Package 'geoaxe'

August 29, 2016

Title Split 'Geospatial' Objects into Pieces

Description Split 'geospatial' objects into pieces. Includes support for some spatial object inputs, 'Well-Known Text', and 'GeoJSON'.

Version 0.1.0

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URL https://github.com/ropenscilabs/geoaxe

BugReports https://github.com/ropenscilabs/geoaxe/issues

VignetteBuilder knitr

Imports methods, sp, rgeos, jsonlite

Suggests testthat, knitr

RoxygenNote 5.0.1

NeedsCompilation no

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`geoaxe-package` *Split geospatial objects into pieces*

Description

Split geospatial objects into pieces

chop *Split polygon into many*

Description

Split polygon into many

Usage

```
chop(x, size = 10, n = 20)
```

Arguments

x	Spatial object
size	size of each side of each cell, which makes a square cell
n	number of cells to make in each dimension, same number used for each dimension

Details

Works on spatial classes of type `SpatialPolygons`, Well-Known Text character strings, and GeoJSON character strings and lists

Examples

```
library("rgeos")
wkt <- "POLYGON((-180 -20, -140 55, 10 0, -140 -60, -180 -20))"

# SpatialPolygons input
poly <- readWKT(wkt)
plot(poly)
polys <- chop(x = poly)
to_wkt(polys)
to_wkt(polys)[[2]]
plot(polys)
plot(poly, add = TRUE, lwd = 6)

# SpatialPolygonsDataFrame input
class(poly)
polydf <- as(poly, "SpatialPolygonsDataFrame")
class(polydf)
chop(polydf)

# WKT character input
chop(wkt)

# geojson character input
file <- system.file("examples", "sample1.geojson", package = "geoaxe")
x <- readLines(file)
```

```
chop(x)

# geojson json input
x <- structure(x, class = "json")
chop(x)
```

`to_wkt` *To WKT*

Description

To WKT

Usage

```
to_wkt(x)
```

Arguments

x	Input

Examples

```
library("rgeos")
wkt <- "POLYGON((-180 -20, -140 55, 10 0, -140 -60, -180 -20))"
poly <- readWKT(wkt)
polys <- chop(x = poly)
to_wkt(polys)
to_wkt(polys)[[2]]
```

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