Package 'rcartocolor'

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Title 'CARTOColors' Palettes

Version 2.1.2

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 (>= 3.4)

Imports ggplot2, scales

URL https://github.com/Nowosad/rcartocolor, https://jakubnowosad.com/rcartocolor/

BugReports https://github.com/Nowosad/rcartocolor/issues

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Encoding UTF-8

LazyData true

RoxygenNote 7.3.2

Suggests covr, MASS, testthat, vdiffr, sf, spData

NeedsCompilation no

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Repository CRAN

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Contents

`cartocolors` *CARTOColors database*

Description

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

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)

`carto_pal` *CARTOcolor palettes*

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
`...`	Additional arguments for grDevices::colorRampPalette

Value

A character vector

Examples

```
my_colors1 = carto_pal(7, "Burg")
my_colors1

my_colors2 = carto_pal(17, "Burg")
my_colors2

my_colors3 = carto_pal(17, "Safe")
my_colors3
```

`display_carto_all` *CARTOcolor palettes viewer*

Description

Displays a set of the color palettes from CARTOcolor

Usage

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

Arguments

`n`	Number of different colors in the palette, minimum depending on the palette (2 or 3), maximum depending on the palette (7 or 11)
`type`	Type of the palette, can be "quantitative", "diverging", "qualitative", "aggregation", or "all"
`colorblind_friendly`	if TRUE, display only colorblind friendly palettes

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_all(7, colorblind_friendly = TRUE)
display_carto_all(7, type = c("diverging", "qualitative", "aggregation"),
  colorblind_friendly = TRUE)
```

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

Examples

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

metacartocolors *CARTOColors database metadata*

Description

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

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
- Colorblind_friendly: is the palette colorblind friendly?

scale_color_carto_c *CARTO color scales*

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 ggplot2::discrete_scale() or ggplot2::continuous_scale() 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 carto_pal(). 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 guides() for more information.

Examples

```
library(ggplot2)

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

## Not run:
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 = "Earth", 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 = "Safe") +
```

```
            theme_void()

    ## End(Not run)
```

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