Package 'colormap'

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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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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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