# Package 'rcolors'

October 14, 2022

**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

**Author** Dongdong Kong [aut, cre] (<https://orcid.org/0000-0003-1836-8172>)

**Maintainer** Dongdong Kong <kongdd.sysu@gmail.com>

**Repository** CRAN

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## R topics documented:

## get_color

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()](show_cols())

### Examples

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

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show_cols                          *Show list of colors*

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## Description

Show list of colors

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

## Usage

```
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()](plot())

nrow             integer, number of rows

## Examples

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

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