Package: jcolors (via r-universe)

August 28, 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.

URL https://jaredhuling.org/jcolors/

BugReports https://github.com/jaredhuling/jcolors/issues

License GPL-2

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

Repository https://jaredhuling.r-universe.dev

RemoteUrl https://github.com/jaredhuling/jcolors

RemoteRef HEAD

RemoteSha 7c29a5041453817831f143f393f8e71d3b8a09e5

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Description

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

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display_all_jcolors()
```

display_all_jcolors_contin *Display every jcolors_contin palette*

Description

displays all of the continuous jcolors palettes

Usage

```
display_all_jcolors_contin()
```

Examples

```
display_all_jcolors_contin()
```

display_jcolors *Display jcolors*

Description

displays the discrete jcolors palettes

Usage

```
display_jcolors(
  palette = c("default", "pal2", "pal3", "pal4", "pal5", "pal6", "pal7", "pal8", "pal9",
    "pal10", "pal11", "pal12", "rainbow")
)
```

Arguments

palette	Character string indicating a palette of colors.

Examples

```
display_jcolors()
```

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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.

Examples

```
display_jcolors_contin()
```

---

jcolors *Vectors of colors for figures*

Description

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

Usage

```
jcolors(
 palette = c("default", "pal2", "pal3", "pal4", "pal5", "pal6", "pal7", "pal8", "pal9",
    "pal10", "pal11", "pal12", "rainbow")
)
```

Arguments

palette	Character string indicating a palette of colors.

Value

Vector of character strings representing the chosen palette of colors.

Examples

```
par(mar=c(0.6,5.1,0.6,0.6))
plot(0, 0, type = "n", xlab = "", ylab = "", xlim = c(0, 6), ylim = c(4, 0), yaxs = "i",
     xaxt = "n", yaxt = "n", xaxs = "i")
axis(side=3, at=1:3, c("default", "pal2", "pal3"), las=1)

def <- jcolors("default")
points(seq(along = def), rep(1, length(def)), pch = 22, bg = def, cex = 8)
pal2 <- jcolors("pal2")
points(seq(along = pal2), rep(2, length(pal2)), pch = 22, bg = pal2, cex = 8)
pal3 <- jcolors("pal3")
points(seq(along = pal3), rep(3, length(pal3)), pch = 22, bg = pal3, cex = 8)
```

---

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

```
colfunc <- jcolors_contin()
jcols   <- colfunc(1000)
n       <- length(jcols)
image(1:n, 1, as.matrix(1:n),
      col  = jcols,
      xlab = "", ylab = "",
      xaxt = "n", yaxt = "n", bty = "n")
```

---

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", "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", "pal9",
    "pal10", "pal11", "pal12", "rainbow"),
  ...
)
```

Arguments

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

Examples

```
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()

plt + scale_fill_jcolors_contin("pal3") + theme_bw()


library(ggplot2)
data(morley)

pltl <- 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 = "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(
  base_size = 12,
  base_family = "sans",
  base_line_size = base_size/22,
  base_rect_size = base_size/22
)
```

Arguments

base_size	base font size, given in pts.
base_family	base font family
base_line_size	base size for line elements
base_rect_size	base size for rect elements

Examples

```
library(ggplot2)

p <- ggplot(mtcars) + geom_point(aes(x = wt, y = mpg,
        colour = factor(gear))) + facet_grid(vs~am)
p + theme_dark_bg()


p <- ggplot(mtcars) + geom_point(aes(x = wt, y = mpg,
        colour = factor(gear))) + facet_grid(vs~am)
p + theme_light_bg()
```

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