

The pagecolor package

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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.

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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	14
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]	15
	[2015/08/30 v1.0h]	15
	[2017/05/29 v1.0i]	15
	[2022-11-20 v1.1a]	15
	[2022-11-27 v1.2a]	15
	[2023-02-14 v1.2b]	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. There is no spe-
cial command \nbackgroundpagecolor, but \backgroundpagecolor{none} and
\backgroundpagecolor{white} can be used.
```

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}[2022-11-01]
3 \documentclass[british]{article}[2022/07/02]% v1.4n Standard LaTeX document class
4 \usepackage[extension=pdf,%
5 plainpages=false,%
6 pdfpagelabels=true,%
7 hyperindex=false,%
8 pdflang={en},%
9 pdftitle={pagecolor package example},%
10 pdfauthor={H.-Martin Muench},%
11 pdfsubject={Example for the pagecolor package},%
12 pdfkeywords={LaTeX, pagecolor, thepagecolor, page color, page colour},%
13 pdfview=Fit,pdfstartview=Fit,%
14 pdfpagelayout=SinglePage%
15 ]{hyperref}[2023-02-07]% v7.00v Hypertext links for LaTeX
16
17 \usepackage[x11names]{xcolor}[2022/06/12]% v2.14 LaTeX color extensions (UK)
18 % The xcolor package would not be needed for just using the base colors.
19 % The color package would be sufficient for that.
20
21 % \usepackage[cam,center,a3]{crop}[2017/11/19]% 1.10
22
23 \usepackage[pagecolor={LightGoldenrod1},%
24 nopagecolor={none}]{pagecolor}[2023-02-14]% v1.2b Provides thepagecolor (HMM)
25
26 \usepackage{afterpage}[2014/10/28]% v1.08 After-Page Package (DPC)
27 % The afterpage package is generally not needed,
28 % but the |\newpagecolor{somecolor}\afterpage{\restorepagecolor}|
29 % construct shall be demonstrated.
30
31 \usepackage{lipsum}[2021-09-20]% v2.7 150 paragraphs of Lorem Ipsum dummy text
32 % The lipsum package is generally not needed,
33 % but some blind text is needed for the example.
34
35 \listfiles
36 \begin{document}
37 \pagenumbering{arabic}
38 \section*{Example for pagecolor}
39
40 This example demonstrates the use of package\newline
41 \textsf{pagecolor}, v1.2b as of 2023-02-14 (HMM).\newline
42 The used options were\newline
43 \verb|pagecolor={LightGoldenrod1}|\newline
44 (\verb|pagecolor={none}| would be the default), and\newline
45 \verb|nopagecolor={none}| (which is the default).
46
47 \noindent For more details please see the documentation!
48
49 \noindent The current page (background) color is\newline
50 \verb|\thepagecolor| = \thepagecolor \newline
51 (and \verb|\thepagecolornone| = \thepagecolornone ,
52 which would only be different from \verb|\thepagecolor|,
53 when the page color would be \verb|none|).
54
55 \newpage
56 \pagecolor{rgb:-green!40!yellow,3;green!40!yellow,2;red,1}
57
58 {\color{white} The current page (background) color is\newline
59 \verb|\thepagecolor| = \thepagecolor .}
60
61 {\color{\thepagecolor} And that makes this text practically invisible.}
```

```

62
63 {\color{white} Which made the preceding line of text practically
64 invisible, but it can be copied and pasted.}
65
66 \newpage
67 \newpagecolor{red}
68
69 This page uses \verb|\newpagecolor{red}|.
70
71 \newpage
72 \restorepagecolor
73
74 {\color{white}And this page uses \verb|\restorepagecolor| to restore
75 the page color to the value it had before the red page.}
76
77 \newpage
78 \pagecolor{none}
79
80 This page uses \verb|\pagecolor{none}|. If the \verb|\nopagecolor|
81 command is known, the page color is now
82 \verb|none| (because option \verb|nopagecolor={none}|), otherwise
83 \verb|white| (or the color given with option \verb|nopagecolor={...}|):
84 \newline
85 \verb|\thepagecolor|\ =\ \thepagecolor\ and
86 \verb|\thepagecolornone|\ =\ \thepagecolornone .
87
88 \newpage
89 \restorepagecolor
90
91 {\color{white}\verb|\restorepagecolor| restored the page color again.}
92
93 \newpage
94 \pagecolor{green}
95
96 This page is green due to \verb|\pagecolor{green}|.
97
98 \newpage
99 \newpagecolor{blue}\afterpage{\restorepagecolor}
100
101 {\color{white}\verb|\newpagecolor{blue}\afterpage{\restorepagecolor}|\%
102 \newline
103 was used here, i.\,e.\~this page is blue, and the next one will
104 automatically have the same page color before it was changed to blue
105 here (i.\,e. green).}
106
107 \smallskip
108 {\color{red}\textbf{\lipsum[1-11]}}
109 \bigskip
110
111 The page color was changed back at the end of the page --
112 in mid-sentence!
113
114 \newpage
115 \backgroundpagecolor{pink}
116
117 When activating the loading of the crop package in the preamble of this
118 document, \verb|\backgroundpagecolor{<|\textit{some color}\verb|>}|
119 changes the color of the background/outer/physical page.
120
121 \newpage
122 \newbackgroundpagecolor{blue}
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.
128
129 Here \verb|\newbackgroundpagecolor{blue}| colored that
130 background/outer/physical page in blue (if crop is used).
131
132 \newpage
133 \restorebackgroundpagecolor
134
135 And here the pink color of the background/outer/physical page
136 was restored by \verb|\restorebackgroundpagecolor| (if crop is used).
137
138 \end{document}
139 \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.

```

140 (*package)

141 \NeedsTeXFormat{LaTeX2e}[2022-11-01]
142 \ProvidesPackage{pagecolor}[2023-02-14 v1.2b
143     Provides thepagecolor (HMM)]

```

A short description of the pagecolor package:

```

144 %% Provides the \thepagecolor, \thepagecolornone, \newpagecolor{...},
145 %% \restorepagecolor, \backgroundpagecolor, \newbackgroundpagecolor{...},
146 %% and \restorebackgroundpagecolor commands and a replacement for the
147 %% \nopagecolor command, if this is not available.

```

We want to wrap the messages nicely:

```

148 \RequirePackage{hardwrap}[2011/02/12]% v0.2 Hard wrap messages
149 \GenerateLogMacros{package}{pagecolor}
150
151 \@ifl@t@r{\fmtversion{2022/11/01}}{% would have understood
152 % \IfFormatAtLeastTF{2022-11-01}{<true code>}{<false code>}
153 }{\PackageError{pagecolor}{%
154     Newer LaTeX format needed or older undolabl package%
155 }{Needed LaTeX format version: 2022-11-01 or newer.\MessageBreak%
156     Found\space\space LaTeX format version: \fmtversion.\MessageBreak%
157     Either update your TeX distribution\MessageBreak%
158     or use an archived version of pagecolor\MessageBreak%
159     (see section History in the documentation).\MessageBreak%
160 }}
161 }
162

```

We need the kvoptions package:

```

163 \RequirePackage{kvoptions}[2022-06-15]% v3.15 Key value format for package options (H0)
164
165 and either the color or the xcolor package:

164 %% \RequirePackage{ either color or xcolor }:
165 \IfPackageLoadedTF{xcolor}{% xcolor loaded
166     \RequirePackage{xcolor}[2022/06/12]% v2.14 LaTeX color extensions (UK)
167 }{% xcolor not loaded
168     \IfPackageLoadedTF{color}{%
169         \RequirePackage{color}[2022-01-06]% v1.3d Standard LaTeX Color (DPC)
170     }{\pagecolor@warning@noline{%
171         The pagecolor package must be loaded after either %
172         package color or after package xcolor (at your %

```

```

173         option). Neither package was loaded before package %
174         pagecolor. Loading of package xcolor will now be %
175         tried automatically. \\%
176         When the pagecolor package is used with option %
177         pagecolor using a color requiring e.g. x11names %
178         option for xcolor package, this will not work!%
179     }
180 }
181 \RequirePackage{xcolor}[2022/06/12]% v2.14 LaTeX color extensions (UK)
182 }
183

```

We process the options:

```

184 \SetupKeyvalOptions{family=pagecolor,prefix=pagecolor@}
185 \DeclareStringOption[none]{pagecolor}% \pagecolor@pagecolor
186 \DeclareStringOption[none]{nopagecolor}% \pagecolor@nopagecolor
187 \ProcessKeyvalOptions*
188

```

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

```

189 \ifdefined\nopagecolor\relax
190 \else
191   \pagecolor@info@noline{\string\nopagecolor\ is undefined!}
192   \def\pagecolortmpb{none}
193   \edef\pagecolortmpa{\pagecolor@nopagecolor}
194   \ifx\pagecolortmpa\pagecolortmpb
195     \pagecolor@warning@noline{%
196       Option nopagecolor=none requested but \string\nopagecolor\ %
197       unknown: \\%
198       By option nopagecolor the "color" to be used with %
199       \string\nopagecolor\ %
200       is set. The current value is "none" (maybe by default), %
201       but command \string\nopagecolor\ is undefined. %
202       Therefore the color cannot be "none". %
203       Please change the option accordingly! - %
204       As first aid nopagecolor is now set to white.%
205     }
206     \setkeys{pagecolor}{nopagecolor=white}
207   \fi
208   \edef\pagecolortmpa{\pagecolor@pagecolor}
209   \ifx\pagecolortmpa\pagecolortmpb\relax
210     \pagecolor@warning@noline{%
211       Option pagecolor=none (maybe by default) used, %
212       but \string\nopagecolor\ is unknown. %
213       Please use another option value; %
214       \pagecolor@nopagecolor\ will be used now.%
215     }
216     \setkeys{pagecolor}{pagecolor={\pagecolor@nopagecolor}}
217   \fi
218   \newcommand{\nopagecolor}{\pagecolor{\pagecolor@nopagecolor}}
219 \fi
220
221

```

```

\pagecolor We save the original \pagecolor command,
222 \let\origpagecolor\pagecolor
223
before we redefine it to include a definition of \thepagecolor and
\thepagecolornone:
224 \renewcommand{\pagecolor}[1]{\@bsphack%
225   \edef\pagecolortmpa{#1}%
226   \def\pagecolortmpb{none}%
227   \ifx\pagecolortmpa\pagecolortmpb\relax%
228     \ifdefined\nopagecolor\relax%
229       \nopagecolor%
230     \else%
231       \pagecolor@warning{%
232         pagecolor=none requested but \string\nopagecolor\ %
233         unknown: \\\%
234         \string\pagecolor{none} was used, but the command %
235         \string\nopagecolor\ is undefined. %
236         Please use another color. \\\%
237         pagecolor=\pagecolor@nopagecolor\ \\\%
238         will be used now.%
239       }%
240       \xdef\thepagecolor{\pagecolor@nopagecolor}%
241       \xdef\thepagecolornone{\pagecolor@nopagecolor}%
242       % although it should be "none"
243       \origpagecolor{\pagecolor@nopagecolor}%
244     \fi%
245   \else%
246     \xdef\thepagecolor{#1}%
247     \xdef\thepagecolornone{#1}%
248     \origpagecolor{\thepagecolornone}%
249   \fi%
250   \@esphack%
251 }
252

```

\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:

```

253 \let\orignopagecolor\nopagecolor\relax
254
255 \gdef\pagecolor@cl{0}
256 \IfPackageLoadedTF{crop}{% crop loaded
257   \gdef\pagecolor@cl{1}
258   \pagecolor@info{\string\nopagecolor\space did not work with the crop package %
259     2017/11/19 v1.10. Using \\\%
260     \pagecolor@nopagecolor\ \\\%
261     as nopagecolor now.%
262   }
263   \def\pagecolortmpb{none}
264   \edef\pagecolortmpa{\pagecolor@nopagecolor}
265   \ifx\pagecolortmpa\pagecolortmpb\relax
266     \pagecolor@warning@noline{%
267       Option nopagecolor=none requested but this does not work with the %
268       crop package. By option nopagecolor the "color" to be used with %
269       \string\nopagecolor\ is set. The current value is "none" (maybe by %
270       default), but the crop package broke \string\nopagecolor . %
271       Therefore the color cannot be "none". %
272       Please change the option accordingly! %
273       As first aid nopagecolor is now set to white.%
274     }
275     \setkeys{pagecolor}{nopagecolor=white}

```



```

276 \fi
277 \renewcommand{\nopagecolor}{\pagecolor{\pagecolor@nopagecolor}}
278 }{% crop not loaded
279 \ifdefined\nopagecolor\relax
280 \gdef\pagecolortmpa{none}
281 \else
282 \gdef\pagecolortmpa{\pagecolor@nopagecolor}
283 \fi
284 \renewcommand{\nopagecolor}{%
285 \xdef\thepagecolor{white}%
286 \xdef\thepagecolornone{\pagecolortmpa}%
287 \orignopagecolor%
288 }
289 }
290
291

```

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

```

292 \pagecolor{\pagecolor@pagecolor}
293

```

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):

```

294 \newcommand{\newpagecolor}[1]{%
295 \xdef\pagecolortmpc{\thepagecolornone}%
296 \pagecolor{#1}%
297 }
298

```

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

`\restorepagecolor`

```

299 \newcommand{\restorepagecolor}{\pagecolor{\pagecolortmpc}}
300

```

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

```

301 \gdef\pagecolortmpc{\thepagecolor}
302

```

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:

```

303 \newcommand{\backgroundpagecolor}[1]{%
304   \IfPackageLoadedTF{crop}{%
Remember current inner/foreground/logic page color:
305     \xdef\pagecolortmpd{\thepagecolor}%
Set inner/foreground page color to color wished for background/outer/physical
page color:
306     \pagecolor{#1}%
Get that color, for example, \pagecolor{blue} might result in \CROP@pagecolor
to be 0 0 1 rg 0 0 1 RG:
307     \xdef\pagecolortmpe{\CROP@pagecolor}%
Set the inner/foreground/logic page color back to the color before changing it:
308     \pagecolor{\pagecolortmpd}%
Set the background/outer/physical page color:
309     \xdef\CROP@stockcolor{\pagecolortmpe}%
310     \pagecolor@info{\string\backgroundpagecolor\ does not do %
311       anything when the crop package has not been loaded.}%
- except giving this information.
312   }%
313 }
314
```

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

```

315 \newcommand{\newbackgroundpagecolor}[1]{%
316   \IfPackageLoadedTF{crop}{%
317     \xdef\pagecolortmpf{\CROP@stockcolor}%
318     \backgroundpagecolor{#1}%
319     \pagecolor@info{\string\newbackgroundpagecolor\ does not do %
320       anything when the crop package has not been loaded.}%
321   }%
322 }
323
```

`\restorebackgroundpagecolor`

```

324 \newcommand{\restorebackgroundpagecolor}{%
325   \IfPackageLoadedTF{crop}{\xdef\CROP@stockcolor{\pagecolortmpf}}{%
326     \pagecolor@info{\string\newbackgroundpagecolor\ does not do %
327       anything when the crop package has not been loaded.}%
328   }
329
```

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}`:

```

330 \AddToHook{begindocument/end}{%
331   \def\pagecolortmpb{0}%
332   \ifx\pagecolor@cl\pagecolortmpb\relax%
333     % crop not loaded before pagecolor, but maybe afterwards:
334     \IfPackageLoadedTF{crop}{% crop indeed loaded afterwards.
```

```

335 \gdef\pagecolor@cl{1}%
336 \pagecolor@info{\string\nopagecolor\space did not work with the crop package %
337 2017/11/19 v1.10. Using \\%
338 \pagecolor@nopagecolor\ \\%
339 as nopagecolor now.%
340 }%
341 \def\pagecolortmpb{none}%
342 \edef\pagecolortmpa{\pagecolor@nopagecolor}%
343 \ifx\pagecolortmpa\pagecolortmpb\relax%
344 \pagecolor@warning@noline{%
345 Option nopagecolor=none requested but this does not work with %
346 the crop package. By option nopagecolor the "color" to be used %
347 with \string\nopagecolor\ is set. The current value is "none" %
348 (maybe by default), but the crop package broke %
349 \string\nopagecolor . Therefore the color cannot be "none". %
350 Please change the option accordingly! %
351 As first aid nopagecolor is now set to white.%
352 }%
353 \setkeys{pagecolor}{nopagecolor=white}%
354 \fi%
355 \renewcommand{\nopagecolor}{\pagecolor{\pagecolor@nopagecolor}}%
356 }{% crop neither loaded afterwards.
357 }%
358 \fi%
359 }
360
361 \end{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_EXFormat L^AT_EX 2_ε 2022-11-01 or newer: <https://www.CTAN.org>
- document class ltxdoc, 2022/06/22, v2.1i, <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 2022-11-01 or newer, <https://www.CTAN.org>
 - package hardwrap, 2011/02/12, v0.2, <https://www.ctan.org/pkg/hardwrap>
 - package kvoptions, 2022-06-15, v3.15, <https://www.ctan.org/pkg/kvoptions>
- and either

- package xcolor, 2022/06/12, v2.14, <https://www.ctan.org/pkg/xcolor>

or

- package color, 2022-01-06, v1.3d, <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`, 2023-02-14, v1.2b, <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`, 2022/07/02, v1.4n, from classes:
<https://www.ctan.org/pkg/classes>
- package `xcolor`, 2022/06/12, v2.14, <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 As possible alternatives in section 3, Alternatives, there are listed (newer versions might be available):

transparent

- 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

All packages of the ‘oberdiek’ bundle (especially `hottxdoc` and `kvoptions`) are also available in a TDS compliant ZIP archive:

kvoptions

<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

pagecolor.ins	The installation file.
pagecolor.drv	The driver to generate the documentation.
pagecolor.sty	The <code>.style</code> 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 $\mathrm{T}_{\mathrm{E}}\mathrm{X}$:

```
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 $\mathrm{T}_{\mathrm{E}}\mathrm{X}$ distribution ($\mathrm{T}_{\mathrm{E}}\mathrm{X}$ Live, $\mathrm{MiK}_{\mathrm{T}}\mathrm{E}_{\mathrm{X}}$, ...) relies on file name databases, you must refresh these. For example, $\mathrm{T}_{\mathrm{E}}\mathrm{X}$ Live users run `texhash` or `mktextlsr`.

6.4 Some details for the interested

Unpacking with $\mathrm{L}^{\mathrm{A}}\mathrm{T}_{\mathrm{E}}\mathrm{X}$. The `.dtx` chooses its action depending on the format:

plain $\mathrm{T}_{\mathrm{E}}\mathrm{X}$: Run `docstrip` and extract the files.

$\mathrm{L}^{\mathrm{A}}\mathrm{T}_{\mathrm{E}}\mathrm{X}$: Generate the documentation.

If you insist on using $\mathrm{L}^{\mathrm{A}}\mathrm{T}_{\mathrm{E}}\mathrm{X}$ for `docstrip` (really, `docstrip` does not need $\mathrm{L}^{\mathrm{A}}\mathrm{T}_{\mathrm{E}}\mathrm{X}$), 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 $\mathrm{L}^{\mathrm{A}}\mathrm{T}_{\mathrm{E}}\mathrm{X}$` :

```
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 <https://groups.google.com/g/comp.text.tex/c/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!
- 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.

[2023-02-14 v1.2b]

- Example now also handling `\newbackgroundpagecolor` and `\restorebackgroundpagecolor` when the `crop` package is used.
- Fixed a missing v in version number.
- Documentation and README 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	
\Alternatives	<i>12</i>
B	
\backgroundpagecolor	
.....	<i>115, 118, 145, <u>303</u>, 318</i>
C	
\CROP@pagecolor	<i>307</i>
\CROP@stockcolor	<i>309, 317, 325</i>
H	
\holtxdoc	<i>12</i>
\hyperref	<i>12</i>
K	
\kvoptions	<i>12</i>
M	
\Münch	<i>12</i>
N	
\newbackgroundpagecolor	
.....	<i>122, 126, 129, 145, <u>315</u>, 326</i>
\newpagecolor	
.....	<i>28, 67, 69, 99, 101, 124, 144, <u>294</u></i>
\nopagecolor <i>3</i> , 80, 147, <u>189</u> , 228, 229,	
232, 235, 253, 258, 269, 270,	
277, 279, 284, 336, 347, 349, 355	
O	
\Oberdiek	<i>12</i>
P	
\pagecolor	<i>3,</i>
56, 78, 80, 94, 96, 218, <u>222</u> ,	
277, 292, 296, 299, 306, 308, 355	
\pagecolor-example.tex	<i>11</i>
\pagecolor.dtx	<i>11</i>
\pagecolor.sty	<i>11</i>
\pagecolor@cl	<i>255, 257, 332, 335</i>
\pagecolor@nopagecolor	
.....	<i>186, 193, 214,</i>
216, 218, 237, 240, 241, 243,	
260, 264, 277, 282, 338, 342, 355	
\pagecolor@pagecolor ..	<i>185, 208, 292</i>
R	
\restorebackgroundpagecolor	
.....	<i>127, 133, 136, 146, <u>324</u></i>
\restorepagecolor	<i>28,</i>
72, 74, 89, 91, 99, 101, 124, 145, <u>299</u>	
T	
\thepagecolor	<i>50, 52, 59,</i>
61, 85, 144, 240, 246, 285, 301, 305	
\thepagecolornone	<i>51,</i>
86, 144, 241, 247, 248, 286, 295	
\transparent	<i>12</i>