Package 'vangogh'

October 12, 2022

Type Package

Title A Vincent Van Gogh Color Palette Generator

Version 0.1.1

Maintainer Cheryl Isabella <cheryl.academic@gmail.com>

Description Palettes generated from Vincent van Gogh's paintings.

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Depends R (>= 3.0)

Encoding UTF-8

Imports ggplot2

Suggests knitr, rmarkdown, scales, testthat (>= 3.0.0)

RoxygenNote 7.1.2

VignetteBuilder knitr

Config/testthat/edition 3

NeedsCompilation no

Author Cheryl Isabella [aut, cre]

Repository CRAN

Date/Publication 2022-05-27 08:00:02 UTC

R topics documented:

scale_color_vangogh   *Setup colour palette for ggplot2*

Description

Setup colour palette for ggplot2

Usage

```
scale_color_vangogh(
  ...,
  palette = "StarryNight",
  discrete = TRUE,
  alpha = 1,
  reverse = FALSE
)

scale_colour_vangogh(
  ...,
  palette = "StarryNight",
  discrete = TRUE,
  alpha = 1,
  reverse = FALSE
)
```

Arguments

...	additional arguments to pass to scale_color_gradientn
palette	Choose from 'vangogh_palettes' list
discrete	whether to use a discrete colour palette
alpha	transparency
reverse	logical, Reverse the order of the colours?

Value

A scale_color_vangogh function

Examples

```
library(ggplot2)
ggplot(mtcars, aes(mpg, wt)) +
  geom_point(aes(colour = factor(cyl))) +
  scale_colour_vangogh(palette = "StarryNight")
ggplot(mtcars, aes(mpg, wt)) +
  geom_point(aes(colour = hp)) +
  scale_colour_vangogh(palette = "StarryNight", discrete = FALSE)
ggplot(data = mpg) +
```

```
    geom_point(mapping = aes(x = displ, y = hwy, color = class)) +
    scale_colour_vangogh(palette = "StarryRhone")
ggplot(diamonds) +
  geom_bar(aes(x = cut, fill = clarity)) +
  scale_fill_vangogh()
```

---

scale_fill_vangogh	*#' Setup fill palette for ggplot2*

Description

#' Setup fill palette for ggplot2

Usage

```
scale_fill_vangogh(
  ...,
  palette = "StarryNight",
  discrete = TRUE,
  alpha = 1,
  reverse = TRUE
)
```

Arguments

...	additional arguments to pass to scale_color_gradientn
palette	Choose from 'vangogh_palettes' list
discrete	whether to use a discrete colour palette
alpha	The alpha transparency, a number in [0,1], see argument alpha in hsv.
reverse	If TRUE, the direction of the colours is reversed.

Value

A scale_fill_vangogh function

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vangogh	*vangogh*

Description

list of palettes generated from Vincent van Gogh's paintings

Details

list of palettes generated from Vincent van Gogh's paintings

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vangogh_pal   *vangogh palette with ramped colours*

Description

vangogh palette with ramped colours

Usage

```
vangogh_pal(palette = "StarryRhone", alpha = 1, reverse = FALSE)
```

Arguments

palette   Choose from 'vangogh_palettes' list
alpha   transparency
reverse   If TRUE, the direction of the colours is reversed.

Value

Palettes with ramped colors from predefined palettes

Examples

```
library(scales)
show_col(vangogh_pal()(10))

filled.contour(volcano, color.palette = vangogh_pal(), asp = 1)
```

---

vangogh_palette   *A Van Gogh color palette generator.*

Description

These are some color palettes from a selection of Vincent van Gogh's paintings.

Usage

```
vangogh_palette(name, n, type = c("discrete", "continuous"))
```

Arguments

name   Name of desired palette. Choices are: StarryNight, StarryRhone, SelfPortrait,
                CafeTerrace, Eglise, Irises, SunflowersMunich, SunflowersLondon, Rest
                ,Bedroom , CafeDeNuit, Chaise, Shoes, Landscape, Cypresses
n   Number of colors desired. All palettes have a standard of 5 colors. If omitted,
                uses all colors.
type   Either "continuous" or "discrete". Use "continuous" to automatically interpolate
                between colours. @importFrom graphics rgb rect par image text

Value

A vector of colors.

Examples

```
vangogh_palette("StarryNight")
vangogh_palette("SelfPortrait")
vangogh_palette("Cypresses")
vangogh_palette("Cypresses", 3)

# If you want a continous paletted based on the colors already found in the preset
# palettes, you can interpolate between existing colours accordingly.
pal <- vangogh_palette(21, name = "StarryRhone", type = "continuous")
```

---

vangogh_palettes	*Complete list of palettes:*

Description

Use vangogh_palette to construct palettes of desired length.

Usage

```
vangogh_palettes
```

Format

An object of class list of length 15.

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viz_palette	*Show a single palette*

Description

Display a single palette to see whether it meets your needs. If no num parameter is given, all the colours in the palette will be displayed. If num is less than the number of colours in the palette, then only the first num colours will be displayed. If num is greater than the number of colours in the palette, then that many colours will be generated by linear interpolation over the vector of colours in the chosen palette.

Usage

```
viz_palette(pal, ttl = deparse(substitute(pal)), num = length(pal))
```

Arguments

`pal`	character, vector of (hexadecimal) colours representing a palette
`ttl`	character, title to be displayed (the name of the palette)
`num`	numeric, the number of colours to display

Value

A vector of colors from a single palette

Examples

```
viz_palette(vangogh_palettes$StarryNight)
viz_palette(vangogh_palettes$StarryNight, "StarryNight")
viz_palette(vangogh_palettes$StarryNight, "StarryNight first 4", num = 4)
viz_palette(vangogh_palettes$StarryNight, "StarryNight interpolated to 25", num = 25)
```

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