The **pagecolor** package

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2017/05/29 v1.0i

Abstract

This LaTeX 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`.

When `\nopagecolor` is unknown (e. g. XƎLaTeX) or broken (`crop` package) this package provides a replacement. 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 CO_2 and 2 g wood:
Therefore please print only if this is really necessary.

Contents

1 Introduction

This LaTeX 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 xcolor or color package. Its option `pagecolor={...}` is used to set the initial `\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`. When `\nopagecolor` is unknown (e.g. XƎLATEX) or broken (crop package) this package provides a replacement depending on option `nopagecolor`. Similar to `\newgeometry` and `\restoregeometry` of the geometry package `\newpagecolor{<some colour>}` and `\restorepagecolor` are provided.

2 Usage

Just load the package placing

$$\usepackage[<options>]{pagecolor}$$

in the preamble of your LATEX 2$_\varepsilon$ source file. This should be done before another package uses \pagecolor. 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 Options

options   The pagecolor package takes the following options:

2.1.1 pagecolor

pagecolor   The option pagecolor={...} takes as value a colour. This could be as simple as black or white, 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}. A \pagecolor{...} command with the given colour is used to initialise the pagecolour.

2.1.2 nopagecolor

nopagecolor   The option nopagecolor={...} 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 nopagecolor={none}. When \nopagecolor is unknown (e. g. X$_{\overline{\textrm{E}}}$LATEX) or broken (crop package) \nopagecolor is replaced by a \pagecolor command using the colour defined with the nopagecolor option. If \nopagecolor is not available and nopagecolor is none, it is used white instead of 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. pdfTeX version), here is a list of possible alternatives:

- **transparent** package: With it some object can be made (fully or partially) transparent, https://www.ctan.org/pkg/transparent.

- **hrefhide** package: It allows to "hide" some (hyperlinked) text when printing the document while keeping the layout, https://www.ctan.org/pkg/hrefhide.

You programmed or found another alternative, which is available at https://www.CTAN.org/? 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.

4 Example

```
 1 ⟨*example⟩
 2 \documentclass[british]{article}[2014/09/29]% 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}[2012/11/06]% v6.83m
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 \definecolor{darkgreen}{rgb}{0.0, 0.3, 0.0}%
22 \usepackage[pagecolor={LightGoldenrod1},%
23   nopagecolor={none}]{pagecolor}[2017/05/29]% v1.0i
24
25 \usepackage{afterpage}[2014/10/28]% v1.08
26 % The afterpage package is generally not needed,
27 % but the |\newpagecolor{somecolour}\afterpage{\restorepagecolor}|
28 % construct shall be demonstrated.
29
30 \usepackage{lipsum}[2014/07/27]% v1.3
31 % The lipsum package is generally not needed,
32 % but some blind text is needed for the example.
33
34 \usepackage{hologo}[2012/04/26]% v1.10
35 % The hologo package is only needed to write
36 % \hologo{pdfTeX}, \hologo{LuaTeX}, and \hologo{XeTeX}.
37
38 \gdef\unit#1{\mathord{\thinspace\mathrm{#1}}}%
39 \listfiles%
40 \begin{document}
41 \pagenumbering{arabic}
42 \section*{Example for pagecolor}
43
44 This example demonstrates the use of package\newline
45 \textsf{pagecolor}, v1.0i as of 2017/05/29 (HMM).\newline
46 The used options were\newline
47 \verb|pagecolor={LightGoldenrod1}| (\verb|pagecolor={none}|
48 would be the default), and
49 \verb|pagecolor={none}| (which is the default).\newline
50
51 \noindent For more details please see the documentation!\newline
52
53 \noindent {\color{darkgreen} Save per page about $200\unit{ml}$ water,
54 $2\unit{g}$ CO$_{2}$ and $2\unit{g}$ wood:\newline
55 Therefore please print only if this is really necessary.}\newline
56
```

```
57 \noindent The current page (background) colour is\newline
58 \verb|\thepagecolor|\ =\ \thepagecolor \newline
59 (and \verb|\thepagecolornone|\ =\ \thepagecolornone ,
60 which would only be different from \verb|\thepagecolor|,
61 when the page colour would be \verb|none|).
62
63 \pagebreak
64 \pagecolor{rgb:-green!40!yellow,3;green!40!yellow,2;red,1}
65
66 {\color{white} The current page (background) colour is\newline
67 \verb|\thepagecolor|\ =\ \thepagecolor . \newline}
68
69 {\color{\thepagecolor} And that makes this text practically invisible.
70 \newline}
71
72 {\color{white} Which made the preceding line of text practically
73 invisible.}
74
75 \pagebreak
76 \newpagecolor{red}
77
78 This page uses \verb|\newpagecolor{red}|.
79
80 \pagebreak
81 \restorepagecolor
82
83 {\color{white}And this page uses \verb|\restorepagecolor| to restore
84 the page colour to the value it had before the red page.}
85
86 \pagebreak
87 \pagecolor{none}
88
89 This page uses \verb|\pagecolor{none}|. If the \verb|\nopagecolor|
90 command is known (\hologo{pdfTeX} and \hologo{LuaTeX}; not yet for
91 dvips, dvipdfm(x) or \hologo{XeTeX}), the page colour is now
92 \verb|none| (because option \verb|nopagecolor={none}|), otherwise
93 \verb|white| (or the colour given with option \verb|nopagecolor={...}|):
94 \verb|\thepagecolor|\ =\ \thepagecolor\ and
95 \verb|\thepagecolornone|\ =\ \thepagecolornone .
96
97 \pagebreak
98 \restorepagecolor
99
100 {\color{white}\verb|\restorepagecolor| restored the page colour again.}
101
102 \pagebreak
103 \pagecolor{green}
104
105 This page is green due to \verb|\pagecolor{green}|.
106
107 \pagebreak
108 \newpagecolor{blue}\afterpage{\restorepagecolor}
109
110 {\color{white}\verb|\newpagecolor{blue}\afterpage{\restorepagecolor}|%
111 \newline
112 was used here, i.\,e.~this page is blue, and the next one will
113 automatically have the same page colour before it was changed to blue
114 here (i.\,e. green).}
```

```
115
116 \smallskip
117 {\color{red}\textbf{\lipsum[1-11]}}
118 \bigskip
119
120 The page colour was changed back at the end of the page -
121 in mid-sentence!
122
123 \end{document}
124 ⟨/example⟩
```

5   The implementation

We start off by checking that we are loading into LaTeX 2ε and announcing the name and version of this package.

```
125 ⟨*package⟩
```

```
126 \NeedsTeXFormat{LaTeX2e}[2014/05/01]
127 \ProvidesPackage{pagecolor}[2017/05/29 v1.0i
128           Provides thepagecolor (HMM)]
```

A short description of the pagecolor package:

```
129 %% Provides the \thepagecolor, \thepagecolornone, \newpagecolor{...},
130 %% and \restorepagecolor commands and the a replacement for the
131 %% \nopagecolor command, if it is not available.
```

We need the kvoptions package by HEIKO OBERDIEK:

```
132 \RequirePackage{kvoptions}[2011/06/30]% v3.11
```

and either the color or the xcolor package:

```
133 %% \RequirePackage{ either color or xcolor }:
134 \@ifpackageloaded{xcolor}{% xcolor loaded
135   \@ifpackagelater{xcolor}{2007/01/21}{%
136      % 2007/01/21, v2.11, or even more recent: OK
137    }{% else: older package version
138      \PackageWarning{pagecolor}{%
139        It is requested version '2007/01/21' of package\MessageBreak%
140        xcolor, but only an older version is available\MessageBreak%
141       }%
142     }%
143 }{% xcolor not loaded
144   \@ifpackageloaded{color}{%
145      \RequirePackage{color}[2014/10/28]% v1.1a
146    }{% \else
147      \PackageWarning{pagecolor}{%
148        The pagecolor package must be loaded after either\MessageBreak%
149        package color or after package xcolor (at your\MessageBreak%
150        option). Neither package was loaded before package\MessageBreak%
151        pagecolor. Loading of package xcolor will now be\MessageBreak%
152        tried automatically.\MessageBreak%
153        When the pagecolor package is used with option\MessageBreak%
154        pagecolor using a colour requiring e. g. x11names\MessageBreak%
155        option for xcolor package, this will not work!\MessageBreak%
156      }
157    }% \fi
158   \RequirePackage{xcolor}[2007/01/21]% v2.11
159  }% \fi
```

as well as the ifpdf and the ifluatex package, because only pdfTEX and LuaTEX provide the \nopagecolor command:

```
160 \RequirePackage{ifpdf}[2011/01/30]%    v2.3
161 \RequirePackage{ifluatex}[2010/03/01]% v1.3
```

A last information for the user:

```
162 %% pagecolor may work with earlier versions of LaTeX and the
163 %% packages, but this was not tested. Please consider updating
164 %% your LaTeX and packages to the most recent version
165 %% (if they are not already the most recent version).
166
```

See subsection about how to get them.

We process the options:

```
167 \SetupKeyvalOptions{family=pagecolor,prefix=pagecolor@}
168 \DeclareStringOption[none]{pagecolor}%   \pagecolor@pagecolor
169 \DeclareStringOption[none]{nopagecolor}% \pagecolor@nopagecolor
170 \ProcessKeyvalOptions*
171
```

\nopagecolor

```
172 %% \nopagecolor is only available for pdf(La)TeX and Lua(La)TeX
173 %% but not for dvips, dvipdfm(x), Xe(La)TeX,...
```

therefore `pagecolor` and/or `nopagecolor` can only be `none`, if either pdfTeX or LuaTeX is used; otherwise `white` is fine or another colour (other colours) requested by the user with the two options.

```
174 \def\pagecolourtmpa{0}
175 \ifluatex\def\pagecolourtmpa{1}\fi
176 \ifpdf\def\pagecolourtmpa{1}\fi
177 \def\pagecolourtmpb{1}
178 \ifx\pagecolourtmpa\pagecolourtmpb\relax%
179 \else%
180   \PackageInfo{pagecolor}{\string\nopagecolor\space is undefined}%
181   \def\pagecolourtmpb{none}%
182   \edef\pagecolourtmpa{\pagecolor@nopagecolor}%
183   \ifx\pagecolourtmpa\pagecolourtmpb%
184     \PackageWarning{pagecolor}{%
185       Option nopagecolor=none requested but \string\nopagecolor\space%
186       unknown:\MessageBreak%
187       By option nopagecolor the "colour" to be used with%
188       \string\nopagecolor\MessageBreak%
189       is set. The current value is "none" (maybe by default),%
190       \MessageBreak%
191       but command \string\nopagecolor\space is undefined.\MessageBreak%
192       Therefore the colour cannot be "none".\MessageBreak%
193       Please change the option accordingly!\MessageBreak%
194       As first aid nopagecolor is now set to white\MessageBreak%
195     }%
196     \setkeys{pagecolor}{nopagecolor=white}%
197   \fi%
198   \edef\pagecolourtmpa{\pagecolor@pagecolor}%
199   \ifx\pagecolourtmpa\pagecolourtmpb%
200     \PackageWarning{pagecolor}{%
201       Option pagecolor=none (maybe by default) used,\MessageBreak%
202       but \string\nopagecolor\space is unknown.\MessageBreak%
203       Please use anotheroption value;\MessageBreak%
204       \pagecolor@nopagecolor\space\MessageBreak%
205       will be used now\MessageBreak%
206     }%
207     \setkeys{pagecolor}{pagecolor={\pagecolor@nopagecolor}}%
208   \fi%
209   \@ifundefined{nopagecolor}{%
210     \newcommand{\nopagecolor}{\pagecolor{\pagecolor@nopagecolor}}%
211   }{\renewcommand{\nopagecolor}{\pagecolor{\pagecolor@nopagecolor}}%
212   }%
213 \fi%
214
215
```

\pagecolor We save the original `\pagecolor` command,

```
216 \let\origpagecolour\pagecolor
217
```

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

```
218 \renewcommand{\pagecolor}[1]{\@bsphack%
219   \edef\pagecolourtmpa{#1}%
220   \def\pagecolourtmpb{none}%
221   \ifx\pagecolourtmpa\pagecolourtmpb\relax%
222     \@ifundefined{nopagecolor}{%
223       \PackageWarning{pagecolor}{%
224         pagecolor=none requested but \string\nopagecolor\space%
225         unknown:\MessageBreak%
226         \string\pagecolor{none} was used, but the command\MessageBreak%
227         \string\nopagecolor\space is undefined.\MessageBreak%
228         Please use another colour.\MessageBreak%
229         pagecolor=\pagecolor@nopagecolor \MessageBreak%
230         will be used now\MessageBreak%
231        }%
232       \xdef\thepagecolor{\pagecolor@nopagecolor}%
233       \xdef\thepagecolornone{\pagecolor@nopagecolor}%
234                 % although it should be "none"
235       \origpagecolour{\pagecolor@nopagecolor}%
236     }{\nopagecolor%
237     }%
238   \else%
239     \xdef\thepagecolor{#1}%
240     \xdef\thepagecolornone{#1}%
241     \origpagecolour{\thepagecolornone}%
242   \fi%
243   \@esphack%
244 }
245
```

`\nopagecolor` is only defined for pdfTeX and LuaTeX, but not for dvips, dvipdfm(x) or X‑TeX. (We defined a replacement, see page 9.) But additionally `\nopagecolor` does not work if the crop package is used. A workaround needs to be defined:

```
246 \let\orignopagecolour\nopagecolor\relax%
247
248 \gdef\pagecolor@cl{0}%
249 \@ifpackageloaded{crop}{% crop loaded
250   \gdef\pagecolor@cl{1}%
251 \@ifpackagelater{crop}{2003/05/21}{%
252     % later than 2003/05/20 v1.9 might be OK
253     \PackageWarning{pagecolor}{%
254       \string\nopagecolor\space did not work with package%
255       \MessageBreak%
256       crop 2003/05/20 v1.9. A newer version is used, \MessageBreak%
257       which the pagecolor package does not know how to handle.%
258       \MessageBreak%
259       Please contact the maintainer of the pagecolor package!%
260       \MessageBreak%
261       }%
```

```
262       % Let us just hope everything got fixed:
263       \renewcommand{\nopagecolor}{%
264         \xdef\thepagecolor{white}%
265         \xdef\thepagecolornone{none}%
266         \orignopagecolour%
267         % That will not have any effect except when things got fixed!
268         }%
269     }{% else: older package version
270       \PackageWarning{pagecolor}{%
271         \string\nopagecolor\space does not work with\MessageBreak%
272         the used crop package. Using\MessageBreak%
273         \pagecolor@nopagecolor\MessageBreak%
274         as nopagecolor now\MessageBreak%
275         }%
276       \def\pagecolourtmpb{none}%
277       \edef\pagecolourtmpa{\pagecolor@nopagecolor}%
278       \ifx\pagecolourtmpa\pagecolourtmpb%
279         \PackageWarning{pagecolor}{%
280           Option nopagecolor=none requested \MessageBreak%
281           but this does not work with the crop package.\MessageBreak%
282           By option nopagecolor the "colour" to be used with %
283           \string\nopagecolor\MessageBreak%
284           is set. The current value is "none" (maybe by default),%
285           \MessageBreak%
286           but the crop package broke \string\nopagecolor .%
287           \MessageBreak%
288           Therefore the colour cannot be "none".\MessageBreak%
289           Please change the option accordingly!\MessageBreak%
290           As first aid nopagecolor is now set to white\MessageBreak%
291           }%
292         \setkeys{pagecolor}{nopagecolor=white}%
293       \fi%
294       \renewcommand{\nopagecolor}{\pagecolor{\pagecolor@nopagecolor}}%
295     }%
296 }{% crop not loaded
297   \def\pagecolourtmpa{0}%
298   \ifluatex\def\pagecolourtmpa{1}\fi%
299   \ifpdf\def\pagecolourtmpa{1}\fi%
300   \def\pagecolourtmpb{1}%
301   \ifx\pagecolourtmpa\pagecolourtmpb\relax%
302     \gdef\pagecolourtmpa{none}%
303   \else%
304     \gdef\pagecolourtmpa{\pagecolor@nopagecolor}%
305   \fi%
306   \renewcommand{\nopagecolor}{%
307     \xdef\thepagecolor{white}%
308     \xdef\thepagecolornone{\pagecolourtmpa}%
309     \orignopagecolour%
310     }%
311 }
312
313
```

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

```
314 \pagecolor{\pagecolor@pagecolor}
315
```

Now the page (background) colour as well as `\thepagecolor` are `\pagecolor@pagecolor`. `\thepagecolornone` is `none`, if that colour is known, otherwise it is `\pagecolor@nopagecolor`, and if that was `none` (but that unknown), it is `white`. If `\pagecolor@pagecolor` was `none`, the page (background) colour is `none`, when known, otherwise `\pagecolor@nopagecolor`, and if that was `none` (but that unknown), it is `white`, and `\thepagecolor` is `\pagecolor@nopagecolor`, and if that was also `none` but `none` unknown, then it is `white`. When the page (background) colour is changed, `\thepagecolor` and `\thepagecolornone` are changed accordingly.

`\newpagecolor`   There have been requests (via e-mail and at
) to change the colour of just one (or two) page(s) only, similar to `\newgeometry` and `\restoregeometry` of the geometry package (https://www.ctan.org/pkg/geometry).
Therefore `\newpagecolor` and `\restorepagecolor` are introduced (as suggested by HAOYUN_TEX):

```
316 \newcommand{\newpagecolor}[1]{%
317 \xdef\pagecolourtmpc{\thepagecolornone}%
318 \pagecolor{#1}%
319 }
320
```

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

`\restorepagecolor`

```
321 \newcommand{\restorepagecolor}{\pagecolor{\pagecolourtmpc}}
322
```

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

```
323 \gdef\pagecolourtmpc{\thepagecolor}
324
```

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).

We checked whether the crop package had been loaded before the pagecolor package, but maybe it has been loaded afterwards. This is checked `\AtBeginDocument`:

```
325 \AtBeginDocument{%
326   \def\pagecolourtmpb{0}%
327   \ifx\pagecolor@cl\pagecolourtmpb\relax%
328     % crop not loaded before pagecolor, but maybe afterwards:
329     \@ifpackageloaded{crop}{% crop indeed loaded afterwards.
330       \gdef\pagecolor@cl{1}%
331       \@ifpackagelater{crop}{2003/05/21}{%
332         % later than 2003/05/20 v1.9 might be OK
333         \PackageWarning{pagecolor}{%
```

```
334          \string\nopagecolor\space did not work with package\MessageBreak%
335          crop 2003/05/20 v1.9. A newer version is used, \MessageBreak%
336          which the pagecolor package does not know how to handle.%
337          \MessageBreak%
338          Please contact the maintainer of the pagecolor package!%
339          \MessageBreak%
340          }%
341        % Let us just hope everything got fixed:
342        \renewcommand{\nopagecolor}{%
343          \xdef\thepagecolor{white}%
344          \xdef\thepagecolornone{none}%
345          \orignopagecolour%
346          % That will not have any effect except when things got fixed!
347          }%
348      }{% else: older package version
349        \PackageWarning{pagecolor}{%
350          \string\nopagecolor\space does not work with\MessageBreak%
351          the used crop package. Using\MessageBreak%
352          \pagecolor@nopagecolor\MessageBreak%
353          as nopagecolor now\MessageBreak%
354          }%
355        \def\pagecolourtmpb{none}%
356        \edef\pagecolourtmpa{\pagecolor@nopagecolor}%
357        \ifx\pagecolourtmpa\pagecolourtmpb%
358          \PackageWarning{pagecolor}{%
359            Option nopagecolor=none requested \MessageBreak%
360            but this does not work with the crop package.\MessageBreak%
361            By option nopagecolor the "colour" to be used with %
362            \string\nopagecolor\MessageBreak%
363            is set. The current value is "none" (maybe by default),%
364            \MessageBreak%
365            but the crop package broke \string\nopagecolor .\MessageBreak%
366            Therefore the colour cannot be "none".\MessageBreak%
367            Please change the option accordingly!\MessageBreak%
368            As first aid nopagecolor is now set to white\MessageBreak%
369            }%
370          \setkeys{pagecolor}{nopagecolor=white}%
371        \fi%
372        \renewcommand{\nopagecolor}{\pagecolor{\pagecolor@nopagecolor}}%
373        }%
374    }{% crop neither loaded afterwards.
375      }%
376  \fi%
377  }
378
379 %    \begin{macrocode}
380 ⟨/package⟩
```

6 Installation

6.1 Downloads

Everything is available at https://www.ctan.org, but may need additional packages themselves.

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

- TeXFormat LaTeX 2_ε: https://www.CTAN.org

- document class ltxdoc, 2015/03/26, v2.0w, https://www.ctan.org/pkg/ltxdoc

- package holtxdoc, 2012/03/21, v0.24, https://www.ctan.org/pkg/holtxdoc

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

- TeX Format LaTeX 2_ε, https://www.CTAN.org

- package kvoptions, 2011/06/30, v3.11, https://www.ctan.org/pkg/kvoptions

- package ifpdf, 2011/01/30, v2.3, https://www.ctan.org/pkg/ifpdf

- package ifluatex, 2010/03/01, v1.3, https://www.ctan.org/pkg/ifluatex

and either

- package xcolor, 2007/01/21, v2.11, https://www.ctan.org/pkg/xcolor

or

- package color, 2014/10/28, v1.1a, https://www.ctan.org/pkg/color (from the graphics package bundle).

pagecolor-example.tex   The `pagecolor-example.tex` requires the same file as all documents using the pagecolor package, i.e.

- package pagecolor, 2017/05/29, v1.0i, https://www.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?)

and additionally:

- class article, 2014/09/29, v1.4h, from classes:
    https://www.ctan.org/pkg/classes

- package xcolor, 2007/01/21, v2.11, https://www.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.

- package afterpage, 2014/10/28, v1.08, https://www.ctan.org/pkg/afterpage
    This package is only needed for demonstrating the
    `\newpagecolor{somecolour}\afterpage{\restorepagecolor}` construct.

- package lipsum, 2014/07/27, v1.3, https://www.ctan.org/pkg/lipsum
    This package is only needed for some blind text.

- package hologo, 2012/04/26, v1.10, https://www.ctan.org/pkg/hologo
    This package is only needed to write pdfTeX, LuaTeX, and X$\exists$TeX.

As possible alternatives in section 3, Alternatives, there are listed (newer versions might be available):

- package transparent, 2007/01/08, v1.0,
  https://www.ctan.org/pkg/transparent

- package hrefhide, 2011/04/29, v1.0h,
  https://www.ctan.org/pkg/hrefhide

All packages of HEIKO OBERDIEK's bundle 'oberdiek' (especially hologo, holtxdoc, and kvoptions) are also available in a TDS compliant ZIP archive: http://mirror.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 is not included in that bundle and needs to be downloaded separately, http://mirror.ctan.org/install/macros/latex/contrib/hyperref.tds.zip.

A hyperlinked list of my (other) packages can be found at https://www.ctan.org/author/muench-hm.

6.2 Package, unpacking TDS

Package. This package is available on https://www.CTAN.org.

http://mirror.ctan.org/macros/latex/contrib/pagecolor/pagecolor.dtx
    The source file.

http://mirror.ctan.org/macros/latex/contrib/pagecolor/pagecolor.pdf
    The documentation.

http://mirror.ctan.org/macros/latex/contrib/pagecolor/pagecolor-example.pdf
    The compiled example file, as it should look like.

http://mirror.ctan.org/macros/latex/contrib/pagecolor/README
    The README file.

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

http://mirror.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 (TeX Live, mikTeX, teTeX, . . .) relies on file name databases, you must refresh these. For example, teTeX users run `texhash` or `mktexlsr`.

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 pdfLaTeX:

```
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 https://groups.google.com/forum/#!topic/comp.text.tex/UzV26-RNYPY (H. Oberdiek & Gouailles).

I thank haoyun_tex for suggesting the \newpagecolor/\restorepagecolor pair of commands and everyone at https://tex.stackexchange.com/q/25137/6865 for their contributions there. Thanks go to Heiner Richter for finding a bug, to Johannes Böttcher for reporting it, and to Reuben Thomas for suggestions for improvements of this documentation.

8 History

[2011/07/16 v1.0a]

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

[2011/08/06 v1.0b]

- Changed version uploaded to the 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.

[2015/06/21 v1.0f]

- Fixed the urls in the documentation.

- Handle \nopagecolor when it is not defined or broken by crop, new option nopagecolor introduced.

- Update of documentation, README, and dtx internals.

[2015/06/22 v1.0g]

- Replaced all error messages by warnings.

[2015/08/30 v1.0h]

- Bugfix: Checking for crop package done \AtBeginDocument, but some of the related code must already be performed earlier. Bug found by Heiner Richter and reported by Johannes Böttcher, thanks!

[2017/05/29 v1.0i]

- Documentation update following suggestions for improvements by Reuben Thomas, thanks!

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.