GROUP 21: Elon Musk's Twitter Sentiment Analysis

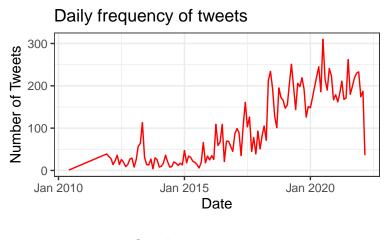
10892938; 10764009; 10887206; 10892109

2023 - 12 - 01

Read in the elonmusk.csv dataset

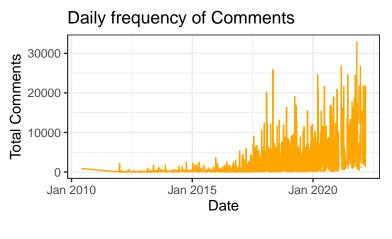
```
# Read in the data
tweets.df <- read_csv("elonmusk.csv")</pre>
dim(tweets.df)
## [1] 12206
                11
names(tweets.df)
    [1] "Tweet"
                          "UserScreenName" "UserName"
##
   [5] "text"
                                            "Comments"
##
                          "Emojis"
##
    [9] "Retweets"
                          "Image link"
                                            "Tweet URL"
```

THE DAILY FREQUENCY OF TWEETS



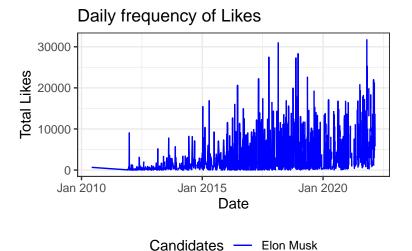
Candidates — Elon Musk

THE DAILY FREQUENCY OF COMMENTS

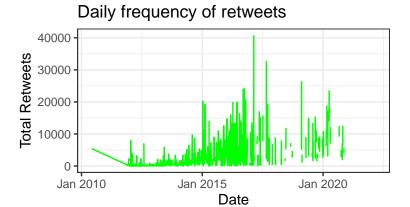


Candidates — Elon Musk

THE DAILY FREQUENCY OF LIKES



THE DAILY FREQUENCY OF RETWEETS



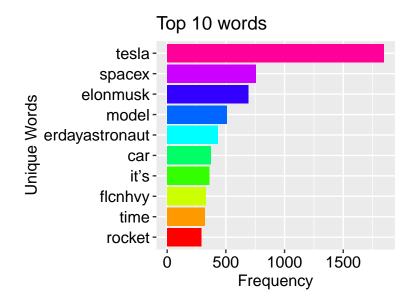
Candidates — Elon Musk

DATA CLEAN-UP

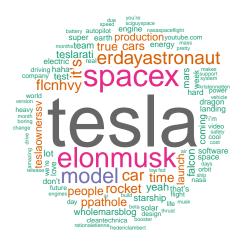
```
Elon_Musk_tweets <- en_tweets %>%
    filter(UserScreenName == "Elon Musk")
Elon_Musk_tweets_clean <- Elon_Musk_tweets %>%
    select(stripped_text) %>%
    mutate(tweetnumber = row_number()) %>%
    unnest_tokens(word, stripped_text)
knitr::kable(head(Elon_Musk_tweets_clean))
```

tweetnumber	word
1	please
1	ignore
1	prior
1	tweets
1	as
1	that

TOP TEN WORDS IN ELON MUSK'S TWEET

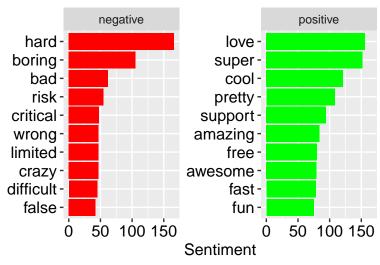


CREATE A WORDCLOUD



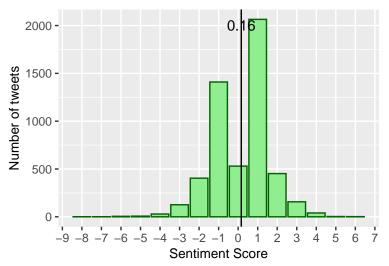
TOP POSITIVE AND NEGATIVE WORDS

Most common Positive and Negative words



SENTIMENT SCORE

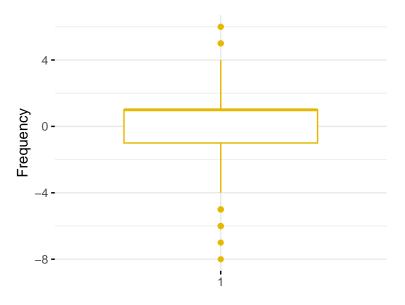




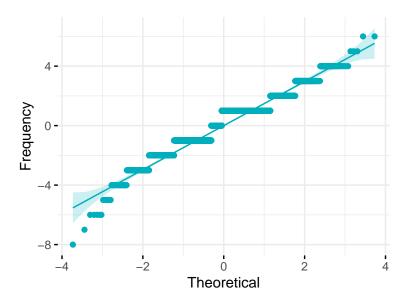
T.test of Elon Musk Tweets

```
##
##
    One Sample t-test
##
## data: Elon Musk sentiment$score
## t = 7.9492, df = 5231, p-value = 2.282e-15
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.1202358 0.1989538
## sample estimates:
## mean of x
## 0.1595948
## t.test p-value: 2.282138e-15
## t.test estimate: 0.1595948
## t.test confidence interval: 0.1202358 0.1989538
## Number of Observation: 5232
```

Visualize the Data Using Boxplot



Visual Inspection of the Data Normality



References

- Fuadi, A. M. F. (2023, November 26). Unveiling Sentiments in Elon Musk's Tweets: An Exploration through Sentiment Analysis and Text Mining. Medium. https://azharmfi.medium.com/unveiling-sentiments-in-elonmusks-tweets-a-data-driven-exploration-78ee2dee16b1
- ▶ RPubs Tweets on Elon Musk sentiment analysis. (2023, January 22).https: //rpubs.com/pruszynskam/Elon Musk sentiment analysis