Package ‘rcolors’

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Title 270 ‘NCL’ Color Tables in R Language

Description ‘NCL’ (NCAR Command Language) is one of the most popular spatial
data mapping tools in meteorology studies, due to its beautiful output
figures with plenty of color palettes designed by experts
<https://www.ncl.ucar.edu/index.shtml>. Here we translate all ‘NCL’ color palettes into R hexadecimal RGB colors and
provide color selection function, which will help users make a beautiful figure.

Version 0.1.0

Depends R (>= 3.1)

Imports magrittr

License GPL-3

Encoding UTF-8

LazyData true

RoxygenNote 7.1.1

Suggests testthat, covr

NeedsCompilation no

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get_color

Get and interpolate colors

Description

Get and interpolate colors

Usage

get_color(col, n = NULL, show = FALSE)

Arguments

- **col**: color name in the rcolors or a vector of colors
- **n**: Integer, default is length of col
- **show**: Boolean, whether to visualize those colors?

Details

supported col names: 270 ncl colors (names(rcolors)) and 35 RColorBrewer colors (names(colors_group$brewer)).

Value

A character vector with elements of 7 or 9 characters, "#" followed by the red, blue, green and optionally alpha values in hexadecimal (after rescaling to 0 ... 255). The optional alpha values range from 0 (fully transparent) to 255 (opaque).

R does not use ‘premultiplied alpha’.

See Also

show_cols()

Examples

print(names(rcolors[1:6]))
print(names(colors_group$brewer))
get_color("amwg_blueyellowred", n = 20)
**show_cols**

**Show list of colors**

**Description**

Show list of colors

- `show_cols`: show list of colors
- `show_cols_brewer`: show list of colors in RColorBrewer style

**Usage**

```r
show_cols(colors_list, margin = 8, fontsize = 1, family = NULL)
show_cols_brewer(colors_list)
show_col(colors, labels = TRUE, borders = NULL, cex_label = 1, nrow = NULL)
```

**Arguments**

- `colors_list`: A list objects filled with colors_list or a color vector
- `margin`: margin in the left
- `family`, `fontsize`: font family and size of color names in the left
- `colors`: a character vector of colors
- `labels`: boolean, whether to show the hexadecimal representation of the colours in each tile
- `borders`: colour of the borders of the tiles
- `cex_label`: size of printed labels, works the same as cex parameter of `plot()`
- `nrow`: integer, number of rows

**Examples**

```r
print(names(colors_group))
show_cols(colors_group$rainbow, margin = 14)
```
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