Package 'paletteer'

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Title Comprehensive Collection of Color Palettes

Version 1.5.0

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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.

License GPL-3

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

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

Depends R (>= 2.10)

Imports prismatic, rematch2, rlang, rstudioapi

Suggests covr, ggplot2 (>= 3.3.0), ggthemes (>= 4.0.0), harrypotter
(>= 2.1.0), knitr, oompaBase, palr, pals, rmarkdown, scico,
testthat (>= 2.1.0), vdiffr, viridisLite

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R topics documented:

`ggplot2-scales-binned`   *Binned scales to use for ggplot2*

Description

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

Usage

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

scale_color_paletteer_binned(palette, direction = 1, ...)

scale_fill_paletteer_binned(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_stepsn()` or `ggplot2::scale_fill_stepsn()`

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

```
library(ggplot2)
ggplot(iris, aes(x = Sepal.Length, y = Sepal.Width, colour = Petal.Length)) +
  geom_point() +
  scale_colour_paletteer_binned("scico::tokyo")
```

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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

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

---

paleteer-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)
```

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 packagename::palettename.
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 packagename::palettename.
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	*Get dynamic palette by package and name*

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 319 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: ggthemes, grDevices, harrypotter, oompaBase, palr, pals, scico, 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 62 lists.

Details

Contains palettes from the following packages: DresdenColor, IslamicArt, LaCroixColoR, Manu, MapPalettes, MetBrewer, NatParksPalettes, NineteenEightyR, PNWColors, Polychrome, RColorBrewer, RSkittleBrewer, Redmonder, awtools, basetheme, beyonce, calecopal, colRoz, colorBlindness, colorblindr, dichromat, dutchmasters, feathers, fishualize, futurevisions, ggpomological, ggprism, ggsci, ggthemes, ggthemr, ghibli, grDevices, impressionist.colors, jcolors, khroma, lisa, miscpalettes, musculusColors, nationalparkcolors, nbapalettes, nord, ochRe, palettesForR, palettetown, pals, peRReo, rcartocolor, rockthemes, rtist, severance, soilpalettes, suffrager, tayloRswift, tidyquant, trekcolors, tvthemes, unikn, vapeplot, vapoRwave, werpals, wesanderson, yarrr.

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 2225 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: DresdenColor, IslamicArt, LaCroixColoR, Manu, MapPalettes, MetBrewer, NatParksPalettes, NineteenEightyR, PNWColors, Polychrome, RColorBrewer, RSkittleBrewer, Redmonder, awtools, basetheme, beyonce, calecopal, colRoz, colorBlindness, colorblindr, dichromat, dutchmasters, feathers, fishualize, futurevisions, ggpomological, ggprism, ggsci, ggthemes, ggthemr, ghibli, grDevices, impressionist.colors, jcolors, khroma, lisa, miscpalettes, musculusColors, nationalparkcolors, nbapalettes, nord, ochRe, palettesForR, palettetown, pals, peRReo, rcartocolor, rockthemes, rtist, severance, soilpalettes, suffrager, tayloRswift, tidyquant, trekcolors, tvthemes, unikn, vapeplot, vapoRwave, werpals, wesanderson, yarrr.

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

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

Index