is used with option\MessageBreak%
143       pagecolor using a colour requiring e. g. x11names\MessageBreak%
144       option for xcolor package, this will not work!\MessageBreak%
145     }
146   }% \fi
147   \RequirePackage{xcolor}[2007/01/21]% v2.11
148 }% \fi
```

A last information for the user:

```
149 %% pagecolor may work with earlier versions of LaTeX and the
150 %% packages, but this was not tested. Please consider updating
151 %% your LaTeX and packages to the most recent version
152 %% (if they are not already the most recent version).
153
```

See subsection 6.1 about how to get them.

We process the options:

```
154 \SetupKeyvalOptions{family=pagecolor,prefix=pagecolor@}
155 \DeclareStringOption[none]{pagecolor}% \pagecolor@pagecolor
156 \ProcessKeyvalOptions*
157
```

We save the original `\pagecolor` command,

```
158 \let\origpagecolour\pagecolor
159
```

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

```
160 \renewcommand{\pagecolor}[1]{\@bsphack%
161   \edef\pagecolourtmpa{#1}%
162   \def\pagecolourtmpb{none}%
163   \ifx\pagecolourtmpa\pagecolourtmpb
164     \@ifundefined{nopagecolor}{%
165       \PackageError{pagecolor}{%
166         pagecolor=none requested but \string\nopagecolor\space unknown%
167       }{%
168         \string\pagecolor{none} was used, but the command %
169         \string\nopagecolor\space is undefined.\MessageBreak%
170         Please use another colour. pagecolor=white will be used now.%
171         \MessageBreak%
172       }%
173       \gdef\thepagecolor{white}%
174       \gdef\thepagecolornone{white}% although it should be "none"
175       \origpagecolour{white}%
176     }{%
177       \nopagecolor%
178     }%
179   \else%
180     \xdef\thepagecolor{#1}%
181     \xdef\thepagecolornone{#1}%
182     \origpagecolour{\thepagecolornone}%
183   \fi%
184   \@esphack%
185 }
186
```

`\nopagecolor` is only defined for pdf \TeX and Lua \TeX , but not yet for dvips, dvipdfm(x) or X \TeX . 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.

```
187 \@ifundefined{nopagecolor}{%
188   \PackageWarning{pagecolor}{%
189     \string\nopagecolor\space is undefined.\MessageBreak%
190     (As long as it is neither used anywhere\MessageBreak%
191     \space nor defined later, that will be no problem.)\MessageBreak%
192   }
193   \AtEndDocument{%
194     \@ifundefined{nopagecolor}{% no problem
195       }{%
196         \PackageError{pagecolor}{%
197           \string\nopagecolor\space defined after loading package%
```

```

198     \MessageBreak%
199     pagecolor%
200   }{\string\nopagecolor\space was defined after loading the %
201     pagecolor package.\MessageBreak%
202     Either define \string\nopagecolor\space earlier or load the %
203     pagecolor package later.\MessageBreak%
204   }
205 }%
206 }%
207 }{% \else
208   \let\orignopagecolour\nopagecolor
209   \renewcommand{\nopagecolor}{%
210     \xdef\thepagecolor{white}
211     \xdef\thepagecolornone{none}
212     \orignopagecolour
213   }
214 }
215

```

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.

```

216 \def\pagecolourtmpb{none}
217 \ifx\pagecolor@pagecolor\pagecolourtmpb
218   \@ifundefined{nopagecolor}{%
219     \PackageWarning{pagecolor}{%
220       Option pagecolor=none (maybe by default) used,\MessageBreak%
221       but \string\nopagecolor\space is unknown. Please use another%
222       \MessageBreak%
223       option value; white will be used now.\MessageBreak%
224     }
225     \setkeys{pagecolor}{pagecolor=white}%
226   }{% ok
227   }%
228 \fi
229

```

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

```

230 \pagecolor{\pagecolor@pagecolor}
231

```

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.

`\newpagecolor` 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):

```
232 \newcommand{\newpagecolor}[1]{%
233 \xdef\pagecolourtmpc{\thepagecolornone}%
234 \pagecolor{#1}%
235 }
236
```

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

`\restorepagecolor`

```
237 \newcommand{\restorepagecolor}{\pagecolor{\pagecolourtmpc}}
238
```

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

```
239 \gdef\pagecolourtmpc{\thepagecolor}
240
```

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).

```
241 </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`, 2012/02/23, v1.0e, <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`

`hltxdoc`

`kvoptions`

All packages of HEIKO OBERDIEK's bundle 'oberdiek' (especially `hltxdoc` and `kvoptions`) are also available in a TDS compliant ZIP archive:

[CTAN:install/macros/latex/contrib/oberdiek.tds.zip](http://www.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**:

CTAN:macros/latex/contrib/pagecolor/pagecolor.dtx
The source file.

CTAN:macros/latex/contrib/pagecolor/pagecolor.pdf
The documentation.

CTAN:macros/latex/contrib/pagecolor/pagecolor-example.pdf
The compiled example file, as it should look like.

CTAN:macros/latex/contrib/pagecolor/README
The README file.

There is also a `pagecolor.tds.zip` available:

CTAN:install/macros/latex/contrib/pagecolor.tds.zip
Everything in TDS compliant, compiled format.

which additionally contains

<code>pagecolor.ins</code>	The installation file.
<code>pagecolor.drv</code>	The driver to generate the documentation.
<code>pagecolor.sty</code>	The <code>.sty</code> file.
<code>pagecolor-example.tex</code>	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):

<code>pagecolor.sty</code>	→ <code>tex/latex/pagecolor/pagecolor.sty</code>
<code>pagecolor.pdf</code>	→ <code>doc/latex/pagecolor/pagecolor.pdf</code>
<code>pagecolor-example.tex</code>	→ <code>doc/latex/pagecolor/pagecolor-example.tex</code>
<code>pagecolor-example.pdf</code>	→ <code>doc/latex/pagecolor/pagecolor-example.pdf</code>
<code>pagecolor.dtx</code>	→ <code>source/latex/pagecolor/pagecolor.dtx</code>

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 \TeX , 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.

[2012/02/23 v1.0e]

- Fixed an error in the documentation.
- Check for loading of `color` or `xcolor` package and their versions has been changed, because `xcolor` sets `\@namedef{ver@color.sty}{1999/02/16}` which gave a warning about old `color` package even if a new version was used.

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>	.....	160	
<code>\@esphack</code>	.....	184	
<code>\@ifpackagelater</code>	.....	124	
	A		
<code>\afterpage</code>	.....	25, 98, 100	
<code>\AtEndDocument</code>	.....	193	
	H		
<code>\holtxdoc</code>	.....	10	
<code>\hrefhide</code>	.....	3, 10	
<code>\hyperref</code>	.....	11	
	K		
<code>\kvoptions</code>	.....	10	
	L		
<code>\lipsum</code>	.....	107	
	M		
<code>\M{"u}nch</code>	.....	11	
	N		
<code>\newcommand</code>	.....	232, 237	
<code>\newpagecolor</code>		
	.....	25, 68, 70, 98, 100, 119, <u>232</u>	
<code>\nopagecolor</code>	....	81, 166, 169, 177,	
		189, 197, 200, 202, 208, 209, 221	
	O		
<code>\Oberdiek</code>	.....	10	
<code>\option</code>	.....	3	
<code>\orignopagecolour</code>	.....	208, 212	
			<code>\origpagecolour</code> 158, 175, 182
	P		
			<code>\PackageError</code> 165, 196
			<code>\PackageWarning</code> ... 127, 136, 188, 219
			<code>\pagecolor</code> 3, 56, 79,
			81, 93, 95, 158, <u>160</u> , 230, 234, 237
			<code>\pagecolor-example.tex</code> 10
			<code>\pagecolor.dtx</code> 10
			<code>\pagecolor.sty</code> 10
			<code>\pagecolor@pagecolor</code> .. 155, 217, 230
			<code>\pagecolourtmpa</code> 161, 163
			<code>\pagecolourtmpb</code> ... 162, 163, 216, 217
			<code>\pagecolourtmpc</code> 233, 237, 239
	R		
			<code>\renewcommand</code> 160, 209
			<code>\RequirePackage</code> ... 121, 122, 134, 147
			<code>\restorepagecolor</code> 25,
			73, 75, 88, 90, 98, 100, 120, <u>237</u>
	S		
			<code>\setkeys</code> 225
	T		
			<code>\thepagecolor</code> 50, 52,
			59, 61, 84, 119, 173, 180, 210, 239
			<code>\thepagecolornone</code> 51,
			85, 119, 174, 181, 182, 211, 233
			<code>\transparent</code> 3, 10
	U		
			<code>\unit</code> 32, 45, 46