

Package

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Type Package

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

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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 (>= 3.4.0)

Suggests dplyr,
ggplot2,
mapview,
knitr,
rmarkdown

Imports httr,
readr,
sf

RoxygenNote 6.1.1

VignetteBuilder knitr

R topics documented:

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read_census_tract	<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_census_tract(CODE, 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

See Also

Other general area functions: [read_meso_region](#), [read_micro_region](#), [read_municipality2](#), [read_municipality](#), [read_state](#), [read_statistical_grid](#), [read_weighting_area](#)

Examples

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

# mapa
library(mapview)
mapview(dados)

## End(Not run)
```

read_meso_region *Download shape files of meso region.*

Description

Download shape files of meso region.

Usage

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

Arguments

cod_meso The 4-digit code of a 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.

year Year of the data (defaults to 2010)

See Also

Other general area functions: [read_census_tract](#), [read_micro_region](#), [read_municipality2](#), [read_municipality](#), [read_state](#), [read_statistical_grid](#), [read_weighting_area](#)

Examples

```
## Not run:

library(geobr)

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

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

## End(Not run)
```

read_micro_region *Download shape files of micro region.*

Description

Download shape files of micro region.

Usage

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

Arguments

`cod_micro` 5-digit code of a micro region. If the 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.

`year` Year of the data (defaults to 2010)

See Also

Other general area functions: [read_census_tract](#), [read_meso_region](#), [read_municipality2](#), [read_municipality](#), [read_state](#), [read_statistical_grid](#), [read_weighting_area](#)

Examples

```
## Not run:

library(geobr)

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

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

## End(Not run)
```

`read_municipality` *Download shape files of municipalities*

Description

Download shape files of municipalities

Usage

```
read_municipality(cod_muni, year = NULL)
```

Arguments

`cod_muni` The 7-digit code of a municipality. If the two-digit code of a state is used, the function will load all municipalities of that state. If `cod_muni="all"`, all municipalities will be loaded.

`year` Year of the data (defaults to 2010)

See Also

Other general area functions: [read_census_tract](#), [read_meso_region](#), [read_micro_region](#), [read_municipality2](#), [read_state](#), [read_statistical_grid](#), [read_weighting_area](#)

Examples

```
## Not run:

library(geobr)

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

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

## End(Not run)
```

read_municipality2 *Download shape files of municipalities*

Description

Download shape files of municipalities

Usage

```
read_municipality2(cod_muni, year = NULL)
```

Arguments

cod_muni	The 7-digit code of a municipality. If the two-digit code of a state is used, the function will load all municipalities of that state. If cod_muni="all", all municipalities will be loaded.
year	Year of the data (defaults to 2010)

See Also

Other general area functions: [read_census_tract](#), [read_meso_region](#), [read_micro_region](#), [read_municipality](#), [read_state](#), [read_statistical_grid](#), [read_weighting_area](#)

Examples

```
## Not run:

library(geobr)

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

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

## End(Not run)
```

`read_state`*Download shape files of Brazilian states*

Description

Download shape files of Brazilian states

Usage

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

Arguments

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

See Also

Other general area functions: [read_census_tract](#), [read_meso_region](#), [read_micro_region](#), [read_municipality2](#), [read_municipality](#), [read_statistical_grid](#), [read_weighting_area](#)

Examples

```
## Not run:  
  
library(geobr)  
  
# Read specific municipality at a given year  
uf <- read_state(cod_uf=12, year=2017)  
  
# Read all states at a given year  
ufs <- read_state(cod_uf="all", year=2010)  
  
## End(Not run)
```

`read_statistical_grid` *Download shape files of IBGE's statistical grid (200 x 200 meters)*

Description

Download shape files of IBGE's statistical grid (200 x 200 meters)

Usage

```
read_statistical_grid(cod_grid, year = NULL)
```

Arguments

cod_grid	The 7-digit code of a grid quadrant. If the two-letter abbreviation of a state is used, the function will load all grid quadrants that intersect with that state. If cod_grid="all", the grid of the whole country will be loaded.
year	Year of the data (defaults to 2010). The only year available thus far is 2010.

See Also

Other general area functions: [read_census_tract](#), [read_meso_region](#), [read_micro_region](#), [read_municipality2](#), [read_municipality](#), [read_state](#), [read_weighting_area](#)

Examples

```
## Not run:

library(geobr)

# Read specific municipality at a given year
grid <- read_statistical_grid(cod_grid = 45, year=2010)

# Read all municipalities of a state at a given year
state_grid <- read_statistical_grid(cod_grid = "RJ")

## End(Not run)
```

read_weighting_area	<i>Download shape files of Census Weighting Areas (área de ponderação) of the Brazilian Population Census</i>
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Description

Download shape files of Census Weighting Areas (área de ponderação) of the Brazilian Population Census

Usage

```
read_weighting_area(cod_weighting, year = NULL)
```

Arguments

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

See Also

Other general area functions: [read_census_tract](#), [read_meso_region](#), [read_micro_region](#), [read_municipality2](#), [read_municipality](#), [read_state](#), [read_statistical_grid](#)

Examples

```
## Not run:

library(geobr)

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

# map it
library(mapview)
mapview(dados)

## End(Not run)
```


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