

Package ‘bonn’

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Title Access INKAR Database

Version 1.0.3

Description Retrieve and import data from the INKAR database (Indikatoren und Karten zur Raum- und Stadtentwicklung Datenbank, <<https://www.inkar.de>>) of the Federal Office for Building and Regional Planning (BBSR) in Bonn using their JSON API.

Depends R (>= 3.3.1)

License GPL-3

URL <https://github.com/sumtxt/bonn/>

BugReports <https://github.com/sumtxt/bonn/issues>

Encoding UTF-8

Imports httr (>= 1.2.1), jsonlite (>= 1.6.0)

RoxygenNote 7.3.2

NeedsCompilation no

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`get_data`*Get Data*

Description

`get_data` retrieves a data frame with all available values for a variable

Usage

```
get_data(variable, geography, time = NULL)
```

Arguments

<code>variable</code>	variable identifier as character string
<code>geography</code>	geography identifier as character string
<code>time</code>	time identifier as vector of character strings

Details

To get a list of available geographies use [get_geographies](#). To get a list of available variables use [get_variables](#).

The function retrieves all values for all available years by default.

Value

a data.frame with columns Schlüssel (unit identifier), Raumbezug (geography identifier), Indikator (variable identifier), Wert (value) and time (year or time period).

See Also

[get_geographies](#) [get_variables](#) [get_metadata](#)

Examples

```
# The SSL vertification seems to fail for some Linux systems.
# This is likely because of a SSL certificate issue on the INKAR server.
# Disabling SSL verification comes with risks:
# https://curl.se/libcurl/c/CURLOPT_SSL_VERIFYPEER.html
httr::set_config(httr::config(ssl_verifypeer = 0L))

# GDP for all districts/all available years
get_data(variable="011", geography="KRE")

# Reset configuration
httr::reset_config()
```

get_geographies	<i>Get Available Geographies</i>
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Description

get_geographies either retrieves a data frame with all available geographies or all existing units for a given geography

Usage

```
get_geographies(geography = NULL)
```

Arguments

geography geography as string or NULL

Value

a data.frame either with the columns Kurzname (geography name), ID (geography identifier) and NGeb (number of units) or with the columns Schlüssel (unit identifier) and Name (unit name).

Examples

```
# The SSL verification seems to fail for some Linux systems.
# This is likely because of a SSL certificate issue on the INKAR server.
# Disabling SSL verification comes with risks:
# https://curl.se/libcurl/c/CURLOPT_SSL_VERIFYPEER.html
httr::set_config(httr::config(ssl_verifypeer = 0L))

# Available geographies
get_geographies()

# All districts
get_geographies("KRS")

# Reset configuration
httr::reset_config()
```

`get_metadata`*Get Metadata for a Variable*

Description

`get_metadata` retrieves the metadata for a single variable

Usage

```
get_metadata(variable)
```

Arguments

`variable` variable identifier as character string

Details

To get a list of available variables use [get_variables](#).

Value

a `data.frame` with columns `Name` (variable name), `Kurzname` (short name), `Algorithmus` (information on measurement), `Quelle` (source) and `Anmerkungen` (notes).

See Also

[get_variables](#) [get_data](#)

Examples

```
# The SSL verification seems to fail for some Linux systems.
# This is likely because of a SSL certificate issue on the INKAR server.
# Disabling SSL verification comes with risks:
# https://curl.se/libcurl/c/CURLOPT_SSL_VERIFYPEER.html
httr::set_config(httr::config(ssl_verifypeer = 0L))

# Metadata for GDP variable
get_metadata("010")

# Reset configuration
httr::reset_config()
```

`get_themes`*Get Available Themes*

Description

`get_themes` retrieves a data frame with all available themes

Usage

```
get_themes(geography)
```

Arguments

`geography` `geography` as character string

Details

To get a list of available geographies use [get_geographies](#).

Value

a `data.frame` with columns ID (theme identifier), Bereich (theme name) and Unterbereich (sub-theme name).

See Also

[get_geographies](#)

Examples

```
# The SSL verification seems to fail for some Linux systems.
# This is likely because of a SSL certificate issue on the INKAR server.
# Disabling SSL verification comes with risks:
# https://curl.se/libcurl/c/CURLOPT_SSL_VERIFYPEER.html
htr::set_config(htr::config(ssl_verifypeer = 0L))

# Available themes
get_themes("KRE")

# Reset configuration
htr::reset_config()
```

get_variables	<i>Get Available Variables</i>
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Description

get_variables retrieves a data frame with available variables

Usage

```
get_variables(theme, geography)
```

Arguments

theme	theme as character string
geography	geography as character string

Details

To get a list of available geographies use [get_geographies](#). To get a list of available themes use [get_themes](#).

Value

a data.frame with columns KurznamePlus (variable name), Bereich (theme identifier), Gruppe (variable identifier), BU, EU, Zeitreihe (all three unknown).

See Also

[get_geographies](#) [get_themes](#)

Examples

```
# The SSL vertification seems to fail for some Linux systems.
# This is likely because of a SSL certificate issue on the INKAR server.
# Disabling SSL verification comes with risks:
# https://curl.se/libcurl/c/CURLOPT_SSL_VERIFYPEER.html
httr::set_config(httr::config(ssl_verifypeer = 0L))

# Retrieves list of available variables in the
# theme "unemployment" for districts
get_variables(theme="011", geography="KRE")

# Reset configuration
httr::reset_config()
```

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