

Package ‘worldbank’

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Title Client for World Banks's 'Indicators' and 'Poverty and Inequality Platform (PIP)' APIs

Version 0.7.1

Description Download and search data from the 'World Bank Indicators API', which provides access to nearly 16,000 time series indicators. See <https://datahelpdesk.worldbank.org/knowledgebase/articles/889392-about-the-indicators-api-documentation> for further details about the API.

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URL <https://m-muecke.github.io/worldbank/>,
<https://github.com/m-muecke/worldbank>

BugReports <https://github.com/m-muecke/worldbank/issues>

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cache	<i>Get or manage the worldbank API cache</i>
-------	--

Description

wb_cache_dir() returns the path where cached API responses are stored. wb_cache_delete() clears all cached responses.

Usage

```
wb_cache_dir()

wb_cache_delete()
```

Details

The cache is only used when enabled with options(worldbank.cache = TRUE). Cached responses are stored for 1 day by default, but this can be customized with options(worldbank.cache_max_age = seconds).

Examples

```
## Not run:
# enable caching
options(worldbank.cache = TRUE)

# view cache location
wb_cache_dir()

# clear the cache
wb_cache_delete()

## End(Not run)
```

fone_dataset	<i>Return Finances One API Data</i>
--------------	-------------------------------------

Description

Return Finances One API Data

Usage

```
fone_dataset(dataset_id, resource_id, ..., limit = NULL)

fone_view(view_id, ..., limit = NULL)
```

Arguments

dataset_id	(character(1)) The id of the associated dataset.
resource_id	(character(1)) Id of the associated resource.
...	(any) Additional arguments passed to the request.
limit	(NULL integer(1)) The maximum number of rows to return. Default is NULL. If NULL, all rows are returned.
view_id	(character(1)) The Id of the view.

Value

A data.frame() with the requested dataset.

Source

<https://financesone.worldbank.org/data>

Examples

```
## Not run:
# get dataset data
dataset <- fone_dataset(dataset_id = "DS00047", resource_id = "RS00005")
head(dataset)

# get view data
view <- fone_view(view_id = "DS01538")
head(view)

## End(Not run)
```

pip_aux

Return auxiliary data tables

Description

Return auxiliary data tables

Usage

```
pip_aux(
  table = NULL,
  release_version = NULL,
  ppp_version = NULL,
  version = NULL
)
```

Arguments

table	(NULL character(1)) Table to be returned. Default NULL.
release_version	(NULL character(1)) Version of the data release in YYYYMMDD format. Default NULL.
ppp_version	(NULL character(1) numeric(1)) Version of the data. Default NULL.
version	(NULL character(1)) Version of the data. Default NULL.

Value

A character() with the available tables or a data.frame() containing the table data.

Source

<https://pip.worldbank.org/api>

See Also

Other poverty and inequality statistics: [pip_citation\(\)](#), [pip_data\(\)](#), [pip_group\(\)](#), [pip_health_check\(\)](#), [pip_info\(\)](#), [pip_valid_params\(\)](#), [pip_versions\(\)](#)

Examples

```
# get a list of available tables
pip_aux()

# get countries
aux <- pip_aux("countries")
head(aux)

# get GDP
aux <- pip_aux("gdp")
head(aux)

# get CPI
aux <- pip_aux("cpi")
head(aux)
```

pip_citation	<i>Return citation for a given version</i>
--------------	--

Description

Return citation for a given version

Usage

```
pip_citation(release_version = NULL, ppp_version = NULL, version = NULL)
```

Arguments

release_version	(NULL character(1)) Version of the data release in YYYYMMDD format. Default NULL.
ppp_version	(NULL character(1) numeric(1)) Version of the data. Default NULL.
version	(NULL character(1)) Version of the data. Default NULL.

Value

A data.frame() with the citation.

Source

<https://pip.worldbank.org/api>

See Also

Other poverty and inequality statistics: [pip_aux\(\)](#), [pip_data\(\)](#), [pip_group\(\)](#), [pip_health_check\(\)](#), [pip_info\(\)](#), [pip_valid_params\(\)](#), [pip_versions\(\)](#)

Examples

```
pip_citation()
```

pip_data	<i>Return main poverty and inequality statistics</i>
----------	--

Description

Return main poverty and inequality statistics

Usage

```
pip_data(
  country = NULL,
  year = NULL,
  povline = 2.15,
  popshare = NULL,
  fill_gaps = FALSE,
  welfare_type = c("all", "consumption", "income"),
  reporting_level = c("all", "national", "rural", "urban"),
  additional_ind = FALSE,
  release_version = NULL,
  ppp_version = NULL,
  version = NULL
)
```

Arguments

country	(NULL character()) Countries for which statistics are to be computed, specified as ISO3 codes. Default NULL.
year	(NULL character() numeric()) Years for which statistics are to be computed, specified as YYYY. Default NULL.

povline	(numeric(1)) Poverty line to be used to compute poverty mesures. Poverty lines are only accepted up to 3 decimals. Default 2.15.
popshare	(NULL numeric(1)) Proportion of the population living below the poverty line. Will be ignored if povline is specified. Default NULL.
fill_gaps	(logical(1)) Whether to fill gaps in the data. Default FALSE.
welfare_type	(character(1)) Type of welfare measure to be used. Default "all".
reporting_level	(character(1)) level of reporting for the statistics. Default "all".
additional_ind	(logical(1)) Whether to include additional indicators. Default FALSE.
release_version	(NULL character(1)) Version of the data release in YYYYMMDD format. Default NULL.
ppp_version	(NULL character(1) numeric(1)) Version of the data. Default NULL.
version	(NULL character(1)) Version of the data. Default NULL.

Value

A data.frame() with the requested statistics.

Source

<https://pip.worldbank.org/api>

See Also

Other poverty and inequality statistics: [pip_aux\(\)](#), [pip_citation\(\)](#), [pip_group\(\)](#), [pip_health_check\(\)](#), [pip_info\(\)](#), [pip_valid_params\(\)](#), [pip_versions\(\)](#)

Examples

```
data <- pip_data(c("ZAF", "ZMB"))
head(data)
```

`pip_group`

Return aggregation of PIP statistics

Description

Return aggregation of PIP statistics

Usage

```
pip_group(
  country = NULL,
  year = NULL,
  povline = 2.15,
  popshare = NULL,
  group_by = c("wb", "none"),
  fill_gaps = FALSE,
  welfare_type = c("all", "consumption", "income"),
  reporting_level = c("all", "national", "rural", "urban"),
  additional_ind = FALSE,
  release_version = NULL,
  ppp_version = NULL,
  version = NULL
)
```

Arguments

<code>country</code>	(NULL character()) Countries for which statistics are to be computed, specified as ISO3 codes. Default NULL.
<code>year</code>	(NULL character() numeric()) Years for which statistics are to be computed, specified as YYYY. Default NULL.
<code>povline</code>	(numeric(1)) Poverty line to be used to compute poverty measures. Poverty lines are only accepted up to 3 decimals. Default 2.15.
<code>popshare</code>	(NULL numeric(1)) Proportion of the population living below the poverty line. Will be ignored if povline is specified. Default NULL.
<code>group_by</code>	(character(1)) Aggregate results by pre-defined sub-groups. Default "wb".
<code>fill_gaps</code>	(logical(1)) Whether to fill gaps in the data. Default FALSE.
<code>welfare_type</code>	(character(1)) Type of welfare measure to be used. Default "all".
<code>reporting_level</code>	(character(1)) level of reporting for the statistics. Default "all".

additional_ind (logical(1))
 Whether to include additional indicators. Default FALSE.
 release_version
 (NULL | character(1))
 Version of the data release in YYYYMMDD format. Default NULL.
 ppp_version (NULL | character(1) | numeric(1))
 Version of the data. Default NULL.
 version (NULL | character(1))
 Version of the data. Default NULL.

Value

A data.frame() with the requested statistics.

Source

<https://pip.worldbank.org/api>

See Also

Other poverty and inequality statistics: [pip_aux\(\)](#), [pip_citation\(\)](#), [pip_data\(\)](#), [pip_health_check\(\)](#), [pip_info\(\)](#), [pip_valid_params\(\)](#), [pip_versions\(\)](#)

Examples

```
grp <- pip_group(c("AFE", "LAC"))
head(grp)
```

pip_health_check	<i>Determine if the API is running and listening as expected</i>
------------------	--

Description

Determine if the API is running and listening as expected

Usage

```
pip_health_check()
```

Value

A character(1) with the health check message.

Source

<https://pip.worldbank.org/api>

See Also

Other poverty and inequality statistics: [pip_aux\(\)](#), [pip_citation\(\)](#), [pip_data\(\)](#), [pip_group\(\)](#), [pip_info\(\)](#), [pip_valid_params\(\)](#), [pip_versions\(\)](#)

Examples

```
pip_health_check()
```

`pip_info`

Return information about the API

Description

Return information about the API

Usage

```
pip_info()
```

Value

A `data.frame()` with the API information.

Source

<https://pip.worldbank.org/api>

See Also

Other poverty and inequality statistics: [pip_aux\(\)](#), [pip_citation\(\)](#), [pip_data\(\)](#), [pip_group\(\)](#), [pip_health_check\(\)](#), [pip_valid_params\(\)](#), [pip_versions\(\)](#)

Examples

```
pip_info()
```

pip_valid_params	<i>Return valid query parameters</i>
------------------	--------------------------------------

Description

Return valid query parameters

Usage

```
pip_valid_params(
  endpoint = c("all", "aux", "pip", "pip-grp", "pip-info", "valid-params"),
  release_version = NULL,
  ppp_version = NULL,
  version = NULL
)
```

Arguments

endpoint	(character(1)) Endpoint for which valid parameters are to be returned. Default "all".
release_version	(NULL character(1)) Version of the data release in YYYYMMDD format. Default NULL.
ppp_version	(NULL character(1) numeric(1)) Version of the data. Default NULL.
version	(NULL character(1)) Version of the data. Default NULL.

Value

A data.frame() with the valid parameters.

Source

<https://pip.worldbank.org/api>

See Also

Other poverty and inequality statistics: [pip_aux\(\)](#), [pip_citation\(\)](#), [pip_data\(\)](#), [pip_group\(\)](#), [pip_health_check\(\)](#), [pip_info\(\)](#), [pip_versions\(\)](#)

Examples

```
params <- pip_valid_params()
head(params)
```

pip_versions	<i>Return the available data versions</i>
--------------	---

Description

Return the available data versions

Usage

```
pip_versions()
```

Value

A `data.frame()` with the available versions.

Source

<https://pip.worldbank.org/api>

See Also

Other poverty and inequality statistics: [pip_aux\(\)](#), [pip_citation\(\)](#), [pip_data\(\)](#), [pip_group\(\)](#), [pip_health_check\(\)](#), [pip_info\(\)](#), [pip_valid_params\(\)](#)

Examples

```
vers <- pip_versions()
head(vers)
```

wb_country	<i>World Bank country data</i>
------------	--------------------------------

Description

List all countries supported by the World Bank API.

Usage

```
wb_country(country = NULL, lang = "en")
```

Arguments

country	(NULL character()) Country to query. Default NULL. If NULL, all countries are returned.
lang	(character(1)) Language to query. Default "en".

Value

A data.frame() with the available countries. The columns are:

country_id	The country ID.
country_code	The country code.
country_name	The country name.
region_id	The region ID.
region_code	The region code.
region_value	The region value.
admin_region_id	The admin region ID.
admin_region_code	The admin region code.
admin_region_value	The admin region value.
income_level_id	The income level ID.
income_level_code	The income level code.
income_level_value	The income level value.
lending_type_id	The lending type ID.
lending_type_code	The lending type code.
lending_type_value	The lending type value.
capital_city	The capital city.
longitude	The longitude.
latitude	The latitude.

Source

<https://api.worldbank.org/v2/country>

See Also

Other indicators data: [wb_income_level\(\)](#), [wb_indicator\(\)](#), [wb_language\(\)](#), [wb_lending_type\(\)](#), [wb_region\(\)](#), [wb_source\(\)](#), [wb_topic\(\)](#)

Examples

```
country <- wb_country()
head(country)
```

wb_data
World Bank country indicator data

Description

List all country indicators supported by the World Bank API.

Usage

```
wb_data(
  indicator = "NY.GDP.MKTP.CD",
  country = NULL,
  lang = "en",
  start_date = NULL,
  end_date = NULL
)
```

```
wb_country_indicator(
  indicator = "NY.GDP.MKTP.CD",
  country = NULL,
  lang = "en",
  start_date = NULL,
  end_date = NULL
)
```

Arguments

indicator	(character()) Indicators to query.
country	(NULL character()) Countries to query. Default NULL. If NULL, all countries are returned.
lang	(character(1)) Language to query. Default "en".
start_date	(NULL character(1) integer(1)) Start date to query. Default NULL. Supported formats: • YYYY for yearly data (e.g. 2020 or "2020") • YYYYQ[1-4] for quarterly data (e.g. "2020Q1") • YYYYM[1-12] for monthly data (e.g. "2020M02")
end_date	(NULL character(1) integer(1)) End date to query, in the same format as start_date. Default NULL.

Value

A `data.frame()` with the available country indicators. The columns are:

<code>date</code>	The date
<code>indicator_id</code>	The indicator ID.
<code>indicator_name</code>	The indicator name.
<code>country_id</code>	The country ID.
<code>country_name</code>	The country name.
<code>country_code</code>	The country code.
<code>value</code>	The indicator value.
<code>unit</code>	The indicator unit.
<code>obs_status</code>	The observation status.
<code>decimal</code>	The decimal.

Source

<https://api.worldbank.org/v2/country/{country}/indicator/{indicator}>

Examples

```
# single indicator for a single country (all available years)
ind <- wb_data("NY.GDP.MKTP.CD", "US")
head(ind)

# multiple indicators for multiple countries (2015-2023)
ind <- wb_data(
  indicator = c("NY.GDP.MKTP.CD", "FP.CPI.TOTL.ZG"),
  country = c("US", "DE", "FR", "CH", "JP"),
  start_date = 2015, end_date = 2023
)
head(ind)
```

wb_income_level	<i>World Bank income level data</i>
-----------------	-------------------------------------

Description

List all income levels supported by the World Bank API.

Usage

```
wb_income_level(income = NULL, lang = "en")
```

Arguments

income	(NULL character()) Income level to query. Default NULL. If NULL, all levels are returned.
lang	(character(1)) Language to query. Default "en".

Value

A data.frame() with the available income levels. The columns are:

id	The income level ID.
iso2code	The ISO 2 code of the income level.
value	The income level value.

Source

<https://api.worldbank.org/v2/incomeLevels>

See Also

Other indicators data: [wb_country\(\)](#), [wb_indicator\(\)](#), [wb_language\(\)](#), [wb_lending_type\(\)](#), [wb_region\(\)](#), [wb_source\(\)](#), [wb_topic\(\)](#)

Examples

```
wb_income_level()
```

wb_indicator	<i>World Bank indicator data</i>
--------------	----------------------------------

Description

List all indicators supported by the World Bank API.

Usage

```
wb_indicator(indicator = NULL, lang = "en")
```

Arguments

indicator	(NULL character(1)) Indicator to query. Default NULL. If NULL, all indicators are returned.
lang	(character(1)) Language to query. Default "en".

Value

A data.frame() with the available indicators. The columns are:

id	The indicator ID.
name	The indicator name.
unit	The indicator unit.
source_id	The source ID.
source_value	The source value.
source_note	The source note.
source_organization	The source organization.
topic_id	The topic ID.
topic_value	The topic value.

Source

<https://api.worldbank.org/v2/indicator>

See Also

Other indicators data: [wb_country\(\)](#), [wb_income_level\(\)](#), [wb_language\(\)](#), [wb_lending_type\(\)](#), [wb_region\(\)](#), [wb_source\(\)](#), [wb_topic\(\)](#)

Examples

```
wb_indicator("NY.GDP.MKTP.CD")
```

wb_language	<i>World Bank available languages</i>
-------------	---------------------------------------

Description

List all languages supported by the World Bank API.

Usage

```
wb_language()
```

Value

A data.frame() with the available languages. The columns are:

code	The language code.
name	The language name.
native_form	The native form of the language name.

Source

<https://api.worldbank.org/v2/languages>

See Also

Other indicators data: [wb_country\(\)](#), [wb_income_level\(\)](#), [wb_indicator\(\)](#), [wb_lending_type\(\)](#), [wb_region\(\)](#), [wb_source\(\)](#), [wb_topic\(\)](#)

Examples

`wb_language()`

wb_lending_type	<i>World Bank lending type data</i>
-----------------	-------------------------------------

Description

List all lending types supported by the World Bank API.

Usage

`wb_lending_type(type = NULL, lang = "en")`

Arguments

- `type` (NULL | character())
lending type to query. Default NULL. If NULL, all types are returned.
- `lang` (character(1))
Language to query. Default "en".

Value

A `data.frame()` with the available lending types. The columns are:

- `id` The lending type ID.
- `iso2code` The ISO 2 code of the lending type.
- `value` The lending type value.

Source

<https://api.worldbank.org/v2/lendingTypes>

See Also

Other indicators data: [wb_country\(\)](#), [wb_income_level\(\)](#), [wb_indicator\(\)](#), [wb_language\(\)](#), [wb_region\(\)](#), [wb_source\(\)](#), [wb_topic\(\)](#)

Examples

```
wb_lending_type()
```

wb_region	<i>World Bank region data</i>
-----------	-------------------------------

Description

List all regions supported by the World Bank API.

Usage

```
wb_region(region = NULL, lang = "en")
```

Arguments

region	(NULL character()) Region to query. Default NULL. If NULL, all regions are returned
lang	(character(1)) Language to query. Default "en".

Value

A `data.frame()` with the available regions. The columns are:

id	The region ID.
code	The region code.
iso2code	The ISO 2 code of the region.
name	The region name.

Source

<https://api.worldbank.org/v2/region>

See Also

Other indicators data: [wb_country\(\)](#), [wb_income_level\(\)](#), [wb_indicator\(\)](#), [wb_language\(\)](#), [wb_lending_type\(\)](#), [wb_source\(\)](#), [wb_topic\(\)](#)

Examples

```
region <- wb_region()
head(region)
```

wb_source	<i>World Bank source data</i>
-----------	-------------------------------

Description

List all sources supported by the World Bank API.

Usage

```
wb_source(source = NULL, lang = "en")
```

Arguments

source	(NULL character()) Source to query. Default NULL. If NULL, all sources are returned.
lang	(character(1)) Language to query. Default "en".

Value

A data.frame() with the available sources. The columns are:

id	The source ID.
last_updated	The date the source was last updated.
name	The source name.
code	The source code.
description	The source description.
url	The source URL.
data_availability	Whether the source has data available.
metadata_availability	Whether the source has metadata available.
concepts	The concepts associated with the source.

Source

<https://api.worldbank.org/v2/sources>

See Also

Other indicators data: `wb_country()`, `wb_income_level()`, `wb_indicator()`, `wb_language()`, `wb_lending_type()`, `wb_region()`, `wb_topic()`

Examples

```
src <- wb_source()
head(src)
```

wb_topic	<i>World Bank topic data</i>
----------	------------------------------

Description

List all topics supported by the World Bank API.

Usage

```
wb_topic(topic = NULL, lang = "en")
```

Arguments

topic	(NULL character()) Topic to query. Default NULL. If NULL, all topics are returned.
lang	(character(1)) Language to query. Default "en".

Value

A `data.frame()` with the available topics. The columns are:

id	The topic ID.
value	The topic value.
source_note	The source note.

Source

<https://api.worldbank.org/v2/topics>

See Also

Other indicators data: `wb_country()`, `wb_income_level()`, `wb_indicator()`, `wb_language()`, `wb_lending_type()`, `wb_region()`, `wb_source()`

Examples

```
topic <- wb_topic()  
head(topic)
```

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