CS 688 Project: Twitter Stock Project Analysis

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Stocks Chosen

Gainers:

- 1. AECOM (\$ACM)
- 2. Reta Pharmaceuticals, Inc. (\$RETA)
- 3. Shopify Inc. (\$SHOP)

Losers:

- 1. Parsley Energy, Inc. (\$PE)
- 2. SmileDirectClub, Inc. (\$SDC)
- 3. CrowdStrike Holdings, Inc. (\$CRWD)

- Cashtag was used to pull all tweets
 - Returned more tweets than using company name
- Stocks chosen based on how many tweets were available
 - Some of the top gainers/losers returned less than 10 tweets

Pre-processing Steps

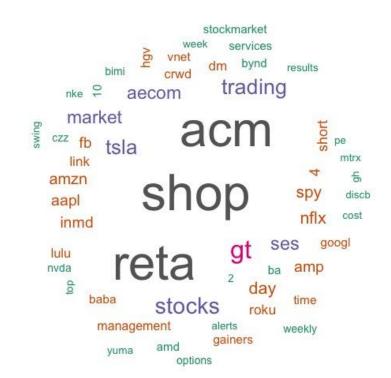
Pre-processing tweets executed in the following order:

- 1. Remove http elements
- Transform all words into lowercase
- 3. Remove punctuation
- 4. Remove English stop-words

Most Frequent: Gainers

Top 10 words:

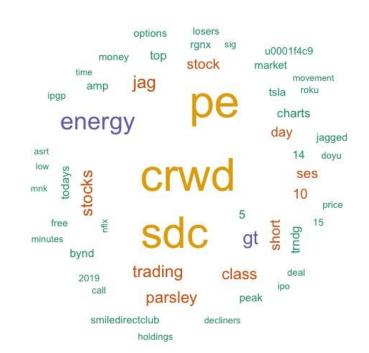
- 1. shop 33600
- 2. acm 32700
- 3. reta 32100
- 4. gt 14700
- 5. stocks 12600
- 6. trading 11400
- 7. tsla 10800
- 8. ses 9300
- 9. aecom 9000
- 10. market 9000



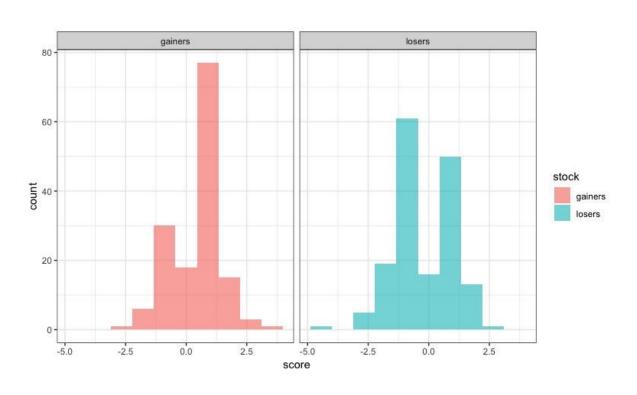
Most Frequent: Losers

Top 10 words:

- 1. crwd 38400
- 2. pe 38400
- 3. sdc 36600
- 4. energy 18000
- 5. gt 12900
- 6. jag 11400
- 7. trading 10500
- 8. stocks 10200
- 9. parsley 9900
- 10. class 9600



Sentiment Score: Visual comparison



Sentiment Score: Table Summary

Gainers:

- Count: 300
- Median: 1
- SD: 1.17
- Max: 4
- Min: -3

Losers:

- Count: 300
- Median: -1
- SD: 1.35
- Max: 3
- Min: -4

Extra Credit: Data Visualization

