Package ‘paletteer’

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Title Comprehensive Collection of Color Palettes
Version 1.2.0
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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 APIs. This package aims to collect all color palettes across the R ecosystem under the same package with a streamlined API.
License GPL-3
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BugReports https://github.com/EmilHvitfeldt/paletteer/issues
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R topics documented:

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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

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

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

```r
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

```r
if (require('ggplot2')) {

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

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

- `palleteer_c_ggthemes(name, n)`
- `palleteer_c_grDevices(name, n)`
- `palleteer_c_oompaBase(name, n)`
- `palleteer_c_palr(name, n)`
- `palleteer_c_pals(name, n)`
- `palleteer_c_scico(name, n)`
- `palleteer_c_viridis(name, n)`
- `palleteer_c_harrypotter(name, n)`
- `palleteer_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 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**

```r
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**

```r
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**

```r
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**

```r
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

---

### Names of all continuous palettes

**Description**

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

**Usage**

```r
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, 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 49 lists.

Details
Contains palettes from the following packages: awtools, basetheme, beyonce, calecopal, colorBlindness, colorblindr, colRoz, dichromat, DresdenColor, dutchmasters, fishualize, futurevisions, ggpomological, ggsci, gghthemes, ggthemr, ghibli, grDevices, IslamicArt, jcolors, khroma, LaCroixColoR, lisa, MapPalettes, miscpalettes, nationalparkcolors, NineteenEightyR, nord, ochRe, palettesForR, palettetown, pals, PNWColors, Polychrome, rcartocolor, RColorBrewer, Redmonder, RSkittleBrewer, rtist, suffrager, 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.
palettes_dynamic_names

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
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

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>palette</td>
<td>Name of palette as a string. Must be on the form packagename::palettenname.</td>
</tr>
<tr>
<td>direction</td>
<td>Either 1 or -1. If -1 the palette will be reversed.</td>
</tr>
<tr>
<td>dynamic</td>
<td>toggles between the discrete palettes and the dynamic palettes. Defaults to FALSE which indicates discrete palettes.</td>
</tr>
<tr>
<td>...</td>
<td>additional arguments to pass to discrete_scale</td>
</tr>
</tbody>
</table>

Details

Contains palettes names from the following packages: awtools, basetheme, beyonce, calecopal, colorBlindness, colorblindr, colRoz, dichromat, DresdenColor, dutchmasters, fishualize, futurevisions, ggpomological, ggsci, ggthemes, ghettohr, ghibli, grDevices, IslamicArt, jcolors, khroma, LaCroixColoR, lisa, MapPalettes, miscpalettes, nationalparkcolors, NineteenEightyR, nord, ochRe, palettesForR, palettetown, pals, PNWColors, Polychrome, rcartocolor, RColorBrewer, Redmonder, RSkittleBrewer, rist, suffrager, tidyquant, trekcolors, tvthemes, unikn, vapeplot, vapoRwave, werpals, wesanderson, yarrr.

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

Available package/palette combinations are available in the data.frame `palettes_d_names` and `palettes_dynamic_names`.

Examples

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

<table>
<thead>
<tr>
<th>wrapper_c</th>
<th>List of all wrapper functions used in paletteer_c</th>
</tr>
</thead>
</table>

Description

List of all wrapper functions used in paletteer_c

Usage

`wrapper_c`

Format

Named list of all wrapper functions
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