

Package ‘AmostraBrasil’

July 26, 2016

Type Package

Title Generates Samples or Complete List of Brazilian IBGE (Instituto Brasileiro De Geografia e Estatistica) Census Households, Geocoding it by Google Maps

Version 1.2

Depends R (>= 3.1.3)

Imports methods, RJSONIO, RCurl, stringr, sp, rgdal, foreign

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Description Generates samples or complete list of Brazilian IBGE (Instituto Brasileiro de Geografia e Estatistica, see <<http://www.ibge.gov.br/>> for more information) census households, geocoding it by Google Maps. The package connects IBGE site and downloads maps and census data.

License GPL

LazyData yes

RoxygenNote 5.0.1

NeedsCompilation no

Repository CRAN

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amostraBrasil *Generates Brazil's IBGE Householding Sample*

Description

Generates Brazil's IBGE Householding Sample

Usage

```
amostraBrasil(codibge = "", municipio = "", listasetor = c(), N = 0,  
              geocod = F, shape = F, saveall = T, dados = NULL)
```

Arguments

codibge	A string
municipio	A string
listasetor	A string vector
N	A number
geocod	A boolean
shape	A boolean
saveall	A boolean
dados	A null

Value

A dataframe with N addresses sampled from IBGE census

Examples

```
amostraBrasil(municipio="Pindoba", N=5, geocod=TRUE, shape=TRUE)
```

dirFTP *List Files in FTP Site*

Description

List Files in FTP Site

Usage

```
dirFTP(myURL = "", codibge = "")
```

Arguments

myURL A string
codibge A string

Value

A dataframe with IBGE files for one municipality

getGeoCodeCS *Geodode an address by Google Maps*

Description

Geodode an address by Google Maps

Usage

```
getGeoCodeCS(gcStr)
```

Arguments

gcStr A string

Value

Geocoded address

getIBGEMunSHP *Get a Shapefile From IBGE Website*

Description

Get a Shapefile From IBGE Website

Usage

```
getIBGEMunSHP(codibge = "", nomemun = "")
```

Arguments

codibge A string
nomemun A string

Value

Shapefile of Municipality in Brazil

MUNICIPIOS.IBGE *Names and IBGE Codes of All Brazilian municipalities.*

Description

A dataset containing the names and IBGE codes of all municipalities in Brazil

Usage

MUNICIPIOS.IBGE

Format

A data frame

Details

- UF. State
- MUNICIPIO. Municipality name
- CODIBGE. Municipality IBGE code

Source

<http://www.ibge.gov.br/>

setDentroFora *Check if Points as Inside a Polygon*

Description

Check if Points as Inside a Polygon

Usage

```
setDentroFora(pontos, limites)
```

Arguments

pontos A vector
limites A vector

Value

Vector of points

setLatLong	<i>Geocode addresses by Google Maps</i>
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Description

Geocode addresses by Google Maps

Usage

```
setLatLong(datafr, addresscol)
```

Arguments

datafr	A dataframe
addresscol	A vector

Value

The submitted dataframe plus columns Lat, Lng, Address (Google Maps style) and Status

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*Topic **datasets**

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