

# Package ‘paletteer’

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**Version** 0.2.1

**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.

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**Encoding** UTF-8

**LazyData** true

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

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

**RoxygenNote** 6.1.1

**Depends** R (>= 2.10)

**Imports** gameofthrones (>= 1.0.0), ggthemes (>= 4.0.0), jcolors, oompaBase, harrypotter (>= 2.1.0), palr, pals, scico, viridisLite, rlang

**Suggests** covr, testthat, ggplot2, knitr, rmarkdown

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

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

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

## Arguments

`package` Name of package from which the palette is desired as string or symbol.

`palette` Name of palette as string or symbol.

`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`. Both package and palette can be supplied as symbols or strings.

## 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(package = "scico", palette = "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](#). Both package and palette can be supplied as symbols or strings.

### Usage

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

### Arguments

|           |  |
|-----------|--|
| package   | Name of package from which the palette is desired as string or symbol. |
| palette   | Name of palette as string or symbol.                                   |
| 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_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](#). Both package and palette can be supplied as symbols or strings.

### Usage

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

**Arguments**

|           |   |
|-----------|---|
| package   | Name of package from which the palette is desired as string or symbol.  |
| palette   | Name of palette as string or symbol.  |
| 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](#). Both package and palette can be supplied as symbols or strings.

**Usage**

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

**Arguments**

|           |  |
|-----------|--|
| package   | Name of package from which the palette is desired as string or symbol. |
| palette   | Name of palette as string or symbol.                                   |
| 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)
```

---

|                  |   |
|------------------|---|
| palettes_c_names | <i>Names of all continuous palettes</i> |
|------------------|---|

---

**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 205 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, jcolors, oompaBase, palr, pals, scico and viridis.

---

|            |   |
|------------|---|
| palettes_d | <i>Complete list of fixed discrete palettes</i> |
|------------|---|

---

**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 24 lists.

**Details**

Contains palettes from the following packages: awtools, dichromat, dutchmasters, ggsci, ggpomological, ggthemes, ghibli, grDevices, jcolors, LaCroixColor, NineteenEightyR, nord, ochRe, pals, Polychrome, quickpalette, rcartocolor, RColorBrewer, Redmonder, RSkittleBrewer, tidyquant, wesanderson and yarr.

data.frame of palette names can be found here [palettes\\_d\\_names](#).

---

|                  |  |
|------------------|--|
| palettes_dynamic | <i>Complete list of dynamic palettes</i> |
|------------------|--|

---

**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 | <i>Names of all fixed discrete palettes</i> |
|------------------------|---|

---

**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 | <i>Names of all fixed discrete palettes</i> |
|------------------|---|

---

**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 855 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, dichromat, dutchmasters, ggsci, gg-pomological, ggthemes, ghibli, grDevices, jcolors, LaCroixColor, NineteenEightyR, nord, ochRe, pals, Polychrome, quickpalette, rcartocolor, RColorBrewer, Redmonder, RSkittleBrewer, tidyquant, wesanderson and yarr.

Full list of palette can be found here [palettes\\_d](#).



---

`scale_colour_paletter_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_paletter_d(package, palette, direction = 1,  
  dynamic = FALSE, ...)
```

```
scale_color_paletter_d(package, palette, direction = 1,  
  dynamic = FALSE, ...)
```

```
scale_fill_paletter_d(package, palette, direction = 1,  
  dynamic = FALSE, ...)
```

### Arguments

|                        |  |
|------------------------|--|
| <code>package</code>   | Name of package from which the palette is desired as string or symbol.   |
| <code>palette</code>   | Name of palette as string or symbol.   |
| <code>direction</code> | Either 1 or -1. If -1 the palette will be reversed.  |
| <code>dynamic</code>   | toggles between the discrete palettes and the dynamic palettes. Defaults to FALSE which indicates discrete palettes. |
| <code>...</code>       | additional arguments to pass to <code>discrete_scale</code>  |

### Details

Available package/palette combinations are available in the data.frame [palettes\\_d\\_names](#) and [palettes\\_dynamic\\_names](#). Both package and palette can be supplied as symbols or strings.

### Examples

```
if (require('ggplot2')) {  
  ggplot(iris, aes(x = Sepal.Length, y = Sepal.Width, colour = Species)) +  
    geom_point() +  
    scale_colour_paletter_d(package = "nord", palette = "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

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