Package ‘TSMisc’

August 26, 2016

Version 2016.8-1
Title 'TSdbi' Extensions to Wrap Miscellaneous Data Sources
Description Methods to retrieve data from several different sources. This include historical quote data from 'Yahoo' and 'Oanda', economic data from 'FRED', and 'xls' and 'csv' data from different sources. Comprehensive examples of all the 'TS*' packages is provided in the vignette Guide.pdf with the 'TSdata' package.

Depends R (>= 2.8.0), TSdbi (>= 2015.1-1)
Imports methods, DBI (>= 0.3.1), tframe, tframePlus, stats, zoo, tseries(>= 0.10-33), quantmod (>= 0.4-0), gdata
Suggests tfplot, xts, timeSeries, tis

BuildVignettes true
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URL http://tsdbi.r-forge.r-project.org/

NeedsCompilation no
Repository CRAN
Date/Publication 2016-08-26 20:35:27

R topics documented:

TSMiscMethods . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ...
TSmiscMethods

TSdbi Extensions to Wrap Several Data Sources

Description

Get a time series (matrix) from a variety of source URLs

Usage

```r
histQuote(...)  
getSymbol(...)  
xls(...)  
zip(...)  

## S4 method for signature 'histQuoteConnection,missing'
TSconnect(q, dbname, ...)
## S4 method for signature 'character,THistQuoteConnection'
TSget(
  serIDs, con, TSrepresentation = options()$TSrepresentation,
  tf = NULL, start = tfstart(tf), end = tfend(tf), names=serIDs,
  quote = "Close", quiet = TRUE, repeat.try=3, ...)

## S4 method for signature 'character,THistQuoteConnection'
TSdates(
  serIDs, con, vintage=NULL, panel=NULL, ...)  

## S4 method for signature 'character,THistQuoteConnection'
TSdescription(x, con, ...)  

## S4 method for signature 'character,THistQuoteConnection'
TSdoc(x, con, ...)  

## S4 method for signature 'character,THistQuoteConnection'
TISlabel(x, con, ...)  

## S4 method for signature 'character,THistQuoteConnection'
TSsource(x, con, ...)  

## S4 method for signature 'getSymbolConnection,missing'
TSconnect(  
  q, dbname, ...)
## S4 method for signature 'character,TSgetSymbolConnection'
TSget(
  serIDs, con, TSrepresentation = options()$TSrepresentation,
  tf = NULL, start = tfstart(tf), end = tfend(tf), names=serIDs,
  quote = NULL, quiet = TRUE, repeat.try=3, ...)

## S4 method for signature 'character,TSgetSymbolConnection'
TSdates(
  serIDs, con, vintage=NULL, panel=NULL, ...)  

## S4 method for signature 'character,TSgetSymbolConnection'
TSdescription(x, con, ...)  

## S4 method for signature 'character,TSgetSymbolConnection'
```

TSmiscMethods

TSdoc(x, con, ...)
   ## S4 method for signature 'character,TSgetSymbolConnection'
TSlabel(x, con, ...)
   ## S4 method for signature 'character,TSgetSymbolConnection'
TSsource(x, con, ...)
   ## S4 method for signature 'xlsConnection,missing'
TSconnect(q, dbname, 
    map=list(ids, data, dates, names=NULL, description=NULL, sheet=1, 
      tsrepresentation = function(data,dates){
        zoo::zoo(data, as.Date(dates))}), ...)
   ## S4 method for signature 'character,TSxlsConnection'
TSget(serIDs, con, TSrepresentation = options()$TSrepresentation, 
    tf = NULL, start = tfstart(tf), end = tfend(tf), names=serIDs, ...)
   ## S4 method for signature 'character,TSxlsConnection'
TSdates(serIDs, con, vintage=NULL, panel=NULL, ...)
   ## S4 method for signature 'character,TSxlsConnection'
TSDescription(x, con, ...)
   ## S4 method for signature 'character,TSxlsConnection'
TSdoc(x, con, ...)
   ## S4 method for signature 'character,TSxlsConnection'
TLSlabel(x, con, ...)
   ## S4 method for signature 'character,TSxlsConnection'
TSsource(x, con, ...)
   ## S4 method for signature 'character,TSxlsConnection'

TSconnect(q, dbname, 
    suffix=c("Open","High","Low","Close","Volume","OI"), ...)
   ## S4 method for signature 'character,TSzipConnection'
TSget(serIDs, con, TSrepresentation = options()$TSrepresentation, 
    tf=NULL, start=tfstart(tf), end=tfend(tf), 
    names=NULL, quote=con@suffix, ...)
   ## S4 method for signature 'character,TSzipConnection'
TSdates(serIDs, con, vintage=NULL, panel=NULL, ...)
   ## S4 method for signature 'character,TSzipConnection'
TSDescription(x, con, ...)
   ## S4 method for signature 'character,TSzipConnection'
TSdoc(x, con, ...)
   ## S4 method for signature 'character,TSzipConnection'
TLSlabel(x, con, ...)
   ## S4 method for signature 'character,TSzipConnection'
TSsource(x, con, ...)
Arguments

- **q**: a string indicating a query interface to use, or a database connection object.
- **dbname**: a string indicating a database or omitted if q is a connection object.
- **con**: a database connection object.
- **serIDs**: identifiers for series on the database.
- **vintage**: character string indicating vintage of the series on the database (not supported by this database).
- **panel**: character string indicating panel of the series on the database (not supported by this database).
- **x**: time series data (TSPut), or identifiers for series on the database (TSdoc and TSDescription).
- **names**: optional character vector to use for series names in the R object.
- **tf**: time frame for trimming data, passed to tfwindow.
- **start**: time frame for trimming data, passed to tfwindow.
- **end**: time frame for trimming data, passed to tfwindow.
- **tsrepresentation**: time representation for returned series. (See TSget in package TSDbi.)
- **quote**: reference time (e.g. ”Close”) passed to get.hist.quote. For zip method, a vector of strings, as in suffix, indicating series that should be returned in the result (see Details).
- **quiet**: logical to suppress progress report, passed to get.hist.quote.
- **repeat.try**: integer number of times to attempt retrieval before giving up.
- **sheet**: optional integer to indicate the sheet of the workbook to use (default=1).
- **map**: A list with elements indicating the location of data, serIDs, dates, and optional metadata (see Details).
- **suffix**: A vector of strings indicating names of the columns if the zipped file has more than one series (see Details).
- **...**: Arguments passed to other methods, or by histQuote to get.hist.quote.

Details

These functions interface to a stock quote URL using get.hist.quote from the tseries package. Only URLs "yahoo" and "oanda" are supported. TShistQuote is a wrapper to get.hist.quote. No extra functionality is provided, only an interface that is consistent with TSDbi. The TSDbi function argument dbname is mapped to get.hist.quote argument provider, and serID to instrument. Argument quote (ignored for provider "oanda") is set to "Close" by default, but can be specified. get.hist.quote argument retclass is replaced by TSDbi argument TSrepresentation. (See TSget in TSDbi for more details on how this works.)

TShistQuote does not support writing data to the source URL.

The classes histQuoteDriver and TShistQuoteConnection extend classes DBIDriver and DBICONnection in the DBI package.

See the package vignette for additional examples.
Value

Depends.

See Also

TSSconnect, TSSdates, TSSget, get.hist.quote tfwindow

Examples

require("tfplot")

## Not run:
con <- try(TSSconnect("histQuote", dbname="yahoo") )
x <- TSSget("gspc", con)
tfplot(x)

con <- TSSconnect("getSymbol", dbname="FRED")
x <- TSSget("CPIAUCNS", con)
tfplot(x)

# data from http://pitrading.com/
# par(ask=TRUE) # to pause between pages
con <- TSSconnect("zip", dbname="http://pitrading.com/free_eod_data")
x <- TSSget("EURUSD", con)
tfplot(x, graphs.per.page=3)

z <- TSSget(c("AD", "CD"), con, quote="Close")
tfplot(z, start="2007-01-01", Title="Futures, Australian and Canadian Dollar Continuous Contract at Close",
       graphs.per.page=3)

## End(Not run)

#### Australian Money ####

# test file copied Nov. 29, 2010 from

testfile <- system.file("xlsExampleData/d03hist.xls", package = "TSMisc")

con1 <- TSSconnect("xls", dbname=testfile,
    map=list(ids =list(i=11, j="B:Q"),
             data =list(i=12:627, j="B:Q"),
             dates=list(i=12:627, j="A"),
             names=list(i=4:7, j="B:Q"),
    description = NULL,
    tsrepresentation = function(data,dates){
      ts(data,start=c(1959,7), frequency=12))})

z <- TSSget("DMACN", con1)
tfplot(z)
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