

# Stock-chart stocks and ETF analysis

<http://84.228.164.65:3000> URL Stock-chart on my home server

stock-chart is used to compare stocks and ETF in American stock market NYSE and NASDAQ

The tool is designed for long term investors.

The bench mark for comparison is QQQ etf, NASDAQ hi-tech average. User should hold only stocks that perform better than QQQ, or invest in QQQ. The columns: wk, mon, 3mon, yr, 2yr, 5yr, 10r shows the gain proportion.

A gain of 2, means the stock price doubled during that period. Other fields can be found on google.

## Raw data source

The tool gets the data from AlphVantage.co API. The user need to get his own <key> from AlphVantage.co site. The key should be entered at the bottom. Otherwise you are sharing my key.

Free key allows free 5 queries per minute and 500 per day .

## Credit

The tool was developed by Eli Shagam, Please send any bug report, or enhancement request to [eli.shagam@gmail.com](mailto:eli.shagam@gmail.com)

## usage and testing instructions

- Load URL to browser <http://84.228.164.65:3000>  
First time users, a sample list of stocks will be loaded .
- Press <firebaseGet> twice. To fail gain and info, which other user retrieved.  
The information may be old. Check the columns info\_date & gain\_date
- Press <info> button, to bring overview data from AlphVantage.co (Not for ETF)
- Press <gain> button, to bring gain data from AlphVantage.co
- Pressing chart should also draw a chart.
- Delete a stock symbol
- Add a stock symbol
- Choose columns by selecting or deselecting check boxes at the top

- Sort a column by pressing the column title.
- Global Search/filter string.
- Persistence. close the browser tab, and reload again. verify same data.

- The chart at the bottom shows the last <chart> click.
- The chart uses Plotly library. It allows zooming, and revert zoom.

### Warning, Pitfall

Before relying on the tool, the user MUST compare the values with other providers like, google finance, or finance.yahoo.com

AlphaVantage.co ignores splits and reverse-splits, and provide nominal stock or ETF price.

The tool tries to guess splits by looking into sharp falls, or sharp rise.

The button <calc-splits> allows to by pass these calculations.

The guessed splits column, can be shown by checkbox <splits\_list.<

Purple chart means splits discovered, and chart and gain value manipulated.

## Used packages

The tool is built on top of JavaScript, React.JS library, react-table, Plotly, Redux, react-datepicker

## Stock crash (Deep fall) and recovery weeks analysis

The tool analyses stock drop during market crash or correction, and checks how many weeks it took to recover stock price.

Steps:

- Choose a date, before the crash (Or big correction)
- Press the <gain> button of a stock.
- The tool turns on 2 related columns:
  - Drop: how low did the stock fell (0.7 means a drop of 30%)
  - Recover week: how many weeks it took to reach the pre correction stock price.

- Algorithm
  - Search for the lowest price
  - Search for highest price before correction
  - Search for recover duration in weeks
  - Calculate drop, and recovery duration.

Default date before market crash 5 Feb 2020. The tool

Turn on columns: Drop, RecoverWeek

Press <chart> for a few stocks.

The tool finds the Deep (Lowest value(

Then it searches for highest value before Drop

Then it searches week by week to find when stock recovered.