Package ‘pdfetch’

February 27, 2023

Imports httr, zoo, xts, XML, lubridate, jsonlite, curl, xml2, stringr,
magrittr, dplyr, tidyr, readr

Type Package

Title Fetch Economic and Financial Time Series Data from Public Sources

Version 0.2.8

Date 2023-02-26

Author Abiel Reinhart <abielr@gmail.com>

Maintainer Abiel Reinhart <abielr@gmail.com>

Description Download economic and financial time series from public sources,
including the St Louis Fed’s FRED system, Yahoo Finance, the US Bureau of Labor Statistics,
the US Energy Information Administration, the World Bank, Eurostat, the European Central Bank,
the Bank of England, the UK’s Office of National Statistics, Deutsche Bundesbank, and INSEE.

License GPL

RoxygenNote 7.1.2

URL https://github.com/abielr/pdfetch

BugReports https://github.com/abielr/pdfetch/issues

NeedsCompilation no

Repository CRAN

Date/Publication 2023-02-27 01:10:02 UTC

R topics documented:

  pdfetch ......................................................... 2
  pdfetch_BLS .................................................. 2
  pdfetch_BOE ................................................. 3
  pdfetch_BUNDESBANK ........................................ 3
  pdfetch_ECB .................................................. 4
  pdfetch_EIA .................................................. 5
  pdfetchEUROSTAT ........................................... 5
A package for downloading economic and financial time series from public sources.

**pdfetch_BLS**

Fetch data from U.S. Bureau of Labor Statistics

**Description**

Fetch data from U.S. Bureau of Labor Statistics

**Usage**

```r
pdfetch_BLS(identifiers, from, to)
```

**Arguments**

- `identifiers`: a vector of BLS time series IDs
- `from`: start year
- `to`: end year. Note that the request will fail if this is a future year that is beyond the last available data point in the series.

**Value**

a xts object

**See Also**

https://www.bls.gov/data/

**Examples**

```r
## Not run:
pdfetch_BLS(c("EIUIR","EIUIR100"), 2005, 2010)
## End(Not run)
```
pdfetch_BOE

Fetch data from the Bank of England Interactive Statistical Database

Description
Fetch data from the Bank of England Interactive Statistical Database

Usage
pdfetch_BOE(identifiers, from, to = Sys.Date())

Arguments
identifiers a vector of BoE series codes
from start date
to end date; if not given, today’s date will be used

Value
a xts object

See Also
http://www.bankofengland.co.uk/boeapps/iadb/

Examples
## Not run:
pdfetch_BOE(c("LPMVWYR", "LPMVWYR"), "2012-01-01")

## End(Not run)

pdfetch_BUNDESBANK

Fetch data from the Deutsche Bundesbank

Description
Fetch data from the Deutsche Bundesbank

Usage
pdfetch_BUNDESBANK(identifiers)

Arguments
identifiers a vector of series codes
pdfetch_ECB

Fetch data from European Central Bank’s statistical data warehouse

**Description**

Fetch data from European Central Bank’s statistical data warehouse

**Usage**

```r
pdfetch_ECB(identifiers)
```

**Arguments**

- `identifiers` a vector of ECB series IDs

**Value**

a xts object

**See Also**

http://sdw.ecb.europa.eu/

**Examples**

```r
## Not run:
pdfetch_ECB("FM.B.U2.EUR.4F.KR.DFR.CHG")

## End(Not run)
```
pdfetch_EIA

Fetch data from the US Energy Information Administration

Description
Fetch data from the US Energy Information Administration

Usage
pdfetch_EIA(identifiers, api_key)

Arguments
- identifiers: a vector of EIA series codes
- api_key: EIA API key

Value
a xts object. Note that for hourly series the time zone will always be set to GMT, whereas the true
time zone may be different. If you wish to use the correct time zone you must manually convert it.

See Also
https://www.eia.gov/

Examples
## Not run:
pdfetch_EIA(c("ELEC.GEN.ALL-AK-99.A","ELEC.GEN.ALL-AK-99.Q"), EIA_KEY)

## End(Not run)

pdfetch_EUROSTAT

Fetch data from Eurostat

Description
Eurostat stores its statistics in data cubes, which can be browsed at https://ec.europa.eu/
eurostat/data/database. To access data, specify the name of a data cube and optionally filter it based on its dimensions.

Usage
pdfetch_EUROSTAT(flowRef, from, to, ...)
Arguments

flowRef  Eurostat dataset code
from     a Date object or string in YYYY-MM-DD format. If supplied, only data on or after this date will be returned
to       a Date object or string in YYYY-MM-DD format. If supplied, only data on or before this date will be returned
...      optional dimension filters for the dataset

Value

a xts object

Examples

## Not run:
pdfetch_EUROSTAT("namq_gdp_c", FREQ="Q", S_ADJ="NSA", UNIT="MIO_EUR",
                     INDIC_NA="B1GM", GEO=c("DE","UK"))

## End(Not run)
pdfetch_FRED

Fetch data from St Louis Fed’s FRED database

Description
Fetch data from St Louis Fed’s FRED database

Usage
pdfetch_FRED(identifiers)

Arguments
identifiers  a vector of FRED series IDs

Value
a xts object

See Also
https://fred.stlouisfed.org/

Examples
## Not run:
pdfetch_FRED(c("GDPC1", "PCECC96"))
## End(Not run)

pdfetch_INSEE

Fetch data from the French National Institute of Statistics and Economic Studies (INSEE)

Description
Fetch data from the French National Institute of Statistics and Economic Studies (INSEE)

Usage
pdfetch_INSEE(identifiers)

Arguments
identifiers  a vector of INSEE series codes
pdfetch_ONS

Fetch data from the UK Office of National Statistics

Description

The ONS maintains multiple data products; this function can be used to retrieve data from the Time Series Explorer, see https://www.ons.gov.uk/timeseriestool

Usage

pdfetch_ONS(identifiers, dataset)

Arguments

identifiers a vector of ONS series codes

dataset optional ONS dataset name, only used if a time series is available in multiple datasets.

Value

a xts object

Examples

## Not run:
pdfetch_INSEE(c("000810635"))

## End(Not run)
pdfetch_WB  Fetch data from World Bank

Description
Fetch data from World Bank

Usage
pdfetch_WB(indicators, countries = "all")

Arguments
- indicators: a vector of World Bank indicators
- countries: a vector of country identifiers, which can be 2- or 3-character ISO codes. The special option "all" retrieves all countries.

Value
a xts object

See Also
https://data.worldbank.org/

Examples
## Not run:
pdfetch_WB("NY.GDP.MKTP.CD", c("BR","MX"))
## End(Not run)

pdfetch_YAHOO  Fetch data from Yahoo Finance

Description
Fetch data from Yahoo Finance

Usage
pdfetch_YAHOO(
  identifiers,
  fields = c("open", "high", "low", "close", "adjclose", "volume"),
  from = as.Date("2007-01-01"),
  to = Sys.Date(),
  interval = "1d"
)
**Arguments**

- **identifiers**: a vector of Yahoo Finance tickers
- **fields**: can be any of "open", "high", "low", "close", "volume", or "adjclose"
- **from**: a Date object or string in YYYY-MM-DD format. If supplied, only data on or after this date will be returned
- **to**: a Date object or string in YYYY-MM-DD format. If supplied, only data on or before this date will be returned
- **interval**: the frequency of the return data, can be '1d', '1wk', or '1mo'

**Value**

a xts object

**See Also**

[https://finance.yahoo.com/](https://finance.yahoo.com/)

**Examples**

```r
## Not run:
pdfetch_YAHOO(c("^gspc","^ixic"))
pdfetch_YAHOO(c("^gspc","^ixic"), "adjclose")

## End(Not run)
```
Index

pdfetch, 2
pdfetch-package (pdfetch), 2
pdfetch_BLS, 2
pdfetch_BOE, 3
pdfetch_BUNDESBANK, 3
pdfetch_ECB, 4
pdfetch_EIA, 5
pdfetch EUROSTAT, 5
pdfetch EUROSTAT_DSD, 6
pdfetch_FRED, 7
pdfetch_INSEE, 7
pdfetch_ONS, 8
pdfetch WB, 9
pdfetch_YAHOO, 9