Package 'paintmap'

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Type Package

Title Plotting Paintmaps

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Description Plots matrices of colours as grids of coloured squares - aka heatmaps,
guaranteeing legible row and column names,
without transformation of values,
without re-ordering rows or columns,
and without dendrograms.

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R topics documented:

paintmap-package *Plotting paintmaps*

Description

Plots matrices of colours as grids of coloured squares - aka heatmaps, guaranteeing legible row and column names, without transformation of values, without re-ordering rows or columns, and without dendrograms.

Details

The function 'bhm' takes a matrix of colours (i.e. a character matrix of descriptions like red or hex-codes), and creates a plot using 'grid' graphics.

Author(s)

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Examples

```
paintmap(matrix(heat.colors(9), 3, 3, dimnames=list(letters[1:3], letters[4:6])))
```

color_matrix *Convert numeric matrix to color (character) matrix*

Description

Given a numeric matrix, assign to each cell a color (character) value based on linearly interpolating a given vector of colors.

Usage

```
color_matrix(x, colors = heat.colors(10))
```

Arguments

x	Numeric or logical matrix.
colors	Character vector of colors.

Value

Character matrix.

colour_matrix *Convert numeric matrix to colour (character) matrix*

Description

Given a numeric matrix, assign to each cell a colour (character) value based on linearly interpolating a given vector of colours.

Usage

```
colour_matrix(x, colours = heat.colors(10))
```

Arguments

x	Numeric or logical matrix.
colours	Character vector of colours.

Value

Character matrix.

inches_tall *Get number of inches high a putative heatmap will be*

Description

Get number of inches high a putative heatmap will be

Usage

```
inches_tall(x, row_lines = 1)
```

Arguments

x	Character matrix of colours
row_lines	Numeric value determining number of lines width each row of the heatmap should occupy.

Value

Numeric value.

inches_wide *Get number of inches across a putative heatmap will be*

Description

Get number of inches across a putative heatmap will be

Usage

```
inches_wide(x, col_lines = 1)
```

Arguments

x	Character matrix of colours
col_lines	Numeric value determining number of lines width each column of the heatmap should occupy.

Value

Numeric value.

lines_between_hm_and_labels *Lines of space between the heatmap and row/column labels*

Description

Lines of space between the heatmap and row/column labels

Usage

```
lines_between_hm_and_labels
```

Format

An object of class numeric of length 1.

margin_lines *Lines of space at margins of paintmap*

Description

Lines of space at margins of paintmap

Usage

```
margin_lines
```

Format

An object of class `numeric` of length 1.

paintmap *Plot paintmap*

Description

Plot paintmap

Usage

```
paintmap(x, add = FALSE, ...)
```

Arguments

x	Character matrix of colours
add	Add ink to current viewport.
...	Other graphical parameters for the rectangles of the grid to pass to `grid` function `gpar`, in turn passed to `grid` function `grid.rect`.

Value

Plots heatmap.

Examples

```
paintmap(matrix(heat.colors(9), 3, 3, dimnames=list(letters[1:3], letters[4:6])))
```

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