

Package: sidrar (via r-universe)

July 23, 2026

Type Package

Title An Interface to IBGE's SIDRA API

Version 0.3.0

Description Provides a flexible interface to the aggregate data available from the Brazilian Institute of Geography and Statistics (IBGE) through its SIDRA application programming interfaces. SIDRA is IBGE's system for retrieving aggregate statistical data.

Depends R (>= 3.6.0)

License GPL-3

Encoding UTF-8

Language en-US

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

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

Imports httr, jsonlite, utils

RoxygenNote 8.0.0

Suggests knitr, rmarkdown, testthat (>= 3.2.0)

Config/testthat/edition 3

VignetteBuilder knitr

NeedsCompilation no

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Repository <https://cran.r-universe.dev>

Date/Publication 2026-07-23 20:50:02 UTC

RemoteUrl <https://github.com/cran/sidrar>

RemoteRef HEAD

RemoteSha f43da0125edbb4f4901ae13e8f00014a4451c507

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get_sidra	<i>Get a SIDRA table</i>
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Description

Retrieves aggregate data from the Brazilian Institute of Geography and Statistics (IBGE) SIDRA API.

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,  
  value_type = c("numeric", "character", "both")  
)
```

Arguments

x	A numeric SIDRA table code. It may be omitted when api is used.
variable	A vector of variable codes. Defaults to "allxp", which selects all variables except automatically generated percentages.
period	A character vector of period codes, "all", or a single named value such as c(last = 12) or c(first = 5).
geo	A character vector containing supported geographic levels. Defaults to "Brazil".
geo.filter	A list of geographic filters. Each element corresponds positionally to an element of geo; names may identify a higher geographic level, such as list(State = 50) for cities in a state.
classific	A vector of classification codes. Defaults to "all".
category	"all" or a list containing categories for each classification.

header	Logical. Should the first API record be used as the returned column names?
format	An integer from 1 to 4 controlling the returned descriptor fields. See Details.
digits	"default", "max", or an integer from 0 to 9.
api	A relative SIDRA API path or a complete URL under https://apisidra.ibge.gov.br/values . When supplied, the other query arguments are ignored.
value_type	How the value column is returned: "numeric" preserves the historical numeric interface, "character" preserves SIDRA symbols, and "both" keeps the numeric column and appends a <code>_raw</code> column.

Details

Supported values of `geo` are "Brazil", "Region", "State", "IntermediaryRegion", "ImmediateRegion", "MesoRegion", "MicroRegion", "MetroRegion", "MetroRegionDiv", "IRD", "UrbAglo", "PopArrang", "City", "District", "subdistrict", and "Neighborhood".

`format = 1` returns codes, `format = 2` returns names, `format = 3` returns codes and names for geographic units plus names for other descriptors, and `format = 4` returns codes and names for all descriptors.

Requests use HTTPS, UTF-8 decoding, a timeout, and limited retries for transient failures. Set `options(sidrar.timeout = 120)` or `options(sidrar.retries = 4)` to override their defaults.

The SIDRA API uses special value symbols. With the default `value_type = "numeric"`, non-numeric symbols such as "-", "X", "...", and "..." become NA, as in earlier versions. Use `value_type = "character"` or "both" when those distinctions matter.

Value

A base data.frame.

Author(s)

Renato Prado Siqueira <rpradosiqueira@gmail.com>

See Also

[info_sidra\(\)](#) and [search_sidra\(\)](#)

Examples

```
## Not run:
get_sidra(
  x = 7060,
  variable = 63,
  period = c(last = 12),
  geo = "City",
  geo.filter = list(State = 50),
  classific = "c315",
  category = list(7169)
)
```

```

get_sidra(
  api = "/t/7060/n1/all/v/63/p/last/c315/7169/h/n"
)

## End(Not run)

```

info_sidra

List the parameters of a SIDRA table

Description

Uses the official JSON table descriptor to return variables, periods, classifications, categories, and geographic levels available in a table.

Usage

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

Arguments

x	A numeric SIDRA table code.
wb	Logical. When TRUE, open the official HTML descriptor in the default browser. When FALSE, return structured metadata.

Value

When wb = FALSE, a list with components table, period, variable, classific_category, and geo. When wb = TRUE, the descriptor URL is returned invisibly after the browser is opened.

Author(s)

Renato Prado Siqueira <rpradosiqueira@gmail.com>

See Also

[get_sidra\(\)](#)

Examples

```

## Not run:
info_sidra(7060)
info_sidra(7060, wb = TRUE)

## End(Not run)

```

search_sidra	<i>Search SIDRA tables</i>
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Description

Searches table titles in the official IBGE aggregate catalog.

Usage

```
search_sidra(x)
```

Arguments

x A non-empty character vector containing the search terms.

Value

A named character vector with matching SIDRA table titles. Names are the table codes.

Author(s)

Renato Prado Siqueira <rpradosiqueira@gmail.com>

See Also

[get_sidra\(\)](#) and [info_sidra\(\)](#)

Examples

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

## End(Not run)
```

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