

Package: claudeplot (via r-universe)

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Type Package

Title Anthropic and Claude Inspired 'ggplot2' Themes and Color Scales

Version 0.1.0

Description A 'ggplot2' extension that brings the visual language of Anthropic and Claude to R. Provides a publication-ready theme, qualitative, sequential, and diverging color palettes drawn from Anthropic's brand and data-visualization style, discrete and continuous color and fill scales, and palette display helpers. The package bundles Anthropic's recommended open typefaces ('Poppins' for headings and 'Lora' for body text) and registers them automatically when 'systemfonts' is available.

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Encoding UTF-8

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Contents

claude_colors	2
claude_font_status	2
claude_pal	3
claude_palette	4
claude_palette_names	5
scale_claude	5
show_claude_palette	6
show_claude_palettes	7
theme_claude	8

Index	10
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claude_colors	<i>Anthropic and Claude brand colors</i>
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Description

A named character vector of the core colors used across Anthropic’s brand and Claude’s data-visualization style. Brand neutrals and accents follow Anthropic’s published brand guidelines; the vivid accents (viz_*) match the saturated colors used in Claude’s benchmark charts.

Usage

```
claude_colors
```

Format

A named character vector of hex color strings.

Examples

```
claude_colors["orange"]
unnamed[claude_colors[c("viz_green", "viz_blue", "viz_pink")]]
```

claude_font_status	<i>Report claudeplot font status</i>
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Description

Prints whether the bundled Anthropic typefaces (Poppins and Lora) are available to render and whether the optional ragg and systemfonts packages are installed. Useful for diagnosing why `theme_claude()` falls back to generic fonts.

Usage

```
claude_font_status()
```

Value

Invisibly, a named list with logical entries `poppins`, `lora`, `systemfonts`, and `ragg`.

Examples

```
claude_font_status()
```

claude_pal	<i>Generate colors from a claudeplot palette</i>
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Description

Low-level palette generator used internally by the scale functions. Most users will prefer `claude_palette()` (which returns a printable object) or the `scale_*_claude_*` functions.

Usage

```
claude_pal(
  palette = "claude",
  n = NULL,
  type = c("discrete", "continuous"),
  reverse = FALSE
)
```

Arguments

<code>palette</code>	Name of a palette. See <code>claude_palette_names()</code> .
<code>n</code>	Number of colors to return. Defaults to the full palette for discrete palettes, or all anchor colors for continuous palettes.
<code>type</code>	Either "discrete" or "continuous". For "continuous", colors are interpolated with <code>grDevices::colorRampPalette()</code> .
<code>reverse</code>	Logical; reverse the color order?

Value

A character vector of hex colors.

Examples

```
claude_pal("claude", n = 3)
claude_pal("oranges", n = 9, type = "continuous")
```

claude_palette	<i>Build a claudeplot palette object</i>
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Description

Returns the colors of a palette as a `claude_palette` object, which prints as a color swatch (via `scales::show_col()`).

Usage

```
claude_palette(  
  palette = "claude",  
  n = NULL,  
  type = c("discrete", "continuous"),  
  reverse = FALSE  
)
```

Arguments

palette	Name of a palette. See <code>claude_palette_names()</code> .
n	Number of colors to return. Defaults to the full palette for discrete palettes, or all anchor colors for continuous palettes.
type	Either "discrete" or "continuous". For "continuous", colors are interpolated with <code>grDevices::colorRampPalette()</code> .
reverse	Logical; reverse the color order?

Value

A character vector of hex colors with class `claude_palette`.

See Also

`show_claude_palette()` and `show_claude_palettes()` for plots.

Examples

```
claude_palette("claude")  
claude_palette("oranges", n = 9, type = "continuous")
```

claude_palette_names *List available claudeplot palettes*

Description

List available claudeplot palettes

Usage

```
claude_palette_names(type = c("all", "qualitative", "sequential", "diverging"))
```

Arguments

type One of "all", "qualitative", "sequential", or "diverging".

Value

A character vector of palette names (invisible side effects: none).

Examples

```
claude_palette_names()  
claude_palette_names("sequential")
```

scale_claude *Claude color and fill scales for ggplot2*

Description

Discrete (`_d`) and continuous (`_c`) color and fill scales built from the claudeplot palettes. The British spelling (`colour`) aliases are provided for every American (`color`) scale.

Usage

```
scale_color_claude_d(palette = "claude", reverse = FALSE, ...)  
scale_colour_claude_d(palette = "claude", reverse = FALSE, ...)  
scale_fill_claude_d(palette = "claude", reverse = FALSE, ...)  
scale_color_claude_c(palette = "oranges", reverse = FALSE, ...)  
scale_colour_claude_c(palette = "oranges", reverse = FALSE, ...)  
scale_fill_claude_c(palette = "oranges", reverse = FALSE, ...)
```

Arguments

palette	Name of a palette. Discrete scales default to "claude" (the vivid benchmark palette); continuous scales default to "oranges". See claude_palette_names() .
reverse	Logical; reverse the palette order?
...	Passed to ggplot2::discrete_scale() , ggplot2::scale_color_gradientn() , or ggplot2::scale_fill_gradientn() .

Value

A ggplot2 scale object.

Examples

```
library(ggplot2)
ggplot(mtcars, aes(wt, mpg, color = factor(gear))) +
  geom_point() +
  scale_color_claude_d()

ggplot(faithfuld, aes(waiting, eruptions, fill = density)) +
  geom_raster() +
  scale_fill_claude_c(palette = "blues")
```

show_claude_palette *Display a single claudeplot palette*

Description

Draws one palette as a row of labelled color swatches.

Usage

```
show_claude_palette(
  palette = "claude",
  n = NULL,
  type = c("discrete", "continuous"),
  reverse = FALSE,
  labels = TRUE
)
```

Arguments

palette	Name of a palette. See claude_palette_names() .
n	Number of colors to return. Defaults to the full palette for discrete palettes, or all anchor colors for continuous palettes.
type	Either "discrete" or "continuous". For "continuous", colors are interpolated with grDevices::colorRampPalette() .
reverse	Logical; reverse the color order?
labels	Logical; overlay hex codes on each swatch?

Value

A ggplot object (invisibly), drawn as a side effect.

See Also

[show_claude_palettes\(\)](#) to display every palette at once.

Examples

```
show_claude_palette("claude")
show_claude_palette("oranges", n = 7, type = "continuous")
```

show_claude_palettes *Display all available claudeplot palettes*

Description

Draws every palette (optionally filtered by type) as a stacked grid of color swatches.

Usage

```
show_claude_palettes(type = c("all", "qualitative", "sequential", "diverging"))
```

Arguments

type One of "all", "qualitative", "sequential", or "diverging".

Value

A ggplot object (invisibly), drawn as a side effect.

See Also

[show_claude_palette\(\)](#) to display one palette in detail.

Examples

```
show_claude_palettes()
show_claude_palettes("sequential")
```

 theme_claude

Anthropic and Claude inspired ggplot2 theme

Description

A clean, publication-ready theme modelled on the data visualizations in Anthropic’s model reports: a light background, light horizontal grid lines, strong black axis lines, a bold geometric-sans title (Poppins), and a serif subtitle (Lora). Custom fonts render on ragg/svglite devices; when the bundled fonts are unavailable the theme falls back to generic families.

Usage

```
theme_claude(
  base_size = 12,
  font_title = "Poppins",
  font_text = "Poppins",
  font_subtitle = "Lora",
  grid = c("y", "x", "xy", "none"),
  axis_lines = TRUE,
  background = "white",
  ...
)
```

Arguments

base_size	Base font size in points.
font_title	Family for the plot title. Defaults to Poppins (with a "sans" fallback).
font_text	Family for axis, legend, and other text. Defaults to Poppins (with a "sans" fallback).
font_subtitle	Family for the subtitle and caption. Defaults to Lora (with a "serif" fallback).
grid	Which major grid lines to draw: "y" (default), "x", "xy", or "none".
axis_lines	Logical; draw strong axis lines and ticks on the left and bottom? Defaults to TRUE.
background	Panel and plot background fill. Use "white" (default) or "cloud" for Anthropic’s warm off-white, or any color string.
...	Passed to <code>ggplot2::theme_minimal()</code> .

Details

The bundled Poppins and Lora fonts only render on ragg or svglite devices. On the base PDF/PostScript device (used by R CMD check) custom fonts are unavailable, so the examples below pass generic families. In your own work, omit the font_* arguments to use the Anthropic typefaces and save with a ragg device, e.g. `ggsave("plot.png", device = ragg::agg_png)`.

Value

A ggplot2 theme object.

Examples

```
library(ggplot2)

# Generic fonts keep the example device-agnostic.
ggplot(mtcars, aes(wt, mpg, color = factor(cyl))) +
  geom_point(size = 3) +
  labs(
    title = "Fuel efficiency by weight",
    subtitle = "Heavier cars travel fewer miles per gallon",
    color = "Cylinders"
  ) +
  scale_color_claude_d() +
  theme_claude(font_title = "sans", font_text = "sans", font_subtitle = "serif")

## Not run:
# With the bundled Anthropic fonts (requires systemfonts + a rag device):
ggplot(mtcars, aes(wt, mpg, color = factor(cyl))) +
  geom_point(size = 3) +
  theme_claude()

## End(Not run)
```

Index

* datasets

claude_colors, 2

claude_colors, 2

claude_font_status, 2

claude_pal, 3

claude_palette, 4

claude_palette(), 3

claude_palette_names, 5

claude_palette_names(), 3, 4, 6

ggplot2::discrete_scale(), 6

ggplot2::scale_color_gradientn(), 6

ggplot2::scale_fill_gradientn(), 6

ggplot2::theme_minimal(), 8

grDevices::colorRampPalette(), 3, 4, 6

scale_claude, 5

scale_color_claude_c (scale_claude), 5

scale_color_claude_d (scale_claude), 5

scale_colour_claude_c (scale_claude), 5

scale_colour_claude_d (scale_claude), 5

scale_fill_claude_c (scale_claude), 5

scale_fill_claude_d (scale_claude), 5

scales::show_col(), 4

show_claude_palette, 6

show_claude_palette(), 4, 7

show_claude_palettes, 7

show_claude_palettes(), 4, 7

theme_claude, 8

theme_claude(), 2