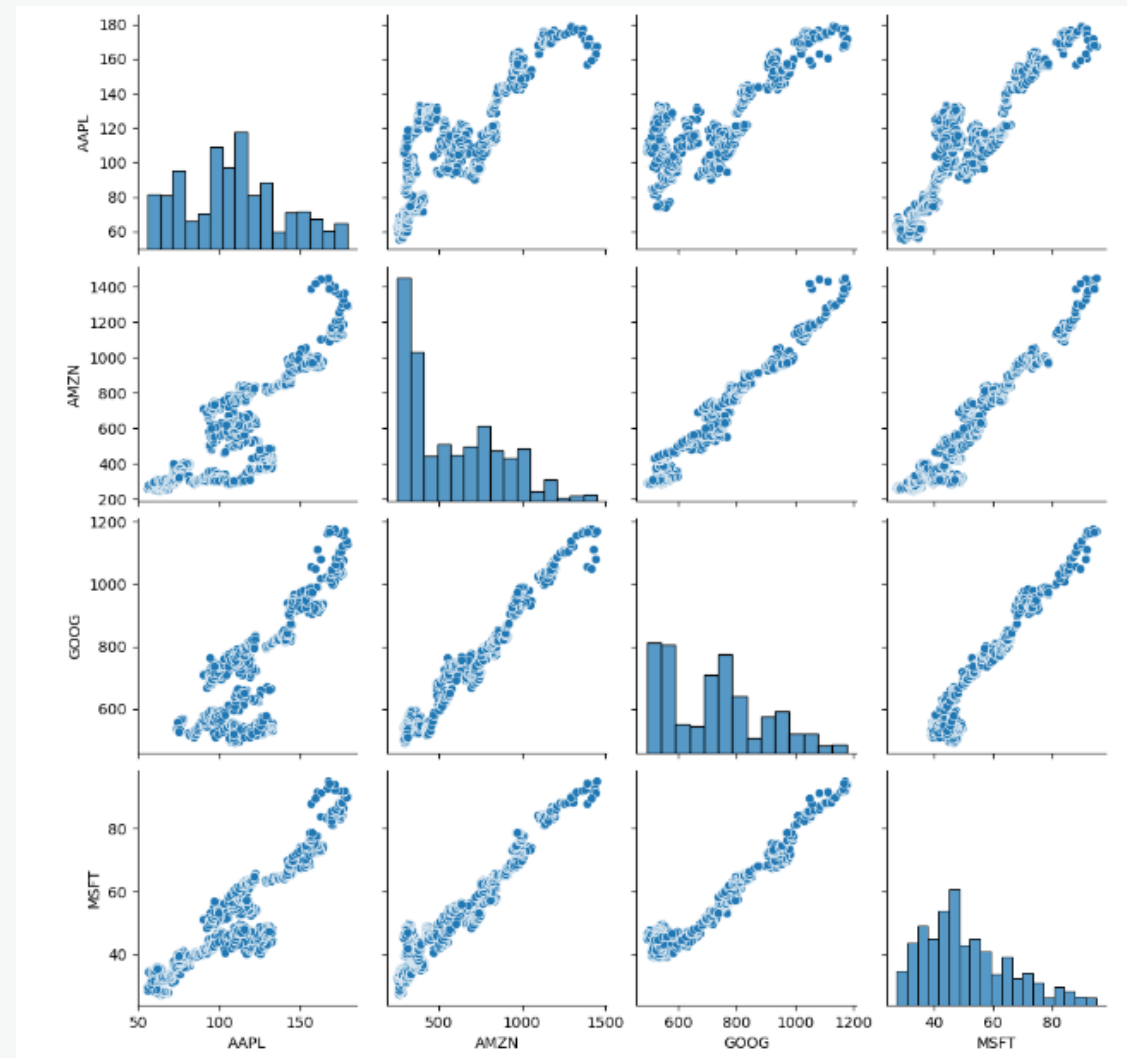


The background is a dark, blurred image of a stock market chart. A blue pen is visible in the upper right corner, pointing towards the chart. A large, light blue semi-circular arc is centered over the text. The chart itself shows various lines and numbers, including '2.5' and '2.47' on the right side.

# Time Series Stock Analysis

# Report Findings

- Investing in one of GOOG, MFST or AMZN yields near same return for period of 2013-2018.
- All companies experienced strong growth in this period.
- 200 MA is fairly accurate for long term trend support.



# Report Contents

Closing Price history  
for 2013-2018



Moving Average  
Analysis



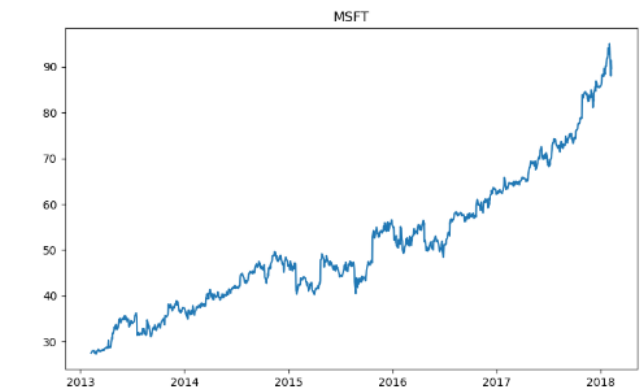
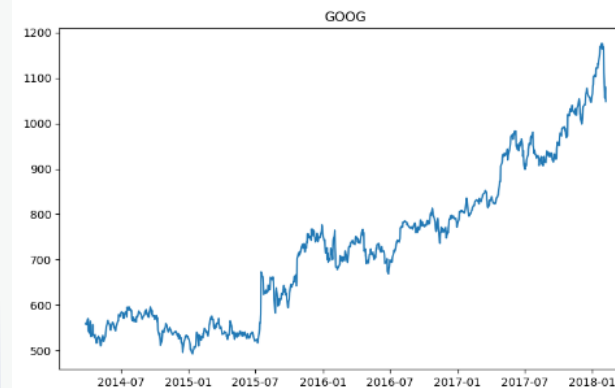
Daily Return %



Closing Price  
Correlation Analysis

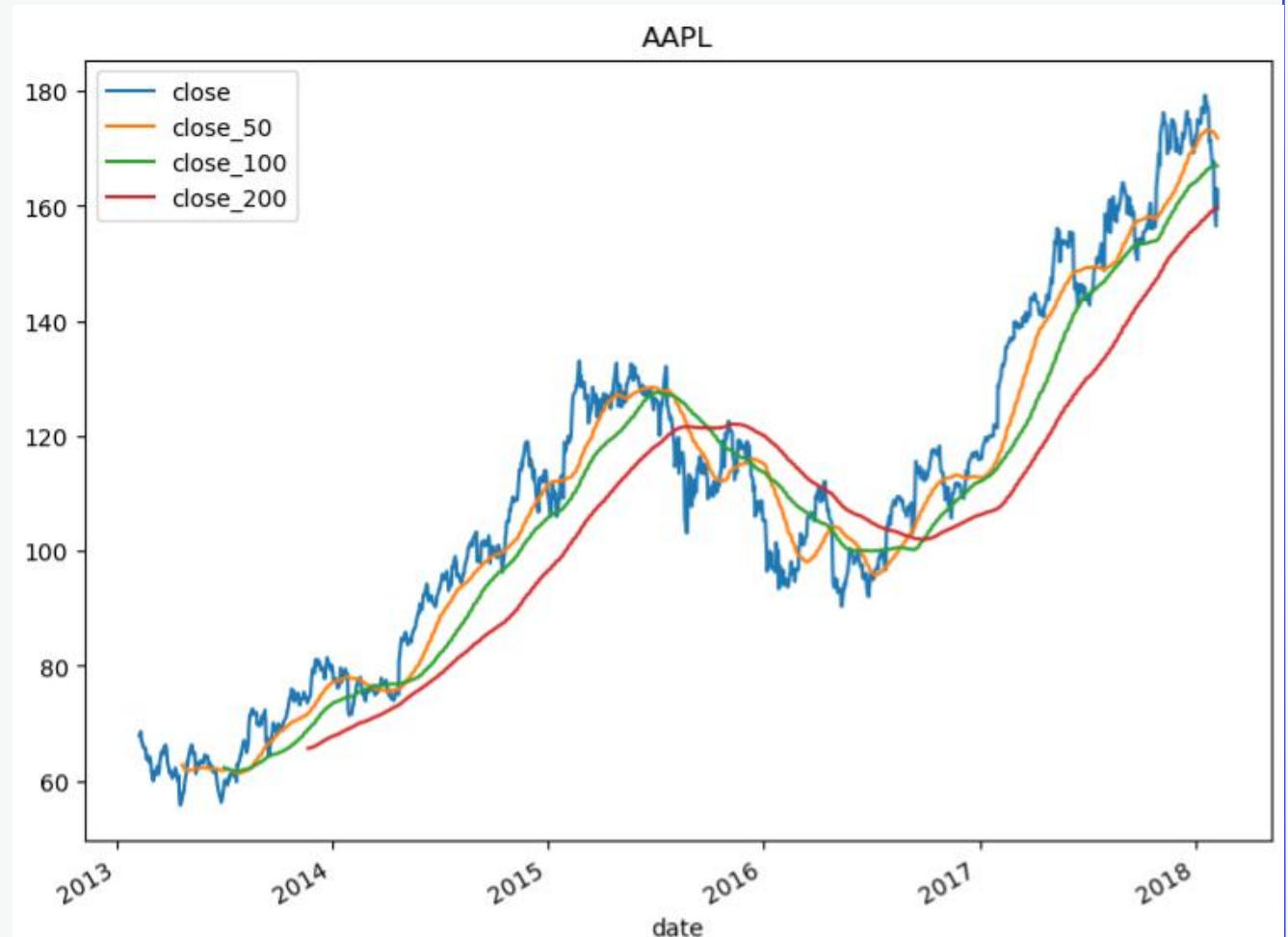
# Closing Price History

- Clear up trends for all companies.
- Notice only APPL has a significant downturn in 2015.



# Moving Average Analysis

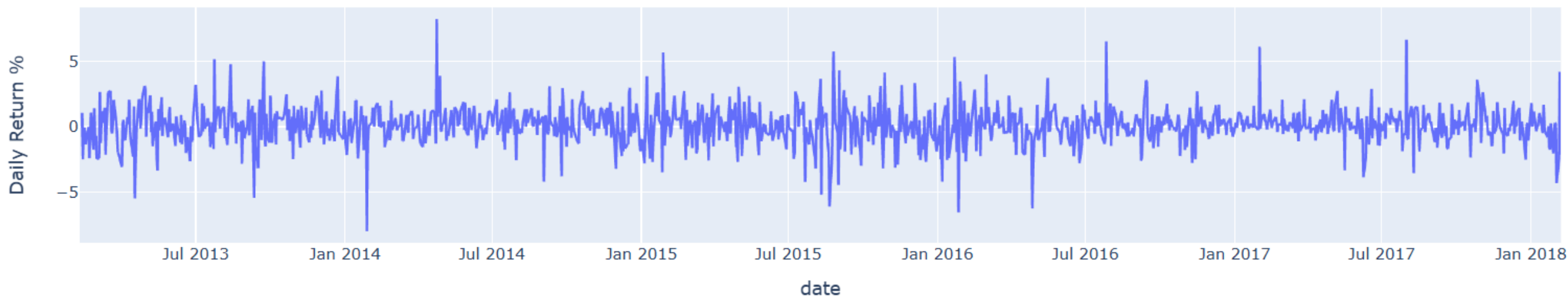
- 200 MA serves as a good support for long term trend. Breaking 200 MA indicates trend change.
- 100 MA serves as good support for the aggressive up trend phases.



# Daily Return %

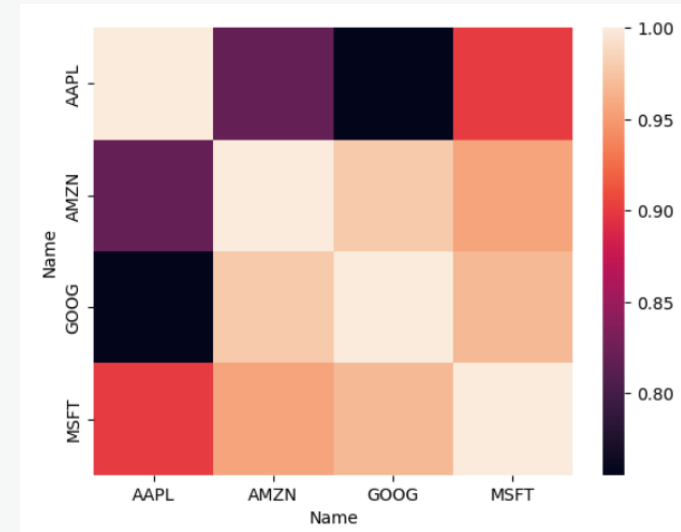
- Graph gives us a good indication of which periods have high fluctuations in price vs stagnant periods.
- Biggest spikes seem to happen around January, March or August

Apple Daily Return %



# Correlation Analysis

- GOOG and AMZN near perfect correlation.
- Indicates investing in one is same as investing in other.
- MSFT and GOOG also near perfect as well.
- Shows can invest in any of these 3 and yield same returns over this period.



Name	AAPL	AMZN	GOOG	MSFT
Name				
AAPL	1.000000	0.819078	0.755274	0.899689
AMZN	0.819078	1.000000	0.978721	0.955977
GOOG	0.755274	0.978721	1.000000	0.967981
MSFT	0.899689	0.955977	0.967981	1.000000