

# Package ‘rcartocolor’

February 8, 2018

**Title** 'CARTOCOLORS' Palettes

**Version** 0.0.22

**Description** Provides color schemes for maps and other graphics designed by 'CARTO' as described at <<https://carto.com/carto-colors/>>. It includes four types of palettes: aggregation, diverging, qualitative, and quantitative.

**Depends** R (>= 3.1.0)

**Imports** ggplot2, scales

**URL** <https://github.com/Nowosad/rcartocolor>

**BugReports** <https://github.com/Nowosad/rcartocolor/issues>

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 6.0.1

**Suggests** covr, MASS, testthat, vdiff, sf, spData

**NeedsCompilation** no

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**Repository** CRAN

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cartocolors	<i>CARTOCOLORS database</i>
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**Description**

A dataset containing the information about the CARTOcolor palettes. Source: <https://github.com/CartoDB/CartoColor/blob/n>

**Usage**

```
cartocolors
```

**Format**

A data frame with 32 rows and 12 variables:

- Name: palette name
- Type: palette type
- n2 to n11: list of the color values depending on the number of colors used (between two and twelve)

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carto_pal	<i>CARTOcolor palettes</i>
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**Description**

Creates a color palette from CARTOcolor

**Usage**

```
carto_pal(n = NULL, name)
```

**Arguments**

n	Number of different colors in the palette, minimum depending on palette (2 or 3), maximum depending on palette (7 or 11)
name	A palette name

**Value**

A character vector

**Examples**

```
my_colors = carto_pal(7, "Burg")
```

---

display\_carto\_all      *CARTOcolor palettes viewer*

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**Description**

Displays a set of color palettes from CARTOcolor

**Usage**

```
display_carto_all(n = NULL, type = "all")
```

**Arguments**

n	Number of different colors in the palette, minimum depending on palette (2 or 3), maximum depending on palette (7 or 11)
type	Type of the palette, could be "quantitative", "diverging", "qualitative", "aggregation", or "all"

**Value**

A character vector

**Examples**

```
display_carto_all()
display_carto_all(type = "quantitative")
display_carto_all(type = c("diverging", "qualitative", "aggregation"))
display_carto_all(3, type = "quantitative")
display_carto_all(7, type = "quantitative")
```

---

display\_carto\_pal      *CARTOcolor palette viewer*

---

**Description**

Displays a color palette from CARTOcolor

**Usage**

```
display_carto_pal(n = NULL, name)
```

**Arguments**

n	Number of different colors in the palette, minimum depending on palette (2 or 3), maximum depending on palette (7 or 11)
name	A palette name

**Value**

A character vector

**Examples**

```
display_carto_pal(7, "Burg")
```

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metacartocolors	<i>CARTOColors database metadata</i>
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**Description**

A dataset containing the information about the CARTOcolor palettes. Source: <https://github.com/CartoDB/CartoColor/blob/n>

**Usage**

```
metacartocolors
```

**Format**

A data frame with 32 rows and 12 variables:

- Name: palette name
- Type: palette type
- Min\_n: minimal number of colors in a given palette
- Max\_n: maximal number of colors in a given palette

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scale_color_carto_c	<i>CARTO color scales</i>
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**Description**

CARTO color scales

**Usage**

```
scale_color_carto_c(..., type = "quantitative", palette = 1,
  direction = 1, na.value = "#e9e9e9", guide = "colourbar")
```

```
scale_color_carto_d(..., type = "qualitative", palette = 1, direction = 1,
  na.value = "#e9e9e9")
```

```
scale_colour_carto_c(..., type = "quantitative", palette = 1,
  direction = 1, na.value = "#e9e9e9", guide = "colourbar")
```

```
scale_colour_carto_d(..., type = "qualitative", palette = 1,
  direction = 1, na.value = "#e9e9e9")
```

```
scale_fill_carto_c(..., type = "quantitative", palette = 1, direction = 1,
  na.value = "#e9e9e9", guide = "colourbar")
```

```
scale_fill_carto_d(..., type = "qualitative", palette = 1, direction = 1,
  na.value = "#e9e9e9")
```

## Arguments

...	Other arguments passed on to <a href="#">discrete_scale()</a> or <a href="#">continuous_scale()</a> to control name, limits, breaks, labels and so forth
type	One of "aggregation", "diverging", "qualitative", or "quantitative"
palette	If a string, will use that named palette. If a number, will index into the list of palettes of appropriate type
direction	Sets the order of colors in the scale. If 1, the default, colors are as output by <a href="#">carto_pal()</a> . If -1, the order of colors is reversed
na.value	Missing values will be replaced with this value.
guide	A function used to create a guide or its name. See <a href="#">guides()</a> for more info.

## Examples

```
library(ggplot2)

ggplot(msleep, aes(vore, sleep_total, fill = vore)) +
  geom_boxplot() +
  scale_fill_carto_d(palette = 6, direction = -1)

## Not run:
# devtools::install_github("tidyverse/ggplot2")
library(sf)
library(spData)
library(ggplot2)
ggplot(world, aes(fill = lifeExp)) +
  geom_sf(data = world) +
  coord_sf(crs = "+proj=robin") +
  scale_fill_carto_c(name = "Life expectancy: ",
    type = "diverging", palette = "Fall", direction = -1) +
  theme_void()

ggplot(world, aes(fill = region_un)) +
  geom_sf(data = world) +
  coord_sf(crs = "+proj=robin") +
  scale_fill_carto_d(name = "Region: ", palette = "Prism") +
  theme_void()

## End(Not run)
```

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