Package 'nestcolor'

June 9, 2023

Type Package

Title Colors for NEST Graphs

Version 0.1.2

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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.

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URL <https://github.com/insightsengineering/nestcolor/>

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

Depends R (>= 3.6)

Imports checkmate, ggplot2 (>= 3.4.0), lifecycle

Suggests knitr, rmarkdown, testthat (>= 2.0)

VignetteBuilder knitr

RdMacros lifecycle

biocViews

Config/Needs/website insightsengineering/nesttemplate

Encoding UTF-8

Language en-US

RoxygenNote 7.2.3

NeedsCompilation no

Author Joe Zhu [aut, cre],
Emily de la Rua [aut],
F. Hoffmann-La Roche AG [cph, fnd]

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

Repository CRAN

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R topics documented:

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color_palette	*Color Palettes Used in NEST*

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:

  - nest 96 colors
  - stream 38 colors
  - viridis 49 colors
  - accessible 18 colors

palette
: (character value)
  The name of a palette supported by this function

  - 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"))
```

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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()
```

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