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# Import stock price from Yahoo Finance into R?

Asked 9 years ago   Active 4 years, 1 month ago   Viewed 28k times

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10



**Locked.** This question and its answers are [locked](#) because the question is off-topic but has historical significance. It is not currently accepting new answers or interactions.

I would like to import the "Last Trade" stock price from Yahoo finance into R. The intention is to work with (almost) real time data. Are there any solutions?

Thanks in advance for any helpful comment.

r

edited Mar 18 '11 at 16:15

user88

asked Mar 17 '11 at 12:11



Steven

263

1

3

4

This thread may also be of interest: [Data APIs/feeds available as packages in R.](#) – gung - Reinstate Monica ♦ Dec 19 '12 at 2:40

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## 4 Answers


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This really isn't a statistics question (perhaps this could be moved to SO?), but there's a nice function in [quantmod](#) that does what Dirk has done by hand. See `getQuote()` and

 yahooQF() . Typing yahooQF() will bring up a menu of all the possible quote formats you can use.



```
> require(quantmod)
> getQuote("QQQQ;SPY", what=yahooQF("Last Trade (Price Only)"))
      Trade Time Last
QQQQ 2011-03-17 12:33:00 55.14
SPY   2011-03-17 12:33:00 128.17
```

edited Jul 1 '11 at 7:25



isomorphisms

543 4 9

answered Mar 17 '11 at 16:48




Joshua Ulrich

1,366 10 16

Thank you for your answer. I'm quite new here at stackexchange. How can I move my question to SO? – Steven Mar 17 '11 at 19:45

@Steven: You're welcome. I'm not sure how to move questions; I think moderators can do it. – Joshua Ulrich Mar 18 '11 at 14:36

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in the late 1990s and which I have been maintaining in the [Perl](#) module [Yahoo-FinanceQuote](#) (which is of course also on [CPAN here](#)) for almost as long.

If you know a little R, the code should be self-explanatory. Getting documentation for the format string is a little trickier but e.g. the Perl module has some.

```
R> syms <- c("^GSPC", "^IXIC")
R> baseURL <- "http://download.finance.yahoo.com/d/quotes.csv?e=.csv&f="
R> formatURL <- "snl1d1t1c1p2va2bapomwerr1dyj1x"
R> endURL <- "&s="
R> url <- paste(baseURL, formatURL, endURL, paste(syms, collapse="+"), sep="")
R> read.csv(url, header=FALSE)
      V1          V2      V3      V4      V5 V6      V7
1 ^GSPC S&P 500 INDEX,RTH 1256.88 3/16/2011 4:04pm 0 0.00%
2 ^IXIC  NASDAQ Composite 2616.82 3/16/2011 5:30pm 0 0.00%
      V8 V9 V10 V11      V12      V13      V14
1 4282084608 0 N/A N/A 1256.88 1279.46 1249.05 - 1280.91
2          0 0 N/A N/A 2616.82      0.00      0.00 - 0.00
      V15 V16 V17 V18 V19 V20 V21      V22
1 1010.91 - 1344.07 N/A N/A N/A N/A N/A      SNP
2 2061.14 - 2840.51 N/A N/A N/A N/A N/A      NasdaqSC
R>
```

Column three is your last trade. During open market hours you will get fewer NAs and more data variability. But note though that most prices are 15 or 20 minute delayed---but some indices are real-time. Real-time data is a big business and major revenue for exchanges so they tend not to give it away. Also, and if I remember correctly, the newer and more real-time displays on the Finance pages at Google and Yahoo use something more AJAXy that is harder to milk from the outside.

answered Mar 17 '11 at 12:29



Dirk Eddelbuettel

8,162 2 25 42

this didn't work for me today, I haven't been able to download the composite Nasdaq index going back to before 2001, from my usual data sources (Quandl and quantmod) for some reason, and was looking for alternatives. – PatrickT Oct 27 '15 at 11:34

#### 4 Here's a little function I wrote to gather and chart "pseudo-real time" data from yahoo:

votes



```
require(quantmod)
Times <- NULL
Prices <- NULL
while(1) {

  tryCatch({
    #Load current quote
    Year <- 1970
    currentYear <- as.numeric(format(Sys.time(), '%Y'))
    while (Year != currentYear) { #Sometimes yahoo returns bad quotes
      currentQuote <- getQuote('SPY')
      Year <- as.numeric(format(currentQuote['Trade Time'], '%Y'))
    }

    #Add current quote to the dataset
    if (is.null(Times)) {
      Times <- Sys.time()-15*60 #Quotes are delayed 15 minutes
      Prices <- currentQuote['Last']
    } else {
      Times <- c(Times, Sys.time())
      Prices <- rbind(Prices, currentQuote['Last'])
    }

    #Convert to 1-minute bars
    Data <- xts(Prices, order.by=Times)
    Data <- na.omit(to.minutes(Data, indexAt='endof'))

    #Plot the data when we have enough
    if (nrow(Data)>5) {
      chartSeries(Data, theme='white', TA='addRSI(n=5);addBBands(n=5)')
    }

    #Wait 1 second to avoid overwhelming the server
    Sys.sleep(1)

    #On errors, sleep 10 seconds and hope it goes away
  }, error=function(e) {print(e); Sys.sleep(10)})
}
```

It produces charts like this:



You can also use the data for other purposes.

answered Jan 5 '12 at 2:08



**Zach**

21.1k 14 104 153

Thank you for this script, However I'm getting a silly problem with a "}" I can't run it :( – user56636 Sep 29 '14 at 11:26

@acabahe It still runs fine for me. Make sure you grab everything from `require(quantmod)` to the trailing `}` all by itself on the last line. You'll need to wait at least 5 minutes before you'll see a graph show up. – Zach Sep 29 '14 at 18:25

-1

votes



```
library(quantmod)
getSymbols("LT.NS", src="yahoo")
```

answered Mar 1 '16 at 17:19



user107070

1

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