

# Package ‘simplecolors’

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

**Version** 0.1.4

**Description** A curated set of colors that are called using a standardized syntax: saturation + hue + lightness. For example, ``brightblue4" and ``mutedred2". Functions exists 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.

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

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

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

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

**Depends** R (>= 3.1.0)

**License** GNU General Public License

**VignetteBuilder** knitr

**Language** en-US

**LazyData** true

**RoxygenNote** 7.3.2

**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

---

sc *Specify color(s) by name*

---

**Description**

Specify color(s) by name

**Usage**

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

**Arguments**

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

**Value**

a vector of hex codes

**Examples**

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

---

sc\_across *Generates a palette within across hues*

---

**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

**Value**

can return a vector of hex codes, a table or a plot

**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")
```

---

sc\_within

*Generates a palette within 1 hue*

---

**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

**Value**

can return a vector of hex codes, a table or a plot

**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")
```

---

show\_colors

*Show all available colors*

---

**Description**

Plots all available color values.

**Usage**

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

**Arguments**

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

Labels can be added by using the argument labels = TRUE

**Value**

Returns a ggplot object

**Examples**

```
show_colors()
```

---

simplecolors

*simplecolors: A package for accessing color names using a standardized nomenclature*

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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.

## Author(s)

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## See Also

Useful links:

- <https://github.com/rjake/simplecolors>
- <https://rjake.github.io/simplecolors/>
- Report bugs at <https://github.com/rjake/simplecolors/issues>

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