Time Series Database Interface: TSgetSymbol wrapper to getSymbols

October 23, 2011

1 Introduction

The code from the vignette that generates this guide can be loaded into an editor with edit(vignette("TSgetSymbol")). This uses the default editor, which can be changed using options(). It should be possible to view the pdf version of the guide for this package with print(vignette("TSgetSymbol")).

Once R is started, the functions in this package are made available with

```
> library("TSgetSymbol")
```

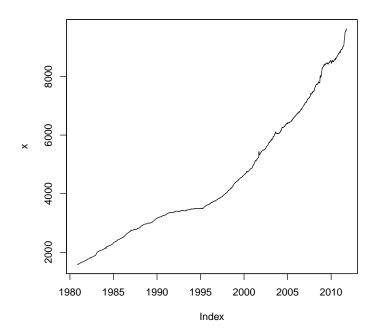
This will also load required packages TSdbi, DBI, methods, tframePlus, zoo, and quantmod.

TSgetSymbol is just a wrapper to getSymbols in quantmod. It does not provide extra functionality, only an interface that is consistent with TSdbi. TSgetSymbol does not support writing data.

1.1 Examples Using TSgetSymbol with FRED

A connection can be used to get data from the Federal Reserve Bank of St.Louis. (Look at http://research.stlouisfed.org/fred2/ to find series identifiers.)

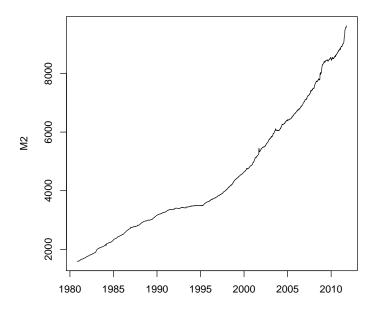
```
> con <- TSconnect("getSymbol", dbname = "FRED")
> x <- TSget("M2", con)
> plot(x)
```



- > tfplot(x)
 > TSrefperiod(x)

NULL

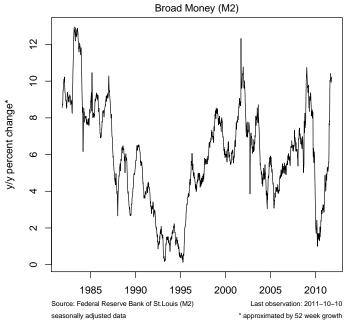
- > TSdescription(x)
- [1] "M2 from FRED"



It is also possible to specify a connection to be used as the default:

```
> options(TSconnection = con)
```

Running commentary, blah, blah, blah

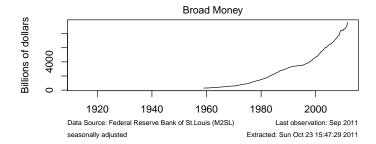


It is also possible to return multiple series, but beware that the FRED series called M2 is a weekly series, whereas CPIAUCNS is monthly. Binding together series of different frequency may fail, or produce strange results.

[1] "CPIAUCNS from FRED" "M2SL from FRED"

Running commentary, blah, blah, blah

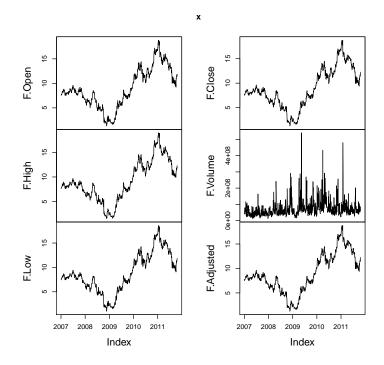




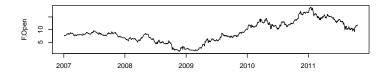
> TSdates(c("CPIAUCNS", "M2SL"), con)

The following connects to yahoo and loads Ford. This is a multivariate time series with open, close, etc. Set par(ask=TRUE) here if you want to stop and prompt for <Return> between pages in the graphics output.

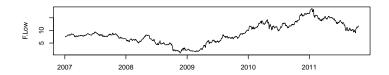
```
> yahoo <- TSconnect("getSymbol", dbname = "yahoo")
> x <- TSget("F", con = yahoo)
> plot(x)
```



> tfplot(x, graphs.per.page = 3)







See the TSdbi vignette for additional details.