

Package ‘rcolors’

May 9, 2026

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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Repository CRAN

Date/Publication 2021-04-23 10:40:02 UTC

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get_color	<i>Get and interpolate colors</i>
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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	<i>Show list of colors</i>
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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()
nrow	integer, number of rows

Examples

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

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