

Package ‘povcalnetR’

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Title Client for the 'Povcalnet' API

Version 0.1.1

Description

Provides an interface to compute poverty and inequality indicators for more than 160 countries and regions from the World Bank's database of household surveys. It has the same functionality as the 'Povcalnet' website (<<http://iresearch.worldbank.org/PovcalNet/>>). 'Povcalnet' is a computational tool that allows users to estimate poverty rates for regions, sets of countries or individual countries, over time and at any poverty line. 'Povcalnet' is managed jointly by the data and research group in the World Bank's development economics division. It draws heavily upon a strong collaboration with the poverty and equity global practice, which is responsible for the gathering and harmonization of the underlying survey data.

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Encoding UTF-8

LazyData true

RoxygenNote 7.1.0

Depends R (>= 3.2.0)

Imports purrr, stringr, httr, jsonlite, readr, tibble, dplyr, js, tidyr, naniar, memoise

Suggests testthat (>= 2.1.0), assertthat, knitr, rmarkdown,forcats, scales, ggthemes, ggplot2, utf8, httpertest

VignetteBuilder knitr

URL <https://github.com/worldbank/povcalnetR>

BugReports <https://github.com/worldbank/povcalnetR/issues>

NeedsCompilation no

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build_query_string *build_query_string* Create simplified povcalnet query string

Description

`build_query_string` Create simplified povcalnet query string

Usage

```
build_query_string(
  country,
  povline,
  year,
  aggregate = FALSE,
  fill_gaps = FALSE,
  coverage = "all",
  ppp = NULL,
  format = "json"
)
```

Arguments

<code>country</code>	character: list of country iso3 code (accepts multiple) or ‘all’. Use iso3 codes
<code>povline</code>	numeric: poverty line (in 2011 PPP-adjusted USD) to calculate poverty measures
<code>year</code>	numeric: list of years, or ‘all’, or ‘last’.
<code>aggregate</code>	logical: ‘TRUE’ will return aggregate results, ‘FALSE’ country-level results.
<code>fill_gaps</code>	logical: ‘TRUE’ will interpolate / extrapolate values when surveys are not available for a specific year.

coverage	character: Can take one of four values: ‘all’ (default), ‘national’, ‘urban’, ‘rural’.
ppp	numeric: Optional - Allows the selection of custom PPP (Purchasing Power Parity) exchange rates
format	character: Response format to be requested from the API: ‘csv’ or ‘json’

Value

character

Examples

```
build_query_string(country = c("ALB", "CHN"),
povline = 1.9,
year = c(2002, 2012))
```

build_query_string_cl *build_query_string_cl Create povcalnet query string for country level, survey year specification*

Description

`build_query_string_cl` Create povcalnet query string for country level, survey year specification

Usage

```
build_query_string_cl(
  country,
  povline,
  year,
  ppp = NULL,
  coverage_type = NULL,
  format = "json"
)
```

Arguments

country	character: Requested country. Use iso3 codes
povline	numeric: Requested poverty lines in international dollars
year	numeric: Requested survey years
ppp	numeric: Optional - Custom PPP exchange rates (Purchasing Power parity)
coverage_type	character: Optional - Type of data coverage. Take one to the following values rural; urban; national; special_cpi; aggregated_distribution, invalid_ppp
format	character: Response format to be requested from the API: ‘csv’ or ‘json’

Value

character

Examples

```
build_query_string.cl(country = c("ALB", "CHN"),
povline = c(1.9, 2.0),
year = c(2002, 2002))
```

get_countries *get_countries*

Description

Helper function to quickly retrieve the list of iso3 country codes for a specific World Bank region or income group

Usage

```
get_countries(region_code)
```

Arguments

`region_code` character: A region or income group code. Only accepts one code

Value

a vector of country code

Examples

```
get_countries("ECA")
```

povcalnet*povcalnet Facilitate interaction with the PovcalNet API*

Description

`povcalnet` Facilitate interaction with the PovcalNet API

Usage

```
povcalnet(
  country = "all",
  povline = 1.9,
  year = "all",
  aggregate = FALSE,
  fill_gaps = FALSE,
  coverage = "all",
  ppp = NULL,
  url = "http://iresearch.worldbank.org",
  format = "csv"
)
```

Arguments

<code>country</code>	character: list of country iso3 code (accepts multiple) or ‘all’. Use povcalnet_info for full list of countries.
<code>povline</code>	numeric: poverty line (in 2011 PPP-adjusted USD) to calculate poverty measures
<code>year</code>	numeric: list of years, or ‘all’.
<code>aggregate</code>	logical: ‘TRUE‘ will return aggregate results, ‘FALSE‘ country-level results.
<code>fill_gaps</code>	logical: ‘TRUE‘ will interpolate / extrapolate values when surveys are not available for a specific year.
<code>coverage</code>	character: Can take one of three values: ‘national‘, ‘urban‘, ‘rural‘
<code>ppp</code>	numeric: Optional - Allows the selection of custom PPP (Purchasing Power Parity) exchange rates
<code>url</code>	character: API root URL. For testing purposes only, should not be changed for 99 percent of users.
<code>format</code>	character: Response format to be requested from the API: ‘csv‘ or ‘json‘

Value

`data.frame`

Examples

```
povcalnet(country = "ALB")
```

povcalnet_cl

povcalnet_cl Facilitate interaction with the PovcalNet API. All parameters are specified at the country level (hence the _cl suffix), so if you send a request for two countries, you must also pass two values to the ‘year’ argument, two values to the ‘povline’ argument, etc.

Description

`povcalnet_cl` Facilitate interaction with the PovcalNet API. All parameters are specified at the country level (hence the _cl suffix), so if you send a request for two countries, you must also pass two values to the ‘year’ argument, two values to the ‘povline’ argument, etc.

Usage

```
povcalnet_cl(
  country,
  povline,
  year,
  coverage = NULL,
  ppp = NULL,
  url = "http://iresearch.worldbank.org",
  format = "csv"
)
```

Arguments

<code>country</code>	character: list of country iso3 code (accepts multiple). Use povcalnet_info for full list of countries.
<code>povline</code>	numeric: poverty line (in 2011 PPP-adjusted USD) to calculate poverty measures
<code>year</code>	numeric: list of years, or ‘all’, or ‘last’.
<code>coverage</code>	character: Can take one of three values: ‘national’, ‘urban’, ‘rural’
<code>ppp</code>	numeric: Optional - Allows the selection of custom PPP (Purchasing Power Parity) exchange rates
<code>url</code>	character: API root URL. For testing purposes only, should not be changed for 99 percent of users.
<code>format</code>	character: Response format to be requested from the API: ‘csv’ or ‘json’

povcalnet_info

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Value

data.frame

Examples

```
povcalnet_cl(country = c("ALB", "USA"), povline = c(3.2, 5.5), year = c(2012, 2010))
```

povcalnet_info *povcalnet_info()*

Description

Download updated information on available countries, regions, and surveys from the PovcalNet API

Usage

```
povcalnet_info(url = "http://iresearch.worldbank.org/povcalnet")
```

Arguments

url character: Path to file: This parameter should not be modified.

Value

data frame

Examples

```
povcalnet_info()
```

`povcalnet_wb`

povcalnet_wb Returns the official WB regional estimates

Description

`povcalnet_wb` Returns the official WB regional estimates

Usage

```
povcalnet_wb(
  povline = 1.9,
  year = "all",
  url = "http://iresearch.worldbank.org",
  format = "csv"
)
```

Arguments

<code>povline</code>	numeric: poverty line (in 2011 PPP-adjusted USD) to calculate poverty measures
<code>year</code>	numeric: list of years, or ‘all’.
<code>url</code>	character: API root URL. For testing purposes only, should not be changed for 99 percent of users.
<code>format</code>	character: Response format to be requested from the API: ‘csv’ or ‘json’

Value

`data.frame`

Examples

```
povcalnet_wb(year = 2015)
```

`povcal_info`

povcal_info

Description

Non-memoised version of `povcalnet_info()`

Usage

```
povcal_info(url = "http://iresearch.worldbank.org/povcalnet")
```

Arguments

url character: Path to file: This parameter should not be modified.

Value

data.frame

Examples

```
povcalnet_info()
```

sample_input

sample_input

Description

A sample dataset to facilitate testing of ‘povcalnet_cl()“ function

Usage

```
sample_input
```

Format

A data frame with 5 rows and 5 variables:

country iso3 country codes

poverty_line Poverty line, in PPP

year Survey year in YYYY format

ppp PPP exchange rate

coverage_type Survey coverage

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