

Package ‘paletteer’

December 18, 2019

Version 1.0.0

Title Comprehensive Collection of Color Palettes

Description The choices of color palettes in R can be quite overwhelming with palettes spread over many packages with many different API's. This packages aims to collect all color palettes across the R ecosystem under the same package with a streamlined API.

Author See AUTHORS file.

Maintainer Emil Hvitfeldt <emilhhvitfeldt@gmail.com>

License GPL-3

Copyright See LICENSE.note file.

Encoding UTF-8

LazyData true

URL <https://github.com/EmilHvitfeldt/paletteer>

BugReports <https://github.com/EmilHvitfeldt/paletteer/issues>

RoxygenNote 7.0.2

Depends R (>= 2.10)

Imports gameofthrones (>= 1.0.0), ggthemes (>= 4.0.0), jcolors, oompaBase, harrypotter (>= 2.1.0), palr, pals, scico, viridisLite, rlang, glue, rematch2, rstudioapi, prismatic

Suggests covr, testthat (>= 2.1.0), ggplot2, knitr, rmarkdown, vdiff

NeedsCompilation no

Repository CRAN

Date/Publication 2019-12-18 02:10:06 UTC

R topics documented:

ggplot2-scales-continuous	2
paletteer-c-wrapper	3
paletteer_c	4

paletteer_d	4
paletteer_dynamic	5
paletteer_packages	6
palettes_c_names	6
palettes_d	7
palettes_dynamic	7
palettes_dynamic_names	8
palettes_d_names	8
scale_colour_paletteer_d	9
wrapper_c	10

Index	11
--------------	-----------

ggplot2-scales-continuous

Continuous scales to use for ggplot2

Description

These functions provide the option to use continuous palettes along with the ggplot2 package. It goes without saying that it requires ggplot2 to work.

Usage

```
scale_colour_paletteer_c(palette, direction = 1, ...)
```

```
scale_color_paletteer_c(palette, direction = 1, ...)
```

```
scale_fill_paletteer_c(palette, direction = 1, ...)
```

Arguments

`palette` Name of palette as a string. Must be on the form `packagename::palettename`.

`direction` Either 1 or -1. If -1 the palette will be reversed.

`...` Arguments to pass on to `ggplot2::scale_colour_gradientn()` or `ggplot2::scale_fill_gradientn()`.

Details

Available package/palette combinations are available in the data.frame [palettes_c_names](#).

Value

A `ScaleContinuous` object that can be added to a ggplot object

Examples

```
if (require('ggplot2')) {  
  ggplot(iris, aes(x = Sepal.Length, y = Sepal.Width, colour = Petal.Length)) +  
    geom_point() +  
    scale_colour_paletteer_c("scico::tokyo")  
}
```

paletteer-c-wrapper *Wrappers around continuous palette functions by package*

Description

These functions provide a function wrapper for each package such that a palette can be generated using only the name of the desired palette and the length.

Usage

```
paletteer_c_ggthemes(name, n)  
paletteer_c_grDevices(name, n)  
paletteer_c_oompaBase(name, n)  
paletteer_c_palr(name, n)  
paletteer_c_pals(name, n)  
paletteer_c_scico(name, n)  
paletteer_c_viridis(name, n)  
paletteer_c_harrypotter(name, n)  
paletteer_c_gameofthrones(name, n)
```

Arguments

name	Character, name of palette.
n	Integer, number of colors.

Value

Vector of color values from specified palette.

paletteer_c *Get continuous palette by package and name*

Description

Available package/palette combinations are available in the data.frame [palettes_c_names](#).

Usage

```
paletteer_c(palette, n, direction = 1)
```

Arguments

palette	Name of palette as a string. Must be on the form <code>packagename::palettename</code> .
n	Number of colors desired. Must be supplied.
direction	Either 1 or -1. If -1 the palette will be reversed.

Value

A vector of colors.

Examples

```
paletteer_c("scico::berlin", 100)
```

paletteer_d *Get discrete palette by package and name*

Description

Available package/palette combinations are available in the data.frame [palettes_d_names](#).

Usage

```
paletteer_d(palette, n, direction = 1, type = c("discrete", "continuous"))
```

Arguments

palette	Name of palette as a string. Must be on the form <code>packagename::palettename</code> .
n	Number of colors desired. If omitted, returns complete palette.
direction	Either 1 or -1. If -1 the palette will be reversed.
type	Either "discrete" or "continuous". Colors are interpolated if "continuous" is picked. Defaults to "discrete".

Value

A vector of colors.

Examples

```
paletteer_d("nord::frost")
paletteer_d("wesanderson::Royal1", 3)
paletteer_d("Redmonder::dPBIPuOr", 14, type = "continuous")
```

paletteer_dynamic	<i>Get dynamic palette by package and name</i>
-------------------	--

Description

Available package/palette combinations are available in the data.frame [palettes_dynamic_names](#).

Usage

```
paletteer_dynamic(palette, n, direction = 1)
```

Arguments

palette	Name of palette as a string. Must be on the form packagename::palettename.
n	Number of colors desired. If omitted, returns complete palette.
direction	Either 1 or -1. If -1 the palette will be reversed.

Value

A vector of colors.

Examples

```
paletteer_dynamic("ggthemes_solarized::green", 8)
paletteer_dynamic("cartography::sand.pal", 20)
```

paletteer_packages *Names and version information for all packages included*

Description

Names and version information for all packages included

Usage

```
paletteer_packages
```

Format

A data.frame with 3 variables:

Names character, name of package

Github character, name of Github repository

github_ver character, version number on Github

CRAN logical, is package available on CRAN

CRAN_ver character, version number on CRAN

palettes_c_names *Names of all continuous palettes*

Description

A data.frame of the names and other characteristics of the continuous palettes included in this package.

Usage

```
palettes_c_names
```

Format

A data.frame of 315 observations with 3 variables:

package character, name of package

palette character, name of palette

type character, type of palette

Details

Contains palettes names from the following packages: gameofthrones, ggthemes, grDevices, harry-potter, oompaBase, palr, pals, scico and viridis.

`palettes_d`*Complete list of fixed discrete palettes*

Description

A list of all the discrete palettes of fixed lengths included in this package. Structured as a list of lists with the first level being each package and the second level being the palettes available in that package.

Usage`palettes_d`**Format**

A list of 43 lists.

Details

Contains palettes from the following packages: awtools, basetheme, calecopal, colorblindr, colRoz, dichromat, dutchmasters, DresdenColor, fishualize, ggsci, ggpomological, ggthemes, ggthemr, ghibli, grDevices, IslamicArt, jcolors, LaCroixColor, lisa, nationalparkcolors, NineteenEightyR, nord, ochRe, pals, palettesForR_pals, Polychrome, MapPalettes, miscpalettes, PNWColors, rcartocolor, RColorBrewer, Redmonder, RSkittleBrewer, tidyquant, trekcolors, tvthemes, unikn, vapeplot, vapoRwave, werpals, wesanderson and yarr.

data.frame of palette names can be found here [palettes_d_names](#).

`palettes_dynamic`*Complete list of dynamic palettes*

Description

A list of all the dynamic palettes included in this package. Structured as a list of lists with the first level being each package and the second level being the palettes available in that package, and the third level being the palettes for various lengths.

Usage`palettes_dynamic`**Format**

A list of 3 lists.

Details

Contains palettes from the following packages: cartography and ggthemes.

Full list of palette names can be found here [palettes_dynamic_names](#).

palettes_dynamic_names

Names of all fixed discrete palettes

Description

A data.frame of the names and other characteristics of the dynamic palettes included in this package.

Usage

```
palettes_dynamic_names
```

Format

A data.frame of 25 observations with 4 variables:

package character, name of package

palette character, name of palette

length integer, maximal number of colors in palette

type character, type of palette

Details

Contains palettes from the following packages: cartography and ggthemes.

Full list of palette can be found here [palettes_dynamic](#).

palettes_d_names

Names of all fixed discrete palettes

Description

A data.frame of the names and other characteristics of the discrete palettes of fixed lengths included in this package.

Usage

```
palettes_d_names
```


Format

A data.frame of 1419 observations with 4 variables:

package character, name of package

palette character, name of palette

length integer, number of colors in palette

type character, type of palette

Details

Contains palettes names from the following packages: awtools, basetheme, calecopal, colorblindr, colRoz, dichromat, dutchmasters, DresdenColor, fishualize, ggsci, ggpomological, ggthemes, ggthemr, ghibli, grDevices, IslamicArt, jcolors, LaCroixColor, lisa, nationalparkcolors, NineteenEightyR, nord, ochRe, pals, palettesForR_pals, Polychrome, MapPalettes, miscpalettes, PNWColors, rcartocolor, RColorBrewer, Redmonder, RSkittleBrewer, tidyquant, trekcolors, tvthemes, unikn, vapoRwave, vapoRwave, werpals, wesanderson and yarr.

Full list of palette can be found here [palettes_d](#).

scale_colour_paletteer_d

Discrete scales to use for ggplot2

Description

These functions provide the option to use the discrete and dynamic palettes along with the ggplot2 package. It goes without saying that it requires ggplot2 to work.

Usage

```
scale_colour_paletteer_d(palette, direction = 1, dynamic = FALSE, ...)
```

```
scale_color_paletteer_d(palette, direction = 1, dynamic = FALSE, ...)
```

```
scale_fill_paletteer_d(palette, direction = 1, dynamic = FALSE, ...)
```

Arguments

palette Name of palette as a string. Must be on the form packagename::palettename.

direction Either 1 or -1. If -1 the palette will be reversed.

dynamic toggles between the discrete palettes and the dynamic palettes. Defaults to FALSE which indicates discrete palettes.

... additional arguments to pass to discrete_scale

Details

Available package/palette combinations are available in the data.frame [palettes_d_names](#) and [palettes_dynamic_names](#).

Examples

```
if (require('ggplot2')) {  
  ggplot(iris, aes(x = Sepal.Length, y = Sepal.Width, colour = Species)) +  
    geom_point() +  
    scale_colour_paletteer_d("nord::frost")  
}
```

wrapper_c

List of all wrapper functions used in paletteer_c

Description

List of all wrapper functions used in paletteer_c

Usage

```
wrapper_c
```

Format

Named list of all wrapper functions

Index

*Topic **datasets**

- paletteer_packages, 6
 - palettes_c_names, 6
 - palettes_d, 7
 - palettes_d_names, 8
 - palettes_dynamic, 7
 - palettes_dynamic_names, 8
 - wrapper_c, 10
- ggplot2-scales-continuous, 2
- paletteer-c-wrapper, 3
- paletteer_c, 4
- paletteer_c_gameofthrones
(paletteer-c-wrapper), 3
- paletteer_c_ggthemes
(paletteer-c-wrapper), 3
- paletteer_c_grDevices
(paletteer-c-wrapper), 3
- paletteer_c_harrypotter
(paletteer-c-wrapper), 3
- paletteer_c_oompaBase
(paletteer-c-wrapper), 3
- paletteer_c_palr (paletteer-c-wrapper), 3
- paletteer_c_pals (paletteer-c-wrapper), 3
- paletteer_c_scico (paletteer-c-wrapper),
3
- paletteer_c_viridis
(paletteer-c-wrapper), 3
- paletteer_d, 4
- paletteer_dynamic, 5
- paletteer_packages, 6
- palettes_c_names, 2, 4, 6
- palettes_d, 7, 9
- palettes_d_names, 4, 7, 8, 10
- palettes_dynamic, 7, 8
- palettes_dynamic_names, 5, 8, 8, 10
- scale_color_paletteer_c
(ggplot2-scales-continuous), 2
- scale_color_paletteer_d
(scale_colour_paletteer_d), 9
- scale_colour_paletteer_c
(ggplot2-scales-continuous), 2
- scale_colour_paletteer_d, 9
- scale_fill_paletteer_c
(ggplot2-scales-continuous), 2
- scale_fill_paletteer_d
(scale_colour_paletteer_d), 9
- wrapper_c, 10