Package 'jcolors'

March 29, 2024		
Type Package		
Title Colors Palettes for R and 'ggplot2', Additional Themes for 'ggplot2'		
Version 0.0.5		
Description Contains a selection of color palettes and 'ggplot2' themes designed by the package author.		
<pre>URL https://jaredhuling.org/jcolors/</pre>		
<pre>BugReports https://github.com/jaredhuling/jcolors/issues License GPL-2</pre>		
Encoding UTF-8		
Depends R (>= $3.2.0$)		
Imports grDevices, scales, ggplot2 (>= 3.0.0)		
RoxygenNote 7.3.1		
Suggests knitr, rmarkdown, gridExtra		
VignetteBuilder knitr		
NeedsCompilation no		
Author Jared Huling [aut, cre] (https://orcid.org/0000-0003-0670-4845)		
Maintainer Jared Huling <pre><jaredhuling@gmail.com></jaredhuling@gmail.com></pre>		
Repository CRAN		
Date/Publication 2024-03-29 16:00:06 UTC		
R topics documented:		
display_all_jcolors display_all_jcolors_contin display_jcolors display_jcolors_contin jcolors jcolors jcolors_contin scale_color_jcolors_contin theme_dark_bg		

Index 9

Description

Creates different vectors of related colors that may be useful for figures.

Usage

```
display_all_jcolors()
```

Examples

```
display_all_jcolors()
```

```
\begin{tabular}{ll} display\_all\_jcolors\_contin \\ Display\ every\ jcolors\_contin\ palette \\ \end{tabular}
```

Description

displays all of the continuous jcolors palettes

Usage

```
display_all_jcolors_contin()
```

```
display_all_jcolors_contin()
```

display_jcolors 3

display_jcolors

Display jcolors

Description

displays the discrete jcolors palettes

Usage

Arguments

palette

Character string indicating a palette of colors.

Examples

```
display_jcolors()
```

```
display_jcolors_contin
```

Display jcolors_contin

Description

displays the continuous jcolors palettes

Usage

```
display_jcolors_contin(
  palette = c("default", "pal2", "pal3", "pal4", "pal10", "pal11", "pal12", "rainbow")
)
```

Arguments

palette

Character string indicating a palette of colors.

```
display_jcolors_contin()
```

jcolors_contin

jcolors

Vectors of colors for figures

Description

Creates different vectors of related colors that may be useful for figures.

Usage

Arguments

palette

Character string indicating a palette of colors.

Value

Vector of character strings representing the chosen palette of colors.

Examples

jcolors_contin

continuous palettes of colors for figures

Description

Creates different color palette functions

Usage

```
jcolors_contin(
  palette = c("default", "pal2", "pal3", "pal4", "pal10", "pal11", "pal12", "rainbow"),
  reverse = FALSE,
  interpolate = c("spline", "linear"),
  ...
)
```

Arguments

palette	Character string indicating a palette of colors.
reverse	logical value indicating whether the color palette should be reversed. Defaults to FALSE
interpolate	Character string for color interpolation method. "linear" or "spline" interpolation available
	other arguments to be passed to colorRampPalette. See colorRampPalette for details

Value

returns a function that takes an integer argument (the required number of colors), which then returns a character vector of colors

Examples

```
scale\_color\_jcolors\_contin\\ continuous\ jcolors\ color\ scales
```

Description

```
continuous jcolors color scales
jcolors color scales
```

Usage

```
scale_color_jcolors_contin(
 palette = c("default", "pal2", "pal3", "pal4", "pal10", "pal11", "pal12", "rainbow"),
)
scale_colour_jcolors_contin(
 palette = c("default", "pal2", "pal3", "pal4", "pal10", "pal11", "pal12", "rainbow"),
)
scale_fill_jcolors_contin(
 palette = c("default", "pal2", "pal3", "pal4", "pal10", "pal11", "pal12", "rainbow"),
)
scale_color_jcolors(
 palette = c("default", "pal2", "pal3", "pal4", "pal5", "pal6", "pal7", "pal8", "pal8", "pal9",
    "pal10", "pal11", "pal12", "rainbow"),
)
scale_colour_jcolors(
 palette = c("default", "pal2", "pal3", "pal4", "pal5", "pal6", "pal7", "pal8", "pal9",
    "pal10", "pal11", "pal12", "rainbow"),
)
scale_fill_jcolors(
 palette = c("default", "pal2", "pal3", "pal4", "pal5", "pal6", "pal7", "pal8", "pal8", "pal9",
    "pal10", "pal11", "pal12", "rainbow"),
)
```

Arguments

palette Character string indicating a palette of colors.
... additional parameters for discrete_scale

```
library(ggplot2)

plt <- ggplot(data.frame(x = rnorm(10000), y = rexp(10000, 1.5)), aes(x = x, y = y)) +
    geom_hex() + coord_fixed()

plt + scale_fill_jcolors_contin() + theme_bw()

plt + scale_fill_jcolors_contin("pal2", bias = 1.5) + theme_bw()</pre>
```

theme_dark_bg 7

```
plt + scale_fill_jcolors_contin("pal3") + theme_bw()
library(ggplot2)
data(morley)
pltl <- ggplot(data = morley, aes(x = Run, y = Speed,</pre>
group = factor(Expt),
colour = factor(Expt))) +
   geom\_line(size = 2) +
   theme_bw() +
    theme(panel.background = element_rect(fill = "grey97"),
          panel.border = element_blank())
pltd <- ggplot(data = morley, aes(x = Run, y = Speed,
group = factor(Expt),
colour = factor(Expt))) +
   geom\_line(size = 2) +
    theme_bw() +
    theme(panel.background = element_rect(fill = "grey15"),
          panel.border = element_blank(),
          panel.grid.major = element_line(color = "grey45"),
          panel.grid.minor = element_line(color = "grey25"))
pltl + scale_color_jcolors(palette = "default")
pltd + scale_color_jcolors(palette = "default")
```

theme_dark_bg

minimal theme for dark backgrounds

Description

minimal theme for dark backgrounds minimal theme for light backgrounds

Usage

```
theme_dark_bg(
  base_size = 12,
  base_family = "sans",
  base_line_size = base_size/22,
  base_rect_size = base_size/22
)
theme_light_bg(
```

8 theme_dark_bg

```
base_size = 12,
base_family = "sans",
base_line_size = base_size/22,
base_rect_size = base_size/22
)
```

Arguments

```
base_sizebase font size, given in pts.base_familybase font familybase_line_sizebase size for line elementsbase_rect_sizebase size for rect elements
```

Index

```
colorRampPalette, 5
discrete_scale, 6
display_all_jcolors, 2
{\tt display\_all\_jcolors\_contin, 2}
display_jcolors, 3
display_jcolors_contin, 3
jcolors, 4
jcolors_contin, 4
scale_color_jcolors
        (scale_color_jcolors_contin), 5
scale_color_jcolors_contin, 5
scale_colour_jcolors
        (scale_color_jcolors_contin), 5
scale_colour_jcolors_contin
        (scale_color_jcolors_contin), 5
scale_fill_jcolors
        (scale_color_jcolors_contin), 5
scale\_fill\_jcolors\_contin
        (scale_color_jcolors_contin), 5
theme_dark_bg, 7
theme_light_bg(theme_dark_bg), 7
```