










Do Stocks Create News, or does the News Drive Stocks?

Team G08 - Wes Bailey, Trupti Abnave, Abubeker Abdullahi

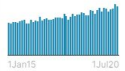






The Datasets

Historical Financial News Archive

kaggle

About this file									
This data represents the historical news archive for the last 12 years of the US equities publicly traded on NYSE/NASDAQ which still has a price higher than 10\$ per share									
id	ticker	title	category	content	release_date	provider	url	article_id	
Auto-incremented count of order when the item was collected	A ticker symbol or stock symbol is an abbreviation used to uniquely identify publicly traded shares of a particular stock on a	News headline	Type: news or analysis/opinion	News body	Date of news release, has no time of a day	Attribution to the content author. Name of a source of the content.	Link to the original source of the content.	Unique identifier of the article assigned by investing.com website	
 22151	 AAPL 9 MSFT 4 Other (193172) 87%	 215447 unique values	 opinion 57 news 43	 220097 unique values	 2020-01-15	 Zacks Investment ... 40 Reuters 25 Other (76341) 35%	 221512 unique values	 2868327	
221515	NDO	Why Shares of Chinese Electric Car Maker NIO are Flying High Today	news	What's a happening Shares of Chinese Electric car maker NIO NYSE NIO were sharply higher on Wednesday...	2020-01-15	The Motley Fool	https://invest.ly/pig/q1	2068327	

AMEX, NYSE, and NASDAQ Stocks Histories

< fh_5yrs.csv (712.34 MB)									
Detail Compact Column									
date	# volume	# open	# high	# low	# close	# adjclose	symbol		
 1Jan15 1Jul20	 1 2160	 0 69.2m	 0 70.6m	 0 68.4m	 0 69.5m	 -2.77 69m	6335 unique values		
2020-07-02	257500	17.639999389648438	17.739999771118164	17.6200008392334	17.709999084472656	17.709999084472656	AAAU		
2020-07-01	468100	17.729999542236328	17.729999542236328	17.540000915527347	17.68000030517578	17.68000030517578	AAAU		
2020-06-30	319100	17.649999618530273	17.799999237060547	17.610000610351562	17.780000686645508	17.780000686645508	AAAU		
2020-06-29	405500	17.670000076293945	17.690000534057614	17.6299991607666	17.68000030517578	17.68000030517578	AAAU		

The Idea Behind the Story

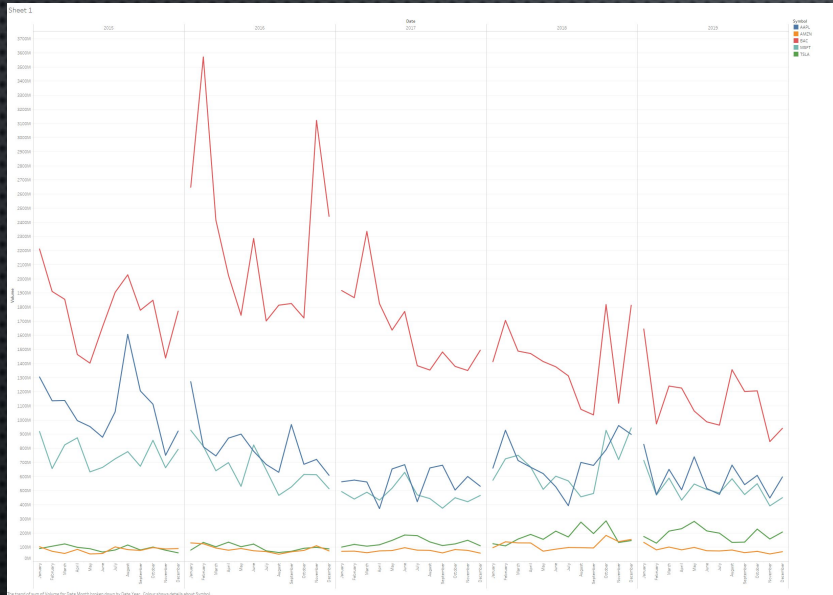
Sales volume in the stock market fluctuates constantly, and so does the news coverage.

How does stock trading correlate with the news and opinions in published media?

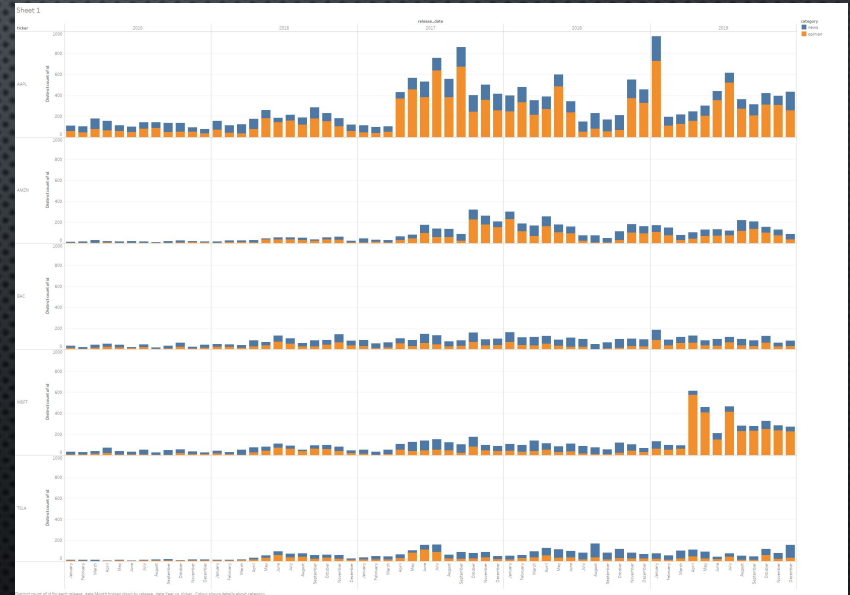


The Website

Still images showing the Tableau visualizations of the raw datasets.



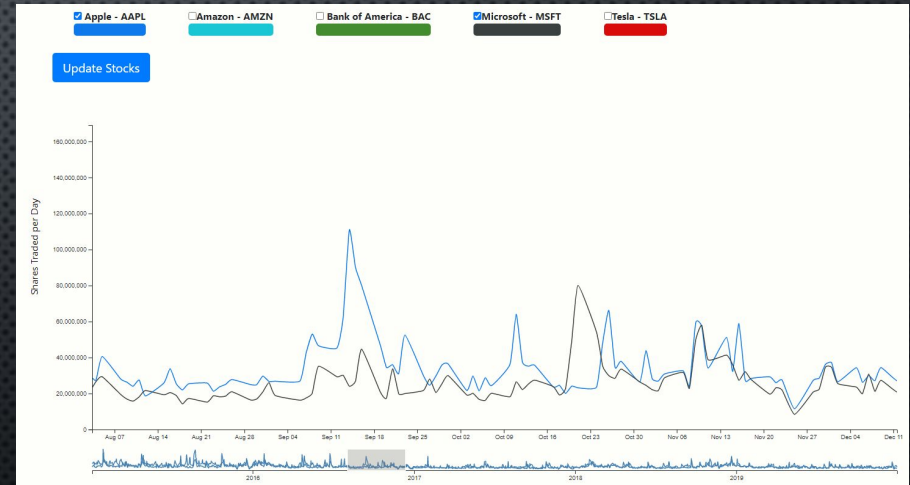
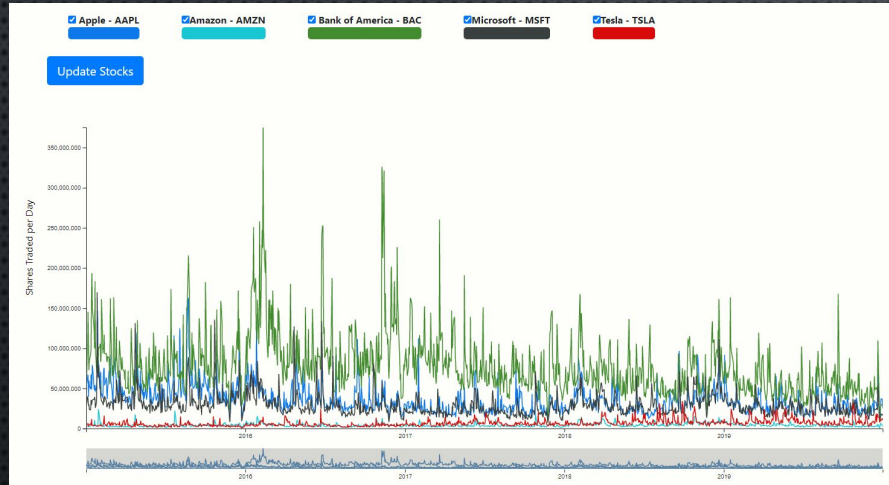
5 Most Active Trading Volume - 5 Years



5 Most News & Opinion Stories - 5 Years

The Website

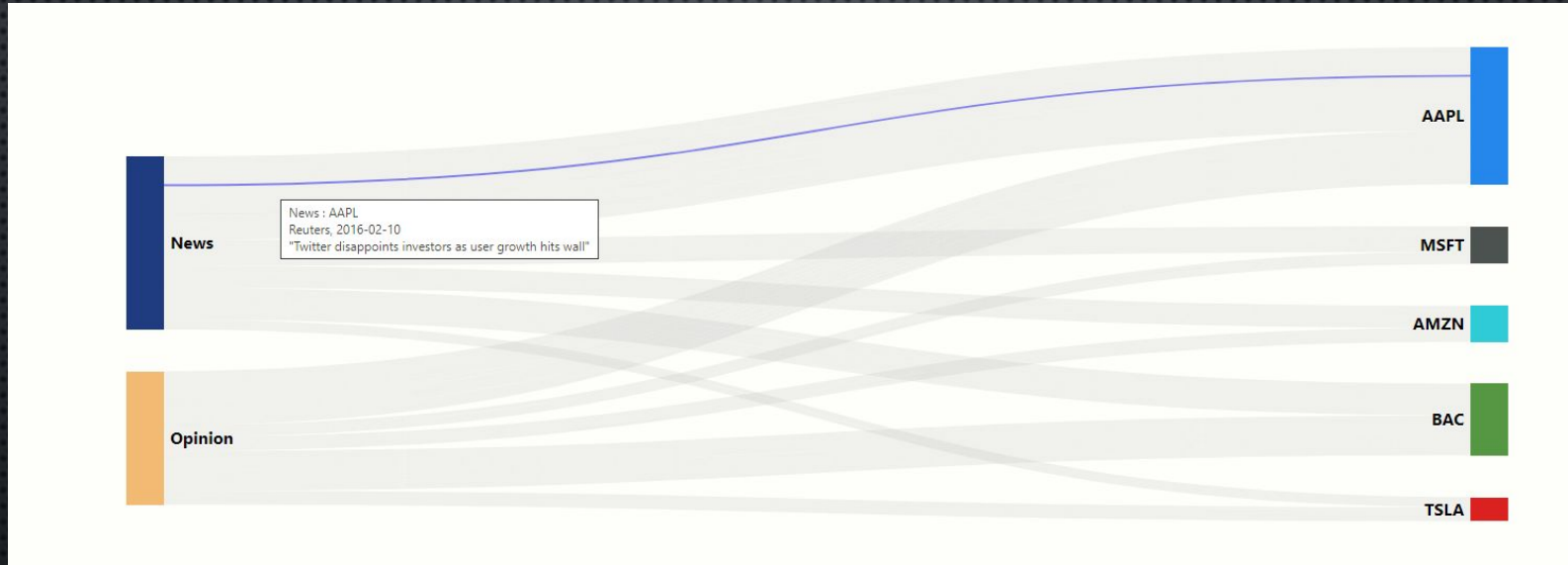
Interactive graph showing daily trading volume for 5 stocks over a 5 year period.



The data can be filtered by company (top checkboxes) or by date range (bottom bar).

The Website

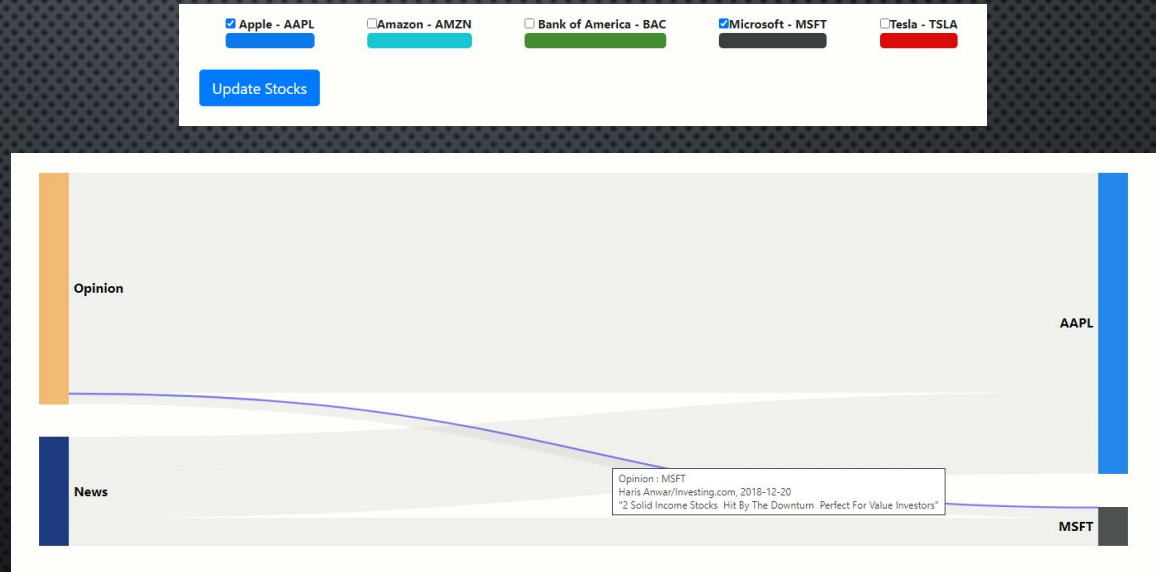
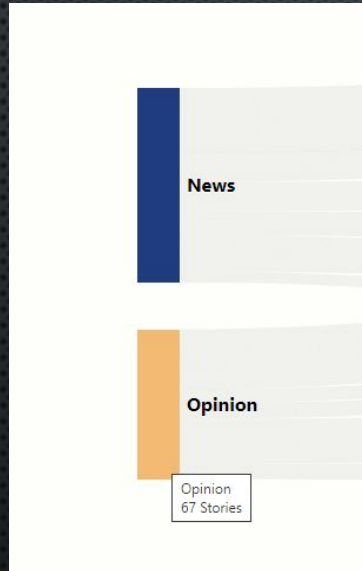
Interactive sankey chart is synchronized with stocks and time frame of stock trading graph.



When the user hovers their mouse over the chart, details are given about the story, and a link is provided to the original online article simply by clicking the chart.

The Website

Interactive sankey chart content is also filtered in conjunction with the stock trading graph.



Total story count is given when the user places the cursor over any end node.

Resources

Kaggle.com <https://www.kaggle.com>

AMEX, NYSE, and NASDAQ stocks histories

<https://www.kaggle.com/gks1lver/amex-nyse-nasdaq-stock-histories>

Historical financial news archive <https://www.kaggle.com/gennadiyr/us-equities-news-data>

Multiline chart <https://bl.ocks.org/LemoNode/a9dc1a454fdc80ff2a738a9990935e9d>

Brush & Zoom line chart <https://bl.ocks.org/EfratVil/92f894ac0ba265192411e73f633a3e2f>

Sankey Diagram with D3 v5

<https://bl.ocks.org/d3noob/5ba21a90a721cb19a47ff14c9513e43a>