wb

Download Data from the World Bank API

Description
This function downloads the requested information using the World Bank API

Usage

```r
wb(
  country = "all",
  indicator,
  startdate,
  enddate,
  mrv,
  return_wide = FALSE,
  gapfill,
  freq,
  cache,
  lang = c("en", "es", "fr", "ar", "zh"),
  removeNA = TRUE,
  POSIXct = FALSE,
  include_dec = FALSE,
  include_unit = FALSE,
  include_obsStatus = FALSE,
  include_lastUpdated = FALSE
)
```
Arguments

country Character vector of country or region codes. Default value is special code of all. Other permissible values are codes in the following fields from the \texttt{wb\_cachelist} country data frame. \texttt{iso3c}, \texttt{iso2c}, \texttt{regionID}, \texttt{adminID}, and \texttt{incomeID}. Additional special values include aggregates, which returns only aggregates, and \texttt{countries\_only}, which returns all countries without aggregates.

indicator Character vector of indicator codes. These codes correspond to the \texttt{indicatorID} column from the indicator data frame of \texttt{wbcache} or \texttt{wb\_cachelist}, or the result of \texttt{wbindicators}.

startdate Numeric or character. If numeric it must be in \%Y form (i.e. four digit year). For data at the subannual granularity the API supports a format as follows: for monthly data, "2016M01" and for quarterly data, "2016Q1". This also accepts a special value of "YTD", useful for more frequently updated subannual indicators.

enddate Numeric or character. If numeric it must be in \%Y form (i.e. four digit year). For data at the subannual granularity the API supports a format as follows: for monthly data, "2016M01" and for quarterly data, "2016Q1".

\texttt{mrv} Numeric. The number of Most Recent Values to return. A replacement of startdate and enddate, this number represents the number of observations you which to return starting from the most recent date of collection. Useful in conjuction with \texttt{freq}.

\texttt{return\_wide} Logical. If TRUE data is returned in a wide format instead of long, with a column named for each \texttt{indicatorID}. To necessitate this transformation, the \texttt{indicator} column, that provides the human readable description is dropped. This field is available through from the indicator data frame of \texttt{wbcache} or \texttt{wb\_cachelist}, or the result of \texttt{wbindicators}. Default is FALSE.

gapfill Logical. Works with \texttt{mrv}. If TRUE fills values, if not available, by back tracking to the next available period (max number of periods back tracked will be limited by \texttt{mrv} number).

freq Character String. For fetching quarterly ("Q"), monthly("M") or yearly ("Y") values. Currently works along with \texttt{mrv}. Useful for querying high frequency data.

cache List of data frames returned from \texttt{wbcache}. If omitted, \texttt{wb\_cachelist} is used

\texttt{lang} Language in which to return the results. If \texttt{lang} is unspecified, english is the default.

\texttt{removeNA} if TRUE, remove any blank or NA observations that are returned. if FALSE, no blank or NA values are removed from the return.

\texttt{POSIXct} if TRUE, additional columns \texttt{date\_ct} and \texttt{granularity} are added. \texttt{date\_ct} converts the default date into a \texttt{POSIXct}. \texttt{granularity} denotes the time resolution that the date represents. Useful for subannual data and mixing subannual with annual data. If FALSE, these fields are not added.

\texttt{include\_dec} if TRUE, the column \texttt{decimal} is not removed from the return. if FALSE, this column is removed.
include_unit if TRUE, the column unit is not removed from the return. if FALSE, this column is removed
include_obsStatus if TRUE, the column obsStatus is not removed from the return. if FALSE, this column is removed
include_lastUpdated if TRUE, the column lastUpdated is not removed from the return. if FALSE, this column is removed. If TRUE and POSIXct = TRUE then column will be of class Date

Value
Data frame with all available requested data.

Note
Not all data returns have support for languages other than English. If the specific return does not support your requested language by default it will return NA. For an enumeration of supported languages by data source please see wbdatacatalog. The options for lang are:

- en: English
- es: Spanish
- fr: French
- ar: Arabic
- zh: Mandarin

The POSIXct parameter requires the use of lubridate (>= 1.5.0). All dates are rounded down to the floor. For example a value for the year 2016 would have a POSIXct date of 2016-01-01. If this package is not available and the POSIXct parameter is set to TRUE, the parameter is ignored and a warning is produced.

The include_dec, include_unit, and include_obsStatus are defaulted to FALSE because as of writing, all returns have a value of 0, NA, and NA, respectively. These columns might be used in the future by the API, therefore the option to include the column is available.

The include_lastUpdated is defaulted to FALSE as well to limit the

If there is no data available that matches the request parameters, an empty data frame is returned along with a warning. This design is for easy aggregation of multiple calls.

Examples

# GDP at market prices (current US$) for all available countries and regions
wb(indicator = "NY.GDP.MKTP.CD", startdate = 2000, enddate = 2016)

# GDP and Population in long format for the most recent 20 observations
wb(indicator = c("SP.POP.TOTL","NY.GDP.MKTP.CD"), mrv = 20)

# GDP and Population in wide format for the most recent 20 observations
wb(indicator = c("SP.POP.TOTL","NY.GDP.MKTP.CD"), mrv = 20, return_wide = TRUE)
# query using regionID or incomeID
# High Income Countries and Sub-Saharan Africa (all income levels)
wb(country = c("HIC", "SSF"), indicator = "NY.GDP.MKTP.CD", startdate = 1985, enddate = 1985)

# if you do not know when the latest time an indicator is available mrv can help
wb(country = c("IN"), indicator = 'EG.ELC.ACCS.ZS', mrv = 1)

# increase the mrv value to increase the number of maximum number of returns
wb(country = c("IN"), indicator = 'EG.ELC.ACCS.ZS', mrv = 35)

# GDP at market prices (current US$) for only available countries
wb(country = "countries_only", indicator = "NY.GDP.MKTP.CD", startdate = 2000, enddate = 2016)

# GDP at market prices (current US$) for only available aggregate regions
wb(country = "aggregates", indicator = "NY.GDP.MKTP.CD", startdate = 2000, enddate = 2016)

# if you want to "fill-in" the values in between actual observations use gapfill = TRUE
# this highlights a very important difference.
# all other parameters are the same as above, except gapfill = TRUE
# and the results are very different
wb(country = c("IN"), indicator = 'EG.ELC.ACCS.ZS', mrv = 35, gapfill = TRUE)

# if you want the most recent values within a certain time frame
wb(country = c("US"), indicator = 'SI.DST.04TH.20', startdate = 1970, enddate = 2000, mrv = 2)

# without the freq parameter the default temporal granularity search is yearly
# should return the 12 most recent years of data
wb(country = c("CHN", "IND"), indicator = "DPANUSSPF", mrv = 12)

# if another frequency is available for that indicator it can be accessed using the freq parameter
# should return the 12 most recent months of data
wb(country = c("CHN", "IND"), indicator = "DPANUSSPF", mrv = 12, freq = "M")

---

**wbcache**

*Download an updated list of country, indicator, and source information*

**Description**

Download an updated list of information regarding countries, indicators, sources, data catalog, indicator topics, lending types, and income levels from the World Bank API

**Usage**

```r
wbcache(lang = c("en", "es", "fr", "ar", "zh"))
```

**Arguments**

- `lang` Language in which to return the results. If `lang` is unspecified, English is the default.
wbcountries

Value

A list containing the following items:

- countries: A data frame. The result of calling `wbcountries`
- indicators: A data frame. The result of calling `wbindicators`
- sources: A data frame. The result of calling `wbsources`
- datacatalog: A data frame. The result of calling `wbdatacatalog`
- topics: A data frame. The result of calling `wbtopics`
- income: A data frame. The result of calling `wbincome`
- lending: A data frame. The result of calling `wblending`

Note

Not all data returns have support for languages other than english. If the specific return does not support your requested language by default it will return `NA`. For an enumeration of supported languages by data source please see `wbdatacatalog`. The options for `lang` are:

- `en`: English
- `es`: Spanish
- `fr`: French
- `ar`: Arabic
- `zh`: Mandarin

List item `datacatalog` will always return in english, as the API does not support any other languages for that information.

Saving this return and using it has the `cache` parameter in `wb` and `wbsearch` replaces the default cached version `wb_cachelist` that comes with the package itself.

---

**wbcountries**

Download updated country and region information from World Bank API

---

Description

Download updated information on available countries and regions from the World Bank API

Usage

```r
wbcountries(lang = c("en", "es", "fr", "ar", "zh"))
```

Arguments

- `lang` Language in which to return the results. If `lang` is unspecified, english is the default.
**wbdatacatalog**

**Value**

A data frame of available countries and regions with related information

**Note**

Not all data returns have support for languages other than English. If the specific return does not support your requested language by default it will return NA. For an enumeration of supported languages by data source please see `wbdatacatalog`. The options for `lang` are:

- **en**: English
- **es**: Spanish
- **fr**: French
- **ar**: Arabic
- **zh**: Mandarin

**Description**

Download an updated list of the World Bank data catalog from the World Bank API

**Usage**

`wbdatacatalog()`

**Value**

A data frame of the World Bank data catalog with related information

**Note**

This function does not support any languages other than English due to the lack of support from the World Bank API
**wbincome**  
*Download updated income type information from World Bank API*

**Description**

Download updated information on available income types from the World Bank API

**Usage**

```r
wbincome(lang = c("en", "es", "fr", "ar", "zh"))
```

**Arguments**

- `lang` Language in which to return the results. If `lang` is unspecified, english is the default.

**Value**

A data frame of available income types with related information

**Note**

Not all data returns have support for languages other than English. If the specific return does not support your requested language by default it will return NA. For an enumeration of supported languages by data source please see `wbdatacatalog`. The options for `lang` are:

- `en`: English
- `es`: Spanish
- `fr`: French
- `ar`: Arabic
- `zh`: Mandarin

**wbindicators**  
*Download updated indicator information from World Bank API*

**Description**

Download updated information on available indicators from the World Bank API

**Usage**

```r
wbindicators(lang = c("en", "es", "fr", "ar", "zh"))
```
Arguments

   lang  Language in which to return the results. If `lang` is unspecified, English is the default.

Value

   A data frame of available indicators with related information

Note

   Not all data returns have support for languages other than English. If the specific return does not support your requested language by default it will return NA. For an enumeration of supported languages by data source please see `wbdatacatalog`. The options for `lang` are:

   - `en`: English
   - `es`: Spanish
   - `fr`: French
   - `ar`: Arabic
   - `zh`: Mandarin

---

**wblending**

*Download updated lending type information from World Bank API*

**Description**

Download updated information on available lending types from the World Bank API

**Usage**

   wblending(lang = c("en", "es", "fr", "ar", "zh"))

**Arguments**

   lang  Language in which to return the results. If `lang` is unspecified, English is the default.

**Value**

   A data frame of available lending types with related information
Note

Not all data returns have support for languages other than English. If the specific return does not support your requested language by default it will return NA. For an enumeration of supported languages by data source please see wbdatacatalog. The options for lang are:

- **en**: English
- **es**: Spanish
- **fr**: French
- **ar**: Arabic
- **zh**: Mandarin

---

**wbsearch**  
*Search indicator information available through the World Bank API*

### Description

This function allows finds indicators that match a search term and returns a data frame of matching results.

### Usage

```r
wbsearch(
  pattern = "poverty",
  fields = c("indicator", "indicatorDesc"),
  extra = FALSE,
  cache
)
```

### Arguments

- **pattern**: Character string or regular expression to be matched
- **fields**: Character vector of column names through which to search
- **extra**: if FALSE, only the indicator ID and short name are returned, if TRUE, all columns of the cache parameter’s indicator data frame are returned
- **cache**: List of data frames returned from wbcache. If omitted, `wb_cachelist_dep` is used

### Value

Data frame with indicators that match the search pattern.
Examples

```r
wbsearch(pattern = "education")
wbsearch(pattern = "Food and Agriculture Organization", fields = "sourceOrg")
```

# with regular expression operators
# 'poverty' OR 'unemployment' OR 'employment'
```r
wbsearch(pattern = "poverty|unemployment|employment")
```

---

```r
wbsources
```

Download updated data source information from World Bank API

---

Description

Download updated information on available data sources from the World Bank API

Usage

```r
wbsources(lang = c("en", "es", "fr", "ar", "zh"))
```

Arguments

- `lang` Language in which to return the results. If `lang` is unspecified, english is the default.

Value

A data frame of available data sources with related information

Note

Not all data returns have support for languages other than english. If the specific return does not support your requested language by default it will return NA. For an enumeration of supported languages by data source please see `wbdatacatalog`. The options for `lang` are:

- `en`: English
- `es`: Spanish
- `fr`: French
- `ar`: Arabic
- `zh`: Mandarin
wbstats: An R package for searching and downloading data from the World Bank API.

Description

The wbstats package provides structured access to data available from the World Bank API including; support for multiple languages, access to annual, quarterly, and monthly data.

wbtopics

Download updated indicator topic information from World Bank API

Description

Download updated information on available indicator topics from the World Bank API

Usage

wbtopics(lang = c("en", "es", "fr", "ar", "zh"))

Arguments

lang Language in which to return the results. If lang is unspecified, english is the default.

Value

A data frame of available indicator topics with related information

Note

Not all data returns have support for languages other than english. If the specific return does not support your requested language by default it will return NA. For an enumeration of supported languages by data source please see wbdatacatalog. The options for lang are:

- en: English
- es: Spanish
- fr: French
- ar: Arabic
- zh: Mandarin
**Description**

Download an updated list of information regarding countries, indicators, sources, regions, indicator topics, lending types, income levels, and supported languages from the World Bank API.

**Usage**

```
wb_cache(lang)
```

**Arguments**

- `lang` : Language in which to return the results. If `lang` is unspecified, English is the default. For supported languages see `wb_languages()`. Possible values of `lang` are in the `iso2` column. A note of warning, not all data returns have support for languages other than English. If the specific return does not support your requested language by default it will return `NA`.

**Value**

A list containing the following items:

- `countries` : The result of calling `wb_countries()`.
- `indicators` : The result of calling `wb_indicators()`.
- `sources` : The result of calling `wb_sources()`.
- `topics` : The result of calling `wb_topics()`.
- `regions` : The result of calling `wb_regions()`.
- `income_levels` : The result of calling `wb_income_levels()`.
- `lending_types` : The result of calling `wb_lending_types()`.
- `languages` : The result of calling `wb_languages()`.

**Note**

Not all data returns have support for languages other than English. If the specific return does not support your requested language by default it will return `NA`. For an enumeration of supported languages by data source please see `wb_languages()`.

Saving this return and using it has the cache parameter in `wb_data()` and `wb_search()` replaces the default cached version `wb_cachelist` that comes with the package itself.
**wb_cachelist**  
*Cached information from the World Bank API*

**Description**

This data is a cached result of the `wb_cache` function. By default functions `wb_data` and `wb_search` use this data for the cache parameter.

**Usage**

```r
wb_cachelist
```

**Format**

An object of class `list` of length 8.

---

**wb_cachelist_dep**  
*Cached information from the World Bank API*

**Description**

This data is a cached result of the `wb_cache` function. By default functions `wb` and `wbsearch` use this data for the cache parameter.

**Usage**

```r
wb_cachelist_dep
```

**Format**

A list containing 7 data frames:

- `countries`: A data frame. The result of calling `wbcountries`
- `indicators`: A data frame. The result of calling `wbindicators`
- `sources`: A data frame. The result of calling `wbsources`
- `datacatalog`: A data frame. The result of calling `wbdatacatalog`
- `topics`: A data frame. The result of calling `wbttopics`
- `income`: A data frame. The result of calling `wbincome`
- `lending`: A data frame. The result of calling `wblending`
Description

This function downloads the requested information using the World Bank API

Usage

```r
wb_data(
  indicator,
  country = "countries_only",
  start_date,
  end_date,
  return_wide = TRUE,
  mrv,
  mrnev,
  cache,
  freq,
  gapfill = FALSE,
  date_as_class_date = FALSE,
  lang
)
```

Arguments

- `indicator`: Character vector of indicator codes. These codes correspond to the `indicator_id` column from the `indicators` tibble of `wb_cache()`, `wb_cachelist`, or the result of running `wb_indicators()` directly.
- `country`: Character vector of country, region, or special value codes for the locations you want to return data for. Permissible values can be found in the `countries` tibble in `wb_cachelist` or by running `wb_countries()` directly. Specifically, values listed in the following fields: `iso3c`, `iso2c`, `country`, `region`, `admin_region`, `income_level` and all of the `region_*`, `admin_region_*`, `income_level_*`, columns. As well as the following special values:
  - "countries_only" (Default)
  - "regions_only"
  - "admin_regions_only"
  - "income_levels_only"
  - "aggregates_only"
  - "all"
- `start_date`: Numeric or character. If numeric it must be in %Y form (i.e. four digit year). For data at the subannual granularity the API supports a format as follows: for monthly data, "2016M01" and for quarterly data, "2016Q1". This also accepts a special value of "YTD", useful for more frequently updated subannual indicators.
### wb_data

**end_date**

Numeric or character. If numeric it must be in %Y form (i.e. four digit year). For data at the subannual granularity the API supports a format as follows: for monthly data, "2016M01" and for quarterly data, "2016Q1".

**return_wide**

Logical. If TRUE data is returned in a wide format instead of long, with a column named for each indicator_id or if the indicator argument is a named vector, the names() given to the indicator will be the column names. To necessitate this transformation, the indicator column that provides the human readable description is dropped, but provided as a column label. Default is TRUE.

**mrv**

Numeric. The number of Most Recent Values to return. A replacement of start_date and end_date, this number represents the number of observations you which to return starting from the most recent date of collection. This may include missing values. Useful in conjunction with freq.

**mrnev**

Numeric. The number of Most Recent Non Empty Values to return. A replacement of start_date and end_date, similar in behavior as mrv but excludes locations with missing values. Useful in conjunction with freq.

**cache**

List of tibbles returned from wb_cache(). If omitted, wb_cachelist is used.

**freq**

Character String. For fetching quarterly ("Q"), monthly("M") or yearly ("Y") values. Useful for querying high frequency data.

**gapfill**

Logical. If TRUE fills in missing values by carrying forward the last available value until the next available period (max number of periods back tracked will be limited by mrv number). Default is FALSE.

**date_as_class_date**

Logical. If TRUE the date field is returned as class Date, useful when working with non-annual data or data at mixed resolutions. Default is FALSE available value until the next available period (max number of periods back tracked will be limited by mrv number). Default is FALSE.

**lang**

Language in which to return the results. If lang is unspecified, english is the default. For supported languages see wb_languages(). Possible values of lang are in the iso2 column. A note of warning, not all data returns have support for languages other than english. If the specific return does not support your requested language by default it will return NA.

### Details

#### obs_status column:

Indicates the observation status for location, indicator and date combination. For example "F" in the response indicates that the observation status for that data point is "forecast".

### Value

A tibble of all available requested data.

### Examples

```r
# gdp for all countries for all available dates
```
df_gdp <- wb_data("NY.GDP.MKTP.CD")

# Brazilian gdp for all available dates
df_brazil <- wb_data("NY.GDP.MKTP.CD", country = "br")

# Brazilian gdp for 2006
df_brazil_1 <- wb_data("NY.GDP.MKTP.CD", country = "brazil", start_date = 2006)

# Brazilian gdp for 2006-2010
df_brazil_2 <- wb_data("NY.GDP.MKTP.CD", country = "BRA",
                        start_date = 2006, end_date = 2010)

# Population, GDP, Unemployment Rate, Birth Rate (per 1000 people)
my_indicators <- c("SP.POP.TOTL",
                   "NY.GDP.MKTP.CD",
                   "SL.UEM.TOTL.ZS",
                   "SP.DYN.CBRT.IN")

df <- wb_data(my_indicators)

# you pass multiple country ids of different types
# Albania (iso2c), Georgia (iso3c), and Mongolia
my_countries <- c("AL", "Geo", "mongolia")

df <- wb_data(my_indicators, country = my_countries,
              start_date = 2005, end_date = 2007)

# same data as above, but in long format

df_long <- wb_data(my_indicators, country = my_countries,
                    start_date = 2005, end_date = 2007,
                    return_wide = FALSE)

# regional population totals
# regions correspond to the region column in wb_cachelist$countries

df_region <- wb_data("SP.POP.TOTL", country = "regions_only",
                      start_date = 2010, end_date = 2014)

# a specific region

df_world <- wb_data("SP.POP.TOTL", country = "world",
                     start_date = 2010, end_date = 2014)
# if the indicator is part of a named vector the name will be the column name
my_indicators <- c("pop" = "SP.POP.TOTL",
  "gdp" = "NY.GDP.MKTP.CD",
  "unemployment_rate" = "SL.UEM.TOTL.ZS",
  "birth_rate" = "SP.DYN.CBRT.IN")

df_names <- wb_data(my_indicators, country = "world",
  start_date = 2010, end_date = 2014)

# custom names are ignored if returning in long format

df_names_long <- wb_data(my_indicators, country = "world",
  start_date = 2010, end_date = 2014,
  return_wide = FALSE)

# same as above but in Bulgarian
# note that not all indicators have translations for all languages

df_names_long_bg <- wb_data(my_indicators, country = "world",
  start_date = 2010, end_date = 2014,
  return_wide = FALSE, lang = "bg")

---

**wb_end_point_info**

*World Bank Information End Points*

**Description**

These functions are simple wrappers around the various useful API end points that are helpful for finding available data and filtering the data you are interested in when using *wb_data()*

**Usage**

- `wb_countries(lang)`
- `wb_topics(lang)`
- `wb_sources(lang)`
- `wb_regions(lang)`
- `wb_income_levels(lang)`
- `wb_lending_types(lang)`
- `wb_languages()`
**wb_indicators**

Arguments

- `lang`: Language in which to return the results. If `lang` is unspecified, English is the default. For supported languages see `wb_languages()`. Possible values of `lang` are in the `iso2` column. A note of warning, not all data returns have support for languages other than English. If the specific return does not support your requested language by default it will return `NA`.

Value

A tibble of information about the end point

See Also

- `wb_cache()`

---

**wb_indicators**

*Download Available Indicators from the World Bank*

---

Description

This function returns a tibble of indicator IDs and related information that are available for download from the World Bank API.

Usage

```r
wb_indicators(lang, include_archive = FALSE)
```

Arguments

- `lang`: Language in which to return the results. If `lang` is unspecified, English is the default. For supported languages see `wb_languages()`. Possible values of `lang` are in the `iso2` column. A note of warning, not all data returns have support for languages other than English. If the specific return does not support your requested language by default it will return `NA`.

- `include_archive`: logical. If `TRUE` indicators that have been archived by the World Bank will be included in the return. Data for these additional indicators are not available through the standard API and querying them using `wb_data()` will not return data. Default is `FALSE`.

Examples

```r
# can get a new list of available indicators by downloading new cache
fresh_cache <- wb_cache()
fresh_indicators <- fresh_cache$indicators

# or by running the wb_indicators() function directly
fresh_indicators <- wb_indicators()
```
# include archived indicators
# see include_archive parameter description
indicators_with_archive <- wb_indicators(include_archive = TRUE)

---

## wb_search

**Search indicator information available through the World Bank API**

### Description
This function allows finds indicators that match a search term and returns a data frame of matching results.

### Usage

```r
wb_search(
  pattern,
  fields = c("indicator_id", "indicator", "indicator_desc"),
  extra = FALSE,
  cache,
  ignore.case = TRUE,
  ...
)
```

### Arguments

- `pattern`: Character string or regular expression to be matched.
- `fields`: Character vector of column names through which to search.
- `extra`: If FALSE, only the indicator ID and short name are returned, if TRUE, all columns of the cache parameter’s indicators data frame are returned. Default is FALSE.
- `cache`: List of data frames returned from `wb_cache()`. If omitted, `wb_cachelist` is used.
- `ignore.case`: If FALSE, the pattern matching is case sensitive and if TRUE, case is ignored during matching. Default is TRUE.
- `...`: Any additional `grep()` arguments you which to pass.

### Value

A tibble with indicators that match the search pattern.

### Examples

```r
d <- wb_search(pattern = "education")
d <- wb_search(pattern = "Food and Agriculture Organization", fields = "source_org")

# with regular expression operators
# 'poverty' OR 'unemployment' OR 'employment'
```
d <- wb_search(pattern = "poverty|unemployment|employment")

# pass any other grep argument along as well
# everything without 'education'
d <- wb_search(pattern = "education", invert = TRUE)

# contains "gdp" AND "trade"
d <- wb_search("*(?=.*gdp)(?=.*trade).*", perl = TRUE)

# contains "gdp" and NOT "trade"
d <- wb_search("*(?=.*gdp)(?!.*trade).*", perl = TRUE)
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