

# 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	<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)
```

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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 <a href="#">plot()</a>
nrow	integer, number of rows

**Examples**

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

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