

Package ‘GetTDDData’

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Title Get Data for Brazilian Bonds (Tesouro Direto)

Version 1.7.1

Description Downloads and aggregates data for Brazilian government issued bonds directly from the website of Tesouro Direto <<https://www.tesourodireto.com.br/>>.

Depends R (>= 4.1.0)

Imports stringr, readxl, utils, stats, curl, bizdays, tidyr, rvest,
xml2, dplyr, fs, cli, ggplot2, tibble, lifecycle

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BugReports <https://github.com/msperlin/GetTDDData/issues/>

URL <https://github.com/msperlin/GetTDDData/>,
<https://msperlin.github.io/GetTDDData/>

Encoding UTF-8

Suggests knitr, rmarkdown, testthat, covr

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Author Marcelo Perlin [aut, cre]

Maintainer Marcelo Perlin <marceloperlin@gmail.com>

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get_asset_info	Returns metadata and information about Tesouro Direto bond types
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Description

Provides metadata for Brazilian government bond types, including their official names, indexers (e.g., IPCA, SELIC, Fixed rate), payment frequency, and description.

Usage

```
get_asset_info(asset_codes = NULL)
```

Arguments

asset_codes	Optional character vector of asset codes (e.g. 'LTN', 'NTN-B'). If 'NULL', returns info for all assets.
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Value

A tibble with asset metadata.

Examples

```
get_asset_info()
get_asset_info("LTN")
```

get_cache_folder	Returns the cache directory path
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Description

Returns the cache directory path

Usage

```
get_cache_folder(persistent = getOption("GetTDDData.persistent_cache", FALSE))
```

Arguments

persistent	Logical. If 'TRUE', uses a user-persistent directory via 'tools::R_user_dir'. If 'FALSE', defaults to session temporary directory. Can also be set globally via 'options(GetTDDData.persistent_cache = TRUE)'. Defaults to 'FALSE'.
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Value

A character string representing the folder path.

Examples

```
get_cache_folder()
```

get_td_names	Returns the available asset names at the Tesouro Direto (TD) website
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Description

Returns the available asset names at the Tesouro Direto (TD) website

Usage

```
get_td_names(online = FALSE)
```

Arguments

online	Logical. If 'TRUE', attempts to query the Tesouro Direto CDN server for live asset names. Defaults to 'FALSE'.
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Value

A character vector of names.

Examples

```
get_td_names()
```

get_yield_curve	Gets the current yield curve
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Description

Downloads and parses information about the current Brazilian yield curve from Anbima.

Usage

```
get_yield_curve()
```

```
get.yield.curve()
```

Value

A data frame with information about the yield curve.

Examples

```
## Not run:
df_yield <- get_yield_curve()
str(df_yield)

## End(Not run)
```

plot_td_series	<i>Plot Tesouro Direto Time Series Data</i>
----------------	---

Description

Plots price or yield time series trajectories for Tesouro Direto assets downloaded using [td_get](#).

Usage

```
plot_td_series(df_td, type = c("price", "yield"))
```

Arguments

df_td	A data frame or tibble returned by td_get .
type	Character string indicating what to plot: "price" (price_bid) or "yield" (yield_bid). Defaults to "price".

Value

A ggplot object.

Examples

```
## Not run:
df_td <- td_get("LTN", 2020, 2022)
plot_td_series(df_td, type = "price")

## End(Not run)
```

plot_yield_curve	<i>Plot the ANBIMA Yield Curve</i>
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Description

Plots the yield curve data frame downloaded using [get_yield_curve](#).

Usage

```
plot_yield_curve(df_yc)
```

Arguments

df_yc A data frame or tibble returned by [get_yield_curve](#).

Value

A ggplot object.

Examples

```
## Not run:
df_yc <- get_yield_curve()
plot_yield_curve(df_yc)

## End(Not run)
```

td_get	<i>Downloads data for Brazilian government bonds directly from the website</i>
--------	--

Description

‘r lifecycle::badge("deprecated")‘

Usage

```
td_get(
  asset_codes = "LTN",
  first_year = 2005,
  last_year = as.numeric(format(Sys.Date(), "%Y")),
  dl_folder = get_cache_folder()
)
```

Arguments

asset_codes	A character vector identifying the assets (one or more) in the names of the Excel files (e.g., 'LTN'). If 'NULL', downloads all available assets.
first_year	The first year of data (minimum of 2005).
last_year	The last year of data.
dl_folder	Path of the folder to save Excel files from Tesouro Direto (will create if it does not exist). Defaults to a session-temporary directory. To avoid redownloading files across different R sessions, you can pass a persistent path (e.g., a local folder path, or using <code>tools::R_user_dir("GetTDDData", which = "cache")</code>).

Details

This function looks into the Tesouro Direto website (<https://www.tesourodireto.com.br/>) and downloads all files containing prices and yields of government bonds. You can use the input 'asset_codes' to restrict the downloads to specific bonds.

Due to the closure of the Tesouro Direto data application in August 2026, 'td_get()' is deprecated and resulting data will only go as far as August 2026. Users should use 'td_get2()', a new function that will be developed soon.

Value

A data frame containing the asset data (prices and yields).

Examples

```
## Not run:
df_td <- td_get("LTN", 2020, 2022)

## End(Not run)
```

td_get2	<i>Downloads data for Brazilian government bonds from Tesouro Transparente (CKAN)</i>
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Description

This function downloads historical prices and yields of Brazilian government bonds directly from the Tesouro Transparente CKAN open data portal (<https://www.tesourotransparente.gov.br/ckan/dataset/taxas-dos-titulos-ofertados-pelo-tesouro-direto/>). It serves as the modern replacement for `td_get`, which relied on the legacy Tesouro Direto application shut down in August 2026.

Usage

```
td_get2(
  asset_codes = "LTN",
  first_year = 2005,
  last_year = as.numeric(format(Sys.Date(), "%Y")),
  dl_folder = get_cache_folder(),
  force_download = FALSE,
  dataset_url = get_default_ckan_url()
)
```

Arguments

asset_codes	A character vector identifying the assets to download (e.g., 'LTN', 'NTN-B', 'LFT', 'NTN-B Principal', 'NTN-F', 'NTN-C', 'NTN-B1', 'Educa+', 'Renda+'). You can also pass official names such as 'Tesouro Prefixado', 'Tesouro Selic', etc. If 'NULL', downloads all available assets. Defaults to 'LTN'.
first_year	The first year of data (minimum of 2005). Defaults to 2005.
last_year	The last year of data. Defaults to the current year.
dl_folder	Path of the folder to save data files from Tesouro Transparente. Defaults to get_cache_folder() .
force_download	Logical. If 'TRUE', forces redownloading the data even if a cached version from today is present. Defaults to 'FALSE'.
dataset_url	The URL to the CKAN dataset page or direct CSV file. Defaults to "https://www.tesourotransparente.gov.br/dados-titulos-ofertados-pelo-tesouro-direto/".

Value

A tibble (data frame) containing the asset data:

ref_date Reference date (Date)

yield_bid Annual purchase yield / rate in decimal format (numeric, e.g. 0.1183 for 11.83%)

price_bid Unit purchase price in BRL (numeric)

asset_code Standard bond identifier (character, e.g. 'LTN 010123')

matur_date Maturity date of the bond (Date)

Examples

```
## Not run:
df_td <- td_get2("LTN", 2020, 2022)
head(df_td)

## End(Not run)
```

td_get_current	Returns current TD prices and yields
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Description

Fetches current prices and yields of Tesouro Direto (TD) assets by downloading the latest daily data available from the website.

Usage

```
td_get_current(asset_codes = NULL, dl_folder = get_cache_folder())
```

Arguments

asset_codes	A character vector identifying the assets (e.g., 'LTN', 'NTN-B'). If 'NULL', returns all available assets.
dl_folder	Path of the folder to save files. Defaults to a session-temporary directory.

Value

A tibble with current asset prices, yields, and maturity dates.

Examples

```
## Not run:  
df_current <- td_get_current()  
head(df_current)  
  
## End(Not run)
```

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