

R Notebook

This is an R Markdown (<http://rmarkdown.rstudio.com>) Notebook. When you execute code within the notebook, the results appear beneath the code.

Try executing this chunk by clicking the *Run* button within the chunk or by placing your cursor inside it and pressing *Cmd+Shift+Enter*.

Setup

```
getwd()
```

```
## [1] "/Users/devinaamangal/Desktop/OneDrive - Southern Methodist University/Computing  
in Economics"
```

```
library(tidyverse)
```

```
## — Attaching packages —  
— tidyverse 1.3.0 —
```

```
## ✓ ggplot2 3.3.0      ✓ purrr   0.3.3  
## ✓ tibble  2.1.3      ✓ dplyr   0.8.5  
## ✓ tidyr   1.0.2      ✓ stringr 1.4.0  
## ✓ readr   1.3.1      ✓ forcats 0.4.0
```

```
## — Conflicts — tid  
yverse_conflicts() —  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag()     masks stats::lag()
```

```
library(tidytext)  
library(wordcloud)
```

```
## Loading required package: RColorBrewer
```

```
library(reshape2)
```

```
##  
## Attaching package: 'reshape2'
```

```
## The following object is masked from 'package:tidyr':  
##  
## smiths
```

```
library(syuzhet)
```

Data

```
tweets <- read.csv("demonetization-tweets.csv")
```

Cleaning up the Data

```
tweets$stripped_text <- gsub("http.*", "", tweets$text)
tweets$stripped_text <- gsub("https.*", "", tweets$stripped_text)
tweets$stripped_text <- gsub("RT*", "", tweets$stripped_text)
tweets$stripped_text <- gsub("&", "", tweets$stripped_text)
tweets$stripped_text <- str_to_lower(tweets$stripped_text)
tweets$stripped_text <- gsub("@\\w+", "", tweets$stripped_text)
tweets$stripped_text <- gsub("[ |\\t]{2,}", "", tweets$stripped_text)
tweets$stripped_text <- gsub("^ ", "", tweets$stripped_text)
tweets$stripped_text <- gsub(" $", "", tweets$stripped_text)
tweets$stripped_text <- gsub("[[:punct:]]", "", tweets$stripped_text)
```

Removing Stop Words

```
tweets_clean <- tweets %>%
  dplyr::select(stripped_text) %>%
  unnest_tokens(word, stripped_text)

SMART_stop_words <- stop_words %>%
  filter(lexicon == "SMART")

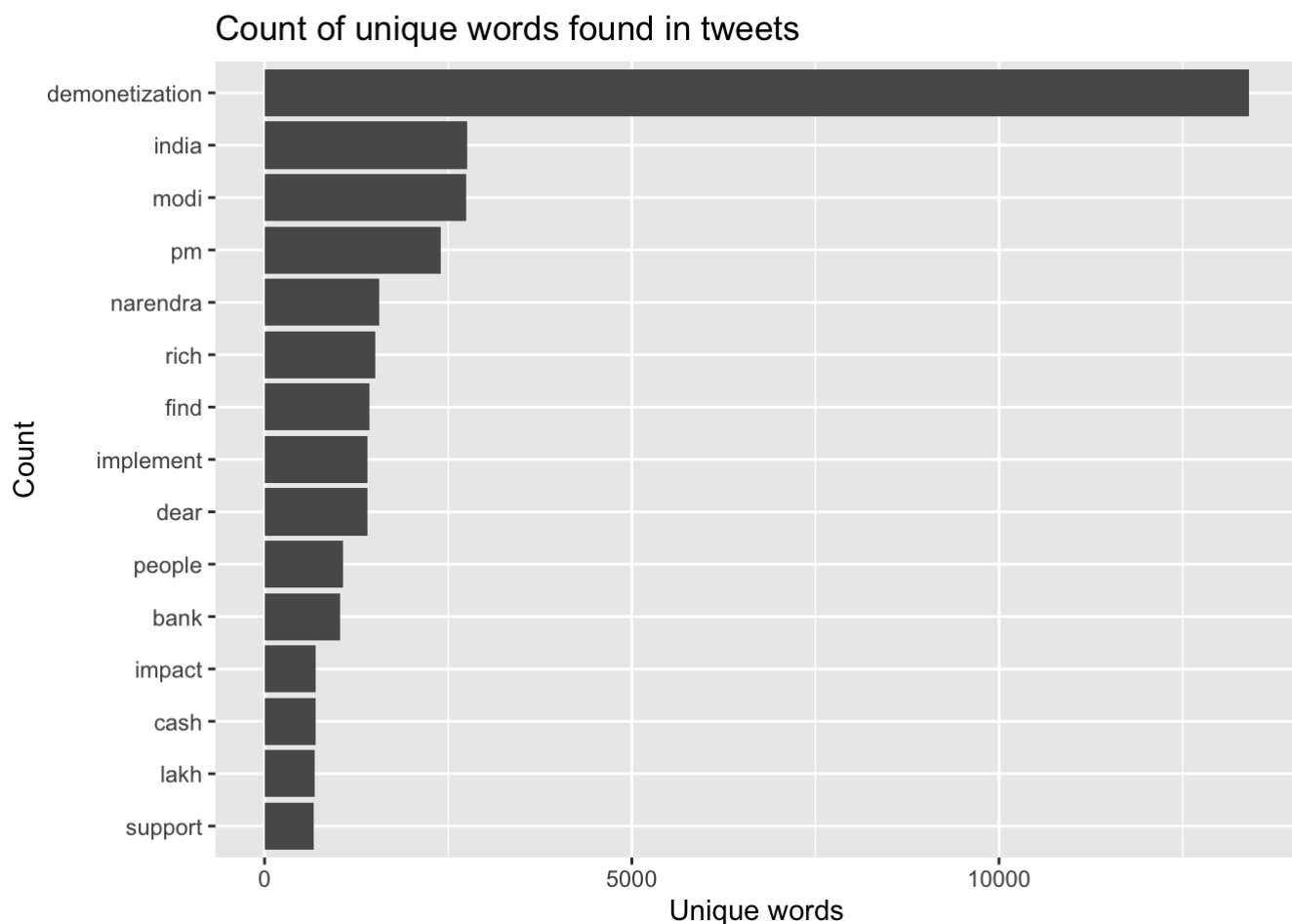
tidy_tweets <- tweets_clean %>%
  anti_join(SMART_stop_words)
```

```
## Joining, by = "word"
```

Top 10 words

```
tidy_tweets %>%
  count(word, sort = TRUE) %>%
  top_n(15) %>%
  mutate(word = reorder(word, n)) %>%
  ggplot(aes(x = word, y = n)) +
  geom_col() +
  xlab(NULL) +
  coord_flip() +
  labs(x = "Count",
       y = "Unique words",
       title = "Count of unique words found in tweets")
```

```
## Selecting by n
```



WordCloud

```
tidy_tweets %>%
  anti_join(stop_words) %>%
  count(word) %>%
  with(wordcloud(word, n, max.words = 100))
```

```
## Joining, by = "word"
```

demonetization



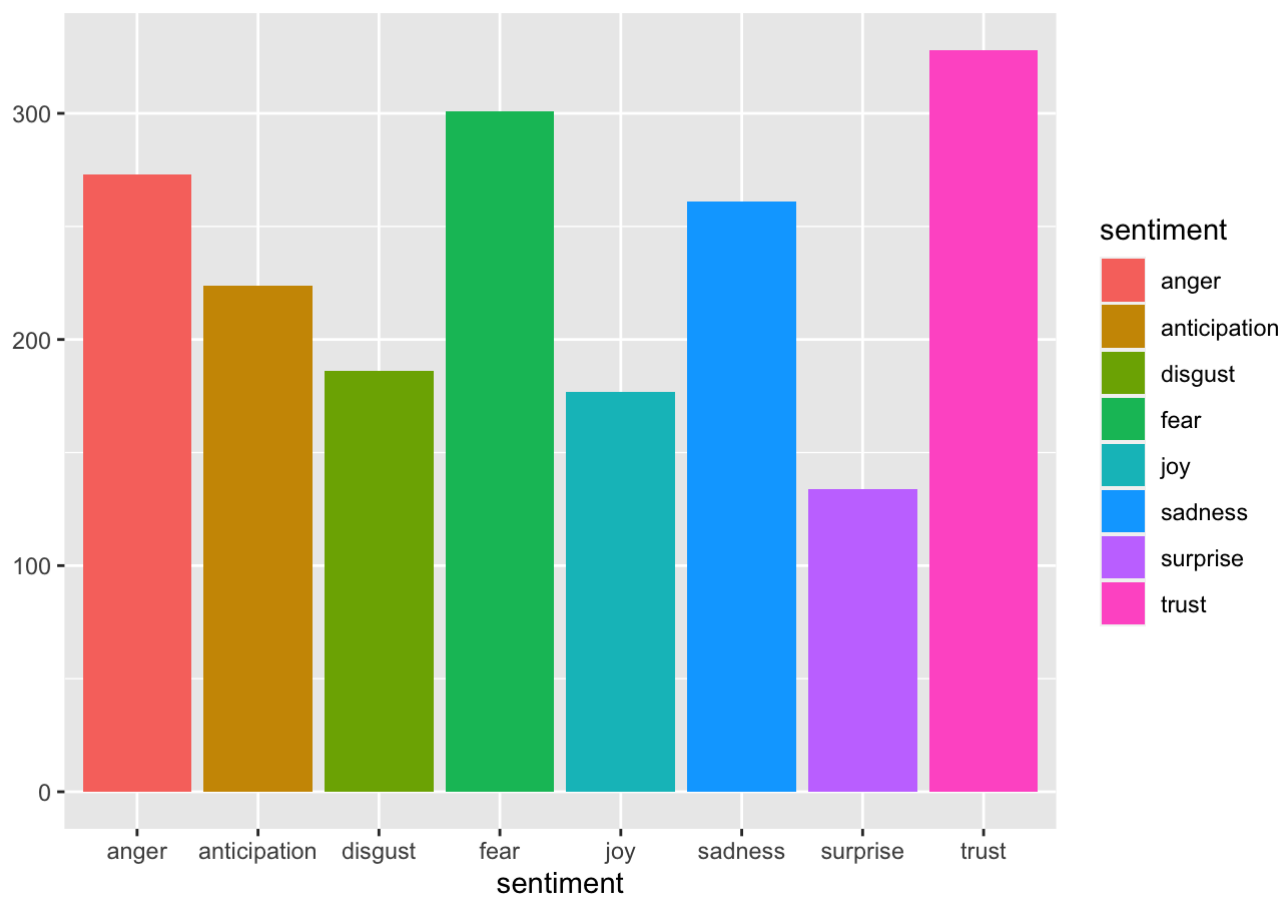
```
## Joining, by = "word"
```



Plots for the Sentiment Analysis

5/7

Demonitization Sentiments



```
qplot(sentiment,  
      data = new_sentiment[9:10,],  
      weight = count,  
      geom = "bar",  
      fill = sentiment) +  
ggtitle("Demonitization Sentiments")
```

Demonitization Sentiments

