Package ‘rolocISCCNBS’

Type Package
Title A Colour List and Colour Metric Based on the ISCC-NBS System of Color Designation
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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.
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ISCCNBSblock An ISCC-NBS Colour Metric

Description

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

Usage

ISCCNBSblock(colour, colourList, ...)

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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

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

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### ISCCNBScolours

_A 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=ISCCNBScoloursBlock)
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