

Package

June 3, 2019

Type Package

Title Loads shapefiles of the Brazilian Institute of Geography and Statistics (IBGE)

Date 2019-05-17

URL <https://github.com/ipeaGIT/geobr>

BugReports <https://github.com/ipeaGIT/geobr/issues>

Description geobr provides easy access to shapefiles of the Brazilian Institute of Geography and Statistics (IBGE) and loads into R as 'sf' objects. It includes a wide set of geographic datasets available at various geographic scales and for various years.

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Encoding UTF-8

LazyData TRUE

Depends R (>= 3.6.0)

Suggests ggplot2,
mapview

Imports dplyr,
magrittr,
readr,
sf,
stringr

RoxygenNote 6.1.1

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read_areaponderacao	<i>Download shape files of weighting areas of the Brazilian Population Census</i>
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Description

Download shape files of weighting areas of the Brazilian Population Census

Usage

```
read_areaponderacao(CODE = NULL, year = NULL)
```

Arguments

CODE	One can either pass the 7-digit code of a Municipality or the 2-digit code of a State. The function will load the shape files of all weighting areas in the specified geography
year	the year of the data download (defaults to 2010)

Examples

```
## Not run:

library(geobr)

dados <- read_areaponderacao(year=2010)
dados <- read_areaponderacao(3500000,2010)
dados <- read_areaponderacao(123,2010)
dados <- read_areaponderacao("df",2010)
dados <- read_areaponderacao(1302603,2010)
dados <- read_areaponderacao(35)
dados <- read_areaponderacao(14,2010)
dados <- read_areaponderacao()

# map it
library(mapview)
mapview(dados)

## End(Not run)
```

read_mesorregiao	<i>Download shape files of meso region.</i>
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Description

Download shape files of meso region.

Usage

```
read_mesorregiao(year = NULL, cod_meso = NULL)
```

Arguments

year the year of the data download (defaults to 2010)

cod_meso

cod_meso x-digit code of the meso region. If a two-digit code of a state is passed, the function will load all meso regions of that state. If `cod_meso="all"`, all meso regions of the country are loaded.

See Also

Other general area functions: [read_microregiao](#), [read_municipio](#), [read_uf](#)

Examples

```
## Not run:

library(geobr)

# Read all meso regions of a state at a given year
meso <- read_mesorregiao(cod_meso=12, year=2017)

# Read all meso regions of the country at a given year
meso <- read_mesorregiao(cod_meso="all", year=2010)

## End(Not run)
```

read_microregiao	<i>Download shape files of micro region.</i>
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Description

Download shape files of micro region.

Usage

```
read_microregiao(year = NULL, cod_micro = NULL)
```

Arguments

year the year of the data download (defaults to 2010)

cod_micro x-digit code of the micro region. If a two-digit code of a state is passed, the function will load all micro regions of that state. If `cod_micro="all"`, all micro regions of the country are loaded.

See Also

Other general area functions: [read_mesorregiao](#), [read_municipio](#), [read_uf](#)

Examples

```
## Not run:

library(geobr)

# Read all micro regions of a state at a given year
micro <- read_microregiao(cod_micro=12, year=2017)

# Read all micro regions at a given year
micro <- read_microregiao(cod_micro="all", year=2010)

## End(Not run)
```

read_municipio	<i>Download shape files of municipalities</i>
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Description

Download shape files of municipalities

Usage

```
read_municipio(year = NULL, cod_mun = NULL)
```

Arguments

year	the year of the data download (defaults to 2010)
cod_mun	7-digit code of the municipality. If a the two-digit code of a state is used, the function will load all municipalities of that state. If not informed, all municipalities will be loaded.

See Also

Other general area functions: [read_mesorregiao](#), [read_microregiao](#), [read_uf](#)

Examples

```
## Not run:

library(geobr)

# Read specific municipality at a given year
mun <- read_municipio(cod_mun=1200179, year=2017)

# Read all municipalities of a state at a given year
mun <- read_municipio(cod_mun=12, year=2010)

## End(Not run)
```

read_setorcensitario	<i>Download shape files of census sectors of the Brazilian Population Census</i>
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Description

Download shape files of census sectors of the Brazilian Population Census

Usage

```
read_setorcensitario(CODE = NULL, year = NULL, zone = "urban")
```

Arguments

CODE	One can either pass the 7-digit code of a Municipality or the 2-digit code of a State.If CODE="all", all census sectors of the country are loaded.
year	the year of the data download (defaults to 2010)
zone	"urban" or "rural" for separation in the year 2000

Examples

```
## Not run:
# Exemplos
dados <- read_setorcensitario(year=2010)
dados <- read_setorcensitario(123,2010)
dados <- read_setorcensitario("df",2010)
dados <- read_setorcensitario(1302603,2010)
dados <- read_setorcensitario(35)
dados <- read_setorcensitario(14,2010)
dados <- read_setorcensitario()

# mapa
library(mapview)
mapview(dados)

## End(Not run)
```

read_uf	<i>Download shape files of Brazilian states</i>
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Description

Download shape files of Brazilian states

Usage

```
read_uf(year = NULL, cod_uf = NULL)
```

Arguments

year	the year of the data download (defaults to 2010)
cod_uf	2-digit code of a state. If cod_uf="all", all states will be loaded.

See Also

Other general area functions: [read_mesorregiao](#), [read_microregiao](#), [read_municipio](#)

Examples

```
## Not run:

library(geobr)

# Read specific municipality at a given year
mun <- read_uf(cod_uf=12, year=2017)

# Read all states at a given year
mun <- read_uf(cod_uf="all", year=2010)

## End(Not run)
```

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