

Package ‘geobr’

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Type Package

Title Download Official Spatial Data Sets of Brazil

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

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

Description Easy access to official spatial data sets of Brazil as 'sf' objects in R. The package includes a wide range of geospatial data available at various geographic scales and for various years with harmonized attributes, projection and fixed topology.

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Encoding UTF-8

LazyData TRUE

Depends R (>= 3.5.0)

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Imports crul, curl, data.table, httr (>= 1.4.1), readr, sf (>= 0.9-3), utils

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<code>cep_to_state</code>	<i>Determine the state of a given CEP postal code</i>
---------------------------	---

Description

Zips codes in Brazil are known as CEP, the abbreviation for postal code address. CEPs in Brazil are 8 digits long, with the format 'xxxxx-xxx'.

Usage

```
cep_to_state(cep)
```

Arguments

<code>cep</code>	A numeric string with 8 digits in the format xxxxxxxx, or a character with the format 'xxxxx-xxx'.
------------------	--

Value

A character string with a state abbreviation

Examples

```
uf <- cep_to_state(cep = '69900-000')

# Or:
uf <- cep_to_state(cep = 69900000)
```

check_connection *Check internet connection with Ipea server*

Description

Checks if there is internet connection to Ipea server to download geobr data.

Usage

```
check_connection(  
  file_url = "https://www.ipea.gov.br/geobr/metadata/metadata_gpkg.csv"  
)
```

Arguments

file_url A string with the file_url address of an geobr dataset

Value

Logic TRUE or FALSE'.

See Also

Other support functions: [download_gpkg\(\)](#), [load_gpkg\(\)](#), [select_data_type\(\)](#), [select_metadata\(\)](#), [select_year_input\(\)](#)

download_gpkg *Download geopackage to tempdir*

Description

Download geopackage to tempdir

Usage

```
download_gpkg(file_url, progress_bar = showProgress)
```

Arguments

file_url A string with the file_url address of a geobr dataset
progress_bar Logical. Defaults to (TRUE) display progress bar

See Also

Other support functions: [check_connection\(\)](#), [load_gpkg\(\)](#), [select_data_type\(\)](#), [select_metadata\(\)](#), [select_year_input\(\)](#)

download_metadata	<i>Support function to download metadata internally used in geobr</i>
-------------------	---

Description

Support function to download metadata internally used in geobr

Usage

```
download_metadata()
```

See Also

Other general support functions: [list_geobr\(\)](#)

Examples

```
## Not run: if (interactive()) {  
df <- download_metadata()  
}  
## End(Not run)
```

geobr	<i>geobr package</i>
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Description

Easy access to shapefiles of the Brazilian Institute of Geography and Statistics (IBGE) and other official spatial data sets of Brazil

Details

See the README on [GitHub](#)

grid_state_correspondence_table

A correspondence table indicating what quadrants of IBGE's statistical grid intersect with each Brazilian state

Description

Built-in dataset

- name_state: Title-case name of state (character)
- abbrev_state: Two-letter uppercase abbreviation of a state
- code_grid: Unique code of each quadrant of IBGE's statistical grid

Usage

```
data(grid_state_correspondence_table)
```

Format

A data frame sf with 139 rows and 3 columns

Details

correspondence table indicating what quadrants of IBGE's statistical grid intersect with each Brazilian state

Note

Last updated 2021-03-21

list_geobr

List all data sets available in the geobr package

Description

Returns a data frame with all datasets available in the geobr package

Usage

```
list_geobr()
```

Value

A data.frame

See Also

Other general support functions: [download_metadata\(\)](#)

Examples

```
df <- list_geobr()
```

load_gpkg	<i>Load geopackage from tempdir to global environment</i>
-----------	---

Description

Load geopackage from tempdir to global environment

Usage

```
load_gpkg(file_url, temps = NULL)
```

Arguments

file_url	A string with the file_url address of a geobr dataset
temps	The address of a gpkg file stored in tempdir. Defaults to NULL

See Also

Other support functions: [check_connection\(\)](#), [download_gpkg\(\)](#), [select_data_type\(\)](#), [select_metadata\(\)](#), [select_year_input\(\)](#)

lookup_muni	<i>Look up municipality codes and names</i>
-------------	---

Description

Input a municipality **name** or **code** and get the names and codes of the municipality's corresponding state, meso, micro, intermediate, and immediate regions

Usage

```
lookup_muni(name_muni = NULL, code_muni = NULL)
```

Arguments

name_muni	The municipality name to be looked up
code_muni	The municipality code to be looked up

Details

Only available from 2010 Census data so far

Value

A data.frame with 13 columns identifying the geographies information of that municipality

A data.frame

Examples

```
## Not run: if (interactive()) {
# Get lookup table for municipality Rio de Janeiro
mun <- lookup_muni(name_muni = "Rio de Janeiro")

# Or you can get a lookup table for the same municipality searching for its code
mun <- lookup_muni(code_muni = 3304557)

# Get lookup table for all municipalities
mun_all <- lookup_muni(name_muni = "all")

# Or:
mun_all <- lookup_muni(code_muni = "all")
}
## End(Not run)
```

read_amazon

Download spatial data of Brazil's Legal Amazon

Description

This data set covers the whole of Brazil's Legal Amazon as defined in the federal law n. 12.651/2012). The original data comes from the Brazilian Ministry of Environment (MMA) and can be found at "<http://mapas.mma.gov.br/i3geo/datadownload.htm>".

Usage

```
read_amazon(year = 2012, simplified = TRUE, showProgress = TRUE)
```

Arguments

year	A date number in YYYY format. Defaults to 2012
simplified	Logic FALSE or TRUE, indicating whether the function returns the data set with original' resolution or a data set with 'simplified' borders. Defaults to TRUE. For spatial analysis and statistics users should set <code>simplified = FALSE</code> . Borders have been simplified by removing vertices of borders using <code>sf::st_simplify()</code> preserving topology with a <code>dTolerance</code> of 100.
showProgress	Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

See Also

Other general area functions: `read_biomes()`, `read_census_tract()`, `read_comparable_areas()`, `read_conservation_units()`, `read_country()`, `read_health_region()`, `read_immediate_region()`, `read_intermediate_region()`, `read_meso_region()`, `read_micro_region()`, `read_municipality()`, `read_neighborhood()`, `read_region()`, `read_semiarid()`, `read_state()`, `read_statistical_grid()`, `read_weighting_area()`

Examples

```
## Not run: if (interactive()) {  
# Read Brazilian Legal Amazon  
a <- read_amazon(year = 2012)  
}  
## End(Not run)
```

read_biomes

Download spatial data of Brazilian biomes

Description

This data set includes polygons of all biomes present in Brazilian territory and coastal area. The latest data set dates to 2019 and it is available at scale 1:250.000. The 2004 data set is at the scale 1:5.000.000. The original data comes from IBGE. More information at <https://www.ibge.gov.br/apps/biomas/>

Usage

```
read_biomes(year = 2019, simplified = TRUE, showProgress = TRUE)
```

Arguments

year	A date number in YYYY format. Defaults to 2019
simplified	Logic FALSE or TRUE, indicating whether the function returns the data set with original' resolution or a data set with 'simplified' borders. Defaults to TRUE. For spatial analysis and statistics users should set <code>simplified = FALSE</code> . Borders have been simplified by removing vertices of borders using <code>sf::st_simplify()</code> preserving topology with a <code>dTolerance</code> of 100.
showProgress	Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

See Also

Other general area functions: `read_amazon()`, `read_census_tract()`, `read_comparable_areas()`, `read_conservation_units()`, `read_country()`, `read_health_region()`, `read_immediate_region()`, `read_intermediate_region()`, `read_meso_region()`, `read_micro_region()`, `read_municipality()`, `read_neighborhood()`, `read_region()`, `read_semiarid()`, `read_state()`, `read_statistical_grid()`, `read_weighting_area()`

Examples

```
## Not run: if (interactive()) {
# Read biomes
b <- read_biomes(year = 2019)
}
## End(Not run)
```

read_census_tract	<i>Download spatial data of census tracts of the Brazilian Population Census</i>
-------------------	--

Description

Download spatial data of census tracts of the Brazilian Population Census

Usage

```
read_census_tract(
  code_tract,
  year = 2010,
  zone = "urban",
  simplified = TRUE,
  showProgress = TRUE
)
```

Arguments

code_tract	The 7-digit code of a Municipality. If the two-digit code or a two-letter uppercase abbreviation of a state is passed, (e.g. 33 or "RJ") the function will load all census tracts of that state. If code_tract="all", all census tracts of the country are loaded.
year	Year of the data. Defaults to 2010
zone	For census tracts before 2010, 'urban' and 'rural' census tracts are separate data sets.
simplified	Logic FALSE or TRUE, indicating whether the function returns the data set with original' resolution or a data set with 'simplified' borders. Defaults to TRUE. For spatial analysis and statistics users should set simplified = FALSE. Borders have been simplified by removing vertices of borders using <code>sf::st_simplify()</code> preserving topology with a dTolerance of 100.
showProgress	Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

See Also

Other general area functions: [read_amazon\(\)](#), [read_biomes\(\)](#), [read_comparable_areas\(\)](#), [read_conservation_units\(\)](#), [read_country\(\)](#), [read_health_region\(\)](#), [read_immediate_region\(\)](#), [read_intermediate_region\(\)](#), [read_meso_region\(\)](#), [read_micro_region\(\)](#), [read_municipality\(\)](#), [read_neighborhood\(\)](#), [read_region\(\)](#), [read_semiarid\(\)](#), [read_state\(\)](#), [read_statistical_grid\(\)](#), [read_weighting_area\(\)](#)

Examples

```
## Not run: if (interactive()) {
# Read rural census tracts for years before 2007
c <- read_census_tract(code_tract=5201108, year=2000, zone="rural")

# Read all census tracts of a state at a given year
c <- read_census_tract(code_tract=53, year=2010) # or
c <- read_census_tract(code_tract="DF", year=2010)
plot(c)

# Read all census tracts of a municipality at a given year
c <- read_census_tract(code_tract=5201108, year=2010)
plot(c)

# Read all census tracts of the country at a given year
c <- read_census_tract(code_tract="all", year=2010)

}
## End(Not run)
```

read_comparable_areas *Download spatial data of historically comparable municipalities*

Description

This function downloads the shape file of minimum comparable area of municipalities, known in Portuguese as 'Áreas mínimas comparáveis (AMCs)'. The data is available for any combination of census years between 1872-2010. These data sets are generated based on the Stata code originally developed by doi: [10.1590/0101416147182phe](https://doi.org/10.1590/0101416147182phe) Philipp Ehrl, and translated into R by the geobr team.

Usage

```
read_comparable_areas(
  start_year = 1970,
  end_year = 2010,
  simplified = TRUE,
  showProgress = TRUE
)
```

Arguments

start_year	Numeric. Start year to the period.
end_year	Numeric. End year to the period. (defaults to 2010)
simplified	Logic FALSE or TRUE, indicating whether the function returns the data set with 'original' resolution or a data set with 'simplified' borders (Defaults to TRUE). For spatial analysis and statistics users should set simplified = FALSE. Borders have been simplified by removing vertices of borders using st_simplifysf preserving topology with a dTolerance of 100.
showProgress	Logical. Defaults to (TRUE) display progress bar

Details

These data sets are generated based on the original Stata code developed by Philipp Ehrl. If you use these data, please cite:

- Ehrl, P. (2017). Minimum comparable areas for the period 1872-2010: an aggregation of Brazilian municipalities. *Estudos Econômicos (São Paulo)*, 47(1), 215-229. <https://doi.org/10.1590/0101-416147182phe>

Value

An "sf" "data.frame" object

See Also

Other general area functions: [read_amazon\(\)](#), [read_biomes\(\)](#), [read_census_tract\(\)](#), [read_conservation_units\(\)](#), [read_country\(\)](#), [read_health_region\(\)](#), [read_immediate_region\(\)](#), [read_intermediate_region\(\)](#), [read_meso_region\(\)](#), [read_micro_region\(\)](#), [read_municipality\(\)](#), [read_neighborhood\(\)](#), [read_region\(\)](#), [read_semiarid\(\)](#), [read_state\(\)](#), [read_statistical_grid\(\)](#), [read_weighting_area\(\)](#)

Examples

```
## Not run: if (interactive()) {
  amc <- read_comparable_areas(start_year=1970, end_year=2010)
}
## End(Not run)
```

read_conservation_units

Download spatial data of Brazilian environmental conservation units

Description

This data set covers the whole of Brazil and it includes the polygons of all conservation units present in Brazilian territory. The last update of the data was 09-2019. The original data comes from MMA and can be found at "<http://mapas.mma.gov.br/i3geo/datadownload.htm>".

Usage

```
read_conservation_units(date = 201909, simplified = TRUE, showProgress = TRUE)
```

Arguments

date A date number in YYYYMM format. Defaults to 201909

simplified Logic FALSE or TRUE, indicating whether the function returns the data set with original' resolution or a data set with 'simplified' borders. Defaults to TRUE. For spatial analysis and statistics users should set `simplified = FALSE`. Borders have been simplified by removing vertices of borders using `sf::st_simplify()` preserving topology with a `dTolerance` of 100.

showProgress Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

See Also

Other general area functions: [read_amazon\(\)](#), [read_biomes\(\)](#), [read_census_tract\(\)](#), [read_comparable_areas\(\)](#), [read_country\(\)](#), [read_health_region\(\)](#), [read_immediate_region\(\)](#), [read_intermediate_region\(\)](#), [read_meso_region\(\)](#), [read_micro_region\(\)](#), [read_municipality\(\)](#), [read_neighborhood\(\)](#), [read_region\(\)](#), [read_semiarid\(\)](#), [read_state\(\)](#), [read_statistical_grid\(\)](#), [read_weighting_area\(\)](#)

Examples

```
## Not run: if (interactive()) {
# Read conservation_units
b <- read_conservation_units(date = 201909)
}
## End(Not run)
```

read_country

Download spatial data of Brazil's national borders

Description

Data at scale 1:250,000, using Geodetic reference system "SIRGAS2000" and CRS(4674).

Usage

```
read_country(year = 2010, simplified = TRUE, showProgress = TRUE)
```

Arguments

year	Year of the data. Defaults to 2010
simplified	Logic FALSE or TRUE, indicating whether the function returns the data set with original' resolution or a data set with 'simplified' borders. Defaults to TRUE. For spatial analysis and statistics users should set <code>simplified = FALSE</code> . Borders have been simplified by removing vertices of borders using <code>sf::st_simplify()</code> preserving topology with a <code>dTolerance</code> of 100.
showProgress	Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

See Also

Other general area functions: `read_amazon()`, `read_biomes()`, `read_census_tract()`, `read_comparable_areas()`, `read_conservation_units()`, `read_health_region()`, `read_immediate_region()`, `read_intermediate_region()`, `read_meso_region()`, `read_micro_region()`, `read_municipality()`, `read_neighborhood()`, `read_region()`, `read_semiarid()`, `read_state()`, `read_statistical_grid()`, `read_weighting_area()`

Examples

```
## Not run: if (interactive()) {
# Read specific year
br <- read_country(year = 2018)
}
## End(Not run)
```

read_disaster_risk_area

Download spatial data of disaster risk areas

Description

This function reads the the official data of disaster risk areas in Brazil. It specifically focuses on geodynamic and hydro-meteorological disasters capable of triggering landslides and floods. The #' data set covers the whole country. Each risk area polygon (known as 'BATER') has unique code id (column 'geo_bater'). The data set brings information on the extent to which the risk area polygons overlap with census tracts and block faces (column "acuracia") and number of ris areas within each risk area (column 'num'). Original data were generated by IBGE and CE-MADEN. For more information about the methodology, see details at <https://www.ibge.gov.br/geociencias/organizacao-do-territorio/tipologias-do-territorio/21538-populacao-em-areas-de-risco-n.html>

Usage

```
read_disaster_risk_area(year = 2010, simplified = TRUE, showProgress = TRUE)
```

Arguments

year	A year number in YYYY format. Defaults to 2010
simplified	Logic FALSE or TRUE, indicating whether the function returns the data set with original' resolution or a data set with 'simplified' borders. Defaults to TRUE. For spatial analysis and statistics users should set <code>simplified = FALSE</code> . Borders have been simplified by removing vertices of borders using <code>sf::st_simplify()</code> preserving topology with a <code>dTolerance</code> of 100.
showProgress	Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

Examples

```
## Not run: if (interactive()) {  
# Read all disaster risk areas in an specific year  
d <- read_disaster_risk_area(year=2010)  
}  
## End(Not run)
```

read_health_facilities

Download geolocated data of health facilities

Description

Data comes from the National Registry of Healthcare facilities (Cadastro Nacional de Estabelecimentos de Saude - CNES), originally collected by the Brazilian Ministry of Health. According to the Ministry of Health: "The coordinates of each facility were obtained by CNES and validated by means of space operations. These operations verify if the point is in the municipality, considering a radius of 5,000 meters. When the coordinate is not correct, further searches are done in other systems of the Ministry of Health and in web services like Google Maps. Finally, if the coordinates have been correctly obtained in this process, the coordinates of the municipal head office are used. The geocode source used is registered in the database in a specific column `data_source`. Periodically the coordinates are revised with the objective of improving the quality of the data." The date of the last data update is registered in the database in the columns `date_update` and `year_update`. More information available at <http://dados.gov.br/dataset/cnes>. These data use Geodetic reference system "SIRGAS2000" and CRS(4674).

Usage

```
read_health_facilities(showProgress = TRUE)
```

Arguments

showProgress	Logical. Defaults to TRUE display progress bar
--------------	--

Value

An "sf" "data.frame" object

Examples

```
## Not run: if (interactive()) {
# Read all health facilities of the whole country
h <- read_health_facilities()
}
## End(Not run)
```

read_health_region	<i>Download spatial data of Brazilian health regions and health macro regions</i>
--------------------	---

Description

Health regions are used to guide the the regional and state planning of health services. Macro health regions, in particular, are used to guide the planning of high complexity health services. These services involve larger economics of scale and are concentrated in few municipalities because they are generally more technology intensive, costly and face shortages of specialized professionals. A macro region comprises one or more health regions.

Usage

```
read_health_region(
  year = 2013,
  macro = FALSE,
  simplified = TRUE,
  showProgress = TRUE
)
```

Arguments

year	Year of the data. Defaults to 2013, latest available.
macro	Logic. If FALSE (default), the function downloads health regions data. If TRUE, the function downloads macro regions data.
simplified	Logic FALSE or TRUE, indicating whether the function returns the data set with original' resolution or a data set with 'simplified' borders. Defaults to TRUE. For spatial analysis and statistics users should set <code>simplified = FALSE</code> . Borders have been simplified by removing vertices of borders using <code>sf::st_simplify()</code> preserving topology with a <code>dTolerance</code> of 100.
showProgress	Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

See Also

Other general area functions: `read_amazon()`, `read_biomes()`, `read_census_tract()`, `read_comparable_areas()`, `read_conservation_units()`, `read_country()`, `read_immediate_region()`, `read_intermediate_region()`, `read_meso_region()`, `read_micro_region()`, `read_municipality()`, `read_neighborhood()`, `read_region()`, `read_semiarid()`, `read_state()`, `read_statistical_grid()`, `read_weighting_area()`

Examples

```
## Not run: if (interactive()) {
# Read all health regions for a given year
hr <- read_health_region( year=2013 )

# Read all macro health regions
mhr <- read_health_region( year=2013, macro =TRUE)
}
## End(Not run)
```

`read_immediate_region` *Download spatial data of Brazil's Immediate Geographic Areas*

Description

The Immediate Geographic Areas are part of the geographic division of Brazil created in 2017 by IBGE. These regions were created to replace the "Micro Regions" division. Data at scale 1:250,000, using Geodetic reference system "SIRGAS2000" and CRS(4674)

Usage

```
read_immediate_region(
  code_immediate = "all",
  year = 2019,
  simplified = TRUE,
  showProgress = TRUE
)
```

Arguments

<code>code_immediate</code>	6-digit code of an immediate region. If the two-digit code or a two-letter uppercase abbreviation of a state is passed, (e.g. 33 or "RJ") the function will load all immediate regions of that state. If <code>code_immediate="all"</code> (Default), all immediate regions of the country are loaded.
<code>year</code>	A date number in YYYY format (defaults to 2019)
<code>simplified</code>	Logic FALSE or TRUE, indicating whether the function returns the data set with original' resolution or a data set with 'simplified' borders. Defaults to TRUE. For spatial analysis and statistics users should set <code>simplified = FALSE</code> . Borders have been simplified by removing vertices of borders using <code>sf::st_simplify()</code> preserving topology with a <code>dTolerance</code> of 100.
<code>showProgress</code>	Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

See Also

Other general area functions: [read_amazon\(\)](#), [read_biomes\(\)](#), [read_census_tract\(\)](#), [read_comparable_areas\(\)](#), [read_conservation_units\(\)](#), [read_country\(\)](#), [read_health_region\(\)](#), [read_intermediate_region\(\)](#), [read_meso_region\(\)](#), [read_micro_region\(\)](#), [read_municipality\(\)](#), [read_neighborhood\(\)](#), [read_region\(\)](#), [read_semiarid\(\)](#), [read_state\(\)](#), [read_statistical_grid\(\)](#), [read_weighting_area\(\)](#)

Examples

```
## Not run: if (interactive()) {
# Read an specific immediate region
im <- read_immediate_region(code_immediate=110006)

# Read immediate regions of a state
im <- read_immediate_region(code_immediate=12)
im <- read_immediate_region(code_immediate="AM")

# Read all immediate regions of the country
im <- read_immediate_region()
im <- read_immediate_region(code_immediate="all")
}
## End(Not run)
```

read_indigenous_land *Download spatial data of indigenous lands in Brazil*

Description

The data set covers the whole of Brazil and it includes indigenous lands from all ethnicities and in different stages of demarcation. The original data comes from the National Indian Foundation (FUNAI) and can be found at <http://www.funai.gov.br/index.php/shape>. Although original data is updated monthly, the geobr package will only keep the data for a few months per year.

Usage

```
read_indigenous_land(date = 201907, simplified = TRUE, showProgress = TRUE)
```

Arguments

date	A date number in YYYYMM format. Defaults to 201907
simplified	Logic FALSE or TRUE, indicating whether the function returns the data set with original' resolution or a data set with 'simplified' borders. Defaults to TRUE. For spatial analysis and statistics users should set <code>simplified = FALSE</code> . Borders have been simplified by removing vertices of borders using <code>sf::st_simplify()</code> preserving topology with a <code>dTolerance</code> of 100.
showProgress	Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

Examples

```
## Not run: if (interactive()) {
# Read all indigenous land in an specific date
i <- read_indigenous_land(date=201907)
}
## End(Not run)
```

read_intermediate_region

Download spatial data of Brazil's Intermediate Geographic Areas

Description

The intermediate Geographic Areas are part of the geographic division of Brazil created in 2017 by IBGE. These regions were created to replace the "Meso Regions" division. Data at scale 1:250,000, using Geodetic reference system "SIRGAS2000" and CRS(4674)

Usage

```
read_intermediate_region(
  code_intermediate = "all",
  year = 2019,
  simplified = TRUE,
  showProgress = TRUE
)
```

Arguments

code_intermediate	4-digit code of an intermediate region. If the two-digit code or a two-letter uppercase abbreviation of a state is passed, (e.g. 33 or "RJ") the function will load all intermediate regions of that state. If code_intermediate="all" (Default), all intermediate regions of the country are loaded.
year	A year number in YYYY format. Defaults to 2019
simplified	Logic FALSE or TRUE, indicating whether the function returns the data set with original' resolution or a data set with 'simplified' borders. Defaults to TRUE. For spatial analysis and statistics users should set simplified = FALSE. Borders have been simplified by removing vertices of borders using sf::st_simplify() preserving topology with a dTolerance of 100.
showProgress	Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

See Also

Other general area functions: [read_amazon\(\)](#), [read_biomes\(\)](#), [read_census_tract\(\)](#), [read_comparable_areas\(\)](#), [read_conservation_units\(\)](#), [read_country\(\)](#), [read_health_region\(\)](#), [read_immediate_region\(\)](#), [read_meso_region\(\)](#), [read_micro_region\(\)](#), [read_municipality\(\)](#), [read_neighborhood\(\)](#), [read_region\(\)](#), [read_semiarid\(\)](#), [read_state\(\)](#), [read_statistical_grid\(\)](#), [read_weighting_area\(\)](#)

Examples

```
## Not run: if (interactive()) {
# Read an specific intermediate region
im <- read_intermediate_region(code_intermediate=1202)

# Read intermediate regions of a state
im <- read_intermediate_region(code_intermediate=12)
im <- read_intermediate_region(code_intermediate="AM")

# Read all intermediate regions of the country
im <- read_intermediate_region()
im <- read_intermediate_region(code_intermediate="all")
}
## End(Not run)
```

read_meso_region

Download spatial data of meso regions

Description

Data at scale 1:250,000, using Geodetic reference system "SIRGAS2000" and CRS(4674)

Usage

```
read_meso_region(
  code_meso = "all",
  year = 2010,
  simplified = TRUE,
  showProgress = TRUE
)
```

Arguments

`code_meso` The 4-digit code of a meso region. If the two-digit code or a two-letter uppercase abbreviation of a state is passed, (e.g. 33 or "RJ") the function will load all meso regions of that state. If `code_meso="all"`, all meso regions of the country are loaded.

year	A year number in YYYY format. Defaults to 2010
simplified	Logic FALSE or TRUE, indicating whether the function returns the data set with original' resolution or a data set with 'simplified' borders. Defaults to TRUE. For spatial analysis and statistics users should set <code>simplified = FALSE</code> . Borders have been simplified by removing vertices of borders using <code>sf::st_simplify()</code> preserving topology with a <code>dTolerance</code> of 100.
showProgress	Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

See Also

Other general area functions: [read_amazon\(\)](#), [read_biomes\(\)](#), [read_census_tract\(\)](#), [read_comparable_areas\(\)](#), [read_conservation_units\(\)](#), [read_country\(\)](#), [read_health_region\(\)](#), [read_immediate_region\(\)](#), [read_intermediate_region\(\)](#), [read_micro_region\(\)](#), [read_municipality\(\)](#), [read_neighborhood\(\)](#), [read_region\(\)](#), [read_semiarid\(\)](#), [read_state\(\)](#), [read_statistical_grid\(\)](#), [read_weighting_area\(\)](#)

Examples

```
## Not run: if (interactive()) {
# Read specific meso region at a given year
meso <- read_meso_region(code_meso=3301, year=2018)

# Read all meso regions of a state at a given year
meso <- read_meso_region(code_meso=12, year=2017)
meso <- read_meso_region(code_meso="AM", year=2000)

# Read all meso regions of the country at a given year
meso <- read_meso_region(code_meso="all", year=2010)
}
## End(Not run)
```

read_metro_area

Download spatial data of official metropolitan areas in Brazil

Description

The function returns the shapes of municipalities grouped by their respective metro areas. Metropolitan areas are created by each state in Brazil. The data set includes the municipalities that belong to all metropolitan areas in the country according to state legislation in each year. Original data were generated by Institute of Geography. Data at scale 1:250,000, using Geodetic reference system "SIRGAS2000" and CRS(4674).

Usage

```
read_metro_area(year = 2018, simplified = TRUE, showProgress = TRUE)
```

Arguments

year	A year number in YYYY format. Defaults to 2018
simplified	Logic FALSE or TRUE, indicating whether the function returns the data set with original' resolution or a data set with 'simplified' borders. Defaults to TRUE. For spatial analysis and statistics users should set simplified = FALSE. Borders have been simplified by removing vertices of borders using sf::st_simplify() preserving topology with a dTolerance of 100.
showProgress	Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

Examples

```
## Not run: if (interactive()) {
# Read all official metropolitan areas for a given year
m <- read_metro_area(2005)

m <- read_metro_area(2018)
}
## End(Not run)
```

read_micro_region *Download spatial data of micro regions*

Description

Data at scale 1:250,000, using Geodetic reference system "SIRGAS2000" and CRS(4674)

Usage

```
read_micro_region(
  code_micro = "all",
  year = 2010,
  simplified = TRUE,
  showProgress = TRUE
)
```

Arguments

code_micro	5-digit code of a micro region. If the two-digit code or a two-letter uppercase abbreviation of a state is passed, (e.g. 33 or "RJ") the function will load all micro regions of that state. If code_micro="all", all micro regions of the country are loaded.
year	Year of the data. Defaults to 2010

simplified	Logic FALSE or TRUE, indicating whether the function returns the data set with original' resolution or a data set with 'simplified' borders. Defaults to TRUE. For spatial analysis and statistics users should set <code>simplified = FALSE</code> . Borders have been simplified by removing vertices of borders using <code>sf::st_simplify()</code> preserving topology with a <code>dTolerance</code> of 100.
showProgress	Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

See Also

Other general area functions: [read_amazon\(\)](#), [read_biomes\(\)](#), [read_census_tract\(\)](#), [read_comparable_areas\(\)](#), [read_conservation_units\(\)](#), [read_country\(\)](#), [read_health_region\(\)](#), [read_immediate_region\(\)](#), [read_intermediate_region\(\)](#), [read_meso_region\(\)](#), [read_municipality\(\)](#), [read_neighborhood\(\)](#), [read_region\(\)](#), [read_semiarid\(\)](#), [read_state\(\)](#), [read_statistical_grid\(\)](#), [read_weighting_area\(\)](#)

Examples

```
## Not run: if (interactive()) {
# Read an specific micro region a given year
micro <- read_micro_region(code_micro=11008, year=2018)

# Read micro regions of a state at a given year
micro <- read_micro_region(code_micro=12, year=2017)
micro <- read_micro_region(code_micro="AM", year=2000)

# Read all micro regions at a given year
micro <- read_micro_region(code_micro="all", year=2010)
}
## End(Not run)
```

read_municipality

Download spatial data of Brazilian municipalities

Description

Data at scale 1:250,000, using Geodetic reference system "SIRGAS2000" and CRS(4674).

Usage

```
read_municipality(
  code_muni = "all",
  year = 2010,
  simplified = TRUE,
  showProgress = TRUE
)
```

Arguments

code_muni	The 7-digit identification code of a municipality. If code_muni = "all" (default), all municipalities of the country will be downloaded. Alternatively, if the two-digit identification code or a two-letter uppercase abbreviation of a state is passed, e.g. 33 or "RJ", all municipalities of that state will be downloaded. Municipality identification codes are defined in https://www.ibge.gov.br/explica/codigos-dos-municipios.php .
year	Year of the data. Defaults to 2010.
simplified	Logic FALSE or TRUE, indicating whether the function returns the data set with original' resolution or a data set with 'simplified' borders. Defaults to TRUE. For spatial analysis and statistics users should set simplified = FALSE. Borders have been simplified by removing vertices of borders using sf::st_simplify() preserving topology with a dTolerance of 100.
showProgress	Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

See Also

Other general area functions: [read_amazon\(\)](#), [read_biomes\(\)](#), [read_census_tract\(\)](#), [read_comparable_areas\(\)](#), [read_conservation_units\(\)](#), [read_country\(\)](#), [read_health_region\(\)](#), [read_immediate_region\(\)](#), [read_intermediate_region\(\)](#), [read_meso_region\(\)](#), [read_micro_region\(\)](#), [read_neighborhood\(\)](#), [read_region\(\)](#), [read_semiarid\(\)](#), [read_state\(\)](#), [read_statistical_grid\(\)](#), [read_weighting_area\(\)](#)

Examples

```
## Not run: if (interactive()) {
# Read specific municipality at a given year
mun <- read_municipality(code_muni = 1200179, year = 2017)

# Read all municipalities of a state at a given year
mun <- read_municipality(code_muni = 33, year = 2010)
mun <- read_municipality(code_muni = "RJ", year = 2010)

# Read all municipalities of the country at a given year
mun <- read_municipality(code_muni = "all", year = 2018)
}
## End(Not run)
```

read_municipal_seat *Download spatial data of municipal seats (sede dos municípios) in Brazil*

Description

This function reads the official data on the municipal seats (sede dos municípios) of Brazil. The data brings the geographical coordinates (lat lon) of municipal seats for various years between 1872 and 2010. Original data were generated by Brazilian Institute of Geography and Statistics (IBGE).

Usage

```
read_municipal_seat(year = 2010, showProgress = TRUE)
```

Arguments

`year` A year number in YYYY format. Defaults to 2010
`showProgress` Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

Examples

```
## Not run: if (interactive()) {
# Read municipal seats in an specific year
m <- read_municipal_seat(year = 1991)
}
## End(Not run)
```

read_neighborhood	<i>Download spatial data of neighborhood limits of Brazilian municipalities</i>
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Description

This data set includes the neighborhood limits of 720 Brazilian municipalities. It is based on aggregations of the census tracts from the Brazilian census. Only 2010 data is currently available.

Usage

```
read_neighborhood(year = 2010, simplified = TRUE, showProgress = TRUE)
```

Arguments

`year` Year of the data. Defaults to 2010
`simplified` Logic FALSE or TRUE, indicating whether the function returns the data set with 'original' resolution or a data set with 'simplified' borders. Defaults to TRUE. For spatial analysis and statistics users should set `simplified = FALSE`. Borders have been simplified by removing vertices of borders using `st_simplify{sf}` preserving topology with a `dTolerance` of 100.
`showProgress` Logical. Defaults to "TRUE" display progress bar

Value

An "sf" "data.frame" object

See Also

Other general area functions: `read_amazon()`, `read_biomes()`, `read_census_tract()`, `read_comparable_areas()`, `read_conservation_units()`, `read_country()`, `read_health_region()`, `read_immediate_region()`, `read_intermediate_region()`, `read_meso_region()`, `read_micro_region()`, `read_municipality()`, `read_region()`, `read_semiarid()`, `read_state()`, `read_statistical_grid()`, `read_weighting_area()`

Examples

```
## Not run: if (interactive()) {  
# Read neighborhoods of Brazilian municipalities  
n <- read_neighborhood(year=2010)  
}  
## End(Not run)
```

read_pop_arrangements *Download population arrangements in Brazil*

Description

This function reads the official data on population arrangements (Arranjos Populacionais) of Brazil. Original data were generated by the Institute of Geography and Statistics (IBGE) For more information about the methodology, see details at https://www.ibge.gov.br/apps/arranjos_populacionais/2015/pdf/publicacao.pdf

Usage

```
read_pop_arrangements(year = 2015, simplified = TRUE, showProgress = TRUE)
```

Arguments

year	A year number in YYYY format. Defaults to 2015
simplified	Logic FALSE or TRUE, indicating whether the function returns the data set with 'original' resolution or a data set with 'simplified' borders. Defaults to TRUE. For spatial analysis and statistics users should set <code>simplified = FALSE</code> . Borders have been simplified by removing vertices of borders using <code>st_simplify{sf}</code> preserving topology with a <code>dTolerance</code> of 100.
showProgress	Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

Examples

```
## Not run: if (interactive()) {
# Read urban footprint of Brazilian cities in an specific year
uc <- read_pop_arrangements(year=2015)
}
## End(Not run)
```

read_region

*Download spatial data of Brazil Regions***Description**

Data at scale 1:250,000, using Geodetic reference system "SIRGAS2000" and CRS(4674)

Usage

```
read_region(year = 2010, simplified = TRUE, showProgress = TRUE)
```

Arguments

year	Year of the data (defaults to 2010)
simplified	Logic FALSE or TRUE, indicating whether the function returns the data set with original' resolution or a data set with 'simplified' borders. Defaults to TRUE. For spatial analysis and statistics users should set <code>simplified = FALSE</code> . Borders have been simplified by removing vertices of borders using <code>sf::st_simplify()</code> preserving topology with a <code>dTolerance</code> of 100.
showProgress	Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

See Also

Other general area functions: [read_amazon\(\)](#), [read_biomes\(\)](#), [read_census_tract\(\)](#), [read_comparable_areas\(\)](#), [read_conservation_units\(\)](#), [read_country\(\)](#), [read_health_region\(\)](#), [read_immediate_region\(\)](#), [read_intermediate_region\(\)](#), [read_meso_region\(\)](#), [read_micro_region\(\)](#), [read_municipality\(\)](#), [read_neighborhood\(\)](#), [read_semiarid\(\)](#), [read_state\(\)](#), [read_statistical_grid\(\)](#), [read_weighting_area\(\)](#)

Examples

```
## Not run: if (interactive()) {
# Read specific year
reg <- read_region(year=2018)
}
## End(Not run)
```

read_schools	<i>Download geolocated data of schools</i>
--------------	--

Description

Data comes from the School Census collected by INEP, the National Institute for Educational Studies and Research Anísio Teixeira. The date of the last data update is registered in the database in the column 'date_update'. These data uses Geodetic reference system "SIRGAS2000" and CRS(4674). The coordinates of each school if collected by INEP. Periodically the coordinates are revised with the objective of improving the quality of the data. More information available at <https://www.gov.br/inep/pt-br/aceso-a-informacao/dados-abertos/inep-data/catalogo-de-escolas/>

Usage

```
read_schools(year = 2020, showProgress = TRUE)
```

Arguments

year	A year number in YYYY format. Defaults to 2020
showProgress	Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

Examples

```
## Not run: if (interactive()) {
# Read all schools in the country
s <- read_schools( year = 2020)
}
## End(Not run)
```

read_semiarid	<i>Download spatial data of the Brazilian Semiarid region</i>
---------------	---

Description

This data set covers the whole of Brazilian Semiarid as defined in the resolution in 23/11/2017). The original data comes from the Brazilian Institute of Geography and Statistics (IBGE) and can be found at <https://www.ibge.gov.br/geociencias/cartas-e-mapas/mapas-regionais/15974-semiarido-brasileiro.html?=&t=downloads>

Usage

```
read_semiarid(year = 2017, simplified = TRUE, showProgress = TRUE)
```

Arguments

year	A date number in YYYY format (defaults to 2017)
simplified	Logic FALSE or TRUE, indicating whether the function returns the data set with 'original' resolution or a data set with 'simplified' borders. Defaults to TRUE). For spatial analysis and statistics users should set <code>simplified = FALSE</code> . Borders have been simplified by removing vertices of borders using <code>st_simplify{sf}</code> preserving topology with a <code>dTolerance</code> of 100.
showProgress	Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

See Also

Other general area functions: [read_amazon\(\)](#), [read_biomes\(\)](#), [read_census_tract\(\)](#), [read_comparable_areas\(\)](#), [read_conservation_units\(\)](#), [read_country\(\)](#), [read_health_region\(\)](#), [read_immediate_region\(\)](#), [read_intermediate_region\(\)](#), [read_meso_region\(\)](#), [read_micro_region\(\)](#), [read_municipality\(\)](#), [read_neighborhood\(\)](#), [read_region\(\)](#), [read_state\(\)](#), [read_statistical_grid\(\)](#), [read_weighting_area\(\)](#)

Examples

```
## Not run: if (interactive()) {  
# Read Brazilian semiarid  
a <- read_semiarid(year=2017)  
}  
## End(Not run)
```

read_state

Download spatial data of Brazilian states

Description

Data at scale 1:250,000, using Geodetic reference system "SIRGAS2000" and CRS(4674)

Usage

```
read_state(  
  code_state = "all",  
  year = 2010,  
  simplified = TRUE,  
  showProgress = TRUE  
)
```

Arguments

code_state	The two-digit code of a state or a two-letter uppercase abbreviation (e.g. 33 or "RJ"). If code_state="all", all states will be loaded.
year	Year of the data. Defaults to 2010
simplified	Logic FALSE or TRUE, indicating whether the function returns the data set with 'original' resolution or a data set with 'simplified' borders. Defaults to TRUE. For spatial analysis and statistics users should set simplified = FALSE. Borders have been simplified by removing vertices of borders using st_simplify{sf} preserving topology with a dTolerance of 100.
showProgress	Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

See Also

Other general area functions: [read_amazon\(\)](#), [read_biomes\(\)](#), [read_census_tract\(\)](#), [read_comparable_areas\(\)](#), [read_conservation_units\(\)](#), [read_country\(\)](#), [read_health_region\(\)](#), [read_immediate_region\(\)](#), [read_intermediate_region\(\)](#), [read_meso_region\(\)](#), [read_micro_region\(\)](#), [read_municipality\(\)](#), [read_neighborhood\(\)](#), [read_region\(\)](#), [read_semiarid\(\)](#), [read_statistical_grid\(\)](#), [read_weighting_area\(\)](#)

Examples

```
if (interactive()) {
# Read specific state at a given year
uf <- read_state(code_state=12, year=2017)

# Read specific state at a given year
uf <- read_state(code_state="SC", year=2000)

# Read all states at a given year
ufs <- read_state(code_state="all", year=2010)
}
```

read_statistical_grid *Download spatial data of IBGE's statistical grid*

Description

Data at scale 1:250,000, using Geodetic reference system "SIRGAS2000" and CRS(4674)

Usage

```
read_statistical_grid(code_grid, year = 2010, showProgress = TRUE)
```

Arguments

code_grid	If two-letter abbreviation of a state is passed, the function will load all grid quadrants that intersect with that state. If code_grid="all", the grid of the whole country will be loaded. Users may also pass a 7-digit code of a grid quadrant to load an specific quadrant.
year	Year of the data. Defaults to 2010. The only year available thus far is 2010.
showProgress	Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

See Also

Other general area functions: [read_amazon\(\)](#), [read_biomes\(\)](#), [read_census_tract\(\)](#), [read_comparable_areas\(\)](#), [read_conservation_units\(\)](#), [read_country\(\)](#), [read_health_region\(\)](#), [read_immediate_region\(\)](#), [read_intermediate_region\(\)](#), [read_meso_region\(\)](#), [read_micro_region\(\)](#), [read_municipality\(\)](#), [read_neighborhood\(\)](#), [read_region\(\)](#), [read_semiarid\(\)](#), [read_state\(\)](#), [read_weighting_area\(\)](#)

Examples

```
## Not run: if (interactive()) {
# Read specific municipality at a given year
grid <- read_statistical_grid(code_grid = 45, year=2010)

# Read all municipalities of a state at a given year
state_grid <- read_statistical_grid(code_grid = "RJ")
}
## End(Not run)
```

read_urban_area

Download spatial data of urbanized areas in Brazil

Description

This function reads the official data on the urban footprint of Brazilian cities in the years 2005 and 2015. Original data were generated by the Institute of Geography and Statistics (IBGE) For more information about the methodology, see details at <https://biblioteca.ibge.gov.br/visualizacao/livros/liv100639.pdf>

Usage

```
read_urban_area(year = 2015, simplified = TRUE, showProgress = TRUE)
```

Arguments

year	A year number in YYYY format. Defaults to 2015
simplified	Logic FALSE or TRUE, indicating whether the function returns the data set with 'original' resolution or a data set with 'simplified' borders. Defaults to TRUE. For spatial analysis and statistics users should set <code>simplified = FALSE</code> . Borders have been simplified by removing vertices of borders using <code>st_simplify{sf}</code> preserving topology with a <code>dTolerance</code> of 100.
showProgress	Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

Examples

```
## Not run: if (interactive()) {
# Read urban footprint of Brazilian cities in an specific year
d <- read_urban_area(year=2005)
}
## End(Not run)
```

read_urban_concentrations

Download urban concentration areas in Brazil

Description

This function reads the official data on the urban concentration areas (Areas de Concentracao de Populacao) of Brazil. Original data were generated by the Institute of Geography and Statistics (IBGE) For more information about the methodology, see details at https://www.ibge.gov.br/apps/arranjos_populacionais/2015/pdf/publicacao.pdf

Usage

```
read_urban_concentrations(year = 2015, simplified = TRUE, showProgress = TRUE)
```

Arguments

year	A year number in YYYY format. Defaults to 2015
simplified	Logic FALSE or TRUE, indicating whether the function returns the data set with 'original' resolution or a data set with 'simplified' borders. Defaults to TRUE. For spatial analysis and statistics users should set <code>simplified = FALSE</code> . Borders have been simplified by removing vertices of borders using <code>st_simplify{sf}</code> preserving topology with a <code>dTolerance</code> of 100.
showProgress	Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

Examples

```
## Not run: if (interactive()) {
# Read urban footprint of Brazilian cities in an specific year
uc <- read_urban_concentrations(year=2015)
}
## End(Not run)
```

read_weighting_area	<i>Download spatial data of Census Weighting Areas (area de ponderacao) of the Brazilian Population Census</i>
---------------------	--

Description

Only 2010 data is currently available.

Usage

```
read_weighting_area(
  code_weighting = "all",
  year = 2010,
  simplified = TRUE,
  showProgress = TRUE
)
```

Arguments

code_weighting	The 7-digit code of a Municipality. If the two-digit code or a two-letter uppercase abbreviation of a state is passed, (e.g. 33 or "RJ") the function will load all weighting areas of that state. If code_weighting="all", all weighting areas of the country are loaded.
year	Year of the data. Defaults to 2010
simplified	Logic FALSE or TRUE, indicating whether the function returns the data set with 'original' resolution or a data set with 'simplified' borders. Defaults to TRUE. For spatial analysis and statistics users should set simplified = FALSE. Borders have been simplified by removing vertices of borders using st_simplify{sf} preserving topology with a dTolerance of 100.
showProgress	Logical. Defaults to TRUE display progress bar

Value

An "sf" "data.frame" object

See Also

Other general area functions: [read_amazon\(\)](#), [read_biomes\(\)](#), [read_census_tract\(\)](#), [read_comparable_areas\(\)](#), [read_conservation_units\(\)](#), [read_country\(\)](#), [read_health_region\(\)](#), [read_immediate_region\(\)](#), [read_intermediate_region\(\)](#), [read_meso_region\(\)](#), [read_micro_region\(\)](#), [read_municipality\(\)](#), [read_neighborhood\(\)](#), [read_region\(\)](#), [read_semiarid\(\)](#), [read_state\(\)](#), [read_statistical_grid\(\)](#)

Examples

```
## Not run: if (interactive()) {
# Read specific weighting area at a given year
w <- read_weighting_area(code_weighting=5201108005004, year=2010)

# Read all weighting areas of a state at a given year
w <- read_weighting_area(code_weighting=53, year=2010) # or
w <- read_weighting_area(code_weighting="DF", year=2010)
plot(w)

# Read all weighting areas of a municipality at a given year
w <- read_weighting_area(code_weighting=5201108, year=2010)
plot(w)

# Read all weighting areas of the country at a given year
w <- read_weighting_area(code_weighting="all", year=2010)
}
## End(Not run)
```

select_data_type	<i>Select data type: 'original' or 'simplified' (default)</i>
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Description

Select data type: 'original' or 'simplified' (default)

Usage

```
select_data_type(temp_meta, simplified = NULL)
```

Arguments

temp_meta	A dataframe with the file_url addresses of geobr datasets
simplified	Logical TRUE or FALSE indicating whether the function returns the 'original' dataset with high resolution or a dataset with 'simplified' borders (Defaults to TRUE)

See Also

Other support functions: [check_connection\(\)](#), [download_gpkg\(\)](#), [load_gpkg\(\)](#), [select_metadata\(\)](#), [select_year_input\(\)](#)

select_metadata	<i>Select metadata</i>
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Description

Select metadata

Usage

```
select_metadata(geography, year = NULL, simplified = NULL)
```

Arguments

geography	Which geography will be downloaded
year	Year of the dataset (passed by red_ function)
simplified	Logical TRUE or FALSE indicating whether the function returns the 'original' dataset with high resolution or a dataset with 'simplified' borders (Defaults to TRUE)

See Also

Other support functions: [check_connection\(\)](#), [download_gpkg\(\)](#), [load_gpkg\(\)](#), [select_data_type\(\)](#), [select_year_input\(\)](#)

Examples

```
library(geobr)

df <- download_metadata()
```

select_year_input	<i>Select year input</i>
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Description

Select year input

Usage

```
select_year_input(temp_meta, y = year)
```

Arguments

`temp_meta` A dataframe with the `file_url` addresses of geobr datasets
`y` Year of the dataset (passed by `red_` function)

See Also

Other support functions: [check_connection\(\)](#), [download_gpkg\(\)](#), [load_gpkg\(\)](#), [select_data_type\(\)](#), [select_metadata\(\)](#)

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