

Package ‘vangogh’

August 21, 2025

Title Vincent Van Gogh Colour Palette Generator
Version 0.1.2
Description Provides 'ggplot2'-compatible colour palettes inspired by Vincent van Gogh's paintings. Each palette contains five colours, manually selected by hexadecimal values.
License MIT + file LICENSE
Encoding UTF-8
RoxygenNote 7.3.2
Imports ggplot2, rlang, methods
Suggests scales, knitr, rmarkdown, colorspace, jsonlite
VignetteBuilder knitr
URL <https://github.com/cherylisabella/vangogh>
BugReports <https://github.com/cherylisabella/vangogh/issues>
NeedsCompilation no
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Repository CRAN
Date/Publication 2025-08-21 14:20:02 UTC

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check_palette	<i>Check palette accessibility with colorblind simulations</i>
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Description

Check palette accessibility with colorblind simulations

Usage

```
check_palette(name, type = "discrete", n = NULL)
```

Arguments

name	Palette name (character)
type	Either "discrete" or "continuous" (default "discrete")
n	Number of colors for continuous palettes

Examples

```
## Not run:  
vangogh::check_palette("StarryNight")  
  
## End(Not run)
```

compare_palettes	<i>Compare multiple Van Gogh palettes in a facet-style visualization</i>
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Description

Compare multiple Van Gogh palettes in a facet-style visualization

Usage

```
compare_palettes(  
  palettes,  
  show_hex = TRUE,  
  colorblind = FALSE,  
  type = "discrete",  
  n = NULL  
)
```

Arguments

palettes	Character vector of palette names
show_hex	Logical: display hex codes
colorblind	Logical: simulate colorblind view
type	"discrete" or "continuous"
n	Number of colors for continuous palettes

safe_vangogh_palette	<i>Generate a colorblind-safe Van Gogh palette</i>
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Description

Returns the original palette (colorblind adjustment removed).

Usage

```
safe_vangogh_palette(name, type = "discrete", n = NULL, colorblind = FALSE)
```

Arguments

name	Palette name
type	Either "discrete" or "continuous"
n	Number of colors for continuous palettes
colorblind	Logical, kept for compatibility

scale_color_vangogh	<i>Scale color with Van Gogh palettes</i>
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Description

Scale color with Van Gogh palettes

Usage

```
scale_color_vangogh(name, discrete = TRUE, colorblind = FALSE, ...)  
  
scale_colour_vangogh(name, discrete = TRUE, colorblind = FALSE, ...)
```

Arguments

name	Palette name
discrete	Logical: use discrete scale
colorblind	Logical: use colorblind-safe colors
...	Additional arguments to ggplot2 scale function

scale_fill_vangogh	<i>Scale fill with Van Gogh palettes</i>
--------------------	--

Description

Scale fill with Van Gogh palettes

Usage

```
scale_fill_vangogh(name, discrete = TRUE, colorblind = FALSE, ...)
```

Arguments

name	Palette name
discrete	Logical: use discrete scale
colorblind	Logical: use colorblind-safe colors
...	Additional arguments to ggplot2 scale function

theme_vangogh	<i>Theme inspired by Van Gogh (variants)</i>
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Description

Theme inspired by Van Gogh (variants)

Usage

```
theme_vangogh(  
  base_size = 12,  
  base_family = "",  
  variant = c("classic", "light", "dark", "sketch")  
)
```

Arguments

base_size	numeric base font size
base_family	font family
variant	one of "classic", "light", "dark", "sketch"

vangogh_colors	<i>Return all Van Gogh palettes as a tidy data frame</i>
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Description

Return all Van Gogh palettes as a tidy data frame

Usage

```
vangogh_colors(  
  n = NULL,  
  type = "discrete",  
  colorblind = FALSE,  
  add_metadata = FALSE  
)
```

Arguments

n	Number of colors per palette
type	"discrete" or "continuous"
colorblind	Logical (compatibility)
add_metadata	Logical: compute HCL metadata if colorspace available

vangogh_export	<i>Export palettes to JSON or CSV</i>
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Description

Export palettes to JSON or CSV

Usage

```
vangogh_export(  
  file,  
  format = c("json", "csv"),  
  n = NULL,  
  type = "discrete",  
  add_metadata = FALSE  
)
```

Arguments

file	File path including filename
format	"json" or "csv"
n	Number of colors (for continuous palettes)
type	"discrete" or "continuous"
add_metadata	Logical: include HCL metadata if available

vangogh_interpolate	<i>Interpolate a Van Gogh palette</i>
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Description

Interpolate a Van Gogh palette

Usage

```
vangogh_interpolate(palette, n)
```

Arguments

palette	Vector of hex colors
n	Number of colors desired

vangogh_palette	<i>A Van Gogh color palette generator.</i>
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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, StarryRhône, 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 continuous palette 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	<i>Complete list of palettes:</i>
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Description

Use [vangogh_palette](#) to construct palettes of desired length.

Usage

```
vangogh_palettes
```

Format

An object of class list of length 15.

vangogh_palette_info	<i>Return palette info as a data frame with optional HCL</i>
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Description

Return palette info as a data frame with optional HCL

Usage

```
vangogh_palette_info(colorblind = FALSE, add_metadata = FALSE)
```

Arguments

colorblind	Logical (compatibility)
add_metadata	Logical: compute HCL hue/chroma/luminance if colorspace is installed

vangogh_suggest	<i>Suggest a palette based on number of colors</i>
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Description

Suggest a palette based on number of colors

Usage

```
vangogh_suggest(n = 5, type = "discrete")
```

Arguments

n	Number of colors needed
type	"discrete" or "continuous"

viz_palette	<i>Visualise a Van Gogh palette with optional colorblind simulation</i>
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Description

Visualise a Van Gogh palette with optional colorblind simulation

Usage

```
viz_palette(  
  name,  
  show_hex = TRUE,  
  colorblind = FALSE,  
  type = "discrete",  
  n = NULL  
)
```

Arguments

name	Palette name
show_hex	Display hex codes (TRUE/FALSE)
colorblind	Show colorblind simulation (TRUE/FALSE)
type	Either "discrete" or "continuous"
n	Number of colors for continuous palettes

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