

Package ‘BIS’

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Type Package

Title Programmatic Access to Bank for International Settlements Data

Version 0.3.1

Description Provides an interface to data provided by the Bank for International Settlements <<https://www.bis.org>>, allowing for programmatic retrieval of a large quantity of (central) banking data.

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URL <https://www.bis.org>

BugReports <https://github.com/stefanangrick/BIS/issues>

Suggests knitr, rmarkdown, ggplot2, zoo

Imports dplyr, readr, tidyr, tidyselect, rvest, xml2

VignetteBuilder knitr

Encoding UTF-8

RoxygenNote 7.2.2

NeedsCompilation no

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Repository CRAN

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`get_bis`*Download and parse a BIS data set*

Description

Download and parse a BIS data set

Usage

```
get_bis(url, auto_pivot = TRUE, ...)
```

Arguments

<code>url</code>	Character. URL of the data set to be imported (usually obtained through <code>get_datasets()</code>).
<code>auto_pivot</code>	Logical. Controls whether source data set is converted to long format. Set this to <code>FALSE</code> to disable conversion (default: <code>TRUE</code>).
<code>...</code>	Arguments passed to <code>download.file()</code> (e.g. <code>quiet = TRUE</code>).

Details

Large data sets may cause `get_bis()` to fail if the amount of available memory is insufficient for executing a required pivot operation. As a workaround, users may wish to set `auto_pivot = FALSE` when calling `get_bis()`, then subset the data and run `pivot_longer_bis()` manually. See the vignette for detail.

Value

A tibble data frame, or a list of tibble data frames in cases where the source zip file contains multiple csv files.

Examples

```
ds <- get_datasets()
df <- get_bis(ds$url[2])
```

get_datasets	<i>Download and parse a list of available BIS data sets</i>
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Description

Download and parse a list of available BIS data sets

Usage

```
get_datasets(base_url = "https://www.bis.org/statistics/full_data_sets.htm")
```

Arguments

base_url Character. URL of the BIS's homepage listing single file data sets for download (optional).

Value

A tibble data frame.

Examples

```
ds <- get_datasets()
```

pivot_longer_bis	<i>Convert a BIS data set to long format</i>
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Description

Convert a BIS data set to long format

Usage

```
pivot_longer_bis(tbl)
```

Arguments

tbl Tibble. A tibble data frame containing a BIS data set (usually obtained via `get_bis(url, auto_pivot = FALSE)`).

Value

A tibble data frame.

Examples

```
ds    <- get_datasets()
rates <- get_bis(ds$url[ds$id == "full_cbpol_m_csv"], auto_pivot = FALSE)
rates <- subset(rates, ref_area %in% c("US", "DE", "JP"))
rates <- pivot_longer_bis(rates)
```

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