

Package ‘bivariatemaps’

November 21, 2023

Title Creates Bivariate Maps

Version 1.2

Description

Contains functions to plot bivariate maps and to generate grids from shapefiles based on area coverage. For more info, see: Hidasi-Neto, J (2015) <<https://rfunctions.blogspot.com/2015/03/bivariate-maps-bivariatemap-function.html>>, Hidasi-Neto, J (2014) <<https://rfunctions.blogspot.com/2014/12/gridfilter-intersect-grid-with-shape.html>>.

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Encoding UTF-8

Imports classInt, terra, base, graphics, stats

RoxygenNote 7.2.3

NeedsCompilation no

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Repository CRAN

Date/Publication 2023-11-21 11:40:02 UTC

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|---------------|--|
| bivariate.map | <i>bivariate.map: Create a Bivariate Map</i> |
|---------------|--|

Description

Creates a Bivariate Map using two rasters and a color matrix created with colmat() function.

Usage

```
bivariate.map(rasterx, rastery, colormatrix, nquantiles = 10)
```

Arguments

| | |
|-------------|---|
| rasterx | raster |
| rastery | raster |
| colormatrix | color matrix from colmat() function |
| nquantiles | number of quantiles in color matrix (same as used when using colmat() function) |

Value

A plot with the bivariate map.

Examples

```
# https://rfunctions.blogspot.com/2015/03/bivariate-maps-bivariatemap-function.html
```

| | |
|--------|--------------------------------------|
| colmat | <i>colmat: Create a Color Matrix</i> |
|--------|--------------------------------------|

Description

Creates a color matrix to be used in bivariate.map() function.

Usage

```
colmat(
  nquantiles = 10,
  upperleft = "blue",
  upperright = "red",
  bottomleft = "grey",
  bottomright = "yellow",
  xlab = "x label",
  ylab = "y label"
)
```

Arguments

| | |
|-------------|--|
| nquantiles | numeric variable for number of quantiles in color matrix |
| upperleft | upperleft color of color matrix |
| upperright | upperright color of color matrix |
| bottomleft | bottomleft color of color matrix |
| bottomright | bottomright color of color matrix |
| xlab | character variable |
| ylab | character variable |

Value

Two outputs: a color matrix object to be used in `bivariate.map()` function, and a plot of the color matrix.

Examples

```
col.matrix<-colmat(nquantiles=10, xlab="My x label", ylab="My y label")
```

```
# https://rfunctions.blogspot.com/2015/03/bivariate-maps-bivariatemap-function.html
```

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