

Package ‘worldbank’

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Title Client for the 'World Bank' APIs

Version 0.11.0

Description Download and search data from the 'World Bank' APIs, including the 'Indicators' API, the 'Poverty and Inequality Platform (PIP)' API, the 'Finances One' API, the 'Projects' API, and the 'Documents & Reports' API. See <https://datahelpdesk.worldbank.org/knowledgebase/articles/889386-developer-information-overview> for further details.

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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_clear() clears all cached responses.

Usage

- wb_cache_dir()
- wb_cache_clear()
- wb_cache_delete()

Details

The cache is only used when enabled with `options(worldbank.cache = TRUE)`.

Each API's caching headers decide whether and for how long a cached response is reused, so the cache helps more with some APIs than others. Indicators API responses are reused for up to a day. Projects and Documents & Reports API responses are checked with the API on every call, which only saves downloading them again. Finances One and PIP API responses are never cached.

Cached responses older than 1 day are deleted. Change this with `options(worldbank.cache_max_age = seconds)`. A higher value doesn't make responses be reused for longer than the API allows.

Value

`wb_cache_dir()` returns a string with the path to the cache directory.

`wb_cache_clear()` is called for its side effect of clearing the cached responses and returns `NULL` invisibly.

Examples

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

# view cache location
wb_cache_dir()

# clear the cache
wb_cache_clear()

## End(Not run)
```

fone_dataset

Return Finances One API data

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)) The ID of the associated resource.
...	(any) Additional arguments passed to the request.
limit	(NULL integer(1)) The maximum number of rows to return. Default 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) numeric(1)) Version of the data release in YYYYMMDD format. Default NULL.
ppp_version	(NULL character(1) numeric(1)) Version of the data in YYYY format. Default NULL.
version	(NULL character(1)) Version of the data. Default NULL.

Value

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

Source

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

See Also

Other poverty and inequality statistics: [pip_citation\(\)](#), [pip_cp\(\)](#), [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) numeric(1)) Version of the data release in YYYYMMDD format. Default NULL.
ppp_version	(NULL character(1) numeric(1)) Version of the data in YYYY format. 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_cp\(\)](#), [pip_data\(\)](#), [pip_group\(\)](#), [pip_health_check\(\)](#), [pip_info\(\)](#), [pip_valid_params\(\)](#), [pip_versions\(\)](#)

Examples

```
pip_citation()
```

pip_cp	<i>Return country profile data</i>
--------	------------------------------------

Description

Return country profile data

Usage

```
pip_cp(
  country = NULL,
  povline = NULL,
  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.
povline	(NULL numeric(1)) Poverty line to be used to compute poverty measures, between 0 and 2700. Poverty lines are only accepted up to 3 decimals. Default NULL, which uses the international poverty line of the requested ppp_version, e.g. 3 for 2021 PPPs and 2.15 for 2017 PPPs.
release_version	(NULL character(1) numeric(1)) Version of the data release in YYYYMMDD format. Default NULL.
ppp_version	(NULL character(1) numeric(1)) Version of the data in YYYY format. Default NULL.
version	(NULL character(1)) Version of the data. Default NULL.

Value

A `data.frame()` with country profile statistics including headcount ratios, inequality measures, and demographic breakdowns.

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\(\)](#), [pip_versions\(\)](#)

Examples

```
cp <- pip_cp("ZAF")
head(cp)
```

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 = NULL,
  popshare = NULL,
  fill_gaps = FALSE,
  nowcast = 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, or "all" for every available year or "MRV" for the most recent year. Default NULL, which returns every available year.
povline	(NULL numeric(1)) Poverty line to be used to compute poverty measures, between 0 and 2700. Poverty lines are only accepted up to 3 decimals. Default NULL, which uses the international poverty line of the requested ppp_version, e.g. 3 for 2021 PPPs and 2.15 for 2017 PPPs.

popshare	(NULL numeric(1)) Proportion of the population living below the poverty line, between 0 and 1. Takes precedence over povline: if both are supplied, the poverty line is derived from popshare. Default NULL.
fill_gaps	(logical(1)) Whether to fill gaps in the data. Default FALSE.
nowcast	(logical(1)) Whether to include nowcast estimates. Requires fill_gaps = TRUE. 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) numeric(1)) Version of the data release in YYYYMMDD format. Default NULL.
ppp_version	(NULL character(1) numeric(1)) Version of the data in YYYY format. 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_cp\(\)](#), [pip_group\(\)](#), [pip_health_check\(\)](#), [pip_info\(\)](#), [pip_valid_params\(\)](#), [pip_versions\(\)](#)

Examples

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

pip_group	<i>Return aggregation of PIP statistics</i>
-----------	---

Description

Return aggregation of PIP statistics

Usage

```
pip_group(
  country = NULL,
  year = NULL,
  povline = NULL,
  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

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, or "all" for every available year or "MRV" for the most recent year. Default NULL, which returns every available year.
povline	(NULL numeric(1)) Poverty line to be used to compute poverty measures, between 0 and 2700. Poverty lines are only accepted up to 3 decimals. Default NULL, which uses the international poverty line of the requested ppp_version, e.g. 3 for 2021 PPPs and 2.15 for 2017 PPPs.
popshare	(NULL numeric(1)) Proportion of the population living below the poverty line, between 0 and 1. Takes precedence over povline: if both are supplied, the poverty line is derived from popshare. Default NULL.
group_by	(character(1)) Aggregate results by pre-defined sub-groups. Default "wb".
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) | numeric(1))
 Version of the data release in YYYYMMDD format. Default NULL.
ppp_version (NULL | character(1) | numeric(1))
 Version of the data in YYYY format. 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_cp\(\)](#), [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_cp\(\)](#), [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 `list()` with the API information.

Source

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

See Also

Other poverty and inequality statistics: [pip_aux\(\)](#), [pip_citation\(\)](#), [pip_cp\(\)](#), [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) numeric(1)) Version of the data release in YYYYMMDD format. Default NULL.
ppp_version	(NULL character(1) numeric(1)) Version of the data in YYYY format. 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_cp\(\)](#), [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_cp\(\)](#), [pip_data\(\)](#), [pip_group\(\)](#), [pip_health_check\(\)](#), [pip_info\(\)](#), [pip_valid_params\(\)](#)

Examples

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

wb_bulk	<i>World Bank WDI bulk download</i>
---------	-------------------------------------

Description

Download the entire World Development Indicators dataset as a single zip and return its contents as a list of data frames. Useful for full-dataset analyses where paginating through [wb_data\(\)](#) would be slow, and for accessing footnote and series-time metadata that the API does not expose.

Usage

```
wb_bulk(timeout = 600L)
```

Arguments

timeout (integer(1))
Maximum download time in seconds. Default 600.

Details

The download is roughly 280 MB compressed and may take a minute or more.

Value

A named list() of data.frame()s:

- data: indicator values in long format with columns country_name, country_code, indicator_name, indicator_code, year, value.
- country: country metadata.
- series: series (indicator) metadata.
- country_series: country-series-specific notes.
- series_time: series-year-specific notes.
- footnote: footnotes per country, series, and year.

Source

https://databankfiles.worldbank.org/public/ddpext_download/WDI_CSV.zip

See Also

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

Examples

```
## Not run:
wdi <- wb_bulk()
head(wdi$data)

## End(Not run)
```

wb_country

World Bank country data

Description

List all countries supported by the World Bank API.

Usage

```
wb_country(
  country = NULL,
  lang = "en",
  region = NULL,
  income_level = NULL,
  lending_type = NULL
)
```

Arguments

country	(NULL character()) Country to query. Default NULL. If NULL, all countries are returned.
lang	(character(1)) Language to query. Default "en".
region	(NULL character()) Region codes to filter by, as listed in the code column of wb_region() . Default NULL.
income_level	(NULL character()) Income level IDs to filter by, as listed by wb_income_level() . Default NULL.
lending_type	(NULL character()) Lending type IDs to filter by, as listed by wb_lending_type() . Default NULL.

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_bulk\(\)](#), [wb_data\(\)](#), [wb_income_level\(\)](#), [wb_indicator\(\)](#), [wb_language\(\)](#), [wb_lending_type\(\)](#), [wb_region\(\)](#), [wb_search\(\)](#), [wb_source\(\)](#), [wb_topic\(\)](#)

Examples

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

# low income countries in Sub-Saharan Africa
wb_country(region = "SSF", income_level = "LIC")
```

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,
  mrv = NULL,
  mrnev = NULL,
  gapfill = FALSE,
  footnote = FALSE,
  source = NULL
)

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

```

    mrv = NULL,
    mrnev = NULL,
    gapfill = FALSE,
    footnote = FALSE,
    source = 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.
mrsv	(NULL integer(1)) Most recent values to return. An alternative to start_date/end_date. Default NULL.
mrnev	(NULL integer(1)) Most recent non-empty values to return for each country. Unlike mrsv, which returns the same most recent dates for every country and drops countries without a value for them, the dates can differ between countries. An alternative to start_date/end_date and mrsv. Default NULL.
gapfill	(logical(1)) Whether to fill missing values by carrying forward the last available value. Only used when mrsv is set. Default FALSE.
footnote	(logical(1)) Whether to return the footnotes published alongside the observations, such as uncertainty bounds or the survey a figure was derived from. Default FALSE.
source	(NULL integer(1)) ID of the database to query, as listed by wb_source() . Default NULL, which uses the World Development Indicators for indicators published there. Set this to get an indicator's values from another database, which can differ from those in the World Development Indicators.

Value

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

- date: The date. An integer if all observations are annual, otherwise a character vector.
- indicator_id: The indicator ID.
- indicator_name: The indicator name.
- country_id: The country ID.
- country_name: The country name.
- country_code: The country code.
- value: The indicator value.
- unit: The indicator unit.
- obs_status: The observation status.
- decimal: The decimal.
- footnote: The observation footnote, or NA if there is none. Only present when footnote = TRUE.

Source

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

See Also

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

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)

# latest available poverty rate for each country, even if from different years
ind <- wb_data("SI.POV.DDAY", c("ALB", "BRA", "IND"), mrnev = 1)
ind[c("country_code", "date", "value")]

# include the per-observation footnotes
ind <- wb_data("SI.POV.DDAY", "ALB", footnote = TRUE)
head(ind[c("date", "value", "footnote")])

# GDP as archived in the Africa Development Indicators, which ends in 2011
ind <- wb_data("NY.GDP.MKTP.CD", "ZAF", source = 11)
head(ind)
```

wb_document

*World Bank document data***Description**

Search the World Bank Documents & Reports archive from the Documents & Reports API.

Usage

```
wb_document(
  search = NULL,
  country = NULL,
  type = NULL,
  project = NULL,
  start_date = NULL,
  end_date = NULL,
  id = NULL,
  limit = NULL
)
```

Arguments

search	(NULL character(1)) Free-text search term. Default NULL.
country	(NULL character()) Two-character World Bank country code(s) to filter by, e.g. "BR" or c("BR", "IN"). Matching is case insensitive, and documents for any of the given codes are returned. Default NULL.
type	(NULL character()) Document type(s) to filter by, e.g. "Report" or "Project Appraisal Document". Documents of any of the given types are returned. Default NULL.
project	(NULL character()) Project ID(s) to filter by, e.g. "P180429". Documents for any of the given projects are returned. Default NULL.
start_date	(NULL character(1)) Document start date in "YYYY-MM-DD" format. Default NULL.
end_date	(NULL character(1)) Document end date in "YYYY-MM-DD" format. Default NULL.
id	(NULL character()) Document ID(s) to filter by, as returned in the id column. Default NULL.
limit	(NULL integer(1)) The maximum number of documents to return. Default NULL. If NULL, all matching documents are returned, which can take many requests for broad queries.

Value

A `data.frame()` with World Bank document data. Since a document can have several types, countries, regions, and projects, `type`, `major_type`, `country_code`, `country`, `region`, and `project_id` hold all of them separated by `;`, which never occurs within a value. Use `strsplit(x, ";")` to split them. The columns are:

- `id`: The document ID.
- `title`: The document title.
- `type`: The document types.
- `major_type`: The major document types.
- `country_code`: The World Bank country codes.
- `country`: The country names. They are not in the same order as `country_code`, and a code can have more than one name, so the two can't be matched by position.
- `region`: The administrative region names.
- `language`: The document language.
- `date`: The document date.
- `report_number`: The report number.
- `project_id`: The IDs of the associated projects, or NA if there are none.
- `url`: The document URL.
- `pdf_url`: The PDF URL.
- `abstract`: The abstract.

Source

<https://search.worldbank.org/api/v3/wds>

Examples

```
# project appraisal documents for Brazil published in 2024
wb_document(
  country = "BR",
  type = "Project Appraisal Document",
  start_date = "2024-01-01",
  end_date = "2024-12-31"
)

# all documents belonging to a project
wb_document(project = "P180429")

# the first 100 documents mentioning climate
docs <- wb_document(search = "climate", limit = 100)

# the ones covering more than one country
docs[grepl(";", docs$country_code), c("title", "country_code")]
```

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_bulk\(\)](#), [wb_country\(\)](#), [wb_data\(\)](#), [wb_indicator\(\)](#), [wb_language\(\)](#), [wb_lending_type\(\)](#), [wb_region\(\)](#), [wb_search\(\)](#), [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", source = NULL)
```

Arguments

indicator	(NULL character(1)) Indicator to query. Default NULL. If NULL, all indicators are returned.
lang	(character(1)) Language to query. Default "en".
source	(NULL integer(1)) ID of the source to query, as listed by wb_source() . Default NULL, which uses the API default.

Value

A `data.frame()` with the available indicators. Since an indicator can have several topics, `topic_id` and `topic_value` hold all of them separated by `;`, which never occurs within a value, or NA if there are none. Use `strsplit(x, ";")` to split them, or a pattern such as `"(^|;)Health(;$)"` to match a single topic exactly. 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 IDs, as listed by [wb_topic\(\)](#).
- `topic_value`: The topic names, in the same order as `topic_id`.

Source

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

See Also

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

Examples

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

# an indicator can have several topics, separated by ` `
ind <- wb_indicator("SE.ENR.PRSC.FM.ZS")
ind[c("topic_id", "topic_value")]
strsplit(ind$topic_value, ";")
```

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_bulk\(\)](#), [wb_country\(\)](#), [wb_data\(\)](#), [wb_income_level\(\)](#), [wb_indicator\(\)](#), [wb_lending_type\(\)](#), [wb_region\(\)](#), [wb_search\(\)](#), [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_bulk\(\)](#), [wb_country\(\)](#), [wb_data\(\)](#), [wb_income_level\(\)](#), [wb_indicator\(\)](#), [wb_language\(\)](#), [wb_region\(\)](#), [wb_search\(\)](#), [wb_source\(\)](#), [wb_topic\(\)](#)

Examples

```
wb_lending_type()
```

wb_project

*World Bank project data***Description**

Query World Bank project data from the Projects API.

Usage

```
wb_project(
  id = NULL,
  country = NULL,
  status = NULL,
  region = NULL,
  search = NULL,
  start_date = NULL,
  end_date = NULL,
  limit = NULL
)
```

Arguments

id	(NULL character()) Project ID(s) to query, e.g. "P163868" or c("P163868", "P180429"). Default NULL. If provided, other filters are ignored.
country	(NULL character()) Two-character World Bank country code(s) to filter by, e.g. "BR" or c("BR", "IN"). Regional aggregates such as "1W" (World) or "3A" (Africa) are also accepted. Matching is case insensitive, and projects for any of the given codes are returned. Default NULL.
status	(NULL character()) Project status(es) to filter by, each one of "active", "closed", "dropped", or "pipeline". Projects with any of the given statuses are returned. Default NULL.
region	(NULL character()) Region name(s) to filter by, e.g. "South Asia". Matching is case insensitive and by substring, so "Africa" also matches "Eastern and Southern Africa" and "Middle East and North Africa". Projects matching any of the given names are returned. Default NULL.
search	(NULL character(1)) Free-text search term. Default NULL.
start_date	(NULL character(1)) Board approval start date in "YYYY-MM-DD" format. Default NULL.
end_date	(NULL character(1)) Board approval end date in "YYYY-MM-DD" format. Default NULL.

limit (NULL | integer(1))
 The maximum number of projects to return. Default NULL. If NULL, all matching projects are returned, which can take many requests for broad queries. Projects are returned in descending order of id, so the most recently created projects come first.

Value

A data.frame() with World Bank project data. The columns are:

- id: The project ID.
- project_name: The project name.
- status: The project status.
- approval_date: The board approval date.
- closing_date: The closing date.
- country_code: The country code, or a regional code such as "3A" for multi-country projects.
- country: The country name.
- region: The region name.
- total_commitment: The total commitment amount in millions USD.
- ibrd_commitment: The IBRD commitment amount in millions USD.
- ida_commitment: The IDA commitment amount in millions USD.
- lending_instrument: The lending instrument type.
- borrower: The borrower name.
- implementing_agency: The implementing agency name.
- url: The project URL.

Source

<https://search.worldbank.org/api/v2/projects>

Examples

```
# active projects in Brazil related to education
wb_project(country = "BR", status = "active", search = "education")

# active or pipeline projects across two countries
wb_project(country = c("BR", "IN"), status = c("active", "pipeline"))

# look up specific projects
wb_project(id = c("P163868", "P180429"))

# the first 100 projects mentioning climate
wb_project(search = "climate", limit = 100)
```

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_bulk\(\)](#), [wb_country\(\)](#), [wb_data\(\)](#), [wb_income_level\(\)](#), [wb_indicator\(\)](#), [wb_language\(\)](#), [wb_lending_type\(\)](#), [wb_search\(\)](#), [wb_source\(\)](#), [wb_topic\(\)](#)

Examples

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

wb_search	<i>Search World Bank indicators</i>
-----------	-------------------------------------

Description

Search the indicator catalog returned by [wb_indicator\(\)](#) for a regular expression pattern across one or more text fields. By default the match is case insensitive.

Usage

```
wb_search(
  pattern,
  fields = c("id", "name", "source_note"),
  catalog = NULL,
  lang = "en",
  ignore.case = TRUE,
  fixed = FALSE,
  source = NULL,
  ...
)
```

Arguments

pattern	(character(1)) Regular expression to match.
fields	(character()) Columns of the indicator catalog to search. Default <code>c("id", "name", "source_note")</code> .
catalog	(NULL data.frame()) Optional pre-fetched indicator catalog. If NULL (default), wb_indicator() is called.
lang	(character(1)) Language to query. Only used when catalog is NULL. Default "en".
ignore.case	(logical(1)) Whether the match should be case insensitive. Default TRUE.
fixed	(logical(1)) Whether to match pattern as a literal string. See grepl() for details. Default FALSE.
source	(NULL integer(1)) ID of the source to query, as listed by wb_source() . Only used when catalog is NULL. Default NULL, which uses the API default.
...	(any) Additional arguments passed to grepl() .

Value

A `data.frame()` with the matching rows of the indicator catalog.

Source

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

See Also

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

Examples

```
# search for indicators related to GDP
wb_search("GDP")

# restrict the search to the indicator name
wb_search("unemployment", fields = "name")

# search the topics associated with each indicator
wb_search("Climate Change", fields = "topic_value")

# literal match
wb_search("(% of GDP)", fixed = TRUE)
```

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_bulk\(\)](#), [wb_country\(\)](#), [wb_data\(\)](#), [wb_income_level\(\)](#), [wb_indicator\(\)](#), [wb_language\(\)](#), [wb_lending_type\(\)](#), [wb_region\(\)](#), [wb_search\(\)](#), [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_bulk\(\)](#), [wb_country\(\)](#), [wb_data\(\)](#), [wb_income_level\(\)](#), [wb_indicator\(\)](#), [wb_language\(\)](#), [wb_lending_type\(\)](#), [wb_region\(\)](#), [wb_search\(\)](#), [wb_source\(\)](#)

Examples

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

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