

Downloading Yahoo Financial Data Sets

History:

In the past, Yahoo Finance allowed users to automate downloads of stock data freely.

With the advent of paid data services, Yahoo has unfortunately decided to disable automated downloads.

However, manual downloads of data are still possible, and the files in this folder can be used to accomplish this task.

This README file illustrates the steps

Note that “ETF” means “Exchange Traded Fund”

Yahoo Finance (Illustrated with SPY ETF):

<https://finance.yahoo.com/quote/SPY?ltr=1>

Click Here

The screenshot displays the Yahoo Finance interface for the SPDR S&P 500 ETF (SPY). At the top, there is a search bar and navigation links for various market categories. Below this, a row of market indicators shows the S&P 500, Dow 30, Nasdaq, Russell 2000, and Crude Oil with their respective prices and percentage changes. The main section features the SPY ETF's current price of 291.25, a daily change of +0.34 (+0.12%), and a bid-ask spread of 291.40 x 3100. A line chart shows the price movement throughout the day, with a peak around 10 AM and a low around 2 PM. To the left of the chart is a table of key financial metrics, and to the right is a promotional banner for the Yahoo Finance All Markets Summit.

YAHOO! FINANCE Search for news, symbols or companies

Finance Home Watchlists My Portfolio My Screeners Markets Industries Personal Finance Tech Videos Reporters

(US Markets are closed)

S&P 500 2,907.95 +3.64 (+0.13%)

Dow 30 26,405.76 +158.80 (+0.61%)

Nasdaq 7,950.04 -6.07 (-0.08%)

Russell 2000 1,702.93 -8.04 (-0.47%)

Crude Oil 71.44 +1.59 (+2.28%)

SPDR S&P 500 ETF (SPY)

291.25 +0.34 (+0.12%) **291.40** +0.18 (0.06%)

At close: 4:00PM EDT After hours: 5:51PM EDT

Summary Chart Conversations Historical Data Profile Options Holdings Performance Risk

Previous Close	290.91	Net Assets	274.95B
Open	290.97	NAV	290.30
Bid	291.40 x 3100	PE Ratio (TTM)	N/A
Ask	291.41 x 1800	Yield	1.70%
Day's Range	290.83 - 291.69	YTD Return	9.71%
52 Week Range	248.08 - 291.74	Beta (3y)	1.00
Volume	43,052,765	Expense Ratio (net)	0.09%
Avg. Volume	62,570,540	Inception Date	1993-01-22

Trade prices are not sourced from all markets

1D 5D 1M 6M YTD 1Y 5Y Max

291.80
291.433
291.25
291.067
290.91
290.70

10 AM 12 PM 2 PM 4 PM

Get live quotes and news on new tabs

YAHOO! FINANCE **ALL MARKETS SUMMIT**
SEPT 20TH — NYC — 9AM-5PM ET
CATHY ENGELBERT
CEO, Deloitte

US Markets are closed

S&P 500
2,907.95
+3.64 (+0.13%)



Dow 30
26,405.76
+158.80 (+0.61%)



Nasdaq
7,950.04
-6.07 (-0.08%)



Russell 2000
1,702.93
-8.04 (-0.47%)



Crude Oil
71.44
+1.59 (+2.28%)



Gold
1,208.70
+5.80 (+0.48%)



SPDR S&P 500 ETF (SPY)

NYSEArca - Nasdaq Real Time Price. Currency in USD

Add to watchlist

291.22 +0.34 (+0.12%) 291.38 +0.18 (0.06%)

At close: 4:00PM EDT

After hours: 5:55PM EDT

Buy

Sell

Quote Lookup



Summary Chart Conversations **Historical Data** Profile Options Holdings Performance Risk

Time Period: Sep 19, 2017 - Sep 19, 2018

Show: Historical Prices

Frequency: Daily

Apply

Get live quotes and news on new tabs

Currency in USD

Date	Open	High	Low	Close*	Adj Close**	Volume
Sep 19, 2018	290.97	291.69	290.83	291.25	291.25	43,052,765
Sep 18, 2018	289.58	291.58	289.55	290.91	290.91	61,865,000
Sep 17, 2018	290.82	290.86	289.03	289.34	289.34	68,244,000
Sep 14, 2018	291.06	291.27	290.00	290.88	290.88	55,079,900
Sep 13, 2018	290.32	291.04	290.00	290.83	290.83	51,034,200
Sep 12, 2018	289.06	289.80	288.23	289.12	289.12	59,810,800
Sep 11, 2018	287.37	289.55	286.98	289.05	289.05	50,530,500
Sep 10, 2018	288.74	289.04	287.88	288.10	288.10	50,210,900

Download Data



Set the date range here

Next, click on "Apply"

Finally, click on "Download Data"

In a text editor, the file looks like this:

```
~/Desktop/SPY.csv
1 Date,Open,High,Low,Close,Adj·Close,Volume
2 2018-08-20,285.570007,285.970001,285.059998,285.670013,285.670013,39807500
3 2018-08-21,286.250000,287.309998,285.709991,286.339996,286.339996,67272000
4 2018-08-22,285.880005,286.760010,285.579987,286.170013,286.170013,44993300
5 2018-08-23,285.970001,286.940002,285.429993,285.790009,285.790009,49204900
6 2018-08-24,286.440002,287.670013,286.380005,287.510010,287.510010,57487400
7 2018-08-27,288.859985,289.899994,288.679993,289.779999,289.779999,57072400
8 2018-08-28,290.299988,290.420013,289.399994,289.920013,289.920013,46943500
9 2018-08-29,290.160004,291.739990,289.890015,291.480011,291.480011,61485500
10 2018-08-30,290.940002,291.359985,289.630005,290.299988,290.299988,61229500
11 2018-08-31,289.839996,290.809998,289.290009,290.309998,290.309998,66140800
12 2018-09-04,289.839996,290.209991,288.679993,289.809998,289.809998,57594400
13 2018-09-05,289.410004,289.640015,287.890015,289.029999,289.029999,72452400
14 2018-09-06,289.149994,289.489990,287.000000,288.160004,288.160004,65909900
15 2018-09-07,286.980011,288.700012,286.709991,287.600006,287.600006,73524800
16 2018-09-10,288.739990,289.040009,287.880005,288.100006,288.100006,50210900
17 2018-09-11,287.369995,289.549988,286.980011,289.049988,289.049988,50530500
18 2018-09-12,289.059998,289.799988,288.230011,289.119995,289.119995,59810800
19 2018-09-13,290.320007,291.040009,290.000000,290.829987,290.829987,51034200
20 2018-09-14,291.059998,291.269989,290.880005,290.880005,290.880005,55079900
21 2018-09-17,290.820007,290.859985,289.029999,289.339996,289.339996,68244000
22 2018-09-18,289.579987,291.579987,289.549988,290.910004,290.910004,61865000
23 2018-09-19,290.970001,291.690002,290.825012,291.250000,291.250000,43052765
```

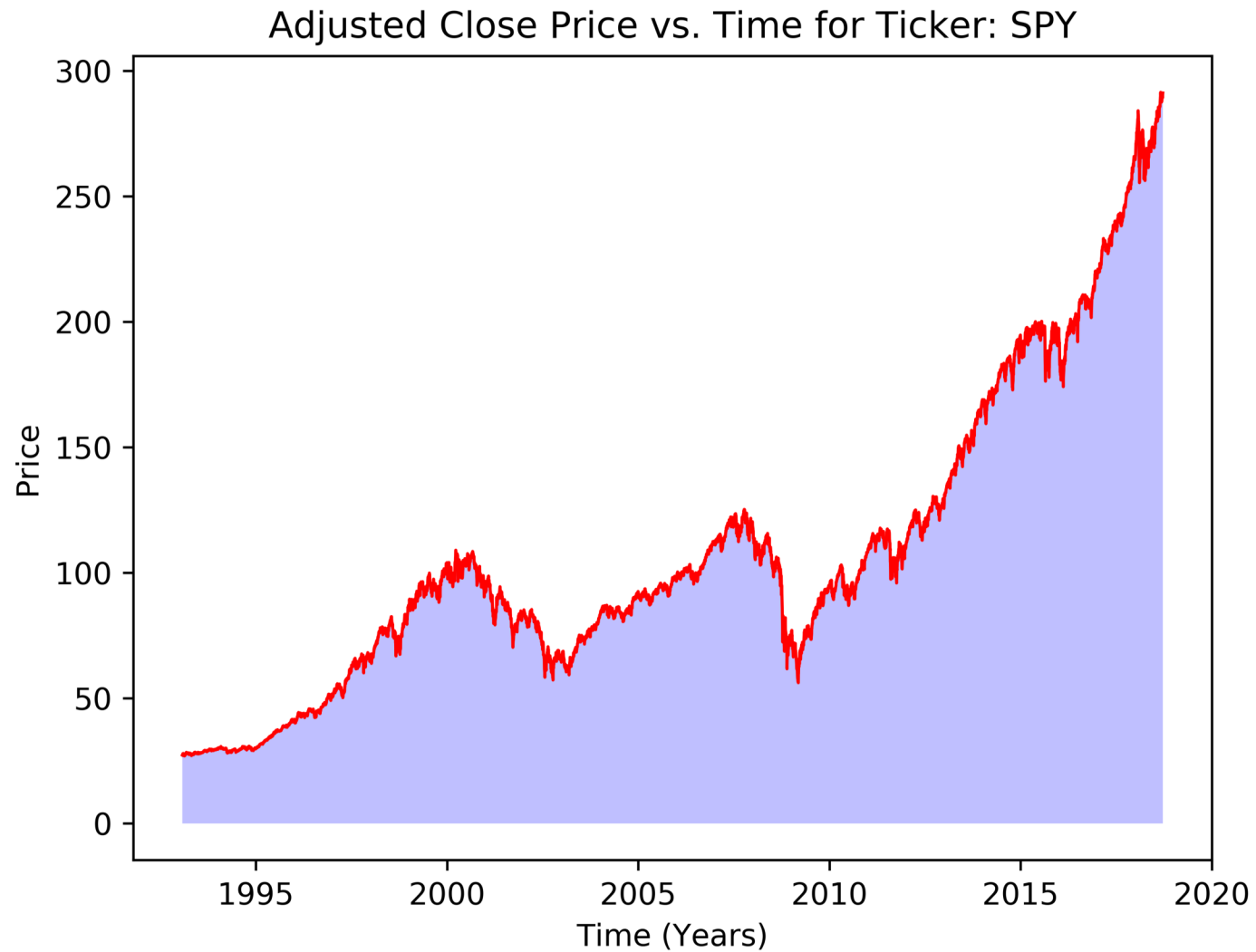
In Excel, the file looks like this:

	A	B	C	D	E	F	G
1	Date	Open	High	Low	Close	Adj Close	Volume
2	8/20/18	285.570007	285.970001	285.059998	285.670013	285.670013	39807500
3	8/21/18	286.25	287.309998	285.709991	286.339996	286.339996	67272000
4	8/22/18	285.880005	286.76001	285.579987	286.170013	286.170013	44993300
5	8/23/18	285.970001	286.940002	285.429993	285.790009	285.790009	49204900
6	8/24/18	286.440002	287.670013	286.380005	287.51001	287.51001	57487400
7	8/27/18	288.859985	289.899994	288.679993	289.779999	289.779999	57072400
8	8/28/18	290.299988	290.420013	289.399994	289.920013	289.920013	46943500
9	8/29/18	290.160004	291.73999	289.890015	291.480011	291.480011	61485500
10	8/30/18	290.940002	291.359985	289.630005	290.299988	290.299988	61229500
11	8/31/18	289.839996	290.809998	289.290009	290.309998	290.309998	66140800
12	9/4/18	289.839996	290.209991	288.679993	289.809998	289.809998	57594400
13	9/5/18	289.410004	289.640015	287.890015	289.029999	289.029999	72452400
14	9/6/18	289.149994	289.48999	287	288.160004	288.160004	65909900
15	9/7/18	286.980011	288.700012	286.709991	287.600006	287.600006	73524800
16	9/10/18	288.73999	289.040009	287.880005	288.100006	288.100006	50210900
17	9/11/18	287.369995	289.549988	286.980011	289.049988	289.049988	50530500
18	9/12/18	289.059998	289.799988	288.230011	289.119995	289.119995	59810800
19	9/13/18	290.320007	291.040009	290	290.829987	290.829987	51034200
20	9/14/18	291.059998	291.269989	290	290.880005	290.880005	55079900
21	9/17/18	290.820007	290.859985	289.029999	289.339996	289.339996	68244000
22	9/18/18	289.579987	291.579987	289.549988	290.910004	290.910004	61865000
23	9/19/18	290.970001	291.690002	290.825012	291.25	291.25	43052765

Workflow

- Download the stock/ETF data files that you want to use
- Example: SPY.csv is the SPY Exchange Traded Fund
- Pick 10 Stocks or ETFs that you want to analyze
- Download these .csv files
- Put the names of these stocks or ETFs into a file [Stocks_List.txt](#)
- Place the .csv files into the same folder as the [Stocks_List.txt](#) file and the python codes
- For plotting and analysis, either use the .csv files directly, or run the python code [Convert_Stock_Data.py](#) to convert the data into a text file format (if desired)

Example of a Time Series Plot



Example of a Daily Price Change Plot

