































































































































































































# Color extensions with the `xcolor` package — various examples

Dr. Uwe Kern

v2.12 (2016/05/11) \*

The purpose of this file is to demonstrate a variety of capabilities including the logging facilities of the `xcolor` package. By playing around with different values of `\tracingcolors`, one can observe the different behavior in the log file.

## 1 Predefined colors

color	rgb	cmyk	hsb	HTML	gray
red	 <u>1 0 0</u>	 <u>0 1 1 0</u>	 <u>0 1 1</u>	 <u>FF0000</u>	 <u>0.3</u>
green	 <u>0 1 0</u>	 <u>1 0 1 0</u>	 <u>0.33333 1 1</u>	 <u>00FF00</u>	 <u>0.59</u>
blue	 <u>0 0 1</u>	 <u>1 1 0 0</u>	 <u>0.66667 1 1</u>	 <u>0000FF</u>	 <u>0.11</u>
cyan	 <u>0 1 1</u>	 <u>1 0 0 0</u>	 <u>0.5 1 1</u>	 <u>00FFFF</u>	 <u>0.7</u>
magenta	 <u>1 0 1</u>	 <u>0 1 0 0</u>	 <u>0.83333 1 1</u>	 <u>FF00FF</u>	 <u>0.41</u>
yellow	 <u>1 1 0</u>	 <u>0 0 1 0</u>	 <u>0.16667 1 1</u>	 <u>FFFF00</u>	 <u>0.89</u>
orange	 <u>1 0.5 0</u>	 <u>0 0.5 1 0</u>	 <u>0.08333 1 1</u>	 <u>FF8000</u>	 <u>0.595</u>
violet	 <u>0.5 0 0.5</u>	 <u>0 0.5 0 0.5</u>	 <u>0.83333 1 0.5</u>	 <u>800080</u>	 <u>0.205</u>
purple	 <u>0.75 0 0.25</u>	 <u>0 0.75 0.5 0.25</u>	 <u>0.94444 1 0.75</u>	 <u>BF0040</u>	 <u>0.2525</u>
brown	 <u>0.75 0.5 0.25</u>	 <u>0 0.25 0.5 0.25</u>	 <u>0.08333 0.66667 0.75</u>	 <u>BF8040</u>	 <u>0.5475</u>
pink	 <u>1 0.75 0.75</u>	 <u>0 0.25 0.25 0</u>	 <u>0 0.25 1</u>	 <u>FFBFBF</u>	 <u>0.825</u>
olive	 <u>0.5 0.5 0</u>	 <u>0 0 1 0.5</u>	 <u>0.16667 1 0.5</u>	 <u>808000</u>	 <u>0.39</u>
black	 <u>0 0 0</u>	 <u>0 0 0 1</u>	 <u>0 0 0</u>	 <u>000000</u>	 <u>0</u>
darkgray	 <u>0.25 0.25 0.25</u>	 <u>0 0 0 0.75</u>	 <u>0 0 0.25</u>	 <u>404040</u>	 <u>0.25</u>
gray	 <u>0.5 0.5 0.5</u>	 <u>0 0 0 0.5</u>	 <u>0 0 0.5</u>	 <u>808080</u>	 <u>0.5</u>
lightgray	 <u>0.75 0.75 0.75</u>	 <u>0 0 0 0.25</u>	 <u>0 0 0.75</u>	 <u>BFBFBF</u>	 <u>0.75</u>
white	 <u>1 1 1</u>	 <u>0 0 0 0</u>	 <u>0 0 1</u>	 <u>FFFFFF</u>	 <u>1</u>
-red	 <u>0 1 1</u>	 <u>1 0 0 0</u>	 <u>0.5 1 1</u>	 <u>00FFFF</u>	 <u>0.7</u>
-green	 <u>1 0 1</u>	 <u>0 1 0 0</u>	 <u>0.83333 1 1</u>	 <u>FF00FF</u>	 <u>0.41</u>
-blue	 <u>1 1 0</u>	 <u>0 0 1 0</u>	 <u>0.16667 1 1</u>	 <u>FFFF00</u>	 <u>0.89</u>
-cyan	 <u>1 0 0</u>	 <u>0 1 1 0</u>	 <u>0 1 1</u>	 <u>FF0000</u>	 <u>0.3</u>
-magenta	 <u>0 1 0</u>	 <u>1 0 1 0</u>	 <u>0.33333 1 1</u>	 <u>00FF00</u>	 <u>0.59</u>
-yellow	 <u>0 0 1</u>	 <u>1 1 0 0</u>	 <u>0.66667 1 1</u>	 <u>0000FF</u>	 <u>0.11</u>
-orange	 <u>0 0.5 1</u>	 <u>1 0.5 0 0</u>	 <u>0.58333 1 1</u>	 <u>0080FF</u>	 <u>0.405</u>
-violet	 <u>0.5 1 0.5</u>	 <u>0.5 0 0.5 0</u>	 <u>0.33333 0.5 1</u>	 <u>80FF80</u>	 <u>0.795</u>
-purple	 <u>0.25 1 0.75</u>	 <u>0.75 0 0.25 0</u>	 <u>0.44444 0.75 1</u>	 <u>40FFBF</u>	 <u>0.7475</u>
-brown	 <u>0.25 0.5 0.75</u>	 <u>0.5 0.25 0 0.25</u>	 <u>0.58333 0.66667 0.75</u>	 <u>4080BF</u>	 <u>0.4525</u>
-pink	 <u>0 0.25 0.25</u>	 <u>0.25 0 0 0.75</u>	 <u>0.5 1 0.25</u>	 <u>004040</u>	 <u>0.175</u>
-olive	 <u>0.5 0.5 1</u>	 <u>0.5 0.5 0 0</u>	 <u>0.66667 0.5 1</u>	 <u>8080FF</u>	 <u>0.555</u>
-black	 <u>1 1 1</u>	 <u>0 0 0 0</u>	 <u>0 0 1</u>	 <u>FFFFFF</u>	 <u>1</u>
-darkgray	 <u>0.75 0.75 0.75</u>	 <u>0 0 0 0.25</u>	 <u>0 0 0.75</u>	 <u>BFBFBF</u>	 <u>0.75</u>
-gray	 <u>0.5 0.5 0.5</u>	 <u>0 0 0 0.5</u>	 <u>0 0 0.5</u>	 <u>808080</u>	 <u>0.5</u>
-lightgray	 <u>0.25 0.25 0.25</u>	 <u>0 0 0 0.75</u>	 <u>0 0 0.25</u>	 <u>404040</u>	 <u>0.25</u>
-white	 <u>0 0 0</u>	 <u>0 0 0 1</u>	 <u>0 0 0</u>	 <u>000000</u>	 <u>0</u>
JungleGreen	 <u>0.01 1 0.48</u>	 <u>0.99 0 0.52 0</u>	 <u>0.41246 0.99 1</u>	 <u>03FF7A</u>	 <u>0.6458</u>
DarkOrchid	 <u>0.6 0.2 0.8</u>	 <u>0.4 0.8 0.2 0</u>	 <u>0.77779 0.75 0.8</u>	 <u>9933CC</u>	 <u>0.386</u>
-JungleGreen	 <u>0.99 0 0.52</u>	 <u>0 0.99 0.47 0.01</u>	 <u>0.91246 1 0.99</u>	 <u>FC0085</u>	 <u>0.3542</u>
-DarkOrchid	 <u>0.4 0.8 0.2</u>	 <u>0.4 0 0.6 0.2</u>	 <u>0.27779 0.75 0.8</u>	 <u>66CC33</u>	 <u>0.614</u>

\*This file (`xcolor3.tex`) is part of the `xcolor` distribution which can be downloaded from the CTAN mirrors CTAN/macros/latex/contrib/xcolor/ or the homepage [www.ukern.de/tex/xcolor.html](http://www.ukern.de/tex/xcolor.html). Please send error reports and suggestions for improvements to [xcolor@ukern.de](mailto:xcolor@ukern.de).

































Switch off `\pagecolor` by `\nopagecolor`. The driver may or may not obey this command ...

## 2 Color definition and application

Test with `\definecolor`

Comma-separated and space-separated definitions:

identical = identical = identical = identical = identical = identical = identical identical

color	rgb	cmyk	hsb	HTML
c1	 0.7 0.6 0.5	 0 0.1 0.2 0.3	 0.08333 0.2857 0.7	 B29980
c2	 0.7 0.6 0.5	 0 0.1 0.2 0.3	 0.08333 0.2857 0.7	 B29980
c1a	 0.7 0.6 0.5	 0 0.1 0.2 0.3	 0.08333 0.2857 0.7	 B29980
c2a	 0.7 0.6 0.5	 0 0.1 0.2 0.3	 0.08333 0.2857 0.7	 B29980
[rgb].7,.6,.5	 0.7 0.6 0.5	 0 0.1 0.2 0.3	 0.08333 0.2857 0.7	 B29980
[rgb].7 .6 .5	 0.7 0.6 0.5	 0 0.1 0.2 0.3	 0.08333 0.2857 0.7	 B29980
rgb,10:red,7;green,6;blue,5	 0.7 0.6 0.5	 0 0.1 0.2 0.3	 0.08333 0.2857 0.7	 B29980
rgb,15:red,10.5;green,9;blue,7.5	 0.7 0.6 0.5	 0 0.1 0.2 0.3	 0.08333 0.2857 0.7	 B29980

Another extended color expression (rgb:red!50,4;green!25,2).

Test with named colors:

Test: JungleGreen; Test: JungleGreen; Test: JungleGreen!50!DarkOrchid; Test: green!50!red.

Test with `\color`

Current color application:

current, 50%, complement, mix and current, 50%, complement, mix,  
TestTestTestTestTest and TestTestTestTestTest.

Current color test with `\definecolorseries`:

TestTest

TestTest

TestTest

## 3 Color in tables

test	row 1
test	row 2
test	row 3
test	row 4
test	row 5
test	row 6
test	row 7
test	row 8
test	row 9

## 4 Color information

Type test: 1234