Package 'colormap'

October 12, 2022

Type Package

Title Color Palettes using Colormaps Node Module

Version 0.1.4

Description Allows to generate colors from palettes defined in the colormap module of 'Node.js'. (see <https://github.com/bpostlethwaite/colormap> for more information). In total it provides 44 distinct palettes made from sequential and/or diverging colors. In addition to the pre defined palettes you can also specify your own set of colors. There are also scale functions that can be used with 'ggplot2'.

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Encoding UTF-8

LazyData true

Depends R (>= 3.1.0)

Imports V8, stringr, ggplot2

RoxygenNote 5.0.1

URL https://github.com/bhaskarvk/colormap

BugReports https://github.com/bhaskarvk/colormap/issues

Suggests scales, testthat

NeedsCompilation no

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Repository CRAN

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R topics documented:

colormap *A package to generate colors from a list of 44 pre-defined palettes*

Description

A package to generate colors from a list of 44 pre-defined palettes

Generate colors from a list of 44 palettes

Usage

```
colormap(colormap = colormaps$viridis, nshades = 72, format = "hex",
  alpha = 1, reverse = FALSE)
```

Arguments

colormap	A string, vector of hex color codes, or a list. Use the colormaps for a list of pre-defined palettes. OR A vector of colors in hex e.g. `c('#000000','#777777','#FFFFFF')` OR A list of list e.g. `list(list(index=0,rgb=c(255,255,255)),list(index=1,rgb=c(255,0,0)))` The index should go from 0 to 1. see https://www.npmjs.com/package/colormap#options
nshades	A number. Number of colors to generate.
format	A string. Should be 'hex', 'rgb', or 'rgbaString'
alpha	A Number between 0 and 1
reverse	Boolean. Whether to reverse the order.

Value

Colors either in vector, matrix, list format depending on format.

Author(s)

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Examples

```
colormap() # Defaults to 72 colors from the 'viridis' palette.
colormap(colormap=colormaps$temperature, nshades=20) # Diff Palette
colormap(colormap=c('#000000','#FF0000'), nshades=20) # Colormap as vector of colors
# list of list. Maximum flexibility
colormap(colormap=list(list(index=0,rgb=c(0,0,0)),list(index=1,rgb=c(255,255,255))), nshades=10)
colormap(format='rgb',nshades=10) # As rgb
colormap(format='rgb',nshades=10,alpha=0.5) # Constant alpha
colormap(format='rgbaString',nshades=10) # As rgba string
```

colormaps *List of pre-defined colormaps*

Description

List of pre-defined colormaps

Usage

```
colormaps
```

Format

An object of class `list` of length 44.

colormap_pal *Create a Palette generating function*

Description

Create a Palette generating function

Usage

```
colormap_pal(alpha = 1, colormap = colormaps$viridis, reverse = FALSE)
```

Arguments

`alpha`	pass through parameter to `colormap`
`colormap`	pass through parameter to `colormap`
`reverse`	pass through parameter to `colormap`

Value

A function that can generate colors from a specified colormap.

Examples

```
scales::show_col(colormap_pal()(10))
scales::show_col(colormap_pal(colormap=colormaps$viridis)(100), labels=FALSE)
```

`scale_color_colormap` *Colormap color scales*

Description

Uses the colormap color scale

Usage

```
scale_color_colormap(..., alpha = 1, colormap = colormaps$viridis,
  discrete = FALSE, reverse = FALSE)

scale_fill_colormap(..., alpha = 1, colormap = colormaps$viridis,
  discrete = FALSE, reverse = FALSE)
```

Arguments

`...`	parameters to `discrete_scale` or `scale_fill_gradientn`
`alpha`	pass through parameter to `colormap`
`colormap`	pass through parameter to `colormap`
`discrete`	generate a discrete palette? (default: `FALSE` - generate continuous palette)
`reverse`	pass through parameter to `colormap`

Details

For `discrete == FALSE` (the default) all other arguments are as to scale_fill_gradientn or scale_color_gradientn. Otherwise the function will return a `discrete_scale` with the plot-computed number of colors.

See colormap for more information on the color scale.

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