

# Package: ggRtsy (via r-universe)

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**Type** Package

**Title** Add Some Van Gogh Colors and Overlay Colors on Your 'ggplot()'

**Version** 0.1.0

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**Description** Works with 'ggplot2' to add a Van Gogh color palette to the user's repertoire. It also has a function that work alongside 'ggplot2' to create more interesting data visualizations and add contextual information to the user's plots.

**License** CC0

**Encoding** UTF-8

**LazyData** true

**Depends** R (>= 2.10)

**RoxygenNote** 7.2.3

**Imports** purrr, stringr, ggplot2, tibble, magrittr, grDevices, dplyr

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

**Config/testthat/edition** 3

**VignetteBuilder** knitr

**Repository** <https://katelyndiaz.r-universe.dev>

**RemoteUrl** <https://github.com/katelyndiaz/ggrtsy>

**RemoteRef** HEAD

**RemoteSha** 86d0e09c231babffcdb1069848b3c3e66267d006

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goghColors	<i>Sampling of Colors from Van Gogh Paintings</i>
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**Description**

This dataset consists of information on 986 colors across Van Gogh paintings.

**Usage**

goghColors

**Format**

A data frame of 986 rows representing colors selected from Van Gogh’s painting. 5 colors were selected from each painting. Consists of 3 variables.

- name** Color name
- rgb** Color RGB value
- hex** Color hex code value

**Source**

Kaggle Konstantinos Katserelis <[https://www.kaggle.com/datasets/pointblanc/colors-of-van-gogh?select=color\\_space.csv](https://www.kaggle.com/datasets/pointblanc/colors-of-van-gogh?select=color_space.csv)>  
Note data is released under CC BY-SA 4.0

goghPaintingSets	<i>Van Gogh Paintings Information</i>
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**Description**

This dataset consists of information about and colors from all 1931 of Van Gogh’s paintings.

**Usage**

goghPaintingSets

**Format**

A data frame of 1931 rows representing information from Van Gogh's paintings. Consists of 6 variables.

**name** Painting name

**colors** 5 colors picked from the painting

**year** Year painting was painted

**genre** Genre of painting

**style** Style of painting

**link** Link of image of painting

**Source**

Kaggle Konstantinos Katserelis <[https://www.kaggle.com/datasets/pointblanc/colors-of-van-gogh?select=color\\_space.csv](https://www.kaggle.com/datasets/pointblanc/colors-of-van-gogh?select=color_space.csv)>  
Note data is released under CC BY-SA 4.0

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gogh_interpolate	<i>Interpolate the color palette</i>
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**Description**

Interpolate the color palette

**Usage**

```
gogh_interpolate(palette = "starryNight", reverse = FALSE, ...)
```

**Arguments**

palette	the ggRtsy painting color palette of choice
reverse	Boolean, will be TRUE if the user wants the palette reversed
...	further arguments passed to [ggRtsy::gogh_interpolate()]

**Value**

A color interpolation function. If 'reverse' is TRUE, it returns a reversed color interpolation function.

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gogh_palettes_pop	<i>Different color palettes created from Van Gogh paintings</i>
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**Description**

Different color palettes created from Van Gogh paintings

**Usage**

```
gogh_palettes_pop
```

**Format**

An object of class list of length 8.

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RectangleFiller	<i>Adds transparent coloring horizontally across a ggplot</i>
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**Description**

Adds up to 5 colors of choice horizontally across a ggplot graph for data emphasis or decoration.

**Usage**

```
RectangleFiller(  
  plot1,  
  hex_codes = c("red", "blue", "green", "orange", "purple")  
)
```

**Arguments**

plot1	a ggplot with a continuous x-axis
hex_codes	series of wanted colors

**Value**

ggplot item with colors

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rgbToHex	<i>Converts RGB colors to Hex code colors</i>
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**Description**

Converts RGB colors to Hex code colors

**Usage**

```
rgbToHex(rgbVec)
```

**Arguments**

rgbVec            a vector of strings in the format "(0, 72, 186)"

**Details**

Taking input of a vector of RGB values in the format "(0, 72, 186)", etc, and returns the corresponding hex value in the format "#0048ba"

**Value**

vector of hex code strings in the format "#0048ba"

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scale_color_gogh	<i>Creating the color scale for Van Gogh Colors</i>
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**Description**

Creating the color scale for Van Gogh Colors

**Usage**

```
scale_color_gogh(
  palette = "starryNight",
  discrete = TRUE,
  reverse = FALSE,
  ...
)
```

**Arguments**

palette            the ggRtsy painting color palette of choice  
discrete            Boolean if color aesthetic is discrete  
reverse            Boolean, will be TRUE if the user wants the palette reversed  
...                further arguments passed to [ggRtsy::scale\_color\_gogh()]

**Value**

A ggplot2 color scale. If 'discrete' is TRUE, it returns a discrete color scale; otherwise, a continuous color scale.

**Examples**

```
if (require(ggplot2)) {
  data <- data.frame(c = LETTERS[1:3], x = c(1,5,7), y = c(5,9,13))
  ggplot(data, aes(x,y,color = c))+geom_point()+scale_color_gogh()
}
```

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scale\_fill\_gogh      *Creating the color fill scale for Van Gogh Colors*

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**Description**

Creating the color fill scale for Van Gogh Colors

**Usage**

```
scale_fill_gogh(palette = "sunflowers", discrete = TRUE, reverse = FALSE, ...)
```

**Arguments**

palette	Character name of palette in gogh_palettes_pop
discrete	Boolean if color aesthetic is discrete
reverse	Boolean if the palette should be reversed
...	Additional arguments used to discrete_scale() or scale_fill_gradientn() to automatically interpolate between colors.

**Value**

No return value. Called for side effects.

**Examples**

```
if (require(ggplot2)) {
  data <- data.frame(c = LETTERS[1:3], x = c(1,5,7), y = c(5,9,13))
  ggplot(data, aes(x,fill=c))+geom_bar()+scale_fill_gogh()
}
```

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