

# Package ‘PrettyCols’

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**Title** Pretty Colour Palettes

**Version** 1.1.0

**Description** Defines aesthetically pleasing colour palettes.

**License** CC0

**Encoding** UTF-8

**RoxygenNote** 7.3.1

**Depends** R (>= 3.6)

**Imports** ggplot2, graphics, grDevices, lifecycle

**Suggests** covr, knitr, markdown, rmarkdown, testthat (>= 3.0.0)

**Config/Needs/website** nrennie/nrenniepkgdown

**URL** <https://nrennie.rbind.io/PrettyCols/>,  
<https://github.com/nrennie/PrettyCols>

**BugReports** <https://github.com/nrennie/PrettyCols/issues>

**VignetteBuilder** knitr

**Config/testthat/edition** 3

**NeedsCompilation** no

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## Contents

colorblind_friendly . . . . .	2
colourblind_friendly . . . . .	2
prettycols . . . . .	3
PrettyColsPalettes . . . . .	4
scale_color_pretty_c . . . . .	4
scale_color_pretty_d . . . . .	5

scale_color_pretty_div . . . . .	5
scale_colour_pretty_c . . . . .	6
scale_colour_pretty_d . . . . .	7
scale_colour_pretty_div . . . . .	7
scale_fill_pretty_c . . . . .	8
scale_fill_pretty_d . . . . .	9
scale_fill_pretty_div . . . . .	9
view_all_palettes . . . . .	10

## Index 11

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colorblind\_friendly *Returns a data frame of colorblind friendly colour palettes*

---

### Description

Returns a data frame of colorblind friendly colour palettes

### Usage

```
colorblind_friendly(palettes = PrettyColsPalettes)
```

### Arguments

palettes      List of palettes. Default PrettyColsPalettes.

### Value

A data frame with two columns giving names and types of colourblind friendly palettes.

### Examples

```
colorblind_friendly()
```

---

colourblind\_friendly *Returns a data frame of colourblind friendly colour palettes*

---

### Description

Returns a data frame of colourblind friendly colour palettes

### Usage

```
colourblind_friendly(palettes = PrettyColsPalettes)
```

### Arguments

palettes      List of palettes. Default PrettyColsPalettes.

**Value**

A data frame with two columns giving names and types of colourblind friendly palettes.

**Examples**

```
colourblind_friendly()
```

---

prettycols	<i>Generates the colour palettes</i>
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---

**Description**

Generates the colour palettes

**Usage**

```
prettycols(palette, n, type = "discrete", direction = 1)
```

**Arguments**

palette	Name of Palette. Run names(PrettyColsPalettes) to view options.
n	Number of desired colors. If number of requested colors is beyond the scope of the palette, colors are automatically interpolated. If n is not provided, the length of the palette is used.
type	Either "continuous" or "discrete". Use continuous if you want to automatically interpolate between colors. Default "discrete"
direction	Sets order of colors. Default palette is 1. If direction is -1, palette color order is reversed

**Value**

A character vector of hex colour codes.

**Examples**

```
prettycols("Blues")
```

---

PrettyColsPalettes     *Complete list of palettes.*

---

### Description

Use names(PrettyColsPalettes) to return all palette names.

### Usage

PrettyColsPalettes

### Format

An object of class list of length 40.

---

scale\_color\_pretty\_c     *Plotting with PrettyCols palettes for colour ggplot2*

---

### Description

Plotting with PrettyCols palettes for colour ggplot2

### Usage

```
scale_color_pretty_c(palette, direction = 1, legend_title = NULL, ...)
```

### Arguments

palette	Name of Palette. Run names(PrettyColsPalettes) to view options.
direction	Sets order of colors. Default palette is 1. If direction is -1, palette color order is reversed
legend_title	<b>[Deprecated]</b> Deprecated in favour of name.
...	Other arguments passed on to <a href="#">scale_color_gradientn</a>

### Value

A ggproto object defining a continuous colour scale for use with ggplot2.

### Examples

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, color = wt)) +
  geom_point() +
  scale_color_pretty_c("Greens")
```

---

scale\_color\_pretty\_d *Plotting with PrettyCols palettes for colour ggplot2*

---

### Description

Plotting with PrettyCols palettes for colour ggplot2

### Usage

```
scale_color_pretty_d(palette, direction = 1, legend_title = NULL, ...)
```

### Arguments

palette	Name of Palette. Run names(PrettyColsPalettes) to view options.
direction	Sets order of colors. Default palette is 1. If direction is -1, palette color order is reversed
legend_title	<b>[Deprecated]</b> Deprecated in favour of name.
...	Other arguments passed on to <a href="#">discrete_scale</a>

### Value

A ggproto object defining a discrete colour scale for use with ggplot2.

### Examples

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, color = factor(cyl))) +
  geom_point() +
  scale_color_pretty_d("Bright")
```

---

scale\_color\_pretty\_div *Plotting with PrettyCols palettes for colour ggplot2*

---

### Description

Plotting with PrettyCols palettes for colour ggplot2

### Usage

```
scale_color_pretty_div(palette, direction = 1, legend_title = NULL, ...)
```

**Arguments**

palette	Name of Palette. Run <code>view_all_palettes(type = "div")</code> to view options. Must be a diverging palette name.
direction	Sets order of colors. Default palette is 1. If direction is -1, palette color order is reversed
legend_title	<b>[Deprecated]</b> Deprecated in favour of name.
...	Other arguments passed on to <a href="#">scale_colour_gradient2</a>

**Value**

A ggproto object defining a continuous colour scale for use with ggplot2.

**Examples**

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, colour = wt)) +
  geom_point() +
  scale_color_pretty_div("PurpleYellows", midpoint = mean(mtcars$wt))
```

---

scale\_colour\_pretty\_c *Plotting with PrettyCols palettes for colour ggplot2*

---

**Description**

Plotting with PrettyCols palettes for colour ggplot2

**Usage**

```
scale_colour_pretty_c(palette, direction = 1, legend_title = NULL, ...)
```

**Arguments**

palette	Name of Palette. Run <code>names(PrettyColsPalettes)</code> to view options.
direction	Sets order of colors. Default palette is 1. If direction is -1, palette color order is reversed
legend_title	<b>[Deprecated]</b> Deprecated in favour of name.
...	Other arguments passed on to <a href="#">scale_colour_gradientn</a>

**Value**

A ggproto object defining a continuous colour scale for use with ggplot2.

**Examples**

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, colour = wt)) +
  geom_point() +
  scale_colour_pretty_c("Greens")
```

---

scale\_colour\_pretty\_d *Plotting with PrettyCols palettes for colour ggplot2*

---

### Description

Plotting with PrettyCols palettes for colour ggplot2

### Usage

```
scale_colour_pretty_d(palette, direction = 1, legend_title = NULL, ...)
```

### Arguments

palette	Name of Palette. Run names(PrettyColsPalettes) to view options.
direction	Sets order of colors. Default palette is 1. If direction is -1, palette color order is reversed
legend_title	<b>[Deprecated]</b> Deprecated in favour of name.
...	Other arguments passed on to <a href="#">discrete_scale</a>

### Value

A ggproto object defining a discrete colour scale for use with ggplot2.

### Examples

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, colour = factor(cyl))) +
  geom_point() +
  scale_colour_pretty_d("Bright")
```

---

scale\_colour\_pretty\_div  
*Plotting with PrettyCols palettes for colour ggplot2*

---

### Description

Plotting with PrettyCols palettes for colour ggplot2

### Usage

```
scale_colour_pretty_div(palette, direction = 1, legend_title = NULL, ...)
```

**Arguments**

palette	Name of Palette. Run <code>view_all_palettes(type = "div")</code> to view options. Must be a diverging palette name.
direction	Sets order of colors. Default palette is 1. If direction is -1, palette color order is reversed
legend_title	<b>[Deprecated]</b> Deprecated in favour of name.
...	Other arguments passed on to <a href="#">scale_colour_gradient2</a>

**Value**

A ggproto object defining a continuous colour scale for use with ggplot2.

**Examples**

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, colour = wt)) +
  geom_point() +
  scale_colour_pretty_div("PurpleYellows", midpoint = mean(mtcars$wt))
```

---

scale\_fill\_pretty\_c *Plotting with PrettyCols palettes for colour ggplot2*

---

**Description**

Plotting with PrettyCols palettes for colour ggplot2

**Usage**

```
scale_fill_pretty_c(palette, direction = 1, legend_title = NULL, ...)
```

**Arguments**

palette	Name of Palette. Run <code>names(PrettyColsPalettes)</code> to view options.
direction	Sets order of colors. Default palette is 1. If direction is -1, palette color order is reversed
legend_title	<b>[Deprecated]</b> Deprecated in favour of name.
...	Other arguments passed on to <a href="#">scale_fill_gradientn</a>

**Value**

A ggproto object defining a continuous fill scale for use with ggplot2.

**Examples**

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, fill = wt)) +
  geom_point(pch = 21) +
  scale_fill_pretty_c("Greens")
```



---

scale\_fill\_pretty\_d *Plotting with PrettyCols palettes for colour ggplot2*

---

### Description

Plotting with PrettyCols palettes for colour ggplot2

### Usage

```
scale_fill_pretty_d(palette, direction = 1, legend_title = NULL, ...)
```

### Arguments

palette	Name of Palette. Run names(PrettyColsPalettes) to view options.
direction	Sets order of colors. Default palette is 1. If direction is -1, palette color order is reversed
legend_title	<b>[Deprecated]</b> Deprecated in favour of name.
...	Other arguments passed on to <a href="#">discrete_scale</a>

### Value

A ggproto object defining a discrete fill scale for use with ggplot2.

### Examples

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, fill = factor(cyl))) +
  geom_point(pch = 21) +
  scale_fill_pretty_d("Bright")
```

---

scale\_fill\_pretty\_div *Plotting with PrettyCols palettes for fill colour ggplot2*

---

### Description

Plotting with PrettyCols palettes for fill colour ggplot2

### Usage

```
scale_fill_pretty_div(palette, direction = 1, legend_title = NULL, ...)
```

**Arguments**

palette	Name of Palette. Run <code>view_all_palettes(type = "div")</code> to view options. Must be a diverging palette name.
direction	Sets order of colors. Default palette is 1. If direction is -1, palette color order is reversed
legend_title	<b>[Deprecated]</b> Deprecated in favour of name.
...	Other arguments passed on to <a href="#">scale_colour_gradient2</a>

**Value**

A ggproto object defining a continuous colour scale for use with ggplot2.

**Examples**

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, fill = wt)) +
  geom_point(pch = 21) +
  scale_fill_pretty_div("PurpleYellows", midpoint = mean(mtcars$wt))
```

---

view\_all\_palettes      *Prints all available colour palettes*

---

**Description**

Prints all available colour palettes

**Usage**

```
view_all_palettes(type = "all", colourblind_friendly = FALSE)
```

**Arguments**

type	Type of colour palettes to view. Either all palettes, sequential palettes, diverging palettes, or qualitative palettes. Types must be at least one of <code>c("all", "seq", "div", "qual")</code> . Default "all".
colourblind_friendly	Boolean whether or not to return only colourblind friendly palettes. Default FALSE.

**Value**

A plot of all colour palettes available in the package.

**Examples**

```
view_all_palettes(type = "seq")
view_all_palettes(type = c("seq", "div"))
view_all_palettes(type = "div", colourblind_friendly = TRUE)
```

# Index

## \* datasets

PrettyColsPalettes, 4

colorblind\_friendly, 2  
colourblind\_friendly, 2

discrete\_scale, 5, 7, 9

prettycols, 3  
PrettyColsPalettes, 4

scale\_color\_gradientn, 4  
scale\_color\_pretty\_c, 4  
scale\_color\_pretty\_d, 5  
scale\_color\_pretty\_div, 5  
scale\_colour\_gradient2, 6, 8, 10  
scale\_colour\_gradientn, 6  
scale\_colour\_pretty\_c, 6  
scale\_colour\_pretty\_d, 7  
scale\_colour\_pretty\_div, 7  
scale\_fill\_gradientn, 8  
scale\_fill\_pretty\_c, 8  
scale\_fill\_pretty\_d, 9  
scale\_fill\_pretty\_div, 9

view\_all\_palettes, 10