Package ‘ggdark’

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Type Package
Title Dark Mode for 'ggplot2' Themes
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Description Activate dark mode on your favorite 'ggplot2' theme with dark_mode() or use the dark versions of 'ggplot2' themes, including dark_theme_gray(), dark_theme_minimal(), and others. When a dark theme is applied, all geom color and geom fill defaults are changed to make them visible against a dark background. To restore the defaults to their original values, use invert_geom_defaults().
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dark_mode

Activate dark mode on a 'ggplot2' theme

Description

Activate dark mode on a 'ggplot2' theme

Usage

dark_mode(.theme = theme_get(), verbose = TRUE, force_geom_invert = FALSE)

Arguments

.theme ggplot2 theme object
verbose print messages (default: TRUE)
force_geom_invert Force the inversion of geom defaults for fill and color/colour (default: FALSE)

Value

dark version of theme

Examples

library(ggplot2)
p1 <- ggplot(iris, aes(Sepal.Width, Sepal.Length, color = Species)) + geom_point()
p1 + dark_mode() # activate dark mode on theme returned by theme_get()
p2 <- ggplot(iris, aes(Sepal.Width, Sepal.Length)) + geom_point() + facet_wrap(~ Species)
p2 + dark_mode(theme_minimal()) # activate dark mode on another theme
invert_geom_defaults() # restore geom defaults to their original values
ggdark

'ggdark': Dark mode for 'ggplot2'

Description
Use dark_mode() on your favorite 'ggplot2' theme to activate its dark mode. 'ggdark' also provides dark versions of the themes included in 'ggplot2': dark_theme_grey(), dark_theme_bw(), dark_theme_minimal(), and others. When a dark theme is applied, all geom color and geom fill defaults are inverted to make them visible against a dark background. To change them back, use invert_geom_defaults().

ggdarktheme

Complete dark themes

Description
These are dark versions of complete themes from 'ggplot2' which control all non-data display. Use theme() if you just need to tweak the display of an existing theme.

Usage

dark_theme_bw(base_size = 11L, base_family = "", base_line_size = base_size/22, base_rect_size = base_size/22)
dark_theme_classic(base_size = 11L, base_family = "", base_line_size = base_size/22, base_rect_size = base_size/22)
dark_theme_gray(base_size = 11L, base_family = "", base_line_size = base_size/22, base_rect_size = base_size/22)
dark_theme_grey(base_size = 11L, base_family = "", base_line_size = base_size/22, base_rect_size = base_size/22)
dark_theme_minimal(base_size = 11L, base_family = "", base_line_size = base_size/22, base_rect_size = base_size/22)
dark_theme_light(base_size = 11L, base_family = "", base_line_size = base_size/22, base_rect_size = base_size/22)
dark_theme_dark(base_size = 11L, base_family = "", base_line_size = base_size/22, base_rect_size = base_size/22)
dark_theme_void(base_size = 11L, base_family = "", base_line_size = base_size/22, base_rect_size = base_size/22)
dark_theme_test(base_size = 11, base_family = "", base_line_size = base_size/22, base_rect_size = base_size/22)

dark_theme_linedraw(base_size = 11, base_family = "", base_line_size = base_size/22, base_rect_size = base_size/22)

Arguments

- base_size: base font size
- base_family: base font family
- base_line_size: base size for line elements
- base_rect_size: base size for rect elements

Details

- `dark_theme_gray`: Dark version of theme_gray(), the signature 'ggplot2' theme with a grey background and white gridlines, designed to put the data forward yet make comparisons easy.
- `dark_theme_bw`: Dark version of theme_bw(), the classic dark-on-light 'ggplot2' theme. May work better for presentations displayed with a projector.
- `dark_theme_linedraw`: Dark version of theme_linedraw(), a theme with only black lines of various widths on white backgrounds, reminiscent of a line drawings. Serves a purpose similar to theme_bw(). Note that this theme has some very thin lines (< 1 pt) which some journals may refuse.
- `dark_theme_light`: Dark version of theme_light(), a theme similar to theme_linedraw() but with light grey lines and axes, to direct more attention towards the data.
- `dark_theme_dark`: Dark version of theme_dark(), the dark cousin of theme_light(), with similar line sizes but a dark background. Useful to make thin coloured lines pop out.
- `dark_theme_minimal`: Dark version of theme_minimal(), a minimalistic theme with no background annotations.
- `dark_theme_classic`: Dark version of theme_classic(), a classic-looking theme, with x and y axis lines and no gridlines.
- `dark_theme_void`: Dark version of theme_void(), a completely empty theme.
- `dark_theme_test`: Dark version of theme_test(), a theme for visual unit tests. It should ideally never change except for new features.

Examples

```r
library(ggplot2)

mtcars2 <- within(mtcars, {
  vs <- factor(vs, labels = c("V-shaped", "Straight"))
  am <- factor(am, labels = c("Automatic", "Manual"))
  cyl <- factor(cyl)
  gear <- factor(gear)
})

p1 <- ggplot(mtcars2) +
```
invert_color

Invert color(s)

Description

Invert a vector of colors, provided the colors are valid hex codes or have valid names (i.e., they belong to base::colors()), and return a vector of inverted colors in hex code.

Usage

invert_color(color, colour = color)

invert_colour(color, colour = color)

Arguments

color  color(s) to invert
colour  alias of color
invert_geom_defaults

Invert geom defaults for fill and color/colour

Description

Invert geom defaults for fill and color/colour

Usage

invert_geom_defaults(geoms = get_geoms())

Arguments

geoms List of geoms as ggproto objects

Examples

library(ggplot2)

p <- ggplot(iris, aes(Sepal.Width, Sepal.Length)) +
   geom_point() +
   facet_wrap(~ Species)

p + dark_theme_gray() # geom defaults changed

p + theme_gray() # oh no! geoms are not visible on light background

invert_geom_defaults() # geom defaults changed back

p + theme_gray() # back to normal
invert_theme_elements

invert_theme_elements  Invert theme elements

Description
Invert theme elements

Usage
invert_theme_elements(.theme)

Arguments
\*.theme  theme to invert

Value
Inverted theme
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