

# Package: crayons (via r-universe)

July 25, 2024

**Title** Color Palettes from Crayon Boxes

**Version** 0.0.3

**Description** Provides color palettes based on crayon colors since the early 1900s. Colors are based on various crayon colors, sets, and promotional palettes, most of which can be found at [https://en.wikipedia.org/wiki/List\\_of\\_Crayola\\_crayon\\_colors](https://en.wikipedia.org/wiki/List_of_Crayola_crayon_colors). All palettes are discrete palettes and are not necessarily color-blind friendly. Provides scales for 'ggplot2' for discrete coloring.

**License** MIT + file LICENSE

**Encoding** UTF-8

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.3.1

**URL** <https://github.com/christopherkenny/crayons>,  
<http://christophertkenny.com/crayons/>

**BugReports** <https://github.com/christopherkenny/crayons/issues>

**Imports** ggplot2, grDevices, palette

**Repository** <https://christopherkenny.r-universe.dev>

**RemoteUrl** <https://github.com/christopherkenny/crayons>

**RemoteRef** HEAD

**RemoteSha** 1ac3b8f6a58598db5128b07233d03a22b11ea8e3

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crayons

*Crayons Color Palettes*

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### Description

Crayon colors, based on common Crayola colors. Palettes build from [Wikipedia](#)

### Usage

crayons

### Format

list of [palette::palette](#) vectors

### Details

Included palettes:

- **billionth**, celebrates the 100 billionth crayon
- **color\_n\_smell**, scented colors
- **colors\_of\_the\_world**, additional human colors
- **construction\_paper**, colors for construction paper
- **fluorescent**, neon colors
- **gel\_fx**, gel colors
- **gem\_tones**, gemstones
- **heads\_n\_tails**, double sided colors
- **magic\_scent**, scented colors
- **metallic\_fx**, metal colors
- **mini\_twistables**, colors, but twistable
- **modern**, historical colors since 1990
- **munsell**, historical colors 1926-1944
- **multicultural**, skin colors
- **no\_48**, historical crayons 48-pack in 1949
- **no\_64**, historical crayons 64-pack in 1958
- **original**, historical crayons original in 1903
- **pearl**, updated perlescent colors
- **pearl\_brite**, pearlescent colors
- **silly\_scents**, scented in reality but not in R
- **silver\_swirls**, colors with a tinge of silver
- **standard**, a large set of standard colors

- **standard16**, colors for a 16 pack of crayons
- **standard24**, colors for a 24 pack of crayons
- **standard32**, colors for a 32 pack of crayons
- **standard64**, colors for a 64 pack of crayons
- **star\_brite**, colors from 1997

### Examples

```
plot(crayons$billionth)
plot(crayons$color_n_smell)
plot(crayons$colors_of_the_world)
plot(crayons$construction_paper)
plot(crayons$fluorescent)
plot(crayons$gel_fx)
plot(crayons$gem_tones)
plot(crayons$heads_n_tails)
plot(crayons$magic_scent)
plot(crayons$metallic_fx)
plot(crayons$mini_twistables)
plot(crayons$modern)
plot(crayons$munsell)
plot(crayons$multicultural)
plot(crayons$no_48)
plot(crayons$no_64)
plot(crayons$original)
plot(crayons$pearl)
plot(crayons$pearl_brite)
plot(crayons$silly_scents)
plot(crayons$silver_swirls)
plot(crayons$standard)
plot(crayons$standard16)
plot(crayons$standard24)
plot(crayons$standard32)
plot(crayons$standard64)
plot(crayons$star_brite)
```

### Description

- `pick_colors()` places each color into RGB space, clusters them with k-means, and returns the colors nearest each cluster center.
- `color_order()` reorders colors so that subsequent colors are far from each other in RGB space.
- `color_distance()` calculates pairwise distances in RGB space between colors.

**Usage**

```
pick_colors(hex, n)

color_distance(hex)

color_order(hex)
```

**Arguments**

hex	a character vector of hexadecimal colors
n	the integer number of desired colors

**Value**

a character vector that is a subset of hex, or a matrix of distances for color\_distance()

**Examples**

```
pick_colors(crayons$standard, 10)
color_order(crayons$standard)
color_distance(crayons$standard[1:4])
```

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scale\_color\_crayons *Crayon Color Scales for ggplot2*

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**Description**

Crayon Color Scales for ggplot2

**Usage**

```
scale_color_crayons(palette = "standard16", which = NULL, ..., reverse = FALSE)

scale_fill_crayons(palette = "standard16", which = NULL, ..., reverse = FALSE)

scale_colour_crayons(
  palette = "standard16",
  which = NULL,
  ...,
  reverse = FALSE
)
```

**Arguments**

palette	palette from names(crayons) to use
which	numeric indices of colors to use. NULL by default.
...	arguments passed on to ggplot2::discrete_scale()
reverse	Should the vector be reversed? Default is FALSE.

**Value**

A [ggplot2::Scale](#)

**Examples**

```
library(ggplot2)
ggplot2::mpg |>
  ggplot() +
    geom_point(aes(displ, hwy, colour = class)) +
    scale_color_crayons(palette = 'original')
```

```
ggplot2::mpg |>
  ggplot() +
    geom_point(aes(displ, hwy, fill = class), pch = 23, color = 'transparent') +
    scale_fill_crayons(palette = 'original')
```

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