M4A_Project

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```
## [1] 22077    19
```

```
## [1] 7224   19
```

```
## Loading required package: NLP
```

```
##
## Attaching package: 'NLP'
```

```
## The following object is masked from 'package:ggplot2':
##
##     annotate
```

```
## Warning in tm_map.SimpleCorpus(corpus, removePunctuation): transformation drops
## documents
```

```
## Warning in tm_map.SimpleCorpus(corpus, removeNumbers): transformation drops
## documents
```

```
## Warning in tm_map.SimpleCorpus(corpus, tolower): transformation drops documents
```

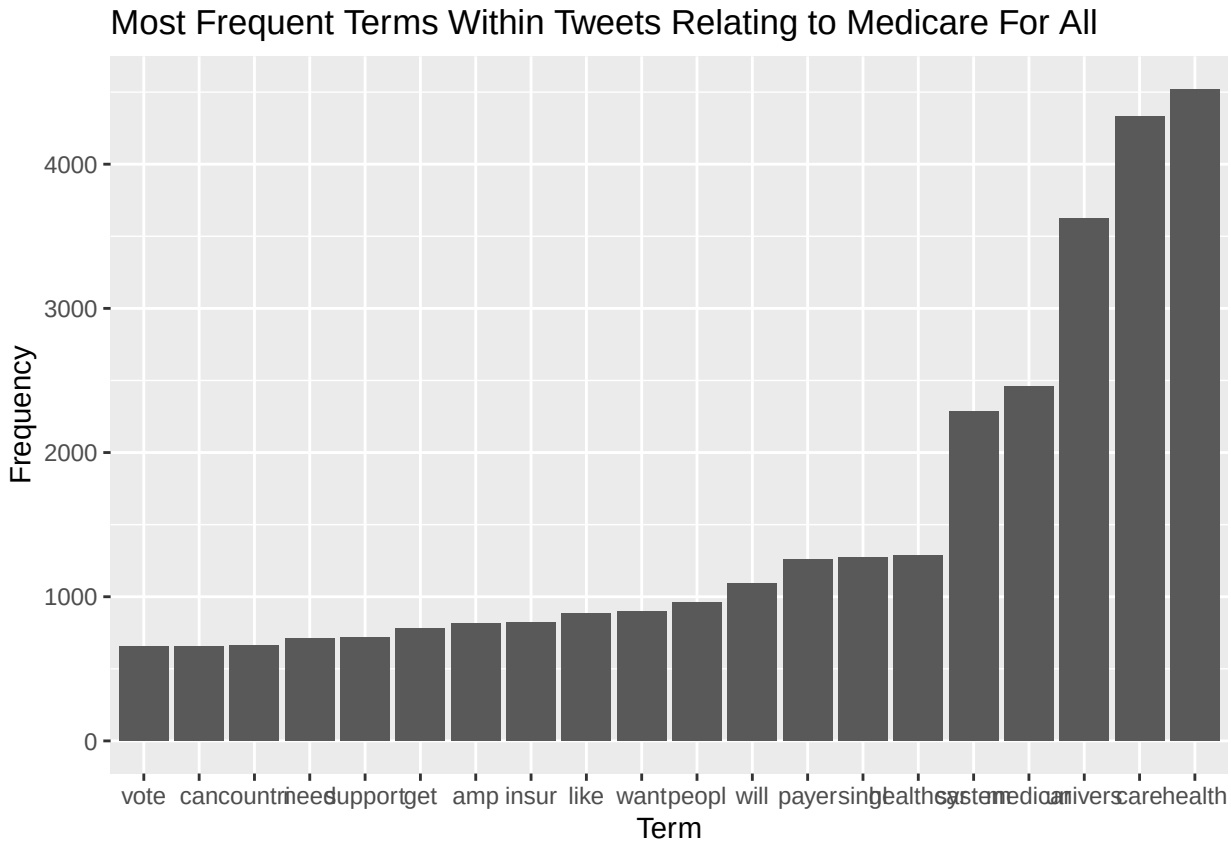
```
## Warning in tm_map.SimpleCorpus(corpus, removeWords, stopwords("english")):
## transformation drops documents
```

```
## Warning in tm_map.SimpleCorpus(corpus, stripWhitespace): transformation drops
## documents
```

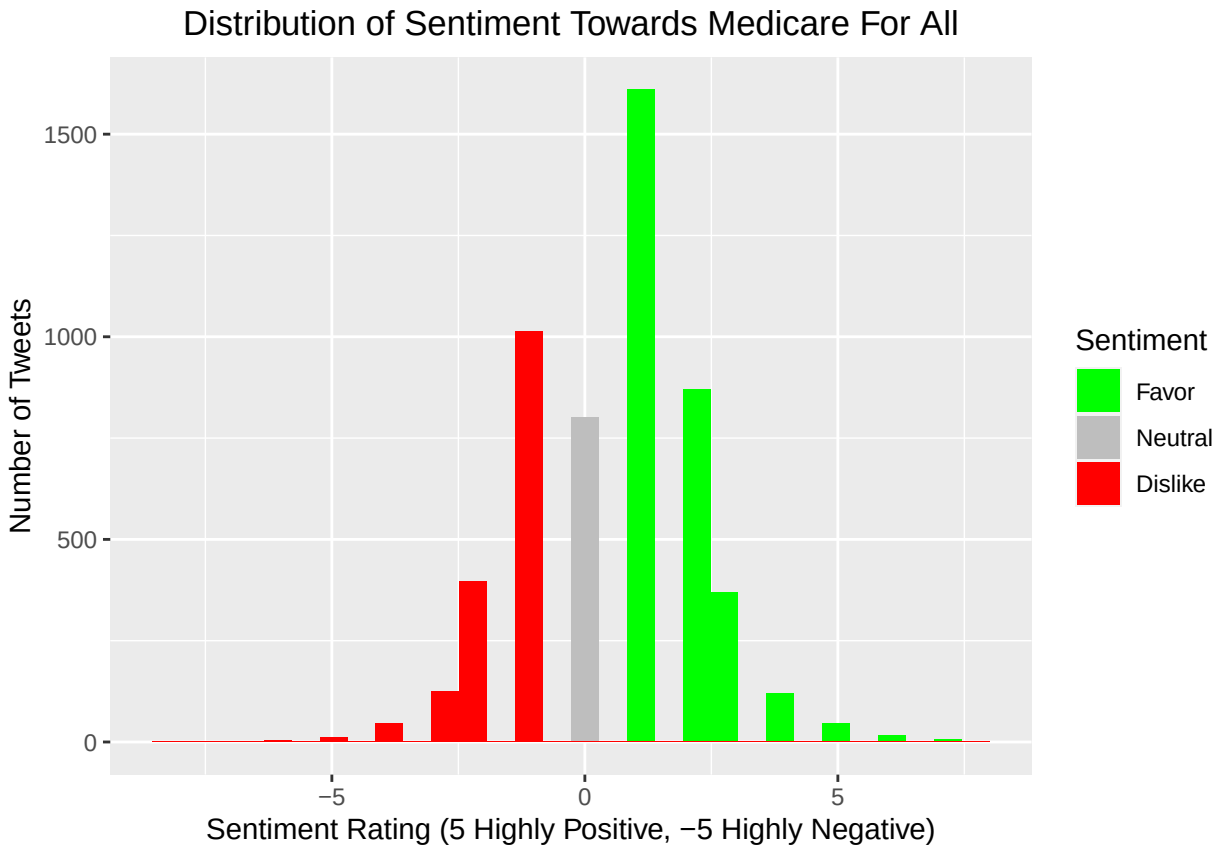
```
## Warning in tm_map.SimpleCorpus(corpus, stemDocument): transformation drops
## documents
```

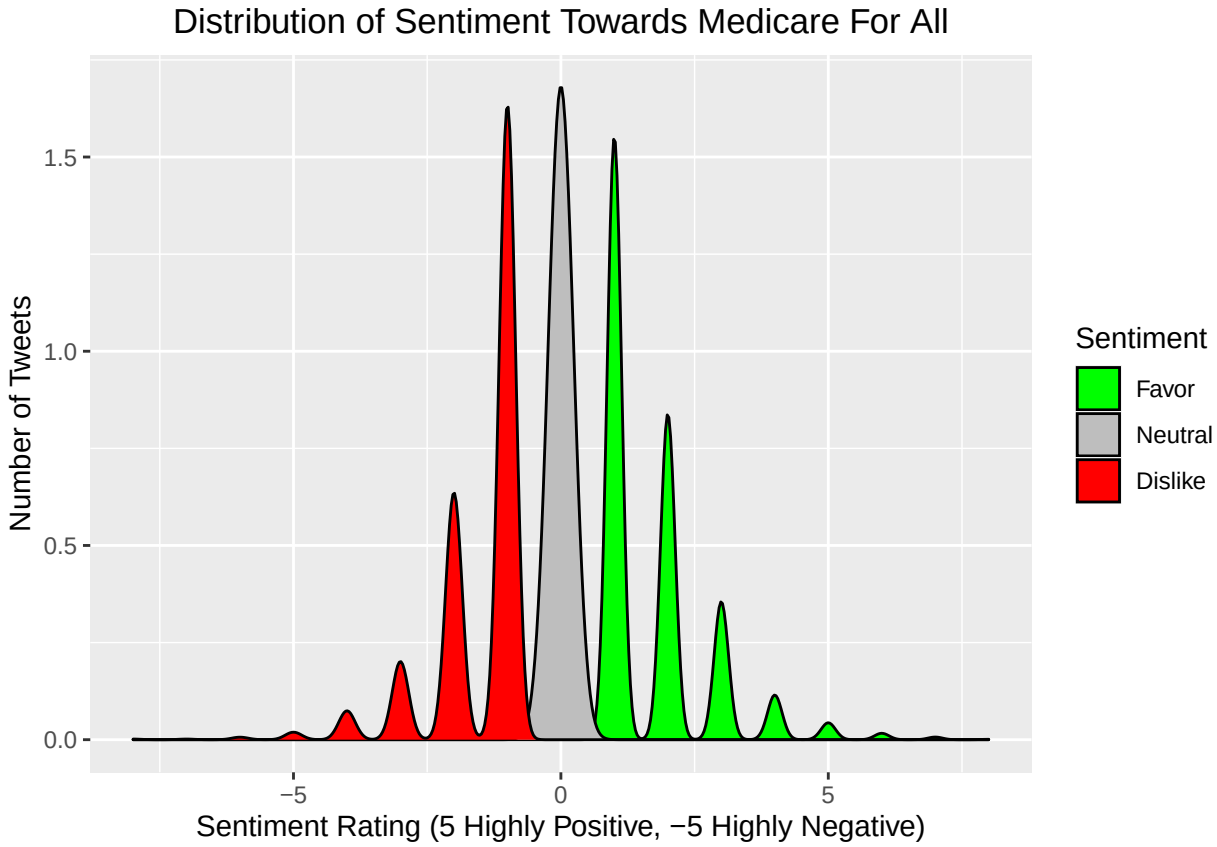
```
##                word freq
## health       health 4522
## care           care 4331
## univers     univers 3626
## medicar     medicar 2456
## system       system 2287
## healthcar healthcar 1285
## singl         singl 1274
## payer         payer 1260
## will           will 1089
## peopl         peopl  962
## want           want  900
## like           like  883
## insur         insur  824
## amp             amp  816
## get             get  779
## support     support  719
## need           need  711
```

```
## countri     countri  661
## can             can  654
## vote           vote  653
```




```
## $health
## univers
##    0.68
##
## $care
## univers
##    0.66
##
## $system
##     payer     singl singlepay healthcar
##      0.59      0.59      0.38      0.28
##
## $biden
##  joe
## 0.31
##
## $trump
## despair  stake"
##    0.49    0.35
```


Distribution of Sentiment Towards Medicare For All
Number of Tweets
1500
1000
500
0
−5
0
5
Sentiment Rating (5 Highly Positive, −5 Highly Negative)
Sentiment
Favor
Neutral
Dislike


Distribution of Sentiment Towards Medicare For All
Number of Tweets
1.5
1.0
0.5
0.0
−5
0
5
Sentiment Rating (5 Highly Positive, −5 Highly Negative)
Sentiment
Favor
Neutral
Dislike

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## -8.0000 -1.0000  1.0000  0.5247  2.0000  8.0000
```

```
df_sentiment%>%
  filter(total > 0)%>%
  nrow() -> favor

df_sentiment%>%
  filter(total < 0)%>%
  nrow() -> dislike

df_sentiment%>%
  filter(total == 0)%>%
  nrow() -> neutral

number_of_tweets <- data_frame(Favor = favor, Neutral = neutral, Dislike = dislike)

total <- favor + dislike + neutral
# Percentages
percentages <- data_frame(Favor = favor / total, Neutral = neutral / total, Dislike = dislike / total) *
```

```
number_of_tweets
```

```
## # A tibble: 1 x 3
##   Favor Neutral Dislike
##   <int>   <int>   <int>
## 1  3035     800    1597
```

```
percentages
```

```
##      Favor  Neutral  Dislike
## 1 55.87261 14.72754 29.39985
```

```
library(plotrix)
slices <- c(percentages$Favor, percentages$Neutral, percentages$Dislike)
lab <- names(percentages)

paste(round(percentages$Favor),'%','Favor') -> fv
paste(round(percentages$Neutral),'%','Neutral') -> nt
paste(round(percentages$Dislike),'%','Dislike') -> dl



pie3D(slices, labels = c(fv,nt,dl), col = c("green", "grey","red"),  main = "Attitudes Towards Medicare
```

Attitudes Towards Medicare For All Based on Tweets