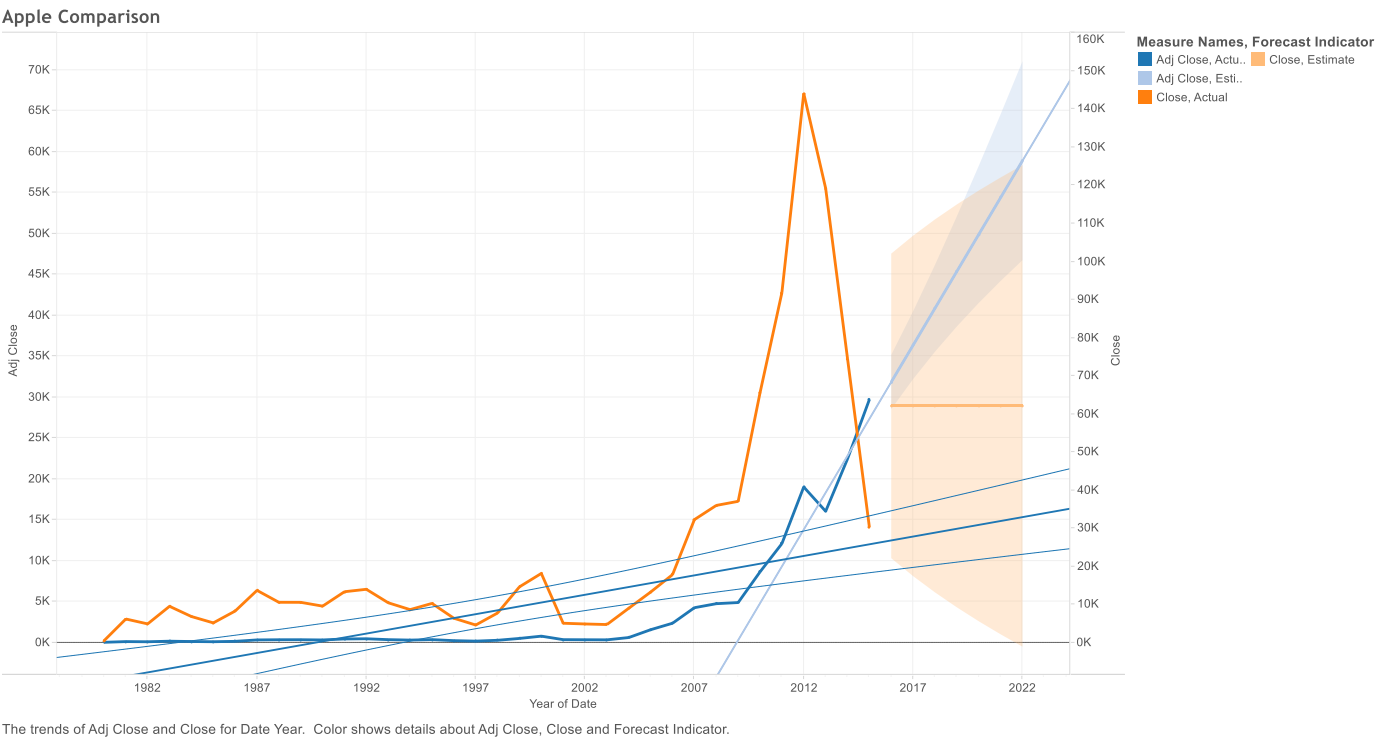
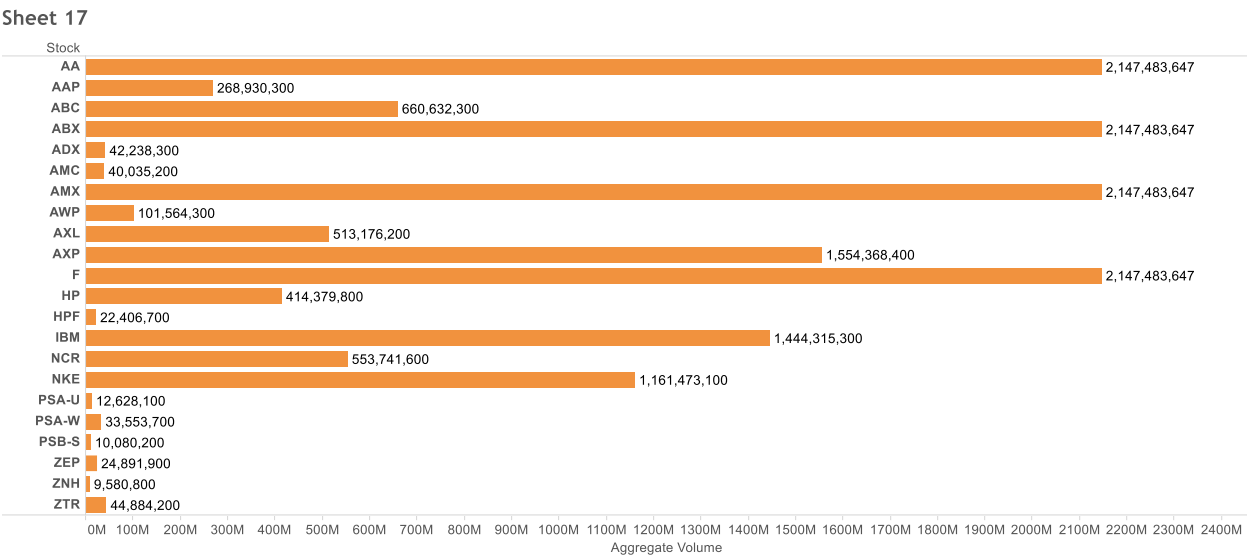


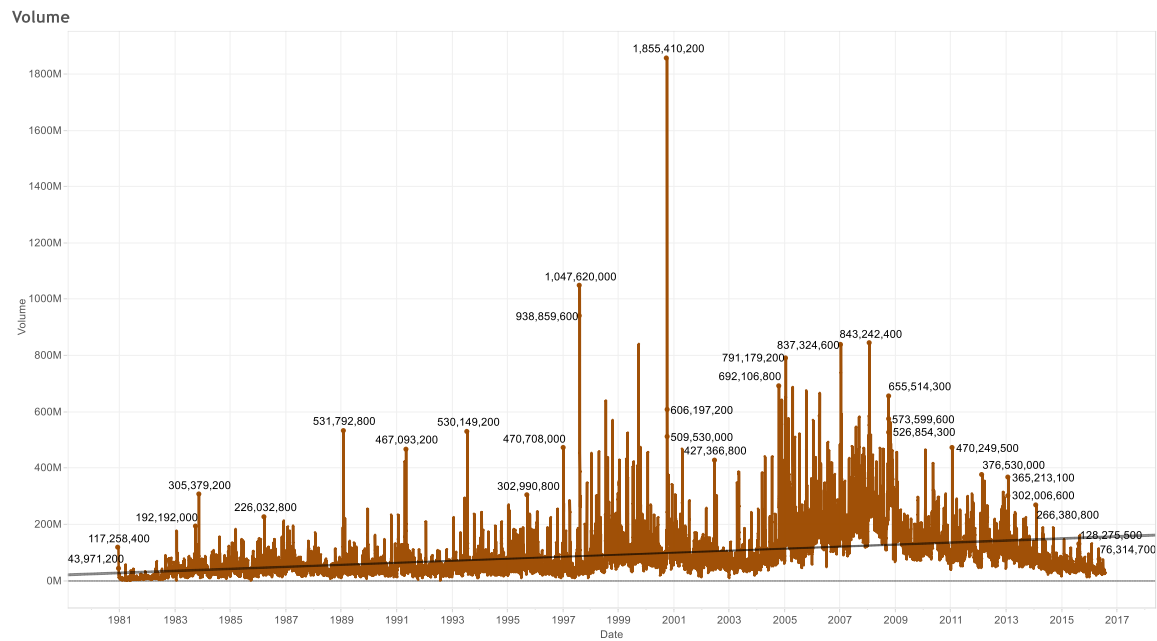
1. Apple stock Adj. Close price vs Close price



2. Computation of top stocks having maximum volumes using MapReduce-StockVolumeAggregate.java

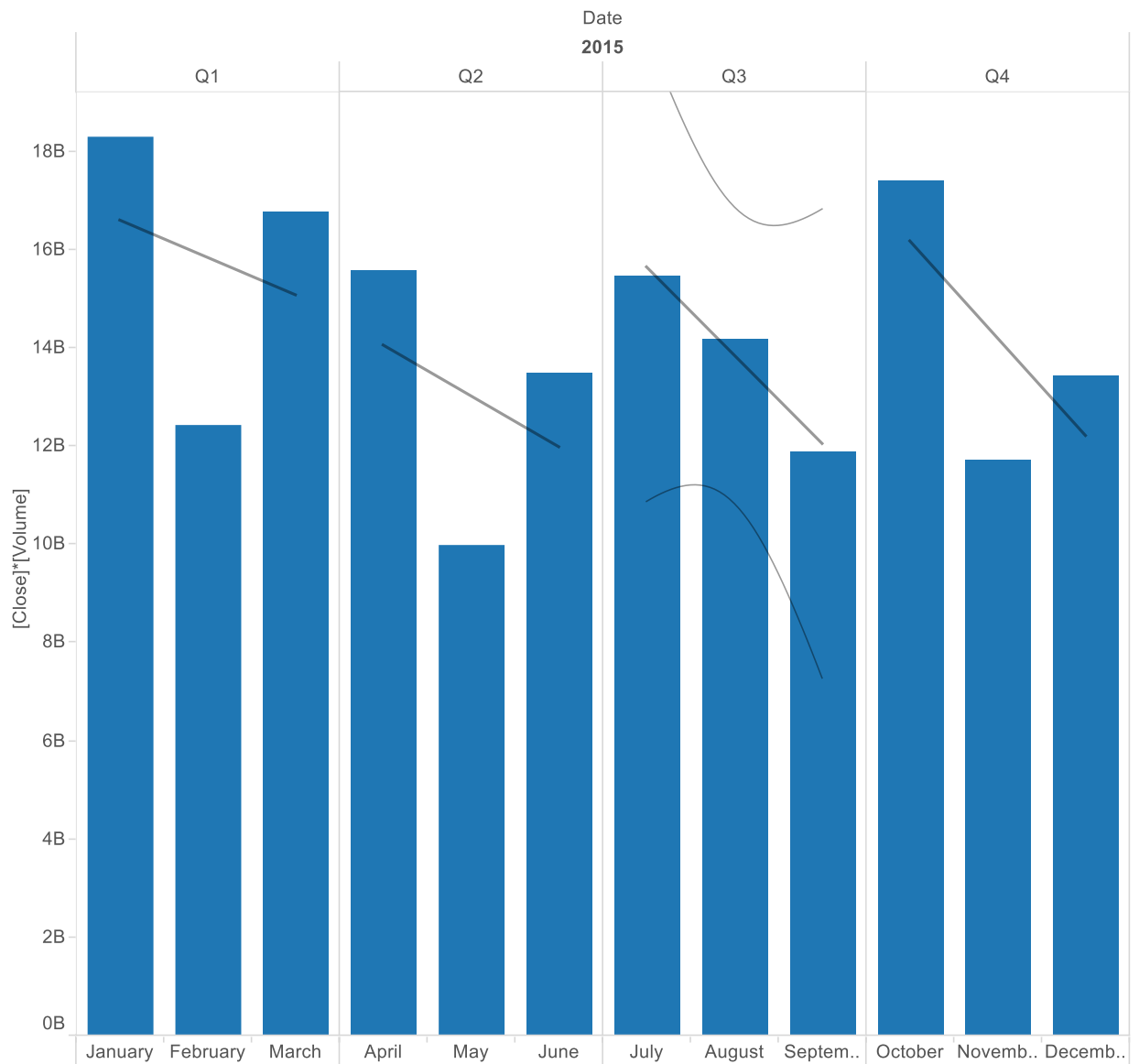


3. Total volumes traded in NYSE from 1981 to 2016 using the output of MapReduce StockVolumeAggregate.java



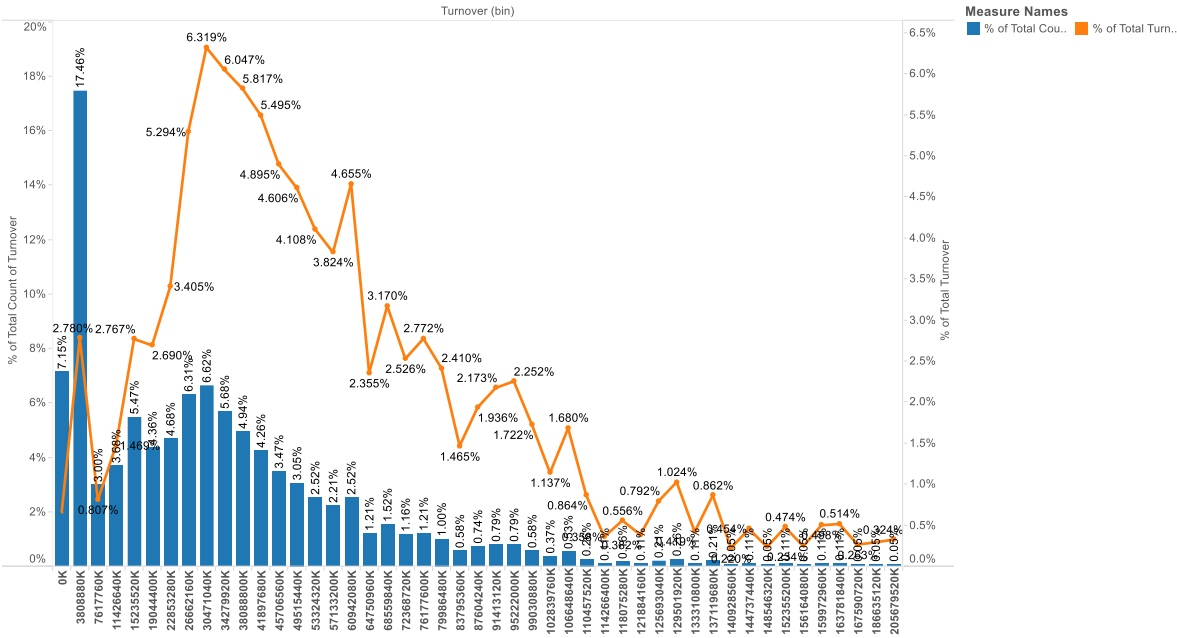
The trend of sum of Volume for Date.

4. IBM Stock 2015

IBM 2015

5. Histogram of Apple stock's turnover from 2009 to 2016 based on my Map Reduce code – Turnover Calculation.

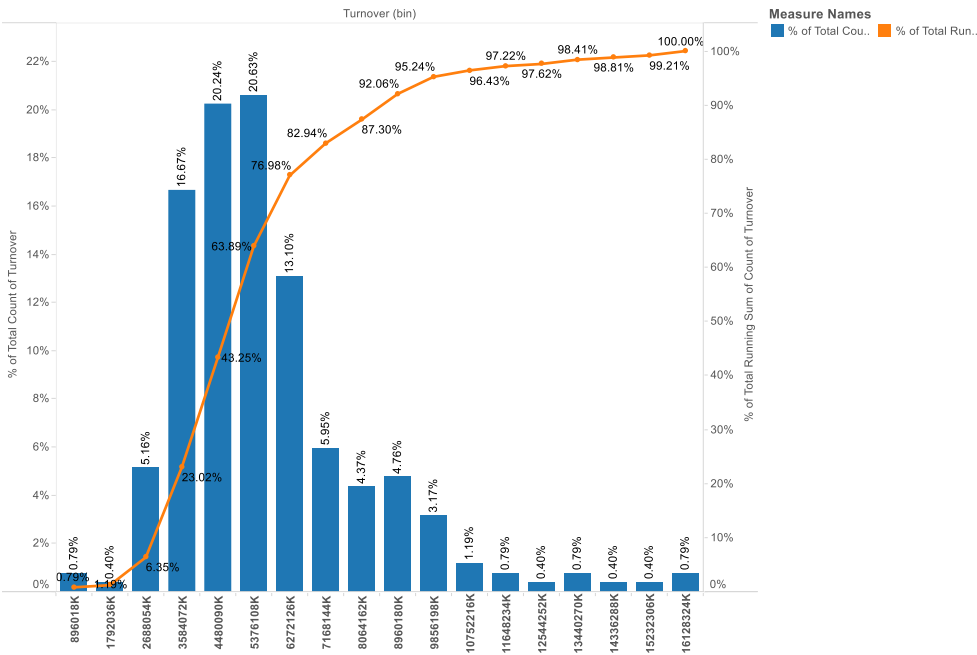
Output All



The trends of % of Total Count of Turnover along Table (Across) and % of Total Turnover along Table (Across) for Turnover (bin). Color shows details about % of Total Count of Turnover along Table (Across) and % of Total Turnover along Table (Across). The data is filtered on Date Year, which keeps

6. Apple's turnover for 2015

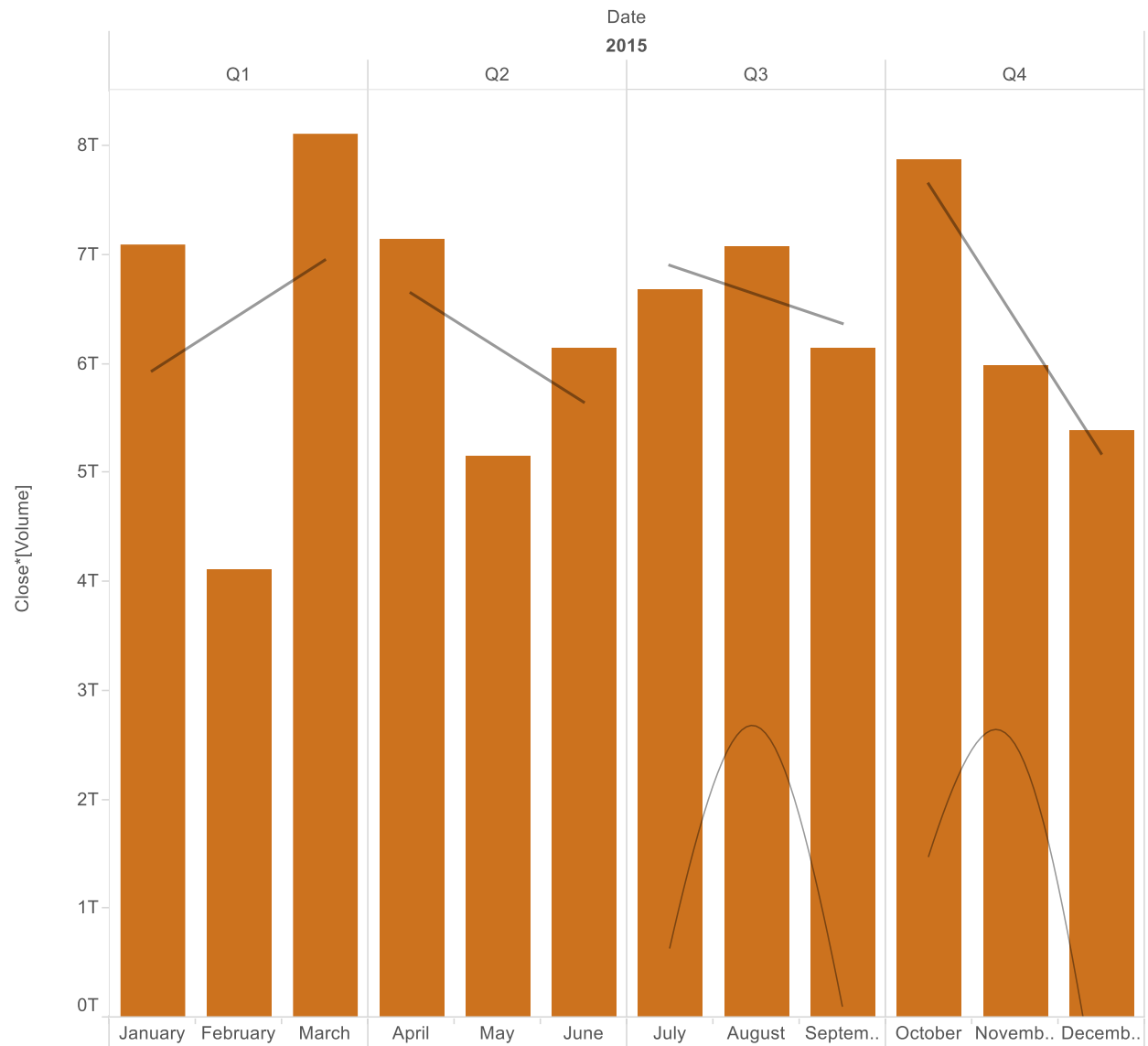
Turnover Histogram for 2015



The trends of % of Total Count of Turnover along Table (Across) and % of Total Running Sum of Count of Turnover along Table (Across) for Turnover (bin). Color shows details about % of Total Count of Turnover along Table (Across) and % of Total Running Sum of Count of Turnover along Table (Across). The view is filtered on % of Total Count of

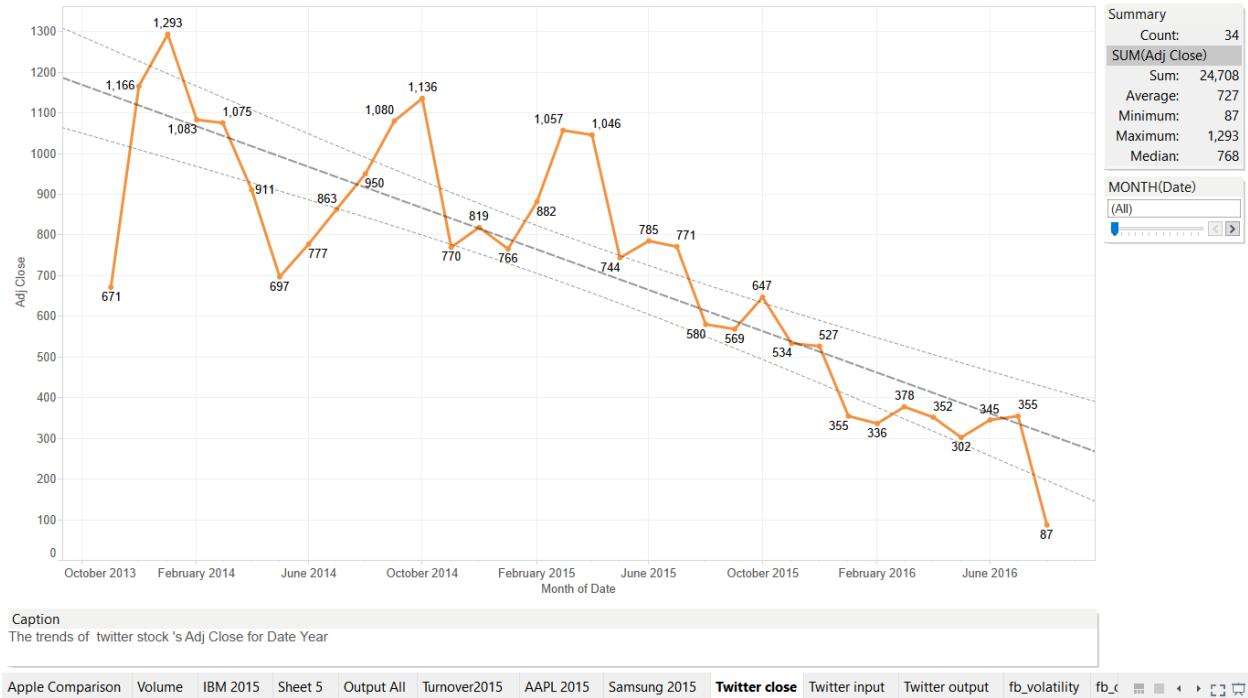
7. Samsung stock turnover (Close*Volume) for 2015

Samsung 2015



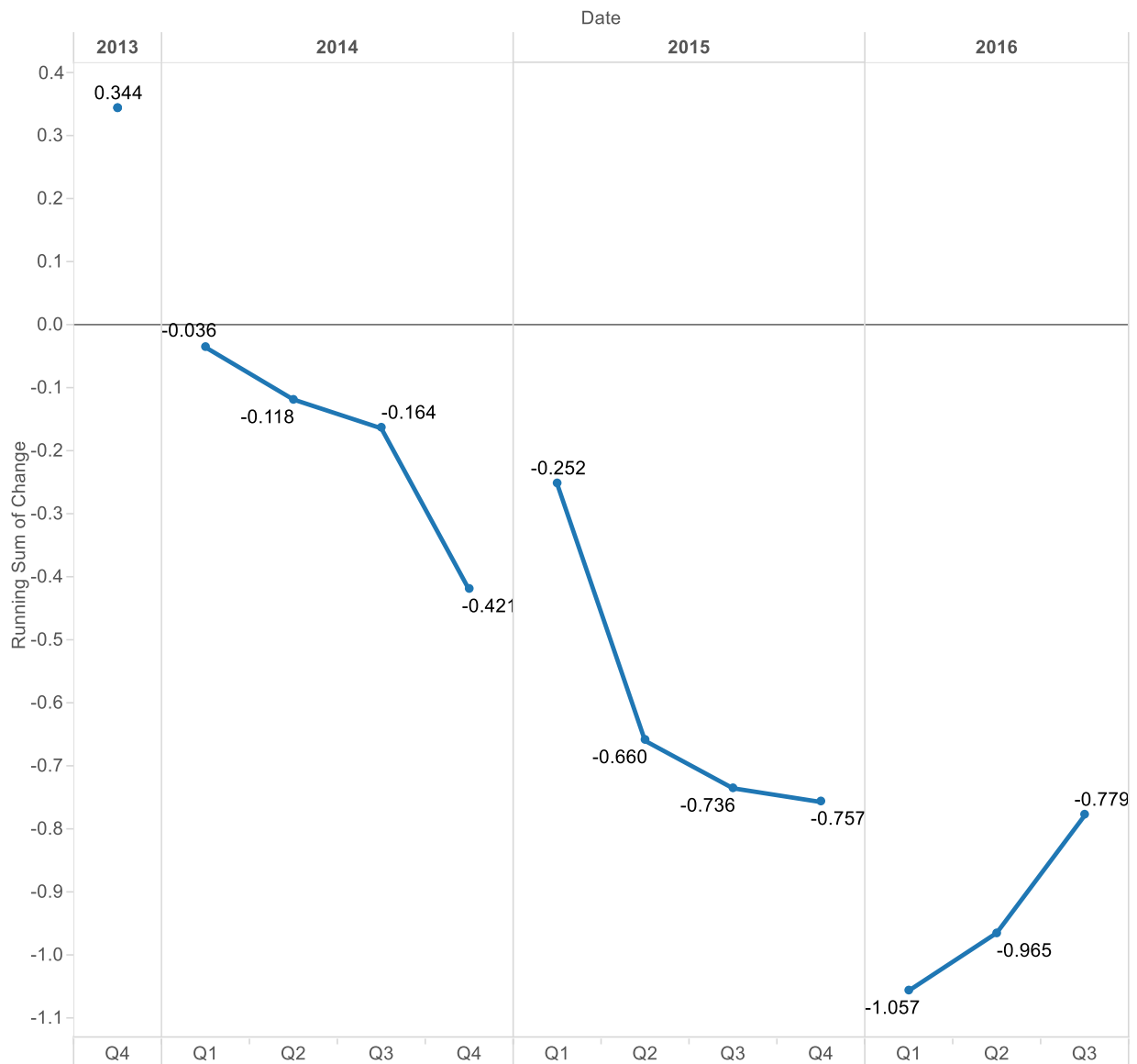
Sum of Close*[Volume] for each Date Month broken down by Date Year and Date Quarter. The view is filtered on Date Year, which keeps 2015.

8. Trends for twitter from 2012 to 2015 using adjusted close price.



9. Twitter's volatility prediction in tableau using output of MapReduce Code StockChange.java

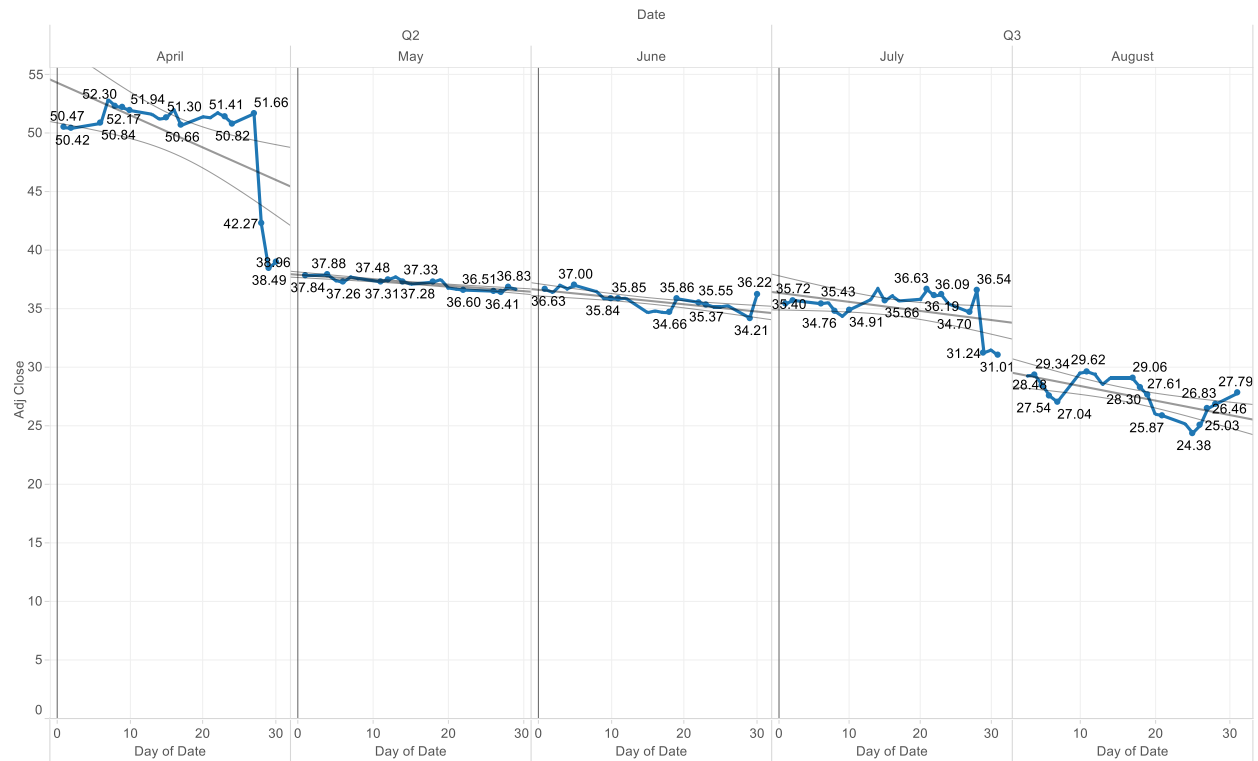
Twitter output



The trend of Running Sum of Change for Date Quarter broken down by Date Year. The view is filtered on Date Year, which keeps 2013, 2014, 2015 and 2016.

10. Twitter stock's volatility prediction in tableau:

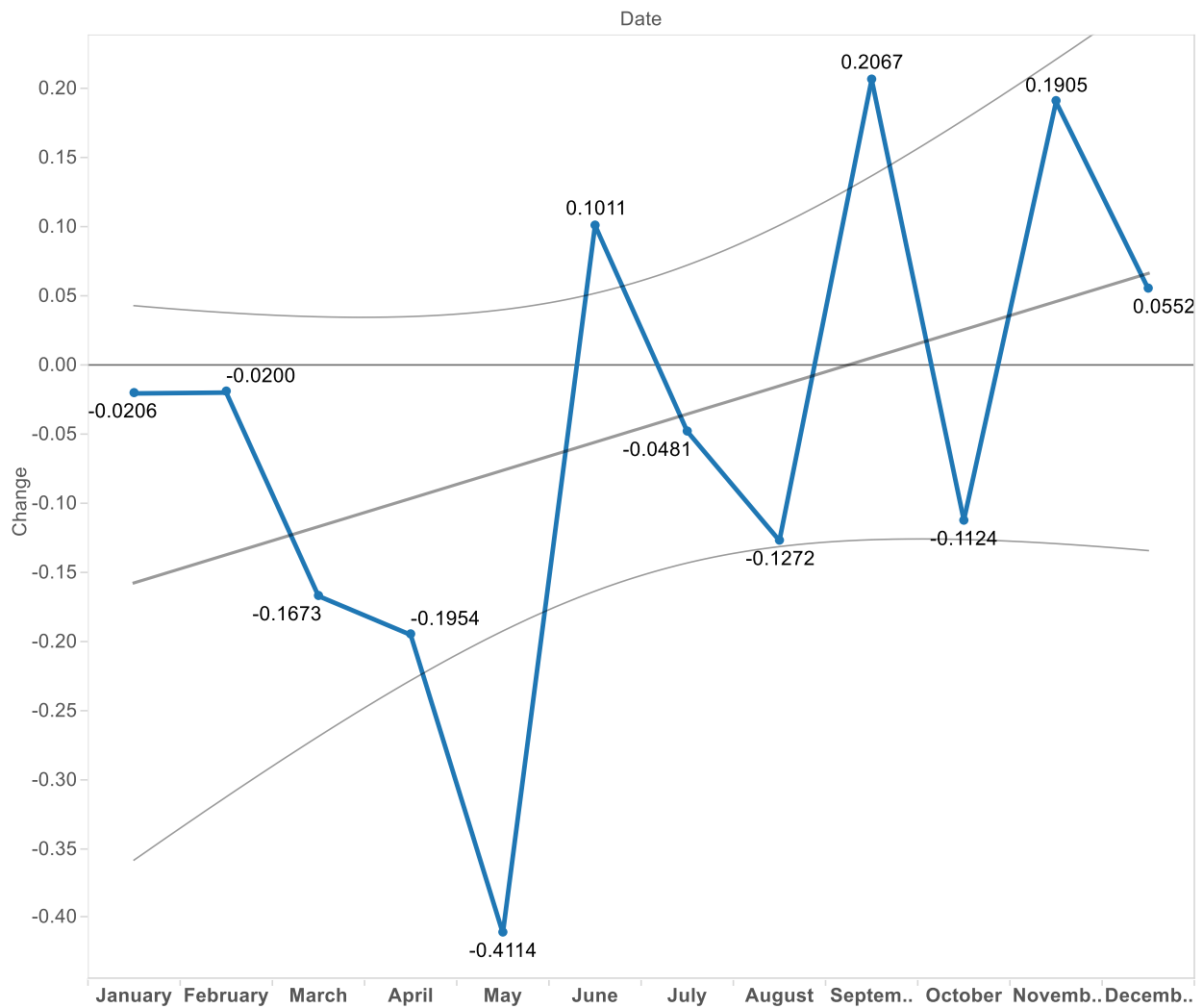
Twitter Volatility



The trend of sum of Adj Close for Date Day broken down by Date Quarter and Date Month. The data is filtered on Date Year, which keeps 2015. The view is filtered on Date Month, which keeps April, May, June, July and August.

11. Facebook output stock visualization using the output of MapReduce StockChange.java

Stock Change



The trend of sum of Change for Date Month. The data is filtered on Date Year, which keeps 2012, 2013, 2014, 2015 and 2016.