

# 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.

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** TRUE

**Depends** R (>= 3.6.0)

**Suggests** ggplot2,  
mapview

**Imports** dplyr,  
magrittr,  
readr,  
sf,  
stringr

**RoxygenNote** 6.1.1

## R topics documented:

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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)
```

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|------------------|--------------|
| read_mesorregiao | <i>Title</i> |
|------------------|--------------|

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### Description

Title

**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)
```

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|                  |              |
|------------------|--------------|
| read_microregiao | <i>Title</i> |
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**Description**

Title

**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)
```

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|                |   |
|----------------|---|
| 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)
```

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|                      |  |
|----------------------|--|
| 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)
```

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|         |   |
|---------|---|
| 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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