

# Package ‘simplecolors’

October 27, 2020

**Title** Access Color Names Using a Standardized Nomenclature

**Version** 0.1.1

**Description** A curated set of colors that are called using a standardized syntax: saturation + hue + lightness. For example, “brightblue4” and “mutedred2”. Functions exist to return individual colors by name or to build palettes across or within hues. Most functions allow you to visualize the palettes in addition to returning the desired hex codes.

**Depends** R (>= 3.1.0)

**Imports** colorspace, dplyr, forcats, ggplot2, magrittr, stats, stringr

**Suggests** knitr, rmarkdown, testthat, covr, devtools, spelling

**License** GNU General Public License

**URL** <https://github.com/rjake/simplecolors>

**BugReports** <https://github.com/rjake/simplecolors/issues>

**Language** en-US

**LazyData** true

**VignetteBuilder** knitr

**RoxygenNote** 7.1.0.9000

**Encoding** UTF-8

**NeedsCompilation** no

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**Repository** CRAN

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color_table	<i>Table of available colors</i>
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## Description

This is a list of simplified color names

## Usage

color\_table

## Format

A data frame with 200 observations and 15 variables

**H360** hue on a 0-360 scale

**L1** lightness on a 0-1 scale

**S1** saturation on a 0-1 scale

**light** the light value used in the package, 0-7

**color** the base color name (hue), red, cyan, etc.

**letter** the first letter of the color, for building palettes

**sat** the saturation value used in the package, "bright", "muted", "dull", or blank ""

**color\_sat** the color + the saturation, ex: "brightblue", "dullred"

**color\_name** the final unique name: color\_sat + lightness, ex: "brightblue2", "mutedorange3"

**H1** hue on a 0-1 scale

**hex** the hex code of the color

**R** the red of the RGB value

**G** the green of the RGB value

**B** the blue of the RGB value

**H255** for convenience as some HLS selection tools use a 0-255 scale

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sc *Specify color(s) by name*

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**Description**

Specify color(s) by name

**Usage**

```
sc(...)
```

**Arguments**

... the unique color names used in the package, ex: "brightred5", "grey4", "dull-blue2"

**Examples**

```
sc("violet4", "brightteal3")
```

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sc\_across *Generates a palette within across hues*

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**Description**

Generates a palette within across hues

**Usage**

```
sc_across(palette = "ROYGTBVPgy", light = 3, sat = "", return = NULL)
```

**Arguments**

palette the first letter of each hue to include  
 light the lightness value to hold constant (1:7)  
 sat the saturation value to hold constant ("bright", "muted", "dull", "")  
 return defaults to returning hex codes but can also return a table or plot of the generated palette

**See Also**

Other palettes: [sc\\_within\(\)](#)

**Examples**

```

sc_across(palette = "B0")
sc_across(palette = "B0", sat = "bright", return = "table")
sc_across(palette = "B0", sat = "bright", return = "plot")
sc_across(palette = "RBTVPgy", light = 4, return = "plot")

```

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sc_within	<i>Generates a palette within 1 hue</i>
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**Description**

Generates a palette within 1 hue

**Usage**

```

sc_within(hue, light = c(2:5), sat = "", return = NULL)

sc_red(light = 2:5, sat = "", return = NULL)

sc_orange(light = 2:5, sat = "", return = NULL)

sc_yellow(light = 2:5, sat = "", return = NULL)

sc_green(light = 2:5, sat = "", return = NULL)

sc_teal(light = 2:5, sat = "", return = NULL)

sc_blue(light = 2:5, sat = "", return = NULL)

sc_violet(light = 2:5, sat = "", return = NULL)

sc_pink(light = 2:5, sat = "", return = NULL)

sc_grey(light = 2:5, sat = "", return = NULL)

```

**Arguments**

hue	ex: "red", "blue", "violet"
light	the lightness of the color, ex: 1:5
sat	the saturation of the color, ex: "bright", "muted", "dull" or "" (base)
return	defaults to returning hex codes but can also return a table or plot of the generated palette

**See Also**

Other palettes: [sc\\_across\(\)](#)

**Examples**

```
sc_within("violet", 1:3)
sc_within("violet", 1:5, "bright" , return = "table")
sc_within("violet", 2:4, c("bright", "muted"), return = "plot")
```

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show_colors	<i>Show all available colors</i>
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**Description**

Plots the `color_table` values.

**Usage**

```
show_colors(labels = FALSE)
```

**Arguments**

`labels` logical TRUE (default) will plot the color with color names, FALSE will plot the colors only

**Value**

ggplot

**Examples**

```
show_colors()
```

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simplecolors	<i>simplecolors: A package for accessing color names using a standardized nomenclature</i>
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**Description**

The simplecolors package provides two categories of functions: color names and color palettes

**Color names**

The `sc()` function is the main way to access color names. Colors can be called by including them as comma separated string values. For example: `sc("brightblue4", "mutedred2")`

**Color palettes**

There are several functions that are prefixed with "sc\_". These generate palettes of colors and can return hex codes (default), a table, or a plot showing the colors selected.

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