

Package ‘nestcolor’

January 21, 2025

Type Package

Title Colors for NEST Graphs

Version 0.1.3

Date 2025-01-21

Description Clinical reporting figures require to use consistent colors and configurations. As a part of the Roche open-source clinical reporting project, namely the NEST project, the 'nestcolor' package specifies the color code and default theme with specifying 'ggplot2' theme parameters. Users can easily customize color and theme settings before using the reset of NEST packages to ensure consistent settings in both static and interactive output at the downstream.

License Apache License 2.0

URL <https://insightengineering.github.io/nestcolor/>,
<https://github.com/insightengineering/nestcolor/>

BugReports <https://github.com/insightengineering/nestcolor/issues>

Depends R (>= 3.6)

Imports checkmate (>= 2.1.0), ggplot2 (>= 3.5.0), lifecycle (>= 1.0.3)

Suggests knitr (>= 1.42), rmarkdown (>= 2.19), testthat (>= 3.0.4)

VignetteBuilder knitr, rmarkdown

RdMacros lifecycle

Config/Needs/verdepcheck mllg/checkmate, tidyverse/ggplot2,
r-lib/lifecycle, yihui/knitr, rstudio/rmarkdown, r-lib/testthat

Config/Needs/website insightengineering/nesttemplate

Encoding UTF-8

Language en-US

RoxygenNote 7.3.2

NeedsCompilation no

Author Joe Zhu [aut, cre] (<<https://orcid.org/0000-0001-7566-2787>>),
Emily de la Rúa [aut],
F. Hoffmann-La Roche AG [cph, fnd]

Maintainer Joe Zhu <joe.zhu@roche.com>

Repository CRAN

Date/Publication 2025-01-21 09:40:02 UTC

Contents

color_palette	2
theme_nest	3

Index	4
--------------	----------

color_palette	<i>Color Palettes Used in NEST</i>
---------------	------------------------------------

Description

[Stable]

A standardized color palette to be used for all plots within the NEST project.

Usage

```
color_palette(n = 10, palette = "nest")
```

Arguments

- | | |
|---------|--|
| n | (numeric value)
The number of colors to be returned from the color palettes. Please note the colors will be repeated after a certain numerical limit per palette: <ul style="list-style-type: none"> • nest 96 colors • stream 38 colors • viridis 49 colors • accessible 18 colors |
| palette | (character value)
The name of a palette supported by this function <ul style="list-style-type: none"> • nest A color palette developed by the NEST team representing colors in the NEST logo. • stream A color palette proposed by the stream documentation of stream version 2_05 • viridis A color palette provided by the viridis::plasma function. • accessible A color palette consisting of accessible colors for those with color blindness. |

Value

A list of hex color code

Examples

```
library(grid)

plot_pal <- function(x) {
  grid.newpage()
  pushViewport(plotViewport(rep(1, 4)))
  pushViewport(viewport(layout = grid.layout(1, ncol = length(x))))
  for (i in seq_along(x)) {
    grid.rect(
      gp = gpar(fill = x[i], col = NA),
      vp = viewport(layout.pos.col = i, layout.pos.row = 1)
    )
  }
}

plot_pal(color_palette(n = 10, palette = "nest"))

plot_pal(color_palette(n = 10, palette = "stream"))

plot_pal(color_palette(n = 10, palette = "viridis"))

plot_pal(color_palette(n = 10, palette = "accessible"))
```

theme_nest

Returns a custom NEST ggplot2 theme

Description

Returns a custom NEST ggplot2 theme

Usage

```
theme_nest(font_size = 10, ...)
```

Arguments

font_size (numeric) font size to be passed to [ggplot2::element_text()]
... (list) additional arguments to [ggplot2::theme()]

Value

Return ggplot theme

Examples

```
plot <- ggplot2::ggplot(iris, ggplot2::aes(x = Sepal.Length, y = Sepal.Width)) +
  ggplot2::geom_point() +
  theme_nest()
```

Index

`color_palette`, [2](#)

`theme_nest`, [3](#)