

Package ‘sidrar’

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Type Package

Title An Interface to IBGE's SIDRA API

Version 0.2.8

Description Allows the user to connect with IBGE's (Instituto Brasileiro de Geografia e Estatística, see <<https://www.ibge.gov.br/>> for more information) SIDRA API in a flexible way. SIDRA is the acronym to "Sistema IBGE de Recuperacao Automatica" and is the system where IBGE turns available aggregate data from their researches.

Depends R (>= 3.2.0)

License GPL-3

Encoding UTF-8

URL <https://github.com/rpradosiqueira/sidrar/>

BugReports <https://github.com/rpradosiqueira/sidrar/issues/>

Imports magrittr, RCurl, rjson, rvest, stringr, xml2

RoxygenNote 7.1.2

Suggests knitr, rmarkdown

VignetteBuilder knitr

NeedsCompilation no

Author Renato Prado Siqueira [aut, cre]

Maintainer Renato Prado Siqueira <rpradosiqueira@gmail.com>

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 get_sidra

 Get SIDRA's table

Description

This function allows the user to connect with IBGE's (Instituto Brasileiro de Geografia e Estatística) SIDRA API in a flexible way. SIDRA is the acronym to "Sistema IBGE de Recuperação Automática" and it is the system where IBGE makes aggregate data from their researches available.

Usage

```
get_sidra(x, variable = "allxp", period = "last", geo = "Brazil",
  geo.filter = NULL, classific = "all", category = "all", header = TRUE,
  format = 4, digits = "default", api = NULL)
```

Arguments

x	A table from IBGE's SIDRA API.
variable	An integer vector of the variables' codes to be returned. Defaults to all variables with exception of "Total".
period	A character vector describing the period of data. Defaults to the last available.
geo	A character vector describing the geographic levels of the data. Defaults to "Brazil".
geo.filter	A (named) list object with the specific item of the geographic level or all itens of a determined higher geografic level. It should be used when geo argument is provided, otherwise all geographic units of 'geo' argument are considered.
classific	A character vector with the table's classification(s). Defaults to all.
category	"all" or a list object with the categories of the classifications of classific(s) argument. Defaults to "all".
header	Logical. should the data frame be returned with the description names in header?
format	An integer ranging between 1 and 4. Default to 4. See more in details.
digits	An integer, "default" or "max". Default to "default" that returns the defaults digits to each variable.
api	A character with the api's parameters. Defaults to NULL.

Details

period can be a integer vector with names "first" and/or "last", or "all" or a simply character vector with date format

The geo argument can be one of "Brazil", "Region", "State", "MesoRegion", "MicroRegion", "MetroRegion", "MetroRegionDiv", "IRD", "UrbAglo", "City", "District", "subdistrict", "Neighborhood", "PopArrang". 'geo.filter' lists can/must be named with the same characters.

When NULL, the arguments classific and category return all options available.

When argument api is not NULL, all others arguments informed are desconsidered

The format argument can be set to:

- 1: Return only the descriptors' codes
- 2: Return only the descriptor's names
- 3: Return the codes and names of the geographic level and descriptors' names
- 4: Return the codes and names of the descriptors (Default)

Value

The function returns a data frame printed by default functions

Author(s)

Renato Prado Siqueira <rpradosiqueira@gmail.com>

See Also

[info_sidra](#)

Examples

```
## Not run:
## Requesting table 1419 (Consumer Price Index - IPCA) from the API
ipca <- get_sidra(1419,
                 variable = 69,
                 period = c("201212", "201401-201412"),
                 geo = "City",
                 geo.filter = list("State" = 50))

## Urban population count from Census data (2010) for States and cities of Southeast region.
get_sidra(1378,
          variable = 93,
          geo = c("State", "City"),
          geo.filter = list("Region" = 3, "Region" = 3),
          classific = c("c1"),
          category = list(1))

## Number of informants by state in the Inventory Research (last data available)
get_sidra(api = "/t/254/n1/all/n3/all/v/151/p/last%201/c162/118423/c163/0")

## End(Not run)
```

info_sidra

Listing all the parameters of a SIDRA's table

Description

It returns the parameters and their descriptions of a SIDRA's table.

Usage

```
info_sidra(x, wb = FALSE)
```

Arguments

x A table from SIDRA's API.
wb Logical. Should the metadata be open in the web browser? Default to FALSE.

Value

A list with the all table's parameters.

Author(s)

Renato Prado Siqueira <rpradosiqueira@gmail.com>

See Also

[get_sidra](#)

Examples

```
## Not run:  
info_sidra(1419)  
  
## End(Not run)
```

search_sidra	<i>Search SIDRA's tables with determined term(s)</i>
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Description

It returns all SIDRA's tables with determined term

Usage

```
search_sidra(x)
```

Arguments

x A character vector with the term(s)/word(s) to search.

Value

A character vector with the tables' names.

Author(s)

Renato Prado Siqueira <rpradosiqueira@gmail.com>

See Also

[get_sidra](#)

Examples

```
## Not run:  
search_sidra("contas nacionais")  
  
## End(Not run)
```

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