Package: mapineqr (via r-universe)

December 20, 2024

Title Access Mapineq Inequality Indicators via API

Version 0.0.0.9000

Description Access Mapineq inequality indicators via API.

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URL https://github.com/e-kotov/mapineqr/,
http://www.ekotov.pro/mapineqr/

BugReports https://github.com/e-kotov/mapineqr/issues

Imports checkmate, dplyr, httr2, jsonlite, purrr, rlang, tibble, tidyr

Suggests biscale, eurostat, nuts

Config/testthat/edition 3

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.2

Config/pak/sysreqs libicu-dev libssl-dev

Repository https://e-kotov.r-universe.dev

RemoteUrl https://github.com/e-kotov/mapineqr

RemoteRef HEAD

RemoteSha f43c13237c62c020b0ff3b5cf29990e1e378755a

Contents

mi_data *Get univariate or bivariate data for a specific source*

Description

Fetches univariate or bivariate data for a given source, year, NUTS level, and selected filters.

Usage

```
mi_data(
  x_source,
  y_source = NULL,
  year,
  level,
  x_filters = list(),
  y_filters = NULL,
  limit = 2000
)
```

Arguments

x_source	A character string specifying the source name for the x variable.
y_source	(Optional) A character string specifying the source name for the y variable.
year	A character or integer specifying the year.
level	A character string specifying the NUTS level ("0", "1", "2", or "3").
x_filters	A named list where the names are the filter fields for the x variable and the values are the selected values for those fields. Default is an empty list. To find out which filters to use, use mi_source_filters with the desired source_name.
y_filters	(Optional) A named list where the names are the filter fields for the y variable and the values are the selected values for those fields. Default is NULL. To find out which filters to use, use mi_source_filters with the desired source_name.
limit	An integer specifying the maximum number of results to return. Default is 2000.

Value

A tibble with the following columns:

For univariate data (when y_source is not provided):

- best_year: the best available year, closest to the requested year.
- geo: code for the NUTS region at the requested level.
- geo_name: name of the NUTS region at the requested level.
- x: the value of the univariate variable.

For bivariate data (when y_source is provided):

- `best_year`: the best available year, closest to the requested year (same for both x and y variables).
- `geo`: code for the NUTS region at the requested level.
- `geo_name`: name of the NUTS region at the requested level.
- `x`: the value of the x variable.
- `y`: the value of the y variable.

Examples

```
# Univariate example
mi_data(
  x_source = "TGS00010",
  year = 2020,
  level = "2",
  x_filters = list(isced11 = "TOTAL", unit = "PC", age = "Y_GE15", freq = "A")
)

# Bivariate example
mi_data(
  x_source = "TGS00010",
  y_source = "DEMO_R_MLIFEXP",
  year = 2020,
  level = "2",
  x_filters = list(isced11 = "TOTAL", unit = "PC", age = "Y_GE15", freq = "A"),
  y_filters = list(unit = "YR", age = "Y_LT1", freq = "A")
)
```

`mi_nuts_levels` *Get a list of available NUTS levels*

Description

Get a list of available NUTS levels

Usage

```
mi_nuts_levels()
```

Value

a `character` vector of valid NUTS levels that will be accepted by other functions.

Examples

```
mi_nuts_levels()
```

mi_sources *Get a list of available data sources*

Description

Get a list of available data sources

Usage

```
mi_sources(level, year = NULL, limit = 1000)
```

Arguments

level	a character string specifying the NUTS level ("0", "1", "2", or "3"). You can also always check valid NUTS levels using mi_nuts_levels.
year	an integer of length 1, specifying the year. Optional.
limit	An integer specifying the maximum number of results to return. Default is 2000.

Value

a tibble of sources with the following columns:

- source_name: name of the data source
- short_description: short description of the data source
- description: description of the data source

Examples

```
# get up to 10 sources for NUTS level 3
mi_sources("3", limit = 10)

# get all sources for NUTS level 3 and year 2020
mi_sources("3", year = 2020)
```

mi_source_coverage *Get NUTS level and Year coverage for a specific source*

Description

Get the NUTS level and Year coverage for a specific data source.

Usage

```
mi_source_coverage(source_name, limit = 1500)
```

Arguments

source_name	name of the data source
limit	An integer specifying the maximum number of results to return. Default is 2000.

Value

a tibble containing the following columns:

- nuts_level: NUTS level
- year: year
- source_name: name of the data source (mathces the source_name requested by the user)
- short_description: short description of the data source
- description: description of the data source

Examples

```
mi_source_coverage("BD_HGNACE2_R3")

mi_source_coverage("ghs_smod")
```

mi_source_filters *Get column values for filtering a source*

Description

Fetches the possible filtering values for a given source, year, and NUTS level.

Usage

```
mi_source_filters(source_name, year, level, filters = list(), limit = 40)
```

Arguments

source_name	A character string specifying the source name (f_resource).
year	A character or integer specifying the year.
level	A character string specifying the NUTS level ("0", "1", "2", or "3").
filters	A named list where the names are the filter fields and the values are the selected values for those fields. Default is an empty list.
limit	An integer specifying the maximum number of results to return. Default is 2000.

Value

A tibble with the fields, labels, and their possible values for filtering.

Examples

```
mi_source_filters(
  source_name = "DEMO_R_FIND2",
  year = 2020,
  level = "2",
  filters = list(unit = "YR")
)
```

Index