

Package ‘rolocISCCNBS’

October 14, 2022

Type Package

Title A Colour List and Colour Metric Based on the ISCC-NBS System of Color Designation

Version 0.1

Author Paul Murrell

Maintainer Paul Murrell <paul@stat.auckland.ac.nz>

Description A colour list and colour metric based on the ISCC-NBS System of Color Designation for use with the 'roloc' package for converting colour specifications to colour names.

License GPL-2 | GPL-3

Depends roloc

Imports methods, colorspace

NeedsCompilation no

Repository CRAN

Date/Publication 2018-08-02 15:30:06 UTC

R topics documented:

ISCCNBSblock	1
ISCCNBScolours	2

Index	4
--------------	----------

ISCCNBSblock	<i>An ISCC-NBS Colour Metric</i>
--------------	----------------------------------

Description

A colour metric based on the ISCC-NBS System of Colour Designation.

Usage

```
ISCCNBSblock(colour, colourList, ...)
```

Arguments

colour An "sRGB" colour object representing colours to find a match for.
 colourList An "sRGB" colour object representing a list of colours to find a match within.
 ... Other arguments passed by the colourMatch function from the **roloc** package.

Details

All colours and all if colourList are converted to an ISCCNBS block. The distance between a colour specification and a colour name is 0 if both are within the same block or Inf if they are not in the same block. It is also possible that either the colour specification or the colour name does not correspond to any block (could not be converted), in which case the distance is NA.

Value

A matrix of distances, with one row per colour specification and one column per colour name.

Author(s)

Paul Murrell

Examples

```
colourName(palette())
colourName(palette(), colourList=ISCCNBScolours)
colourName(palette(), colourList=ISCCNBScolours, colourMetric=ISCCNBSblock)
```

 ISCCNBScolours

An ISCC-NBS Colour List

Description

A colour list based on the ISCC-NBS System of Colour Designation. There are 267 colour names, with each name corresponding to a "block" or region of Munsell colour space. The sRGB colour for each name in the list represents the centroid of the relevant block.

Usage

```
ISCCNBScolours
```

Format

A "colourList" object.

Author(s)

Paul Murrell

Examples

```
colourName(palette())  
colourName(palette(), colourList=ISCCNBScolours)  
colourName(palette(), colourList=ISCCNBScolours, colourMetric=ISCCNBSblock)
```

Index

* **datasets**

ISCCNBScolours, [2](#)

* **dplot**

ISCCNBSblock, [1](#)

ISCCNBSblock, [1](#)

ISCCNBScolors (ISCCNBScolours), [2](#)

ISCCNBScolours, [2](#)