## M4A\_Project

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## 10/30/2020

```
library(readxl)
medicare_for_all_1 <- read_excel("Data/medicare_for_all_1.xlsx")</pre>
single_payer_system_1 <- read_excel("Data/single_payer_system_1.xlsx")</pre>
universal_health_care_1 <- read_excel("Data/universal_health_care_1.xlsx")
medicare_for_all_2 <- read_excel("Data/medicare_for_all_2.xlsx")</pre>
single_payer_system_2 <- read_excel("Data/single_payer_system_2.xlsx")</pre>
universal_health_care_2 <- read_excel("Data/universal_health_care_2.xlsx")</pre>
data_names <- c(medicare_for_all_1, single_payer_system_1, universal_health_care_1, medicare_for_all_2, sin
suppressPackageStartupMessages(library(tidyverse))
merged_data <- bind_rows(medicare_for_all_1, single_payer_system_1, universal_health_care_1, medicare_for_</pre>
write_excel_csv(merged_data, 'Data/merged_data.xlsx')
view(merged_data)
unique(merged_data$Language)
## [1] "en" "und" "ja" "tl" "es"
                                        "ro"
library(tidytext)
library(tm)
## Loading required package: NLP
## Attaching package: 'NLP'
## The following object is masked from 'package:ggplot2':
##
##
       annotate
library(dplyr)
library(NLP)
\#https://stackoverflow.com/questions/36824296/r-remove-specific-word-in-a-txte-like-the-this
corpus <- Corpus(VectorSource(merged_data$Text))</pre>
corpus <- tm_map(corpus, removePunctuation)</pre>
## Warning in tm_map.SimpleCorpus(corpus, removePunctuation): transformation drops
## documents
corpus <- tm_map(corpus, removeNumbers)</pre>
```

```
## Warning in tm_map.SimpleCorpus(corpus, removeNumbers): transformation drops
## documents
corpus <- tm_map(corpus, tolower)</pre>
## Warning in tm_map.SimpleCorpus(corpus, tolower): transformation drops documents
corpus <- tm_map(corpus, removeWords, stopwords("english"))</pre>
## Warning in tm_map.SimpleCorpus(corpus, removeWords, stopwords("english")):
## transformation drops documents
corpus <- tm_map(corpus, stripWhitespace)</pre>
## Warning in tm_map.SimpleCorpus(corpus, stripWhitespace): transformation drops
## documents
corpus <- tm_map(corpus, stemDocument)</pre>
## Warning in tm_map.SimpleCorpus(corpus, stemDocument): transformation drops
## documents
doc_matrix <- TermDocumentMatrix(corpus)</pre>
doc_matrix_m <- as.matrix(doc_matrix)</pre>
doc_matrix_val <- sort(rowSums(doc_matrix_m), decreasing = T)</pre>
doc_matrix_df <- data.frame(word = names(doc_matrix_val), freq = doc_matrix_val)</pre>
top_20 <- head(doc_matrix_df, 20)</pre>
top_20%>%
  ggplot(aes(reorder(word,freq), freq)) + geom_bar(stat = "identity") + xlab("Term") + ylab("Frequency"
    Most Frequent Terms Within Tweets Relating to Medicare For All
 8000 -
 6000
Frequency .
```

peopl healthcar payer singlepay singl

biden univers medicar system

insur

2000 -

fight

privat

plan

riaht

support