

The xcolor-material package

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Abstract

The xcolor-material package is built on top of the great xcolor package. It provides a useful definition of the beautiful [Google Material Color Palette](https://material.google.com/style/color.html), available at <https://material.google.com/style/color.html>, for its use in document writing with L^AT_EX and Friends.

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Usage

1 Installation

1.1 Required Packages

The `xcolor-material` package requires relatively updated packages. These packages are `kvoptions`¹ and `xcolor`², which are included in any popular \TeX distribution. Both are loaded without options.

1.2 Installing `xcolor-material`

Once the `xcolor-material` package is released in [CTAN](#), users should be able to install it from the \TeX distribution package manager available in their PC. However, if you need to install this package manually, you should run:

```
latex xcolor-material.ins
```

and copy the generated file `xcolor-material.sty` to a path where \LaTeX can find it. To generate the documentation run the following command twice.

```
pdflatex xcolor-material.dtx
```

2 Loading `xcolor-material`

Simply add the package declaration somewhere in the document preamble.

```
\usepackage{xcolor-material}
```

If you want to load the `kvoptions` and `xcolor` packages with some options, you can specify those options using the `\PassOptionsToPackage` command *before* loading `xcolor-material`, or by loading those packages with their options *before* loading the `xcolor-material` package.

2.1 Package Options

The `xcolor-material` currently offers only one option,

prefix=(*prefix*) Defines the prefix for all color names defined in the Google Material Color Palette; this is used for namespacing purposes. The default prefix is “Material”.

The main purpose of this option is to avoid conflicts with other existent color definitions. The **prefix** option allows custom prefix definition, e.g., if you want to use the word ‘`myprefix`’ as the color prefix, then you must load the `xcolor-material` package with

```
\usepackage[prefix=myprefix]{xcolor-material}
```

¹The `kvoptions` package is available at <https://www.ctan.org/pkg/kvoptions>

²The `xcolor` package is available at <https://www.ctan.org/pkg/xcolor>

3 Using xcolor-material

The xcolor-material provides all colors specified in the Google Material Color Palette, available at <https://material.google.com/style/color.html>, in the global scope of the document. This package relies on the xcolor package, and you should refer to its documentation for more details about using colors inside the document.

3.1 Color Names

The Google Material Color Palette consists of 19 color palettes (each for one base color) and two colors not included in any palette (**White** and **Black**), together forming a list of 256 colors. Each individual palette consists of 14 color variations of the base color, except for **Brown**, **Grey**, and **Blue Grey** with 10. Every color variation has a number from the list {50, 100, 200, 300, 400, 500, 600, 700, 800, 900} for the first ten colors or *primary palette*, and from the list {A100, A200, A300, A400} for the last four or *secondary palette*. The names of the base colors and their variations are listed in table 1. For a complete list of these palettes go to the section 3.4.

The name under which the xcolor-material package defines each Google Material color has the form ‘ $\langle prefix \rangle \langle base name \rangle \langle variation \rangle$ ’, where

- $\langle prefix \rangle$ corresponds to the prefix set via the package option `prefix`,
- $\langle base name \rangle$ is the official name of the base color (see table 1), and

Table 1: Color names from the Google Material Color Palette and their variation palettes.

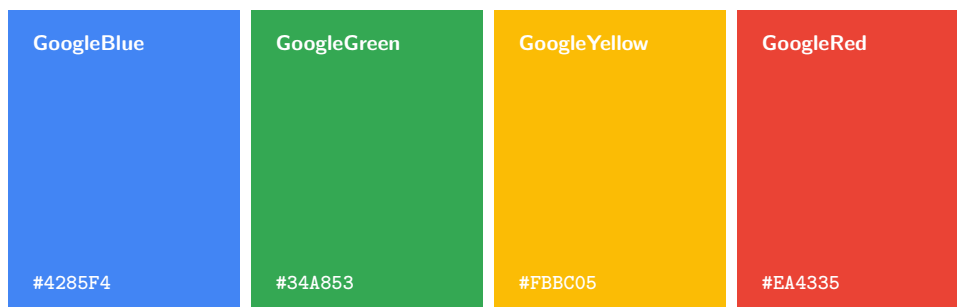
Base Color	Palettes
Red	primary, secondary
Pink	primary, secondary
Purple	primary, secondary
Deep Purple	primary, secondary
Indigo	primary, secondary
Blue	primary, secondary
Light Blue	primary, secondary
Cyan	primary, secondary
Teal	primary, secondary
Green	primary, secondary
Light Green	primary, secondary
Lime	primary, secondary
Yellow	primary, secondary
Amber	primary, secondary
Orange	primary, secondary
Deep Orange	primary, secondary
Brown	secondary
Grey	secondary
Blue Grey	secondary
Black	—
White	—

- $\langle variation \rangle$ is the id number of the color variation, e.g., 50 or A100.

For instance, by default (if a custom prefix is not defined), the Blue 600 color of the palette will be available in the document global scope as “MaterialBlue600”. Also, all base colors are representative of the palettes’ primary color and are available at the 500 variation or using their color names, e.g., MaterialBlue or MaterialBlue500 are the primary color of the “Material Blue Palette”.

3.2 Google Colors

The xcolor-material package provides the Google Identity colors, which definitions are available in the Google Design Blog at <https://design.google.com/articles/evolving-the-google-identity>. The name under which these colors are defined has the form ‘Google $\langle name \rangle$ ’, where $\langle name \rangle$ is a color name among Blue, Green, Yellow, and Red. For instance, if you want to use the Google Blue color you have to call for it by using ‘GoogleBlue’.



3.3 Useful macros

The xcolor-material provides some useful macros for printing color values, samples, and palettes. Some of them maybe rely on other LaTeX packages that are not loaded by default.

`\printcolorvalue` [$\langle color model \rangle$] { $\langle color name \rangle$ }

This macro can be used to print any color value. It has one mandatory argument $\langle color name \rangle$, which specifies the color name which you want to know its value. And one optional argument, $\langle color model \rangle$ that corresponds to the color model in which the value will be presented: HTML, RGB and cmyk (HTML by default).

```

\printcolorvalue{MaterialBlue}      #2196F3
\printcolorvalue[RGB]{MaterialGrey}  rgb(158,158,158)
\printcolorvalue[cmyk]{orange}      cmyk(0,0.5,1,0)

```

`\colorsample` [$\langle color model \rangle$] [$\langle text color \rangle$] [$\langle box width \rangle$] { $\langle color name \rangle$ } [$\langle title \rangle$]

This macro allows you to draw color samples using a simple colorbox with text. It has one mandatory argument

- $\langle color name \rangle$ which is the name of the color to be drawn,

and four optional arguments:

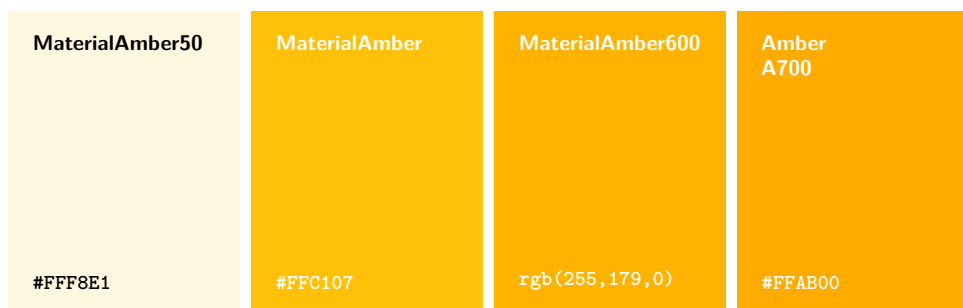
- $\langle color\ model\rangle$ represents the color model in which the color will be presented (by default HTML),
- $\langle text\ color\rangle$ which specifies the color used for printing the text (by default white),
- $\langle box\ width\rangle$ specifies the box width (by default is 6.5em), if it is *empty* the default is passed,
- and $\langle title\rangle$ which is the title of the color sample, if this argument is not passed the color name is taken.

To generate samples of the [Google Colors](#) showed above we can type

```
\colorsample{GoogleBlue} \colorsample{GoogleGreen}
\colorsample{GoogleYellow} \colorsample{GoogleRed}
```

Other samples:

```
\colorsample[HTML][][black]{MaterialAmber50}
\colorsample{MaterialAmber}
\colorsample[RGB]{MaterialAmber600}
\colorsample{MaterialAmberA700}[Amber\\A700]
```



```
\colorsample[cmymk][13em]{MaterialBlueGrey500}
\colorsample{purple}[\texttt{xcolor}\\ Purple]
\colorsample[RGB]{teal}[]
```



`\colorpalette` [$\langle key-value\ arguments\rangle$]{ $\langle color\ name\rangle$ }

This macro is available only if the PGF/TikZ package is loaded. It provides a simple way to draw the Google Material Color Palettes in the same way as we

Table 2: Key-value arguments for the `\colorpalette` macro.

Key	Default	Description
<code>width</code>	$.45 \times \text{\textwidth}$	Palette width
<code>height</code>	$2 \times \text{\baselineskip}$	Variation colorbox height
<code>shape</code>	rectangle	Variation colorbox shape
<code>title</code>	$\langle color\ name \rangle$	Palette title
<code>title text color</code>	white	Title colorbox text color
<code>init text color</code>	black	Initial variation text color
<code>altern text color</code>	white	Alternative variation text color
<code>variation font</code>	sffamily	Variation title font
<code>value font</code>	ttfamily	Variation value font
<code>title font</code>	sffamily and bfseries	Palette title font
<code>colorbox sep</code>	0pt	Separation between variation colorboxes
<code>first colorbox sep</code>	$.2 \times \text{\baselineskip}$	Separation between title colorbox and first palette colorbox
<code>title colorbox height</code>	$6 \times \text{\baselineskip}$	Height of the title colorbox
<code>primary palette</code>	{50,100,200,...,900}	List of primary palette variations
<code>secondary palette</code>	{A100,A200,A400,A700}	List of secondary palette variations
<code>percent char</code>	{}	Character for color mixtures (usually !), this is useful when the <code>basic</code> style is selected
<code>primary variation</code>	500	Primary variation or palette's base color
<code>primary toggle at</code>	1000	Color variation at which alternates between <code>init text color</code> and <code>altern text color</code> for the primary palette
<code>secondary toggle at</code>	1000	Color variation at which alternates between <code>init text color</code> and <code>altern text color</code> for the secondary palette
<code>color model</code>	HTML	Color Model to be used for printing the palette

can find them into the [Google Style Blog](#). It has one mandatory argument $\langle color\ name \rangle$, which specifies the palette base color that will be used to draw its variation palette. Optional arguments are provided in the form of key-value arguments and key styles. A complete list of key-value arguments and styles is available at table 2 and 3 respectively. The `xcolor-material` package relies on the `pgfkeys` package to provide key-value arguments, for deeper knowledge about how to use key-value arguments look at package documentation³.

A printed palette is a stack of colorboxes that comprises three main sections, one on top or `title colorbox` that is used for introducing the palette with its primary variation, a `primary palette` in the middle and a `secondary palette`

³The `pgfkeys` package is available at <https://www.ctan.org/pkg/pgfkeys>.

Table 3: Style arguments for the `\colorpalette` macro.

Style	Description
<code>both</code>	Settings for printing both primary and secondary palettes (Default)
<code>primary</code>	For printing primary palette only
<code>basic</code>	For printing variations from 10% to 100% of a base color

at the bottom. With this macro, you can print out all the palettes of the Google Material Colors, and with some configurations you can print any color palette that you want in a fancy way as the Material Palettes.

For instance, the following commands produce a color palette for the variations of the `xcolor` predefined `yellow` color between 10% and 100%, and a custom palette by tricking the `\colorpalette` macro.

```
\colorpalette[basic, title text color=black]{yellow}
\colorpalette[primary palette={yellow,blue,red,gray,black,purple},
secondary palette={yellow!20,blue!30,red!20,gray!40}, primary
variation=orange, primary toggle at=blue]{}
```

yellow	
100	#FFFF00
10	#FFFFE5
20	#FFFFCC
30	#FFFFB2
40	#FFFF99
50	#FFFF80
60	#FFFF66
70	#FFFF4D
80	#FFFF33
90	#FFF1A
100	#FFFF00

Predefined Orange	
orange	#FF8000
yellow	#FFFF00
blue	#0000FF
red	#FF0000
gray	#808080
black	#000000
purple	#BF0040
yellow!20	#FFFFCC
blue!30	#B2B2FF
red!20	#FFCCCC
gray!40	#CCCCCC

3.4 Color Palettes

Here all Google Material Palettes are presented in the same way as they appear at the Google Design blog using the `\colorpalette` command described above.

```
\colorpalette[primary toggle at=400, secondary toggle at=A200, secondary  
palette={A100,A200,A400,A700}]{MaterialRed}  
\colorpalette[primary toggle at=400, secondary toggle at=A200, secondary  
palette={A100,A200,A400,A700}]{MaterialPink}
```

MaterialRed	
500	#F44336
50	#FFECEE
100	#FFCDD2
200	#EF9A9A
300	#E57373
400	#EF5350
500	#F44336
600	#E53935
700	#D32F2F
800	#C62828
900	#B71C1C
A100	#FF8A80
A200	#FF5252
A400	#FF1744
A700	#D50000

MaterialPink	
500	#E91E63
50	#FCE4EC
100	#F8BBD0
200	#F48FB1
300	#F06292
400	#EC407A
500	#E91E63
600	#D81B60
700	#C2185B
800	#AD1457
900	#880E4F
A100	#FF80AB
A200	#FF4081
A400	#F50057
A700	#C51162


```

\colorpalette[primary toggle at=300, secondary toggle at=A200, secondary
palette={A100,A200,A400,A700}]{MaterialPurple}
\colorpalette[primary toggle at=300, secondary toggle at=A200, secondary
palette={A100,A200,A400,A700}]{MaterialDeepPurple}

```

MaterialPurple	
500	#9C27B0
50	#F3E5F5
100	#E1BEE7
200	#CE93D8
300	#BA68C8
400	#AB47BC
500	#9C27B0
600	#8E24AA
700	#7B1FA2
800	#6A1B9A
900	#4A148C
A100	#EA80FC
A200	#E040FB
A400	#D500F9
A700	#AA00FF

MaterialDeepOrange	
500	#FF5722
50	#FBE9E7
100	#FFCCBC
200	#FFAB91
300	#FF8A65
400	#FF7043
500	#FF5722
600	#F4511E
700	#E64A19
800	#D84315
900	#BF360C
A100	#FF9E80
A200	#FF6E40
A400	#FF3D00
A700	#DD2C00

```

\colorpalette[primary toggle at=500, secondary toggle at=A200, secondary
palette={A100,A200,A400,A700}]{MaterialBlue}
\colorpalette[primary toggle at=300, secondary toggle at=A200, secondary
palette={A100,A200,A400,A700}]{MaterialIndigo}

```

MaterialBlue	
500	#2196F3
50	#E3F2FD
100	#BBDEFB
200	#90CAF9
300	#64B5F6
400	#42A5F5
500	#2196F3
600	#1E88E5
700	#1976D2
800	#1565C0
900	#0D47A1
A100	#82B1FF
A200	#448AFF
A400	#2979FF
A700	#2962FF

MaterialIndigo	
500	#3F51B5
50	#E8EAF6
100	#C5CAE9
200	#9FA8DA
300	#7986CB
400	#5C6BC0
500	#3F51B5
600	#3949AB
700	#303F9F
800	#283593
900	#1A237E
A100	#8C9EFF
A200	#536DFE
A400	#3D5AFE
A700	#304FFE

```

\colorpalette[primary toggle at=600, secondary toggle at=A700, title text
color=black]{MaterialLightBlue}
\colorpalette[primary toggle at=700, title text color=black]{MaterialCyan}

```

MaterialLightBlue	
500	#03A9F4
50	#E1F5FE
100	#B3E5FC
200	#81D4FA
300	#4FC3F7
400	#29B6F6
500	#03A9F4
600	#039BE5
700	#0288D1
800	#0277BD
900	#01579B
A100	#80D8FF
A200	#40C4FF
A400	#00B0FF
A700	#0091EA

MaterialCyan	
500	#00BCD4
50	#E0F7FA
100	#B2EBF2
200	#80DEEA
300	#4DD0E1
400	#26C6DA
500	#00BCD4
600	#00ACC1
700	#0097A7
800	#00838F
900	#006064
A100	#84FFFF
A200	#18FFFF
A400	#00E5FF
A700	#00B8D4

```

\colorpalette[primary toggle at=500, secondary
palette={A100,A200,A400,A700}]{MaterialTeal}
\colorpalette[primary toggle at=600, title text color=black]{MaterialGreen}

```

MaterialTeal	
500	#009688
50	#E0F2F1
100	#B2DFDB
200	#80CBC4
300	#4DB6AC
400	#26A69A
500	#009688
600	#00897B
700	#00796B
800	#00695C
900	#004D40
A100	#A7FFEB
A200	#64FFDA
A400	#1DE9B6
A700	#00BFA5

MaterialGreen	
500	#4CAF50
50	#E8F5E9
100	#C8E6C9
200	#A5D6A7
300	#81C784
400	#66BB6A
500	#4CAF50
600	#43A047
700	#388E3C
800	#2E7D32
900	#1B5E20
A100	#B9F6CA
A200	#69F0AE
A400	#00E676
A700	#00C853

```

\colorpalette[primary toggle at=700, title text
color=black]{MaterialLightGreen}
\colorpalette[primary toggle at=900, title text color=black]{MaterialLime}

```

MaterialLightGreen	
500	#8BC34A
50	#F1F8E9
100	#DCEDC8
200	#C5E1A5
300	#AED581
400	#9CCC65
500	#8BC34A
600	#7CB342
700	#689F38
800	#558B2F
900	#33691E
A100	#CCFF90
A200	#B2FF59
A400	#76FF03
A700	#64DD17

MaterialLime	
500	#CDDC39
50	#F9FBE7
100	#F0F4C3
200	#E6EE9C
300	#DCE775
400	#D4E157
500	#CDDC39
600	#C0CA33
700	#AFB42B
800	#9E9D24
900	#827717
A100	#F4FF81
A200	#EEFF41
A400	#C6FF00
A700	#AEEA00

```
\colorpalette[title text color=black]{MaterialYellow}  
\colorpalette[title text color=black]{MaterialAmber}
```

MaterialYellow		MaterialAmber	
500	#FFEB3B	500	#FFC107
50	#FFFDE7	50	#FFF8E1
100	#FFF9C4	100	#FFECB3
200	#FFF59D	200	#FFE082
300	#FFF176	300	#FFD54F
400	#FFEE58	400	#FFCA28
500	#FFEB3B	500	#FFC107
600	#FDD835	600	#FFB300
700	#FBC02D	700	#FFA000
800	#F9A825	800	#FF8F00
900	#F57F17	900	#FF6F00
A100	#FFFF8D	A100	#FFE57F
A200	#FFFF00	A200	#FFD740
A400	#FFEA00	A400	#FFC400
A700	#FFD600	A700	#FFAB00

```

\colorpalette[primary toggle at=800, title text color=black]{MaterialOrange}
\colorpalette[primary toggle at=500, secondary toggle
at=A400]{MaterialDeepOrange}

```

MaterialOrange	
500	#FF9800
50	#FFF3E0
100	#FFE0B2
200	#FFCC80
300	#FFB74D
400	#FFA726
500	#FF9800
600	#FB8C00
700	#F57C00
800	#EF6C00
900	#E65100
A100	#FFD180
A200	#FFAB40
A400	#FF9100
A700	#FF6D00

MaterialDeepOrange	
500	#FF5722
50	#FBE9E7
100	#FFCCBC
200	#FFAB91
300	#FF8A65
400	#FF7043
500	#FF5722
600	#F4511E
700	#E64A19
800	#D84315
900	#BF360C
A100	#FF9E80
A200	#FF6E40
A400	#FF3D00
A700	#DD2C00

```
\colorpalette[primary, primary toggle at=300]{MaterialBrown}  
\colorpalette[primary, primary toggle at=600]{MaterialGrey}
```

MaterialBrown	
500	#795548
50	#EFEBE9
100	#D7CCC8
200	#BCAAA4
300	#A1887F
400	#8D6E63
500	#795548
600	#6D4C41
700	#5D4037
800	#4E342E
900	#3E2723

MaterialGrey	
500	#9E9E9E
50	#FAFAFA
100	#F5F5F5
200	#EEEEEE
300	#E0E0E0
400	#BDBDBD
500	#9E9E9E
600	#757575
700	#616161
800	#424242
900	#212121


```
\colorpalette[primary, primary toggle at=400]{MaterialBlueGrey}
```

MaterialBlueGrey	
500	#607D8B
50	#ECEFF1
100	#CFD8DC
200	#B0BEC5
300	#90A4AE
400	#78909C
500	#607D8B
600	#546E7A
700	#455A64
800	#37474F
900	#263238

4 Bug reports

The development version of this package is available at <https://github.com/OSjerick/xcolor-material>. If you find bugs, have feature suggestions or think of ways in which the xcolor-material package and its documentation could be improved, please open a ticket in the GitHub repository's issue tracker.

5 Acknowledgements

This package was inspired by the xcolor-solarized package, available at <https://www.ctan.org/pkg/xcolor-solarized>, then I have to thank Julien Cretel its creator. Also, thanks to Google for such amazing color palette.

Implementation

I have used the word ‘XCM’ followed by an ‘@’ character for namespacing purposes into the xcolor-material package source.

6 Required Packages

The xcolor-material requires the xcolor and kvoptions packages, both are loaded without any option.

```
1 \RequirePackage{xcolor}[2007/01/21]
2 \RequirePackage{kvoptions}[2011/06/30]
```

The xcolor package is used to define and provide every single color in the Google Material Color Palette. The kvoptions package supports package options in a key-value format.

7 Package Options

Setting up kvoptions configuration.

```
3 \SetupKeyvalOptions{
4   family=XCM,
5   prefix=XCM@
6 }
```

Declaring string option key ‘prefix’:

```
7 \DeclareStringOption[Material]{prefix}[Material]
8 \DeclareDefaultOption{
9   \OptionNotUsed
10  \PackageError{xcolor-material}{Unknown ‘\CurrentOption’ option.}
11 }
12 \ProcessKeyvalOptions*
```

Note that the default value for this key is ‘Material’. Note also that this package checks for valid options, if an invalid option is passed, a PackageError will be thrown.

8 Color Definitions

`\XCM@definecolor` I have taken the idea from the xcolor-solarized package of having a convenient internal macro for color definitions.

```
13 \newcommand{\XCM@definecolor}[2]
14   {\expandafter\definecolor\expandafter{\XCM@prefix #1}{HTML}{#2}}
```

Using this macro definition we can define all the Google Material colors as follows. Note that for every color in the palette, the 500 variation is the base color default as Google recommends for primary colors.

8.1 Red

```
15 \XCM@definecolor{Red50} {FFEBEE}
16 \XCM@definecolor{Red100} {FFCDD2}
17 \XCM@definecolor{Red200} {EF9A9A}
18 \XCM@definecolor{Red300} {E57373}
19 \XCM@definecolor{Red400} {EF5350}
20 \XCM@definecolor{Red500} {F44336}
21 \XCM@definecolor{Red600} {E53935}
22 \XCM@definecolor{Red700} {D32F2F}
23 \XCM@definecolor{Red800} {C62828}
24 \XCM@definecolor{Red900} {B71C1C}
25 \XCM@definecolor{RedA100}{FF8A80}
26 \XCM@definecolor{RedA200}{FF5252}
27 \XCM@definecolor{RedA400}{FF1744}
28 \XCM@definecolor{RedA700}{D50000}
29 \definecolor{\XCM@prefix Red}{named}{\XCM@prefix Red500}
```

8.2 Pink

```
30 \XCM@definecolor{Pink50} {FCE4EC}
31 \XCM@definecolor{Pink100} {F8BBD0}
32 \XCM@definecolor{Pink200} {F48FB1}
33 \XCM@definecolor{Pink300} {F06292}
34 \XCM@definecolor{Pink400} {EC407A}
35 \XCM@definecolor{Pink500} {E91E63}
36 \XCM@definecolor{Pink600} {D81B60}
37 \XCM@definecolor{Pink700} {C2185B}
38 \XCM@definecolor{Pink800} {AD1457}
39 \XCM@definecolor{Pink900} {880E4F}
40 \XCM@definecolor{PinkA100}{FF80AB}
41 \XCM@definecolor{PinkA200}{FF4081}
42 \XCM@definecolor{PinkA400}{F50057}
43 \XCM@definecolor{PinkA700}{C51162}
44 \definecolor{\XCM@prefix Pink}{named}{\XCM@prefix Pink500}
```

8.3 Purple

```
45 \XCM@definecolor{Purple50} {F3E5F5}
46 \XCM@definecolor{Purple100} {E1BEE7}
47 \XCM@definecolor{Purple200} {CE93D8}
48 \XCM@definecolor{Purple300} {BA68C8}
49 \XCM@definecolor{Purple400} {AB47BC}
50 \XCM@definecolor{Purple500} {9C27B0}
51 \XCM@definecolor{Purple600} {8E24AA}
52 \XCM@definecolor{Purple700} {7B1FA2}
53 \XCM@definecolor{Purple800} {6A1B9A}
54 \XCM@definecolor{Purple900} {4A148C}
55 \XCM@definecolor{PurpleA100}{EA80FC}
56 \XCM@definecolor{PurpleA200}{E040FB}
57 \XCM@definecolor{PurpleA400}{D500F9}
58 \XCM@definecolor{PurpleA700}{AA00FF}
59 \definecolor{\XCM@prefix Purple}{named}{\XCM@prefix Purple500}
```

8.4 Deep Purple

```
60 \XCM@definecolor{DeepPurple50} {EDE7F6}
```

```

61 \XCM@definecolor{DeepPurple100} {D1C4E9}
62 \XCM@definecolor{DeepPurple200} {B39DDB}
63 \XCM@definecolor{DeepPurple300} {9575CD}
64 \XCM@definecolor{DeepPurple400} {7E57C2}
65 \XCM@definecolor{DeepPurple500} {673AB7}
66 \XCM@definecolor{DeepPurple600} {5E35B1}
67 \XCM@definecolor{DeepPurple700} {512DA8}
68 \XCM@definecolor{DeepPurple800} {4527A0}
69 \XCM@definecolor{DeepPurple900} {311B92}
70 \XCM@definecolor{DeepPurpleA100}{B388FF}
71 \XCM@definecolor{DeepPurpleA200}{7C4DFF}
72 \XCM@definecolor{DeepPurpleA400}{651FFF}
73 \XCM@definecolor{DeepPurpleA700}{6200EA}
74 \definecolor{\XCM@prefix DeepPurple}{named}{\XCM@prefix DeepPurple500}

```

8.5 Indigo

```

75 \XCM@definecolor{Indigo50} {E8EAF6}
76 \XCM@definecolor{Indigo100} {C5CAE9}
77 \XCM@definecolor{Indigo200} {9FA8DA}
78 \XCM@definecolor{Indigo300} {7986CB}
79 \XCM@definecolor{Indigo400} {5C6BC0}
80 \XCM@definecolor{Indigo500} {3F51B5}
81 \XCM@definecolor{Indigo600} {3949AB}
82 \XCM@definecolor{Indigo700} {303F9F}
83 \XCM@definecolor{Indigo800} {283593}
84 \XCM@definecolor{Indigo900} {1A237E}
85 \XCM@definecolor{IndigoA100}{8C9EFF}
86 \XCM@definecolor{IndigoA200}{536DFE}
87 \XCM@definecolor{IndigoA400}{3D5AFE}
88 \XCM@definecolor{IndigoA700}{304FFE}
89 \definecolor{\XCM@prefix Indigo}{named}{\XCM@prefix Indigo500}

```

8.6 Blue

```

90 \XCM@definecolor{Blue50} {E3F2FD}
91 \XCM@definecolor{Blue100} {BBDEFB}
92 \XCM@definecolor{Blue200} {90CAF9}
93 \XCM@definecolor{Blue300} {64B5F6}
94 \XCM@definecolor{Blue400} {42A5F5}
95 \XCM@definecolor{Blue500} {2196F3}
96 \XCM@definecolor{Blue600} {1E88E5}
97 \XCM@definecolor{Blue700} {1976D2}
98 \XCM@definecolor{Blue800} {1565C0}
99 \XCM@definecolor{Blue900} {0D47A1}
100 \XCM@definecolor{BlueA100}{82B1FF}
101 \XCM@definecolor{BlueA200}{448AFF}
102 \XCM@definecolor{BlueA400}{2979FF}
103 \XCM@definecolor{BlueA700}{2962FF}
104 \definecolor{\XCM@prefix Blue}{named}{\XCM@prefix Blue500}

```

8.7 Light Blue

```

105 \XCM@definecolor{LightBlue50} {E1F5FE}
106 \XCM@definecolor{LightBlue100} {B3E5FC}
107 \XCM@definecolor{LightBlue200} {81D4FA}

```

```

108 \XCM@definecolor{LightBlue300} {4FC3F7}
109 \XCM@definecolor{LightBlue400} {29B6F6}
110 \XCM@definecolor{LightBlue500} {03A9F4}
111 \XCM@definecolor{LightBlue600} {039BE5}
112 \XCM@definecolor{LightBlue700} {0288D1}
113 \XCM@definecolor{LightBlue800} {0277BD}
114 \XCM@definecolor{LightBlue900} {01579B}
115 \XCM@definecolor{LightBlueA100}{80D8FF}
116 \XCM@definecolor{LightBlueA200}{40C4FF}
117 \XCM@definecolor{LightBlueA400}{00B0FF}
118 \XCM@definecolor{LightBlueA700}{0091EA}
119 \definecolor{\XCM@prefix LightBlue}{named}{\XCM@prefix LightBlue500}

```

8.8 Cyan

```

120 \XCM@definecolor{Cyan50} {E0F7FA}
121 \XCM@definecolor{Cyan100} {B2EBF2}
122 \XCM@definecolor{Cyan200} {80DEEA}
123 \XCM@definecolor{Cyan300} {4DD0E1}
124 \XCM@definecolor{Cyan400} {26C6DA}
125 \XCM@definecolor{Cyan500} {00BCD4}
126 \XCM@definecolor{Cyan600} {00ACC1}
127 \XCM@definecolor{Cyan700} {0097A7}
128 \XCM@definecolor{Cyan800} {00838F}
129 \XCM@definecolor{Cyan900} {006064}
130 \XCM@definecolor{CyanA100}{84FFFF}
131 \XCM@definecolor{CyanA200}{18FFFF}
132 \XCM@definecolor{CyanA400}{00E5FF}
133 \XCM@definecolor{CyanA700}{00B8D4}
134 \definecolor{\XCM@prefix Cyan}{named}{\XCM@prefix Cyan500}

```

8.9 Teal

```

135 \XCM@definecolor{Teal50} {E0F2F1}
136 \XCM@definecolor{Teal100} {B2DFDB}
137 \XCM@definecolor{Teal200} {80CBC4}
138 \XCM@definecolor{Teal300} {4DB6AC}
139 \XCM@definecolor{Teal400} {26A69A}
140 \XCM@definecolor{Teal500} {009688}
141 \XCM@definecolor{Teal600} {00897B}
142 \XCM@definecolor{Teal700} {00796B}
143 \XCM@definecolor{Teal800} {00695C}
144 \XCM@definecolor{Teal900} {004D40}
145 \XCM@definecolor{TealA100}{A7FFEB}
146 \XCM@definecolor{TealA200}{64FFDA}
147 \XCM@definecolor{TealA400}{1DE9B6}
148 \XCM@definecolor{TealA700}{00BFA5}
149 \definecolor{\XCM@prefix Teal}{named}{\XCM@prefix Teal500}

```

8.10 Green

```

150 \XCM@definecolor{Green50} {E8F5E9}
151 \XCM@definecolor{Green100} {C8E6C9}
152 \XCM@definecolor{Green200} {A5D6A7}
153 \XCM@definecolor{Green300} {81C784}
154 \XCM@definecolor{Green400} {66BB6A}

```

```

155 \XCM@definecolor{Green500} {4CAF50}
156 \XCM@definecolor{Green600} {43A047}
157 \XCM@definecolor{Green700} {388E3C}
158 \XCM@definecolor{Green800} {2E7D32}
159 \XCM@definecolor{Green900} {1B5E20}
160 \XCM@definecolor{GreenA100}{B9F6CA}
161 \XCM@definecolor{GreenA200}{69FOAE}
162 \XCM@definecolor{GreenA400}{00E676}
163 \XCM@definecolor{GreenA700}{00C853}
164 \definecolor{\XCM@prefix Green}{named}{\XCM@prefix Green500}

```

8.11 Light Green

```

165 \XCM@definecolor{LightGreen50} {F1F8E9}
166 \XCM@definecolor{LightGreen100} {DCEDC8}
167 \XCM@definecolor{LightGreen200} {C5E1A5}
168 \XCM@definecolor{LightGreen300} {AED581}
169 \XCM@definecolor{LightGreen400} {9CCC65}
170 \XCM@definecolor{LightGreen500} {8BC34A}
171 \XCM@definecolor{LightGreen600} {7CB342}
172 \XCM@definecolor{LightGreen700} {689F38}
173 \XCM@definecolor{LightGreen800} {558B2F}
174 \XCM@definecolor{LightGreen900} {33691E}
175 \XCM@definecolor{LightGreenA100}{CCFF90}
176 \XCM@definecolor{LightGreenA200}{B2FF59}
177 \XCM@definecolor{LightGreenA400}{76FF03}
178 \XCM@definecolor{LightGreenA700}{64DD17}
179 \definecolor{\XCM@prefix LightGreen}{named}{\XCM@prefix LightGreen500}

```

8.12 Lime

```

180 \XCM@definecolor{Lime50} {F9FBE7}
181 \XCM@definecolor{Lime100} {F0F4C3}
182 \XCM@definecolor{Lime200} {E6EE9C}
183 \XCM@definecolor{Lime300} {DCE775}
184 \XCM@definecolor{Lime400} {D4E157}
185 \XCM@definecolor{Lime500} {CDDC39}
186 \XCM@definecolor{Lime600} {COCA33}
187 \XCM@definecolor{Lime700} {AFB42B}
188 \XCM@definecolor{Lime800} {9E9D24}
189 \XCM@definecolor{Lime900} {827717}
190 \XCM@definecolor{LimeA100}{F4FF81}
191 \XCM@definecolor{LimeA200}{EEFF41}
192 \XCM@definecolor{LimeA400}{C6FF00}
193 \XCM@definecolor{LimeA700}{AEEA00}
194 \definecolor{\XCM@prefix Lime}{named}{\XCM@prefix Lime500}

```

8.13 Yellow

```

195 \XCM@definecolor{Yellow50} {FFFDE7}
196 \XCM@definecolor{Yellow100} {FFF9C4}
197 \XCM@definecolor{Yellow200} {FFF59D}
198 \XCM@definecolor{Yellow300} {FFF176}
199 \XCM@definecolor{Yellow400} {FFEE58}
200 \XCM@definecolor{Yellow500} {FFEB3B}
201 \XCM@definecolor{Yellow600} {FDD835}

```

```

202 \XCM@definecolor{Yellow700} {FBC02D}
203 \XCM@definecolor{Yellow800} {F9A825}
204 \XCM@definecolor{Yellow900} {F57F17}
205 \XCM@definecolor{YellowA100}{FFFF8D}
206 \XCM@definecolor{YellowA200}{FFFF00}
207 \XCM@definecolor{YellowA400}{FFEA00}
208 \XCM@definecolor{YellowA700}{FFD600}
209 \definecolor{\XCM@prefix Yellow}{named}{\XCM@prefix Yellow500}

```

8.14 Amber

```

210 \XCM@definecolor{Amber50} {FFF8E1}
211 \XCM@definecolor{Amber100} {FFECB3}
212 \XCM@definecolor{Amber200} {FFE082}
213 \XCM@definecolor{Amber300} {FFD54F}
214 \XCM@definecolor{Amber400} {FFCA28}
215 \XCM@definecolor{Amber500} {FFC107}
216 \XCM@definecolor{Amber600} {FFB300}
217 \XCM@definecolor{Amber700} {FFA000}
218 \XCM@definecolor{Amber800} {FF8F00}
219 \XCM@definecolor{Amber900} {FF6F00}
220 \XCM@definecolor{AmberA100}{FFE57F}
221 \XCM@definecolor{AmberA200}{FFD740}
222 \XCM@definecolor{AmberA400}{FFC400}
223 \XCM@definecolor{AmberA700}{FFAB00}
224 \definecolor{\XCM@prefix Amber}{named}{\XCM@prefix Amber500}

```

8.15 Orange

```

225 \XCM@definecolor{Orange50} {FFF3E0}
226 \XCM@definecolor{Orange100} {FFE0B2}
227 \XCM@definecolor{Orange200} {FFCC80}
228 \XCM@definecolor{Orange300} {FFB74D}
229 \XCM@definecolor{Orange400} {FFA726}
230 \XCM@definecolor{Orange500} {FF9800}
231 \XCM@definecolor{Orange600} {FB8C00}
232 \XCM@definecolor{Orange700} {F57C00}
233 \XCM@definecolor{Orange800} {EF6C00}
234 \XCM@definecolor{Orange900} {E65100}
235 \XCM@definecolor{OrangeA100}{FFD180}
236 \XCM@definecolor{OrangeA200}{FFAB40}
237 \XCM@definecolor{OrangeA400}{FF9100}
238 \XCM@definecolor{OrangeA700}{FF6D00}
239 \definecolor{\XCM@prefix Orange}{named}{\XCM@prefix Orange500}

```

8.16 Deep Orange

```

240 \XCM@definecolor{DeepOrange50} {FBE9E7}
241 \XCM@definecolor{DeepOrange100} {FFCCBC}
242 \XCM@definecolor{DeepOrange200} {FFAB91}
243 \XCM@definecolor{DeepOrange300} {FF8A65}
244 \XCM@definecolor{DeepOrange400} {FF7043}
245 \XCM@definecolor{DeepOrange500} {FF5722}
246 \XCM@definecolor{DeepOrange600} {F4511E}
247 \XCM@definecolor{DeepOrange700} {E64A19}
248 \XCM@definecolor{DeepOrange800} {D84315}

```

```

249 \XCM@definecolor{DeepOrange900} {BF360C}
250 \XCM@definecolor{DeepOrangeA100}{FF9E80}
251 \XCM@definecolor{DeepOrangeA200}{FF6E40}
252 \XCM@definecolor{DeepOrangeA400}{FF3D00}
253 \XCM@definecolor{DeepOrangeA700}{DD2C00}
254 \definecolor{\XCM@prefix DeepOrange}{named}{\XCM@prefix DeepOrange500}

```

8.17 Brown

```

255 \XCM@definecolor{Brown50} {EFEBE9}
256 \XCM@definecolor{Brown100}{D7CCC8}
257 \XCM@definecolor{Brown200}{BCAAA4}
258 \XCM@definecolor{Brown300}{A1887F}
259 \XCM@definecolor{Brown400}{8D6E63}
260 \XCM@definecolor{Brown500}{795548}
261 \XCM@definecolor{Brown600}{6D4C41}
262 \XCM@definecolor{Brown700}{5D4037}
263 \XCM@definecolor{Brown800}{4E342E}
264 \XCM@definecolor{Brown900}{3E2723}
265 \definecolor{\XCM@prefix Brown}{named}{\XCM@prefix Brown500}

```

8.18 Grey

```

266 \XCM@definecolor{Grey50} {FAFafa}
267 \XCM@definecolor{Grey100}{F5F5F5}
268 \XCM@definecolor{Grey200}{EEEEEE}
269 \XCM@definecolor{Grey300}{E0E0E0}
270 \XCM@definecolor{Grey400}{BDBDBD}
271 \XCM@definecolor{Grey500}{9E9E9E}
272 \XCM@definecolor{Grey600}{757575}
273 \XCM@definecolor{Grey700}{616161}
274 \XCM@definecolor{Grey800}{424242}
275 \XCM@definecolor{Grey900}{212121}
276 \definecolor{\XCM@prefix Grey}{named}{\XCM@prefix Grey500}

```

8.19 Blue Grey

```

277 \XCM@definecolor{BlueGrey50} {ECEFF1}
278 \XCM@definecolor{BlueGrey100}{CFD8DC}
279 \XCM@definecolor{BlueGrey200}{BOBEC5}
280 \XCM@definecolor{BlueGrey300}{90A4AE}
281 \XCM@definecolor{BlueGrey400}{78909C}
282 \XCM@definecolor{BlueGrey500}{607D8B}
283 \XCM@definecolor{BlueGrey600}{546E7A}
284 \XCM@definecolor{BlueGrey700}{455A64}
285 \XCM@definecolor{BlueGrey800}{37474F}
286 \XCM@definecolor{BlueGrey900}{263238}
287 \definecolor{\XCM@prefix BlueGrey}{named}{\XCM@prefix BlueGrey500}

```

8.20 Black & White

```

288 \XCM@definecolor{Black}{000000}
289 \XCM@definecolor{White}{FFFFFF}

```

8.21 Google colors

The Google Identity colors are available at <https://design.google.com/articles/evolving-the-google-identity>.


```

290 \definecolor{GoogleBlue} {HTML}{4285F4}
291 \definecolor{GoogleGreen} {HTML}{34A853}
292 \definecolor{GoogleYellow}{HTML}{FBB03B}
293 \definecolor{GoogleRed} {HTML}{EA4335}

```

9 User-level macros

`\XCM@extractcolor` An internal macro to extract and convert color values.

```

294 \newcommand{\XCM@extractcolor}[2]{%
295   \extractcolorspecs{#1}{\model}{\colorval}%
296   \convertcolorspec{\model}{\colorval}{#2}\extractedcolor
297   \extractedcolor
298 }

```

`\printcolorvalue` A user level macro to provide color values formatted in three different color models: **HTML**, **RGB**, and **CMYK**. The default value for the color model is **HTML**, that provides color values in hexadecimal format.

```

299 \newcommand*\printcolorvalue[2][HTML]{%
300   \edef\XCM@requiredModel{#1}%
301   \def\XCM@HTMLModel{HTML}%
302   \def\XCM@RGBModel{RGB}%
303   \def\XCM@CMYKModel{cmyk}%
304   \ifx\XCM@requiredModel\XCM@HTMLModel
305     \#\XCM@extractcolor{#2}{#1}%
306   \else\ifx\XCM@requiredModel\XCM@RGBModel
307     rgb\XCM@extractcolor{#2}{#1}%
308   \else\ifx\XCM@requiredModel\XCM@CMYKModel
309     cmyk\XCM@extractcolor{#2}{#1}%
310   \else\fi\fi\fi
311 }

```

`\colorsample` A user level macro for drawing color samples. It draws a `colorbox` with the specified color and value. By default the color model is **HTML**, the text color is **white**, and the colorbox width is 6.5em.

```

312 \def\colorsample{%
313   \@ifnextchar[%
314     {\XCM@colorsample@i}
315     {\XCM@colorsample@i[HTML]}}%
316 }
317 \def\XCM@colorsample@i[#1]{%
318   \@ifnextchar[%
319     {\XCM@colorsample@ii{#1}}
320     {\XCM@colorsample@ii{#1}[6.5em]}}%
321 }
322 \def\XCM@colorsample@ii#1[#2]{%
323   \@ifnextchar[%
324     {\XCM@colorsample@iii{#1}{#2}}
325     {\XCM@colorsample@iii{#1}{#2}[white]}}%
326 }
327 \def\XCM@colorsample@iii#1#2[#3]#4{%
328   \@ifnextchar[%
329     {\XCM@colorsample@iv{#1}{#2}{#3}{#4}}

```

```

330   {\XCM@colorssample@iv{#1}{#2}{#3}{#4}{#4}}%
331 }
332 \def\XCM@colorssample@iv#1#2#3#4[#5]{%
333   \def\XCM@temp{#2}\ifx\XCM@temp\empty
334     \def\XCM@boxwidth{6.5em}%
335   \else
336     \def\XCM@boxwidth{#2}%
337   \fi
338   \selectcolormodel{#1}
339   \colorbox{#4}{%
340     \hspace*{.3em}
341     \parbox[b][9\baselineskip]{\XCM@boxwidth}{%
342       \footnotesize\bfseries\sffamily\color{#3}
343       \vspace*{.7em}
344       \raggedright#5%
345       \vfill
346       \raggedright\texttt{\printcolorvalue[#1]{#4}}
347       \vspace*{.7em}
348     }
349     \hspace*{.3em}
350   }
351 }

```

xcolor-material provides some macro definitions at begin document.

```
352 \AtBeginDocument{
```

There is a macro definition that is built on top of the PGF/TikZ package. This definition works if such package is loaded in the main document.

```
353 \@ifpackageloaded{tikz}{%
```

When PGF/TikZ is loaded, a macro with key-value options is provided using the `\pgfkeys` tools. Those key-value macro arguments are optional, the default value of each one is defined by the `/palette/both` style.

```

354 \pgfkeys{/palette/.is family, /palette,
355   width/.estore in = \XCM@pltWidth,
356   height/.estore in = \XCM@pltHeight,
357   shape/.estore in = \XCM@pltShape,
358   title/.estore in = \XCM@pltTitle,
359   title text color/.estore in = \XCM@pltTTextColor,
360   init text color/.estore in = \XCM@pltITextColor,
361   altern text color/.estore in = \XCM@pltATextColor,
362   variation font/.store in = \XCM@pltVFont,
363   value font/.store in = \XCM@pltNFont,
364   title font/.store in = \XCM@pltTFont,
365   colorbox sep/.estore in = \XCM@pltColorboxSep,
366   first colorbox sep/.estore in = \XCM@pltFirstCSep,
367   title colorbox height/.estore in = \XCM@pltTitleHeight,
368   primary palette/.estore in = \XCM@pltPrimary,
369   secondary palette/.estore in = \XCM@pltSecondary,
370   percent char/.estore in = \XCM@pltPercentSep,
371   primary variation/.estore in = \XCM@pltPrimaryBase,
372   primary toggle at/.estore in = \XCM@pltPToggle,
373   secondary toggle at/.estore in = \XCM@pltSToggle,
374   color model/.estore in = \XCM@ColorModel,
375   both/.style = {width = .45\textwidth,

```

```

376 height = 2\baselineskip,
377 shape = rectangle,
378 title text color = white,
379 init text color = black,
380 altern text color = white,
381 colorbox sep = Opt,
382 first colorbox sep = .2\baselineskip,
383 title colorbox height = 6\baselineskip,
384 variation font = \sffamily,
385 value font = \ttfamily,
386 title font = \sffamily\bfseries,
387 primary palette = {50,100,200,...,900},
388 secondary palette = {A100,A200,A400,A700},
389 percent char = {},
390 primary variation = 500,
391 primary toggle at = 1000,
392 secondary toggle at = 1000,
393 color model = HTML},
394 primary/.style = {primary palette = {50,100,200,...,900},
395 secondary palette={},
396 primary variation = 500,
397 percent char={}},
398 basic/.style = {primary palette = {10,20,...,100},
399 secondary palette={},
400 primary variation = 100,
401 percent char=!}
402 }

```

The positioning library of PGF/TikZ is loaded to provide convenient node placement.

```
403 \usetikzlibrary{positioning}
```

`\colorpalette` A macro for drawing color palettes using PGF/TikZ. It takes one mandatory argument (*base color name*) and optional key-value arguments.

```

404 \newcommand*\colorpalette[2] [] {%
405   \def\XCM@pltTitle{#2}%
406   \def\XCM@colorname{#2}%
407   \pgfkeys{/palette, both, #1}%
408   \begin{tikzpicture}
409     \selectcolormodel{\XCM@ColorModel}
410     \tikzset{colorbox/.style={\XCM@pltShape, minimum width=\XCM@pltWidth,
411       minimum height=\XCM@pltHeight, node distance=\XCM@pltColorboxSep,
412       outer sep=Opt}}
413     \tikzset{title/.style = {font=\XCM@pltTFont, color=\XCM@pltTTextColor,
414       inner sep=1em}}
415     \tikzset{variant/.style = {font=\XCM@pltVFont, inner sep=1em}}
416     \tikzset{value/.style = {font=\XCM@pltNFont, inner sep=1em}}
417     \node[colorbox, fill=\XCM@colorname\XCM@pltPercentSep\XCM@pltPrimaryBase,
418       minimum height=\XCM@pltTitleHeight, alias=last] {};
419     \node[title, anchor=north west, align=left] at (last.north west)
420       {\XCM@pltTitle};
421     \node[title, anchor=south west] at (last.south west) {\XCM@pltPrimaryBase};
422     \node[title, anchor=south east, align=right] at (last.south east)
423       {\texttt{\printcolorvalue[\XCM@ColorModel]{\XCM@colorname%

```

```

424     \XCM@pltPercentSep\XCM@pltPrimaryBase}}};
425 \def\auxcolor{\XCM@pltITextColor}%
426 \def\first{1}%
427 \foreach \variant [count=\i] in \XCM@pltPrimary {
428     \ifx\i\first
429         \node[node distance=\XCM@pltFirstCSep, inner sep=0pt, below=of last,
430             alias=last] {};
431     \else\fi
432     \ifx\variant\XCM@pltPToggle
433         \gdef\auxcolor{\XCM@pltATextColor}%
434     \else\fi
435     \node[colorbox, fill=\XCM@colorname\XCM@pltPercentSep\variant,
436         below=of last, alias=last] {};
437     \node[variant, anchor=west, color=\auxcolor] at (last.west) {\variant};
438     \node[value, anchor=east, color=\auxcolor, align=right] at (last.east)
439         {\printcolorvalue[\XCM@ColorModel]{\XCM@colorname%
440             \XCM@pltPercentSep\variant}};
441     }%
442 \def\auxcolor{\XCM@pltITextColor}%
443 \foreach \variant [count=\i] in \XCM@pltSecondary {
444     \ifx\i\first
445         \node[node distance=\XCM@pltFirstCSep, inner sep=0pt, below=of last,
446             alias=last] {};
447     \else\fi
448     \ifx\variant\XCM@pltSToggle
449         \gdef\auxcolor{\XCM@pltATextColor}%
450     \else\fi
451     \node[colorbox, fill=\XCM@colorname\XCM@pltPercentSep\variant,
452         below=of last, alias=last] {};
453     \node[variant, anchor=west, color=\auxcolor] at (last.west) {\variant};
454     \node[value, anchor=east, color=\auxcolor, align=right] at (last.east)
455         {\printcolorvalue[\XCM@ColorModel]{\XCM@colorname%
456             \XCM@pltPercentSep\variant}};
457     }%
458 \end{tikzpicture}%
459 }

460 }{}
461 }

```

That's all!

Change History

v0.1

General: Initial package version . . . 1

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