

Package: **wbids** (via r-universe)

November 19, 2024

Title Seamless Access to World Bank International Debt Statistics (IDS)

Version 0.1.0.9002

Description Access and analyze the World Bank's International Debt Statistics (IDS)

<<https://datacatalog.worldbank.org/search/dataset/0038015>>. IDS provides creditor-debtor relationships between countries, regions, and institutions. 'wbids' enables users to download, process and work with IDS series across multiple geographies, counterparts, and time periods.

License MIT + file LICENSE

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.2

Depends R (>= 4.1)

Imports cli, withr, httr2 (>= 1.0.0), dplyr (>= 1.0.0), purrr (>= 1.0.0), tidyr (>= 1.0.0), rlang (>= 1.0.0)

Suggests curl, jsonlite, tibble, lintr (>= 3.1.2), quarto, readxl (>= 1.0.0), rmarkdown, testthat (>= 3.0.0), languageserver (>= 0.3.16)

Config/testthat/edition 3

URL <https://teal-insights.github.io/r-wbids/>,
<https://github.com/teal-insights/r-wbids/>

BugReports <https://github.com/teal-insights/r-wbids/issues>

VignetteBuilder quarto

Repository <https://teal-insights.r-universe.dev>

RemoteUrl <https://github.com/teal-insights/r-wbids>

RemoteRef HEAD

RemoteSha 171b980f2655bc44bcba240825efe30c53d81924

Contents

ids_bulk	2
ids_bulk_files	3
ids_bulk_series	4
ids_get	4
ids_list_counterparts	6
ids_list_geographies	7
ids_list_series	8
ids_list_series_topics	8

Index	10
--------------	-----------

ids_bulk	<i>Download and Process Bulk Data File for International Debt Statistics</i>
----------	--

Description

This function downloads a data file from the World Bank International Debt Statistics (IDS), reads and processes the data into a tidy format.

Usage

```
ids_bulk(
  file_url,
  file_path = tempfile(fileext = ".xlsx"),
  quiet = FALSE,
  timeout = getOption("timeout", 60),
  warn_size = TRUE
)
```

Arguments

file_url	A character string specifying the URL of the Excel file to download. This parameter is required (see ids_bulk_files).
file_path	An optional character string specifying the file path where the downloaded file will be saved. Defaults to a temporary file with .xlsx extension. The file will automatically be deleted after processing.
quiet	A logical parameter indicating whether messages should be printed to the console.
timeout	An integer specifying the timeout in seconds for downloading the file. Defaults to the current R timeout setting.
warn_size	A logical parameter indicating whether to warn about large downloads. Defaults to TRUE.

Value

A tibble containing processed debt statistics data with the following columns:

geography_id The unique identifier for the geography (e.g., "ZMB").

series_id The unique identifier for the series (e.g., "DT.DOD.DPPG.CD").

counterpart_id The unique identifier for the counterpart series.

year The year corresponding to the data (as an integer).

value The numeric value representing the statistic for the given geography, series, counterpart, and year.

Examples

```
available_files <- ids_bulk_files()
data <- ids_bulk(
  available_files$file_url[1]
)
```

ids_bulk_files	<i>Retrieve Available Bulk Download Files for International Debt Statistics</i>
----------------	---

Description

This function returns a tibble with metadata for files available for bulk download via the World Bank International Debt Statistics (IDS). It includes information such as file names, URLs, and the last update dates for each file in Excel (xlsx) format.

Usage

```
ids_bulk_files()
```

Value

A tibble containing the available files and their metadata:

file_name The name of the file available for download.

file_url The URL to download the file in Excel format.

last_updated_date The date when the file was last updated.

Examples

```
ids_bulk_files()
```

ids_bulk_series	<i>Retrieve Bulk Series Metadata for International Debt Statistics</i>
-----------------	--

Description

This function retrieves a tibble with metadata for series available via bulk download of the World Bank International Debt Statistics (IDS).

Usage

```
ids_bulk_series()
```

Value

A tibble containing the available series and their metadata:

series_id The unique identifier for the series (e.g., "BN.CAB.XOKA.CD").

series_name The name of the series (e.g., "Current account balance (current US\$)").

source_id The ID of the data source providing the indicator.

source_name The name or description of the source of the indicator data.

source_note Additional notes or descriptions about the data source.

source_organization The organization responsible for the data source.

Examples

```
ids_bulk_series()
```

ids_get	<i>Fetch Debt Statistics from the World Bank International Debt Statistics API</i>
---------	--

Description

This function returns a tibble with debt statistics data fetched from the World Bank International Debt Statistics (IDS) API. The data can be filtered by geographies, series, counterparts, and time periods.

Usage

```
ids_get(  
  geographies,  
  series,  
  counterparts = "all",  
  start_date = NULL,  
  end_date = NULL,  
  progress = FALSE  
)
```

Arguments

<code>geographies</code>	A character vector representing the geographic codes (e.g., "ZMB" for Zambia). This argument is required and cannot contain NA values.
<code>series</code>	A character vector representing the series codes (e.g., "DT.DOD.DPPG.CD"). This argument is required and cannot contain NA values.
<code>counterparts</code>	A character vector representing counterpart areas (e.g., "all", "001"). This argument is required and cannot contain NA values (default: "all").
<code>start_date</code>	An optional numeric value representing the starting year (e.g., 2015). It must be greater than or equal to 1970. If not provided, the entire time range is used.
<code>end_date</code>	An optional numeric value representing the ending year (e.g., 2020). It must be greater than or equal to 1970 and cannot be earlier than <code>start_date</code> . If not provided, the entire available time range is used.
<code>progress</code>	A logical value indicating whether to display a progress message during the request process (default: FALSE). Must be either TRUE or FALSE.

Value

A tibble containing debt statistics with the following columns:

geography_id The unique identifier for the geography (e.g., "ZMB").

series_id The unique identifier for the series (e.g., "DT.DOD.DPPG.CD").

counterpart_id The unique identifier for the counterpart (e.g., "all").

year The year corresponding to the data (e.g., 2020).

value The numeric value representing the statistic for the given geography, series, counterpart, and year.

Examples

```
# Fetch data for a series without specifying a time range or counterpart
ids_get(
  geographies = "ZMB",
  series = "DT.DOD.DPPG.CD",
)

# Fetch specific debt statistics for Zambia from 2015 to 2020
ids_get(
  geographies = "ZMB",
  series = c("DT.DOD.DPPG.CD", "BM.GSR.TOTL.CD"),
  start_date = 2015,
  end_date = 2020
)

# Fetch data for specific counterparts
ids_get(
  geographies = "ZMB",
  series = "DT.DOD.DPPG.CD",
  counterparts = c("216", "231")
)
```

```
)  
  
# Fetch data for multiple geographies and counterparts  
ids_get(  
  geographies = c("ZMB", "CHN"),  
  series = "DT.DOD.DPPG.CD",  
  counterparts = c("216", "231"),  
  start_date = 2019,  
  end_date = 2020  
)
```

ids_list_counterparts *List Available Counterparts from the World Bank International Debt Statistics API*

Description

This function returns a tibble with available counterparts from the World Bank International Debt Statistics (IDS) API. Each row provides details on counterparts, including their unique identifiers, names, and types.

Usage

```
ids_list_counterparts()
```

Value

A tibble containing the available counterparts and their attributes:

counterpart_id The unique identifier for the counterpart (e.g., "730").

counterpart_name The standardized name of the counterpart (e.g., "China").

counterpart_iso2code ISO 3166-1 alpha-2 code of the counterpart (e.g., "CN").

counterpart_iso3code ISO 3166-1 alpha-3 code of the counterpart (e.g., "CHN").

counterpart_type The type of counterpart (e.g., "Country", "Institution", "Region").

Examples

```
ids_list_counterparts()
```

ids_list_geographies *List Available Geographies from the World Bank International Debt Statistics API*

Description

This function returns a tibble with available geographies from the World Bank International Debt Statistics (IDS) API. Each row provides details on geographies, including their unique identifiers, names, and types.

Usage

```
ids_list_geographies()
```

Value

A tibble containing the available geographies and their attributes:

geography_id ISO 3166-1 alpha-3 code of the geography (e.g., "ZMB").

geography_name The standardized name of the geography (e.g., "Zambia").

geography_iso2code ISO 3166-1 alpha-2 code of the geography (e.g., "ZM").

geography_type The type of geography (e.g., "Country", "Region").

capital_city The capital city of the geography (e.g., "Lusaka").

region_id The unique identifier for the region (e.g., "SSF").

region_iso2code ISO 3166-1 alpha-2 code of the region (e.g., "ZG").

region_name The name of the region (e.g., "Sub-Saharan Africa").

admin_region_id The unique identifier for the administrative region (e.g., "SSA").

admin_region_iso2code The ISO 3166-1 alpha-2 code for the administrative region (e.g., "ZF").

admin_region_name The name of the administrative region (e.g., "Sub-Saharan Africa (excluding high income)").

lending_type_id The unique identifier for the lending type (e.g., "IDX").

lending_type_iso2code ISO code for the lending type (e.g., "XI").

lending_type_name The name of the lending type (e.g., "IDA").

Examples

```
ids_list_geographies()
```

ids_list_series	<i>List Available Series from the World Bank International Debt Statistics API</i>
-----------------	--

Description

This function returns a tibble with available series from the World Bank International Debt Statistics (IDS) API. Each series provides data on various debt-related indicators.

Usage

```
ids_list_series()
```

Value

A tibble containing the available series and their metadata:

series_id The unique identifier for the series (e.g., "BN.CAB.XOKA.CD").

series_name The name of the series (e.g., "Current account balance (current US\$)").

source_id The ID of the data source providing the indicator.

source_name The name or description of the source of the indicator data.

source_note Additional notes or descriptions about the data source.

source_organization The organization responsible for the data source.

Examples

```
ids_list_series()
```

ids_list_series_topics	<i>List Available Series-Topic combinations from the World Bank International Debt Statistics API</i>
------------------------	---

Description

This function returns a tibble with available series-topic combinations from the World Bank International Debt Statistics (IDS) API. Each row provides a mapping from series to topic, with the possibility of multiple topic per series.

Usage

```
ids_list_series_topics()
```


Value

A tibble containing the available series and their topics:

series_id The unique identifier for the series (e.g., "BM.GSR.TOTL.CD").

topic_id The unique identifier for the topic (e.g., 3).

topic_name The name of the topic (e.g., "External Debt").

Examples

```
ids_list_series_topics()
```

Index

ids_bulk, 2
ids_bulk_files, 2, 3
ids_bulk_series, 4
ids_get, 4
ids_list_counterparts, 6
ids_list_geographies, 7
ids_list_series, 8
ids_list_series_topics, 8