Package: cartomisc (via r-universe)

September 1, 2024

Title Miscellaneous Tools for Spatial Data Manipulation and Analysis

Version 0.0.0.9000

Description Some useful tools for use with spatial data.

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Imports dplyr, magrittr, raster, sf, units, utils

Suggests ggplot2, knitr, rmarkdown

VignetteBuilder knitr

Encoding UTF-8

LazyData true

RoxygenNote 7.1.0

Repository https://statnmap.r-universe.dev

RemoteUrl https://github.com/statnmap/cartomisc

RemoteRef HEAD

RemoteSha 4e88026b60551c13367c40ca5cb6c1f29591f75a

Contents

`gplot_data` *Transform raster as data.frame to be later used with ggplot Modified from rasterVis::gplot*

Description

Transform raster as data.frame to be later used with ggplot Modified from rasterVis::gplot

Usage

```
gplot_data(x, maxpixels = 50000)
```

Arguments

x	A Raster* object
maxpixels	Maximum number of pixels to use

Details

rasterVis::gplot is nice to plot a raster in a ggplot but if you want to plot different rasters on the same plot, you are stuck. If you want to add other information or transform your raster as a category raster, you can not do it. With ‘cartomisc::gplot_data‘, you retrieve your raster as a data.frame that can be modified as wanted using ‘dplyr‘ and then plot in ‘ggplot‘ using ‘geom_tile‘. If Raster has levels, they will be joined to the final tibble.

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regional_seas *Create buffer divided by closest region*

Description

Create buffer divided by closest region

Usage

```
regional_seas(
  x,
  group,
  dist = units::set_units(30, km),
  density = units::set_units(0.1, 1/km)
)
```

Arguments

x	Spatial polygon layer
group	Character. The grouping variable for your subareas
dist	distance from coasts of the buffer area. See ?sf::st_buffer
density	density of points along the coastline. (the higher, the more precise the region attribution)

sun_position	*Calculate the position of the sun according to date and geographical position in wgs84 Found here: http://stackoverflow.com/questions/8708048/position-of-the-sun-given-time-of-day-latitude-and-longitude*

Description

Calculate the position of the sun according to date and geographical position in wgs84 Found here: http://stackoverflow.com/questions/8708048/position-of-the-sun-given-time-of-day-latitude-and-longitude

Usage

```
sun_position(
  year,
  month,
  day,
  hour = 12,
  min = 0,
  sec = 0,
  lat = 46.5,
  long = 6.5
)
```

Arguments

year	year
month	month
day	day
hour	hour
min	min
sec	sec
lat	lat
long	long

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