Package ‘sidrar’

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Type Package
Title An Interface to IBGE’s SIDRA API
Version 0.2.9
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 Recuperação Automática" 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/
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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**

```r
get_sidra(x, variable = "allex", 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 geographic 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
- `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:
info_sidra

• 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)

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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 Southwest 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)
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 Search SIDRA’s tables with determined term(s)

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.
search_sidra

Author(s)

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See Also

get_sidra

Examples

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

## End(Not run)
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