

Package ‘xkcdcolors’

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Type Package

Title Color Names from the XKCD Color Survey

Version 1.0

Author Thomas Lumley, using data from Randall Munroe and about 2.2e5 survey participants

Maintainer Thomas Lumley <t.lumley@auckland.ac.nz>

Description The XKCD color survey asked participants to name colours. Randall Munroe published the top thousand(roughly) names and their sRGB hex values. This package lets you use them.

Imports grDevices, FNN

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R topics documented:

xkcdcolors-package	1
name2color	3
nearest_named	4
xcolors	5

Index	6
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Details

The DESCRIPTION file:

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Index of help topics:

name2color	Look up a color by name
nearest_named	Find nearest named color to a specified color.
xcolors	List the XKCD survey colors
xkcdcolors-package	Color Names from the XKCD Color Survey

Author(s)

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References

<http://blog.xkcd.com/2010/05/03/color-survey-results/>

name2color	<i>Look up a color by name</i>
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Description

Look up a color by exact or partial name.

Usage

```
name2color(name, exact = TRUE, hex_only = TRUE, n = -1)
```

Arguments

name	Character string giving color name
exact	If TRUE return only exact matches to the name, otherwise use grep to find partial matches
hex_only	If TRUE return only the color as a hex string, otherwise return the name and RGB as well
n	For partial matching, limit the results to the n highest-frequency (in the survey) colors.

Value

A character string with a hex color code, or a data frame

Author(s)

Thomas Lumley

References

<http://blog.xkcd.com/2010/05/03/color-survey-results/>

Examples

```
name2color("green")  
name2color("green", exact=FALSE, hex_only=FALSE, n=10)  
barplot(rep(1,10), col=name2color("green", exact=FALSE, n=10))
```

nearest_named

Find nearest named color to a specified color.

Description

Looks up the nearest (sufficiently popular) named color to the specified color

Usage

```
nearest_named(color, hex_only = FALSE, max_rank = -1, Lab=TRUE)
```

Arguments

color	Vector of character strings or matrix of RGB values
hex_only	if TRUE return only the hex string, otherwise all the data
max_rank	Consider only the max_rank most popular colors.
Lab	Use the 'Lab' color space if TRUE, otherwise RGB

Value

A hex string with the color, or a data frame

References

<http://blog.xkcd.com/2010/05/03/color-survey-results/>

Examples

```
nearest_named("#8f7303")
nearest_named("#8f7303",max_rank=100)
nearest_named("#8f7303",max_rank=10)
```

xcolors

List the XKCD survey colors

Description

Lists (a subset of) the 949 colors consistently identified in the XKCD web color survey.

Usage

```
xcolors(max_rank = -1)
```

Arguments

max_rank If positive, restrict to the top (most frequently named) max_rank colors.

Value

Vector of character strings

References

<http://blog.xkcd.com/2010/05/03/color-survey-results/>

Examples

```
xcolors(10)
name2color(xcolors(10))
barplot(rep(1,10),col=name2color(xcolors(10)))
```

Index

*Topic **graphics**

- name2color, [3](#)
- nearest_named, [4](#)
- xcolors, [5](#)

name2color, [3](#)
nearest_named, [4](#)

xcolors, [5](#)
xkcdcolors (xkcdcolors-package), [1](#)
xkcdcolors-package, [1](#)