

The pagecolor package

H.-Martin Münch
<Martin.Muench at Uni-Bonn.de>

2022-11-27 v1.2a

Abstract

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

When `\nopagecolor` is unknown or in case of the `crop` package broken, this package provides a replacement.

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

For use with the `crop` package `\backgroundpagecolor{<some color>}` as well as `\newbackgroundpagecolor{<some color>}` and `\restorebackgroundpagecolor` are provided.

Disclaimer for web links: The author is not responsible for any contents referred to in this work unless having full knowledge of illegal contents. If any damage occurs by the use of information presented there, only the author of the respective pages might be liable, not the one who has referred to these pages.

Contents

1	Introduction	2
2	Usage	2
2.1	Options	3
2.1.1	pagecolor	3
2.1.2	nopagecolor	3
3	Alternatives	3
4	Example	4
5	The implementation	6
6	Installation	11
6.1	Downloads	11
6.2	Package, unpacking TDS	12
6.3	Refresh file name databases	13
6.4	Some details for the interested	13
6.5	Compiling the example	13
7	Acknowledgements	14

8 History	14
[2011/07/16 v1.0a]	14
[2011/08/06 v1.0b]	14
[2011/08/08 v1.0c]	14
[2012/02/01 v1.0d]	14
[2012/02/23 v1.0e]	14
[2015/06/21 v1.0f]	14
[2015/06/22 v1.0g]	14
[2015/08/30 v1.0h]	15
[2017/05/29 v1.0i]	15
[2022-11-20 v1.1a]	15
[2022-11-27 v1.2a]	15
9 Index	16

1 Introduction

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

The command `\thepagecolornone` gives the same color as `\thepagecolor`, except when the page background color is “none” (e. g. result of using the `\nopagecolor` command). In that case `\thepagecolor` is white and `\thepagecolornone` is none. When `\nopagecolor` is unknown or in case of the `crop` package broken, this package provides a replacement depending on option `nopagecolor`. Commands to change the background/outer/physical page color when using `crop` are provided. Similar to `\newgeometry` and `\restoregeometry` of the `geometry` package `\newpagecolor{<some color>}` and `\restorepagecolor` are provided.

For use with the `crop` package `\backgroundpagecolor{<some color>}` as well as `\newbackgroundpagecolor{<some color>}` and `\restorebackgroundpagecolor` are provided.

2 Usage

Just load the package placing

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

in the preamble of your L^AT_EX 2_ε source file. This should be done before another package uses `\pagecolor`. Afterwards `\pagecolor{...}` can be used to change the page (background) color as usual. Then `\thepagecolor` gives the current page (background) color (in the same format as given with `\pagecolor{...}`).

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

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

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

```
\newpagecolor{<some color>}\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 color>}` in the document.
When the `crop` package is used, `\backgroundpagecolor{<some color>}` can be used to change the background/outer/physical page color and

```

\newbackgroundpagecolor{<some color>}%
\afterpage{\restorebackgroundpagecolor}%

```

for changing just one background/outer/physical page color.

2.1 Options

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

2.1.1 `pagecolor`

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

2.1.2 `nopagecolor`

`nopagecolor` The option `nopagecolor={...}` takes as value a color. This could be as simple as `white` or `black`, but when e.g. the `xcolor` package is used (loaded before `pagecolor!`), also colors like `red!50!green!20!blue` are possible. The default is `nopagecolor={none}`. When `\nopagecolor` is unknown or broken (e.g. `crop` package) `\nopagecolor` is replaced by a `\pagecolor` command using the color 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>.
- OCG (Optional Content Groups): It allows for example to “hide” something when printing the document while keeping the layout, <https://www.ctan.org/search?phrase=ocg>.

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 \NeedsTeXFormat{LaTeX2e}[2021-11-15]
3 \documentclass[british]{article}[2021/10/04]% v1.4n
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 color, page colour},%
14 pdfview=Fit,pdfstartview=Fit,%
15 pdfpagelayout=SinglePage%
16 ]{hyperref}[2022-02-21]% v7.00n
17
18 \usepackage[x11names]{xcolor}[2021/10/31]% v2.13
19 % The xcolor package would not be needed for just using the base colors.
20 % The color package would be sufficient for that.
21
22 % \usepackage[cam,center,a3]{crop}[2017/11/19]% 1.10
23
24 \usepackage[pagecolor={LightGoldenrod1},%
25 nopagecolor={none}]{pagecolor}[2022-11-27]% v1.2a
26
27 \usepackage{afterpage}[2014/10/28]% v1.08
28 % The afterpage package is generally not needed,
29 % but the |\newpagecolor{somecolor}\afterpage{\restorepagecolor}|
30 % construct shall be demonstrated.
31
32 \usepackage{lipsum}[2021-09-20]% v2.7
33 % The lipsum package is generally not needed,
34 % but some blind text is needed for the example.
35
36 \listfiles
37 \begin{document}
38 \pagenumbering{arabic}
39 \section*{Example for pagecolor}
40
41 This example demonstrates the use of package\newline
42 \textsf{pagecolor}, v1.2a as of 2022-11-27 (HMM).\newline
43 The used options were\newline
44 \verb|pagecolor={LightGoldenrod1}|\newline
45 (\verb|pagecolor={none}| would be the default), and\newline
46 \verb|nopagecolor={none}| (which is the default).
47
48 \noindent For more details please see the documentation!
49
50 \noindent The current page (background) color is\newline
51 \verb|\thepagecolor|\ =\ \thepagecolor \newline
52 (and \verb|\thepagecolornone|\ =\ \thepagecolornone ,
53 which would only be different from \verb|\thepagecolor|,
54 when the page color would be \verb|none|).
55
56 \pagebreak
57 \pagecolor{rgb:-green!40!yellow,3;green!40!yellow,2;red,1}
58
59 {\color{white} The current page (background) color is\newline
60 \verb|\thepagecolor|\ =\ \thepagecolor .}
61
```

```

62 {\color{\thepagecolor} And that makes this text practically invisible.}
63
64 {\color{white} Which made the preceding line of text practically
65 invisible, but it can be copied and pasted.}
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 color 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, the page color is now
83 \verb|none| (because option \verb|\nopagecolor={none}|), otherwise
84 \verb|white| (or the color given with option \verb|\nopagecolor={...}|):
85 \newline
86 \verb|\thepagecolor|\ =\ \thepagecolor\ and
87 \verb|\thepagecolornone|\ =\ \thepagecolornone .
88
89 \pagebreak
90 \restorepagecolor
91
92 {\color{white}\verb|\restorepagecolor| restored the page color again.}
93
94 \pagebreak
95 \pagecolor{green}
96
97 This page is green due to \verb|\pagecolor{green}|.
98
99 \pagebreak
100 \newpagecolor{blue}\afterpage{\restorepagecolor}
101
102 {\color{white}\verb|\newpagecolor{blue}\afterpage{\restorepagecolor}|}%
103 \newline
104 was used here, i.\,e.\~this page is blue, and the next one will
105 automatically have the same page color before it was changed to blue
106 here (i.\,e. green).}
107
108 \smallskip
109 {\color{red}\textbf{\lipsum[1-11]}}
110 \bigskip
111
112 The page color was changed back at the end of the page --
113 in mid-sentence!
114
115 \pagebreak
116
117 \backgroundpagecolor{pink}
118
119 When activating the loading of the crop package in the preamble of this
120 document, \verb|\backgroundpagecolor{<|\textit{some color}\verb|>}|
121 changes the color of the background/outer/physical page.
122
123

```

```

124 Analogous to \verb|\newpagecolor{...}| and \verb|\restorepagecolor|,
125 for the background/outer/physical page
126 \verb|\newbackgroundpagecolor{<|\textit{some color}\verb|>}| and\linebreak
127 \verb|\restorebackgroundpagecolor| are provided (but not demonstrated
128 here).
129 \end{document}
130 </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.

```

131 (*package)
132 \NeedsTeXFormat{LaTeX2e}[2021-11-15]
133 \ProvidesPackage{pagecolor}[2022-11-27 1.2a
134     Provides thepagecolor (HMM)]

```

A short description of the pagecolor package:

```

135 %% Provides the \thepagecolor, \thepagecolornone, \newpagecolor{...},
136 %% \restorepagecolor, \backgroundpagecolor, \newbackgroundpagecolor{...},
137 %% and \restorebackgroundpagecolor commands and a replacement for the
138 %% \nopagecolor command, if this is not available.

```

We want to wrap the messages nicely:

```

139 \RequirePackage{hardwrap}[2011/02/12]% v0.2
140 \GenerateLogMacros{package}{pagecolor}
141

```

We need the kvoptions package:

```

142 \RequirePackage{kvoptions}[2020-10-07]% v3.14

```

and either the color or the xcolor package:

```

143 %% \RequirePackage{ either color or xcolor }:
144 \IfPackageLoadedTF{xcolor}{% xcolor loaded
145     \RequirePackage{xcolor}[2021/10/31]% v2.13
146 }{% xcolor not loaded
147     \IfPackageLoadedTF{color}{%
148         \RequirePackage{color}[2021/12/07]% v1.3c
149     }{\pagecolor@warning@noline{%
150         The pagecolor package must be loaded after either %
151         package color or after package xcolor (at your %
152         option). Neither package was loaded before package %
153         pagecolor. Loading of package xcolor will now be %
154         tried automatically. \\%
155         When the pagecolor package is used with option %
156         pagecolor using a color requiring e.g. x11names %
157         option for xcolor package, this will not work!%
158     }
159 }
160 \RequirePackage{xcolor}[2021/10/31]% v2.13
161 }
162

```

We process the options:

```

163 \SetupKeyvalOptions{family=pagecolor,prefix=pagecolor@}
164 \DeclareStringOption[none]{pagecolor}% \pagecolor@pagecolor
165 \DeclareStringOption[none]{nopagecolor}% \pagecolor@nopagecolor
166 \ProcessKeyvalOptions*
167

```

`\nopagecolor` `\nopagecolor` is nowadays readily available. Let us test nevertheless:

```
168 \ifdefined\nopagecolor\relax
169 \else
170 \pagecolor@info@noline{\string\nopagecolor\ is undefined!}
171 \def\pagecolortmpb{none}
172 \edef\pagecolortmpa{\pagecolor@nopagecolor}
173 \ifx\pagecolortmpa\pagecolortmpb
174 \pagecolor@warning@noline{%
175 Option nopagecolor=none requested but \string\nopagecolor\ %
176 unknown: \\%
177 By option nopagecolor the "color" to be used with %
178 \string\nopagecolor\ %
179 is set. The current value is "none" (maybe by default), %
180 but command \string\nopagecolor\ is undefined. %
181 Therefore the color cannot be "none". %
182 Please change the option accordingly! - %
183 As first aid nopagecolor is now set to white.%
184 }
185 \setkeys{pagecolor}{nopagecolor=white}
186 \fi
187 \edef\pagecolortmpa{\pagecolor@pagecolor}
188 \ifx\pagecolortmpa\pagecolortmpb\relax
189 \pagecolor@warning@noline{%
190 Option pagecolor=none (maybe by default) used, %
191 but \string\nopagecolor\ is unknown. %
192 Please use another option value; %
193 \pagecolor@nopagecolor\ will be used now.%
194 }
195 \setkeys{pagecolor}{pagecolor={\pagecolor@nopagecolor}}
196 \fi
197 \newcommand{\nopagecolor}{\pagecolor{\pagecolor@nopagecolor}}
198 \fi
199
200
```

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

```
201 \let\origpagecolor\pagecolor
202
```

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

```
203 \renewcommand{\pagecolor}[1]{\@bsphack%
204 \edef\pagecolortmpa{#1}%
205 \def\pagecolortmpb{none}%
206 \ifx\pagecolortmpa\pagecolortmpb\relax%
207 \ifdefined\nopagecolor\relax%
208 \nopagecolor%
209 \else%
210 \pagecolor@warning{%
211 pagecolor=none requested but \string\nopagecolor\ %
212 unknown: \\%
213 \string\pagecolor{none} was used, but the command %
214 \string\nopagecolor\ is undefined. %
215 Please use another color. \\%
216 pagecolor=\pagecolor@nopagecolor\ \\%
217 will be used now.%
218 }%
219 \xdef\thepagecolor{\pagecolor@nopagecolor}%
220 \xdef\thepagecolornone{\pagecolor@nopagecolor}%
221 % although it should be "none"
222 \origpagecolor{\pagecolor@nopagecolor}%
223 \fi%
```

```

224 \else%
225   \xdef\thepagecolor{#1}%
226   \xdef\thepagecolornone{#1}%
227   \origpagecolor{\thepagecolornone}%
228 \fi%
229 \@esphack%
230 }
231

```

`\nopagecolor` regularly is defined. If it was not, we already defined a replacement, see page 7. But additionally `\nopagecolor` does not work if the `crop` package is used. A workaround needs to be defined:

```

232 \let\orignopagecolor\nopagecolor\relax
233
234 \gdef\pagecolor@cl{0}
235 \IfPackageLoadedTF{crop}{% crop loaded
236   \gdef\pagecolor@cl{1}
237   \pagecolor@info{\string\nopagecolor\space did not work with the crop package %
238     2017/11/19 v1.10. Using \\%
239     \pagecolor@nopagecolor\ \\%
240     as nopagecolor now.%
241   }
242   \def\pagecolortmpb{none}
243   \edef\pagecolortmpa{\pagecolor@nopagecolor}
244   \ifx\pagecolortmpa\pagecolortmpb\relax
245     \pagecolor@warning@noline{%
246       Option nopagecolor=none requested but this does not work with the %
247       crop package. By option nopagecolor the "color" to be used with %
248       \string\nopagecolor\ is set. The current value is "none" (maybe by %
249       default), but the crop package broke \string\nopagecolor . %
250       Therefore the color cannot be "none". %
251       Please change the option accordingly! %
252       As first aid nopagecolor is now set to white.%
253     }
254     \setkeys{pagecolor}{nopagecolor=white}
255   \fi
256   \renewcommand{\nopagecolor}{\pagecolor{\pagecolor@nopagecolor}}
257 }{% crop not loaded
258   \ifdefined\nopagecolor\relax
259     \gdef\pagecolortmpa{none}
260   \else
261     \gdef\pagecolortmpa{\pagecolor@nopagecolor}
262   \fi
263   \renewcommand{\nopagecolor}{%
264     \xdef\thepagecolor{white}%
265     \xdef\thepagecolornone{\pagecolortmpa}%
266     \orignopagecolor%
267   }
268 }
269
270

```

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

```

271 \pagecolor{\pagecolor@pagecolor}
272

```

Now the page (background) color as well as `\thepagecolor` are `\pagecolor@pagecolor`. `\thepagecolornone` is `none`, if that color 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) color 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) color is changed, `\thepagecolor` and `\thepagecolornone` are changed accordingly.

`\newpagecolor` There have been requests (via e-mail and at <https://tex.stackexchange.com/q/25137/6865>) to change the color 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`):

```
273 \newcommand{\newpagecolor}[1]{%
274 \xdef\pagecolortmpc{\thepagecolornone}%
275 \pagecolor{#1}%
276 }
277
```

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

`\restorepagecolor`

```
278 \newcommand{\restorepagecolor}{\pagecolor{\pagecolortmpc}}
279
```

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

```
280 \gdef\pagecolortmpc{\thepagecolor}
281
```

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

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

`\newpagecolor{<some color>}\afterpage{\restorepagecolor}` does the trick (and requires an additional `\usepackage{afterpage}` in the document's preamble).

`\backgroundpagecolor`

When the `crop` package has been loaded, the background/outer/physical page color is determined by the last `\pagecolor{...}` in the preamble after `\usepackage[...]{crop}` and cannot be changed in the document. When the `\pagecolor{...}` is given before `\usepackage[...]{crop}`, a `\nopagecolor` works at the background/outer/physical page and not at the inner/foreground/logic page. `\nopagecolor` is fixed above. To change the background/outer/physical page color during the document, `\backgroundpagecolor{<some color>}` is provided:

```
282 \newcommand{\backgroundpagecolor}[1]{%
283 \IfPackageLoadedTF{crop}{%
```

Remember current inner/foreground/logic page color:

```
284 \xdef\pagecolortmpd{\thepagecolor}%
```

Set inner/foreground page color to color wished for background/outer/physical page color:

```
285 \pagecolor{#1}%
```

Get that color, for example, `\pagecolor{blue}` might result in `\CROP@pagecolor` to be `0 0 1 rg 0 0 1 RG`:

```
286 \xdef\pagecolortmpe{\CROP@pagecolor}%
```

Set the inner/foreground/logic page color back to the color before changing it:

```
287 \pagecolor{\pagecolortmpd}%
```

Set the background/outer/physical page color:

```
288 \xdef\CROP@stockcolor{\pagecolortmpe}%
289 }{\pagecolor@info{\string\backgroundpagecolor\ does not do %
290 anything when the crop package has not been loaded.}%
- except giving this information.
291 }%
292 }
293
```

`\newbackgroundpagecolor` Analogous to `\newpagecolor` and `\restorepagecolor`, for the background/outer/physical page we define:

```
294 \newcommand{\newbackgroundpagecolor}[1]{%
295 \IfPackageLoadedTF{crop}{%
296 \xdef\pagecolortmpf{\CROP@stockcolor}%
297 \backgroundpagecolor{#1}%
298 }{\pagecolor@info{\string\newbackgroundpagecolor\ does not do %
299 anything when the crop package has not been loaded.}%
300 }%
301 }
302
```

`\newbackgroundpagecolor`

```
303 \newcommand{\restorebackgroundpagecolor}{%
304 \IfPackageLoadedTF{crop}{\xdef\CROP@stockcolor{\pagecolortmpf}}{%
305 \pagecolor@info{\string\newbackgroundpagecolor\ does not do %
306 anything when the crop package has not been loaded.}%
307 }
308
```

We checked whether the crop package had been loaded before the pagecolor package, but maybe it has been loaded afterwards. This is checked at the end of `\begin{document}`:

```
309 \AddToHook{begindocument/end}{%
310 \def\pagecolortmpb{0}%
311 \ifx\pagecolor@cl\pagecolortmpb\relax%
312 % crop not loaded before pagecolor, but maybe afterwards:
313 \IfPackageLoadedTF{crop}{% crop indeed loaded afterwards.
314 \gdef\pagecolor@cl{1}%
315 \pagecolor@info{\string\nopagecolor\space did not work with the crop package %
316 2017/11/19 v1.10. Using \\%
317 \pagecolor@nopagecolor\ \\%
318 as nopagecolor now.%
319 }%
320 \def\pagecolortmpb{none}%
321 \edef\pagecolortmpa{\pagecolor@nopagecolor}%
322 \ifx\pagecolortmpa\pagecolortmpb\relax%
323 \pagecolor@warning@noline{%
324 Option nopagecolor=none requested but this does not work with %
325 the crop package. By option nopagecolor the "color" to be used %
326 with \string\nopagecolor\ is set. The current value is "none" %
327 (maybe by default), but the crop package broke %
328 \string\nopagecolor . Therefore the color cannot be "none". %
329 Please change the option accordingly! %
330 As first aid nopagecolor is now set to white.%
331 }%
332 \setkeys{pagecolor}{nopagecolor=white}%
333 \fi%
334 \renewcommand{\nopagecolor}{\pagecolor{\pagecolor@nopagecolor}}%
335 }{% crop neither loaded afterwards.
336 }%
337 \fi%
```

338 }
339
340 </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:

- T_EX Format L^AT_EX 2_ε 2021-11-15 or newer: <https://www.CTAN.org>
- document class `ltxdoc`, 2020/12/05, v2.1b, <https://www.ctan.org/pkg/ltxdoc>
- package `holtxdoc`, 2019/12/09, v0.30, <https://www.ctan.org/pkg/holtxdoc>

`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 2021-11-15 or newer, <https://www.CTAN.org>
 - package `hardwrap`, 2011/02/12, v0.2, <https://www.ctan.org/pkg/hardwrap>
 - package `kvoptions`, 2020-10-07, v3.14, <https://www.ctan.org/pkg/kvoptions>
- and either

- package `xcolor`, 2021/10/31, v2.13, <https://www.ctan.org/pkg/xcolor>

or

- package `color`, 2021/12/07, v1.3c, <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`, 2022-11-27, v1.2a, <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`, 2021/10/04, v1.4n, from classes:
<https://www.ctan.org/pkg/classes>
- package `xcolor`, 2021/10/31, v2.13, <https://www.ctan.org/pkg/xcolor>
This package would not be needed for the use of just base colors 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{somecolor}\afterpage{\restorepagecolor}` construct.
- package `lipsum`, 2021-09-20, v2.7, <https://www.ctan.org/pkg/lipsum>
This package is only needed for some blind text.

- Alternatives transparent** As possible alternatives in section 3, Alternatives, there are listed (newer versions might be available):
- OCG**
- package transparent, 2022-10-27, v1.5,
<https://www.ctan.org/pkg/transparent>
 - OCG (Optional Content Groups),
<https://www.ctan.org/search?phrase=ocg>
- Oberdiek holtxdoc kvoptions** All packages of the ‘oberdiek’ bundle (especially holtxdoc and kvoptions) are also available in a TDS compliant ZIP archive:
<https://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** hyperref is not included in that bundle and needs to be downloaded separately,
<https://mirror.ctan.org/install/macros/latex/contrib/hyperref.tds.zip>.
- Münch** 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>.

<https://mirror.ctan.org/macros/latex/contrib/pagecolor/pagecolor.dtx>
The source file.

<https://mirror.ctan.org/macros/latex/contrib/pagecolor/pagecolor.pdf>
The documentation.

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

<https://mirror.ctan.org/macros/latex/contrib/pagecolor/README>
The README file.

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

<https://mirror.ctan.org/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):

```
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`, ...) relies on file name databases, you must refresh these. For example, `TEX Live` users run `texhash` or `mktextlsr`.

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/g/comp.text.tex/c/UzV26-RNYPY> (H. OBERDIEK & GOUAILLES).

I thank HAORYUN_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!
- This version has been archived at <https://web.archive.org/web/20220120221237/https://mirror.ctan.org/install/macros/latex/contrib/pagecolor.tds.zip>

[2022-11-20 v1.1a]

- Replaced all `colour` (with `u`) by `color` (without `u`).
- Converted to UTF-8.
- Updated to L^AT_EX format 2021-11-15.
- Corrected an error in the example.
- X_YL^AT_EX and others now do know `\nopagecolor`.
- Package `crop` has been updated, but `\nopagecolor` still applies to the physical background sheet instead of the logical foreground area.
- Now using the `hardwrap` package.

[2022-11-27 v1.2a]

- Now also handling the `background/outer/physical` page color, when the `crop` package is used.
- Documentation updates.

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.

A		P	
<code>\AddToHook</code>	..... 309	<code>\pagecolor</code>	..... <i>3</i> , 57, 79, 81, 95, 97, 197, <u>201</u> , 256, 271, 275, 278, 285, 287, 334
<code>\afterpage</code>	..... 29, 100, 102	<code>\pagecolor-example.tex</code>	..... 11
<code>\Alternatives</code>	..... 12	<code>\pagecolor.dtx</code>	..... 11
B		<code>\pagecolor.sty</code>	..... 11
<code>\backgroundpagecolor</code>	.....	<code>\pagecolor@cl</code>	..... 234, 236, 311, 314
.....	117, 120, 136, <u>282</u> , 297	<code>\pagecolor@nopagecolor</code>	.....
C		.....	165, 172, 193, 195, 197, 216, 219, 220, 222, 239, 243, 256, 261, 317, 321, 334
<code>\CROP@pagecolor</code>	..... 286	<code>\pagecolor@pagecolor</code>	.. 164, 187, 271
<code>\CROP@stockcolor</code>	..... 288, 296, 304	<code>\pagecolortmpa</code>	.....
D		.....	172, 173, 187, 188, 204, 206, 243, 244, 259, 261, 265, 321, 322
<code>\DeclareStringOption</code>	..... 164, 165	<code>\pagecolortmpb</code>	. 171, 173, 188, 205, 206, 242, 244, 310, 311, 320, 322
H		<code>\pagecolortmpc</code>	..... 274, 278, 280
<code>\holtxdoc</code>	..... 12	<code>\pagecolortmpd</code>	..... 284, 287
<code>\hyperref</code>	..... 12	<code>\pagecolortmpe</code>	..... 286, 288
K		<code>\pagecolortmpf</code>	..... 296, 304
<code>\kvoptions</code>	..... 12	<code>\ProcessKeyvalOptions</code>	..... 166
M		<code>\ProvidesPackage</code>	..... 133
<code>\M{"{u}nch</code>	..... 12	R	
N		<code>\renewcommand</code>	..... 203, 256, 263, 334
<code>\NeedsTeXFormat</code>	..... 2, 132	<code>\RequirePackage</code>	.....
<code>\newbackgroundpagecolor</code>	.....	.....	139, 142, 143, 145, 148, 160
.....	126, 136, <u>294</u> , <u>303</u>	<code>\restorebackgroundpagecolor</code>	.....
<code>\newpagecolor</code>	.....	.....	127, 137, 303
.....	29, 68, 70, 100, 102, 124, 135, <u>273</u>	<code>\restorepagecolor</code>	..... 29, 73, 75, 90, 92, 100, 102, 124, 136, <u>278</u>
<code>\nopagecolor</code>	<i>3</i> , 81, 138, <u>168</u> , 207, 208, 211, 214, 232, <u>237</u> , 248, 249, 256, 258, 263, 315, 326, 328, 334	S	
O		<code>\setkeys</code>	..... 185, 195, 254, 332
<code>\Oberdiek</code>	..... 12	<code>\SetupKeyvalOptions</code>	..... 163
<code>\OCG</code>	..... 12	T	
<code>\options</code>	..... <i>3</i>	<code>\thepagecolor</code>	..... 51, 53, 60, 62, 86, 135, 219, 225, 264, 280, 284
<code>\orignopagecolor</code>	..... 232, 266	<code>\thepagecolornone</code>	..... 52, 87, 135, 220, 226, 227, 265, 274
<code>\origpagecolor</code>	..... 201, 222, <u>227</u>	<code>\transparent</code>	..... 12