

# CSE3020 - Data Visualisation

## Lab Assignment 6

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### Question

Write R code to visualize Word cloud for Tweets related to USselection about Joe- Biden. Use different Color theme and Shapes.

### Source Code

```
library(wordcloud2)
library(readr)
library(dplyr)
library(e1071)
library(mlbench)

library(tm)
library(SnowballC)
library("wordcloud")
library("wordcloud2")
library("RColorBrewer")

#reading data
d1 <- read_csv("/Users/sanjitkumar/Documents/VIT_DOC/vit_semester_6/B2 - Data
Visualisation/lab/Lab8/biden_data.csv")
glimpse(d1)
d1
```

```
#checking data values
```

```
d1$user[1]
```

```
# create corp
```

```
corp = Corpus(VectorSource(d1$text))
```

```
# check corp entries
```

```
corp[[1]][1]
```

```
#Cleaning the corp before creation of word coloud
```

```
#convert to Lowercase
```

```
corp = tm_map(corp, PlainTextDocument)
```

```
corp = tm_map(corp, tolower)
```

```
#Removing Punctuation
```

```
corp = tm_map(corp, removePunctuation)
```

```
corp[[1]][1]
```

```
#Remove stopwords
```

```
corp = tm_map(corp, removeWords, c("cloth", stopwords("english")))
```

```
corp[[1]][1]
```

```
# Stemming
```

```
corp = tm_map(corp, stemDocument)
```

```
corp[[1]][1]
```

```
# Eliminate white spaces
```

```
corp = tm_map(corp, stripWhitespace)
```

```
corp[[1]][1]
```

```
#Create Document Term Matrix
```

```
DTM <- TermDocumentMatrix(corp)
```

```
matrix <- as.matrix(DTM)
```

```
f <- sort(rowSums(matrix),decreasing=TRUE)
```

```
d2 <- data.frame(word = names(f),freq=f)
```

```
head(d2, 5)
```

```
d3 <- d2[c(1:2)]
```

```
d1
```

```
#CREATING WORD CLOUD
```

```
set.seed(200)
```

```
wordcloud(words = d2$word, freq = dat$freq, min.freq = 20,  
           max.words=300, random.order=FALSE, rot.per=0.35,  
           colors=brewer.pal(8, "Dark2"))
```

```
wordcloud(words = d2$word, freq = dat$freq, min.freq = 20,  
           max.words=600, random.order=FALSE, rot.per=0.35,  
           colors=brewer.pal(5, "RdBu"))
```

```
wordcloud(words = d2$word, freq = dat$freq, min.freq = 20,  
           max.words=, random.order=FALSE, rot.per=0.35,  
           colors=brewer.pal(6, "Accent"))
```

```
wordcloud(words = d2$word, freq = dat$freq, min.freq = 20,  
           max.words=300, random.order=FALSE, order=FALSE, rot.per=0.35,  
           colors=brewer.pal(6, "RdGy"))
```

```
words = d2$word
```

```
wordcloud2(d2,size=6, shape = 'star')
```

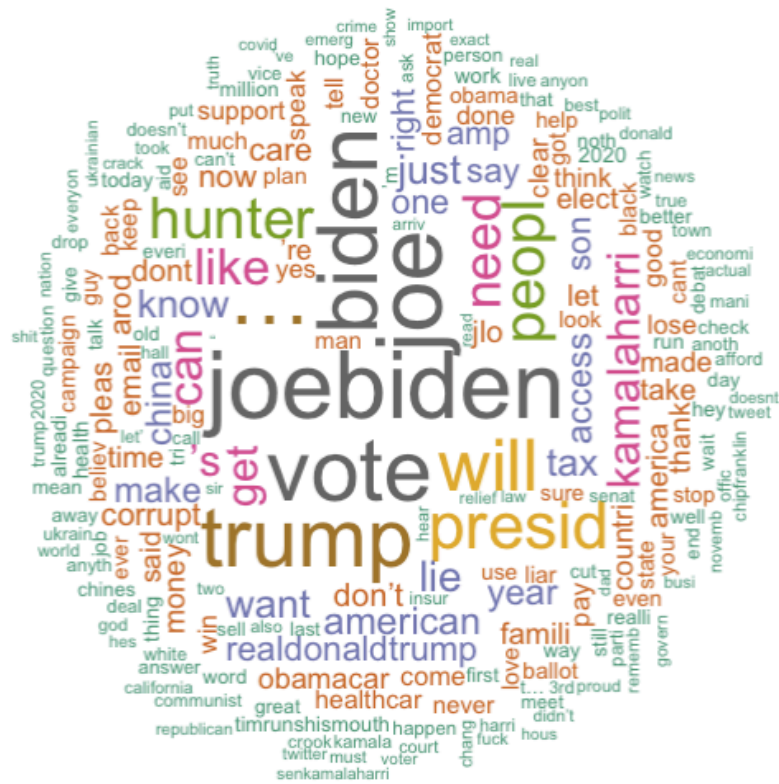
```
wordcloud2(d2,size=6, shape = 'cardioid')
```

```
wordcloud2(d2,size=6, shape = 'pentagon')
```

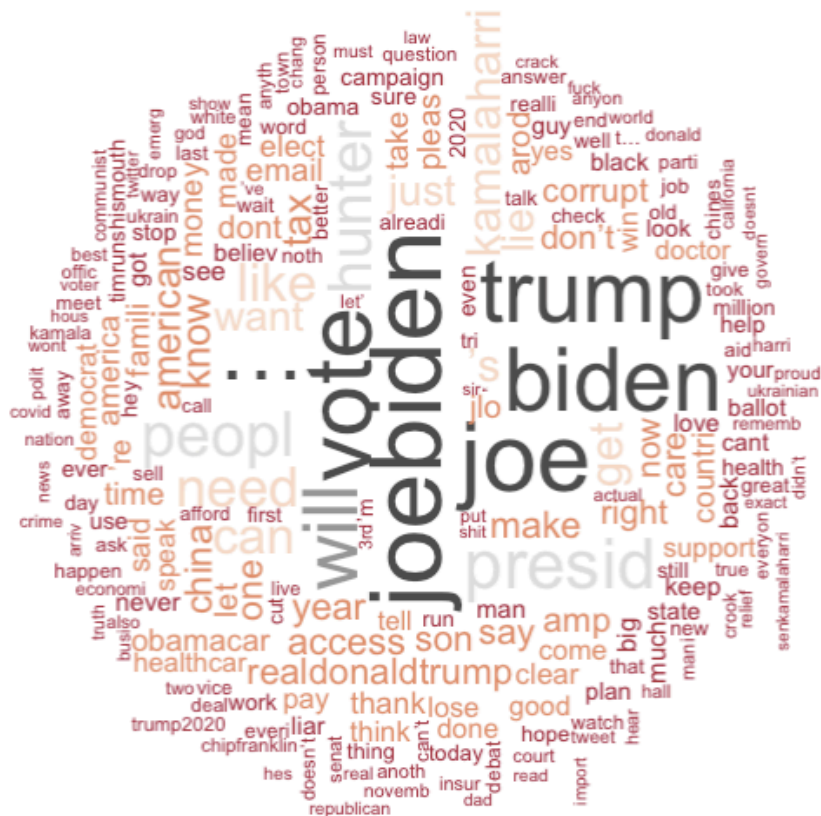
```
wordcloud2(d2,size=6, shape = 'diamond')
```

```
wordcloud2(d2,size=3, shape = 'triangle',backgroundColor = "grey")
```

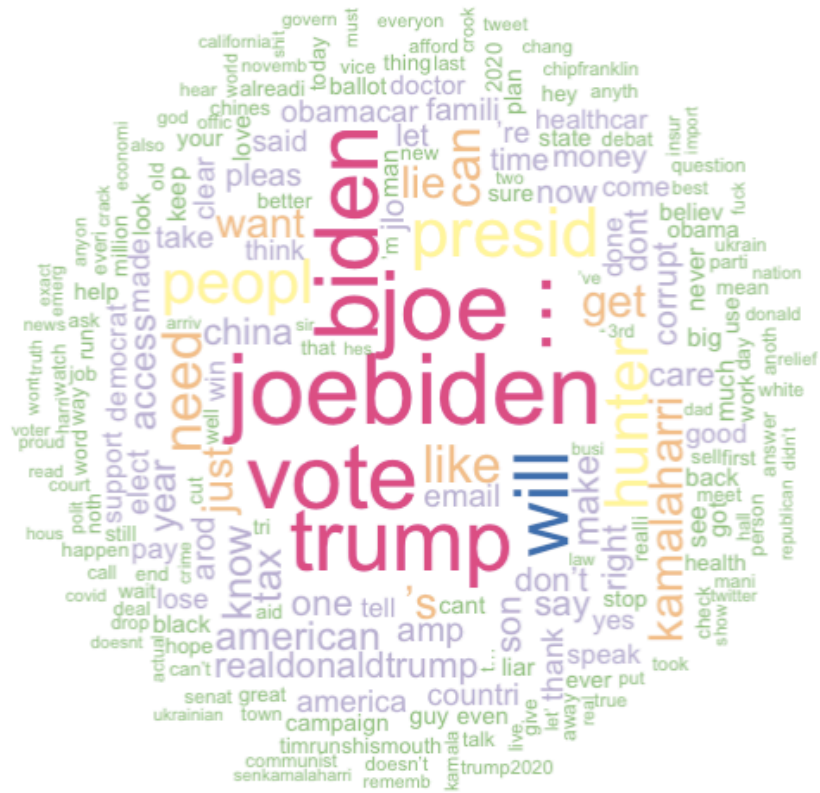
## Dark2



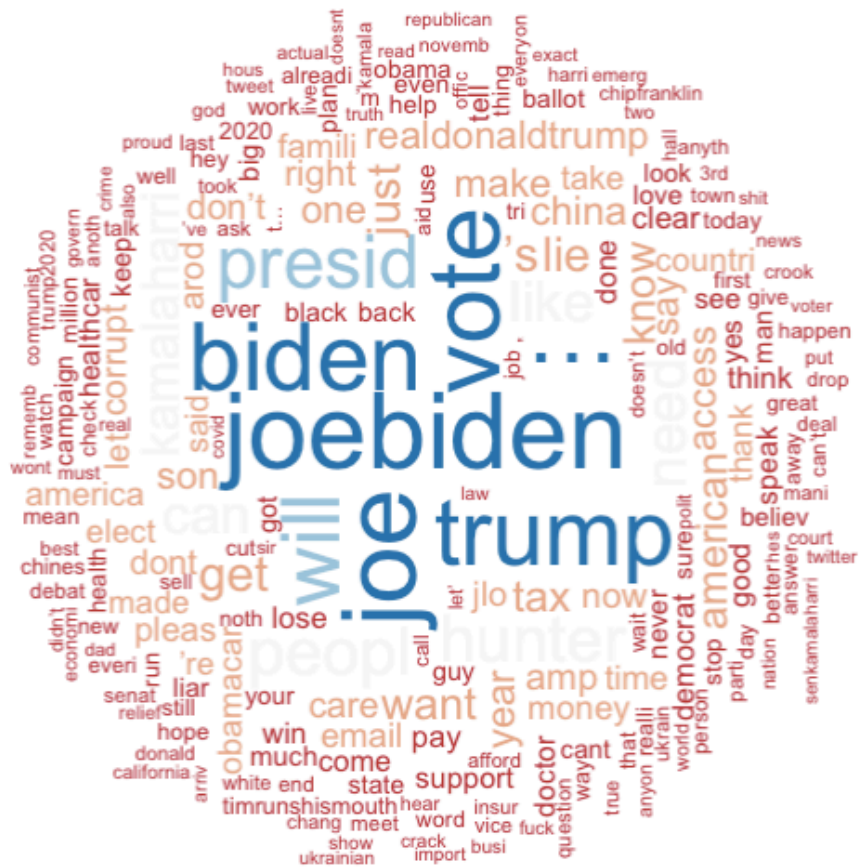
RdBu



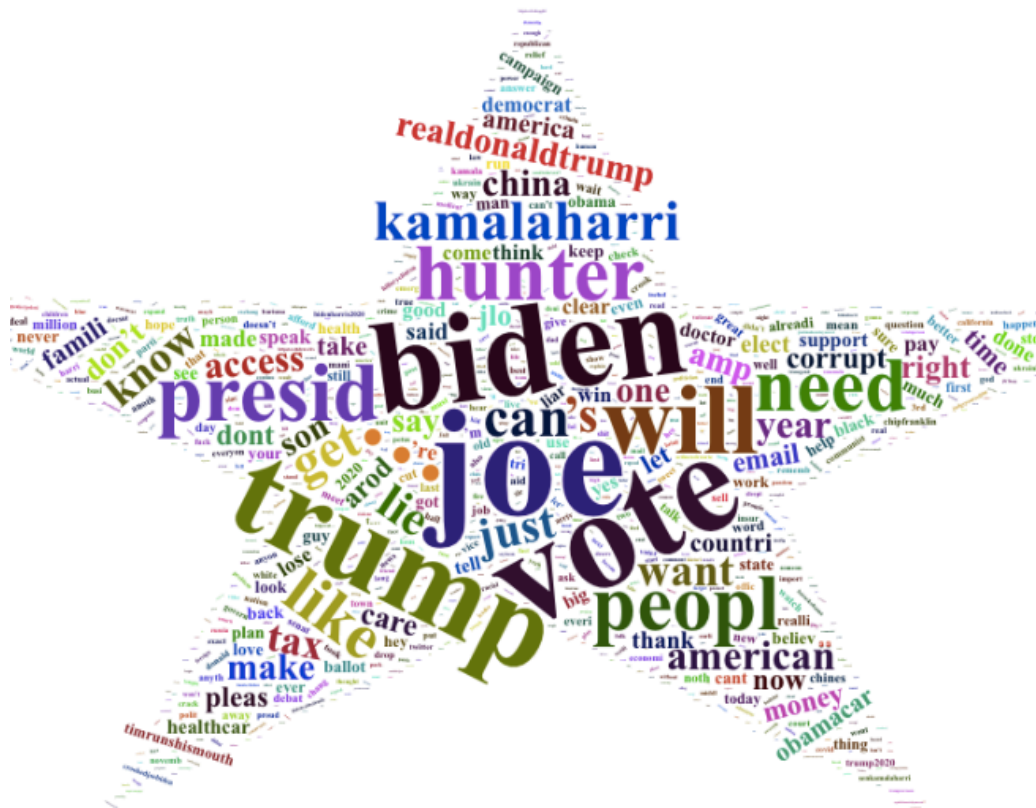
RdGy



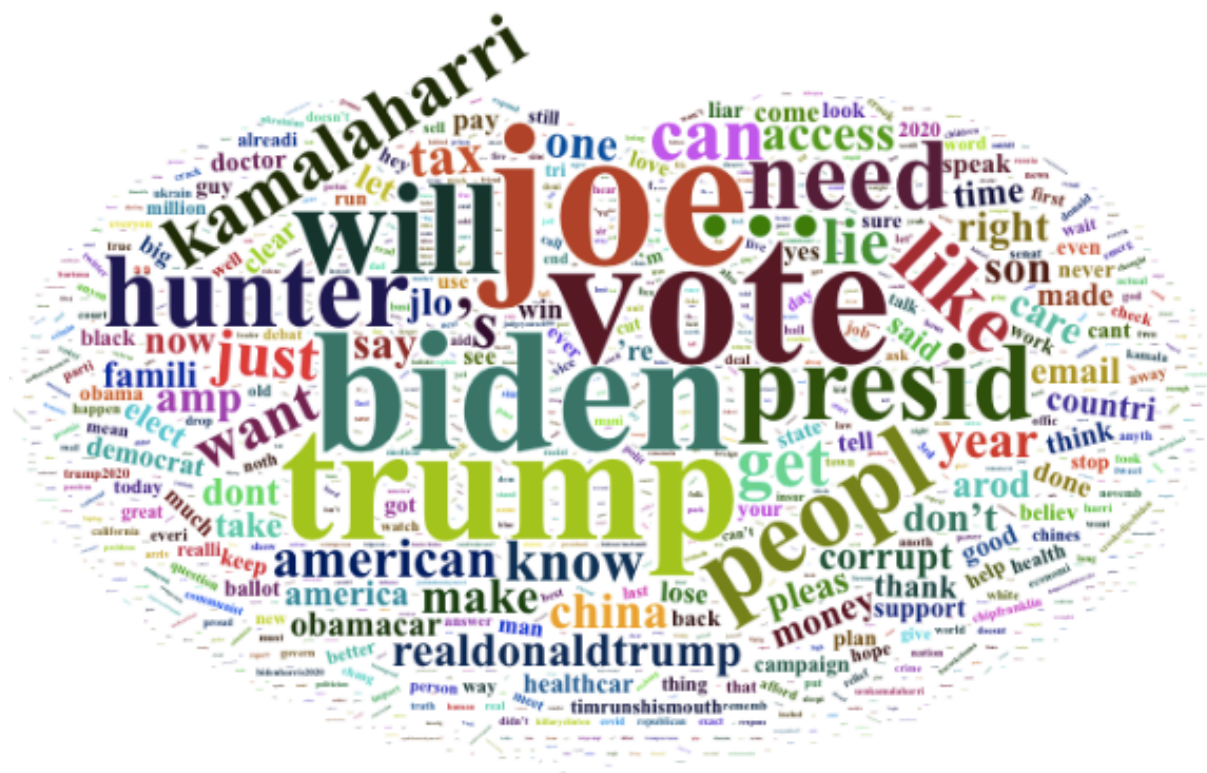
RdGy



## Star Shape

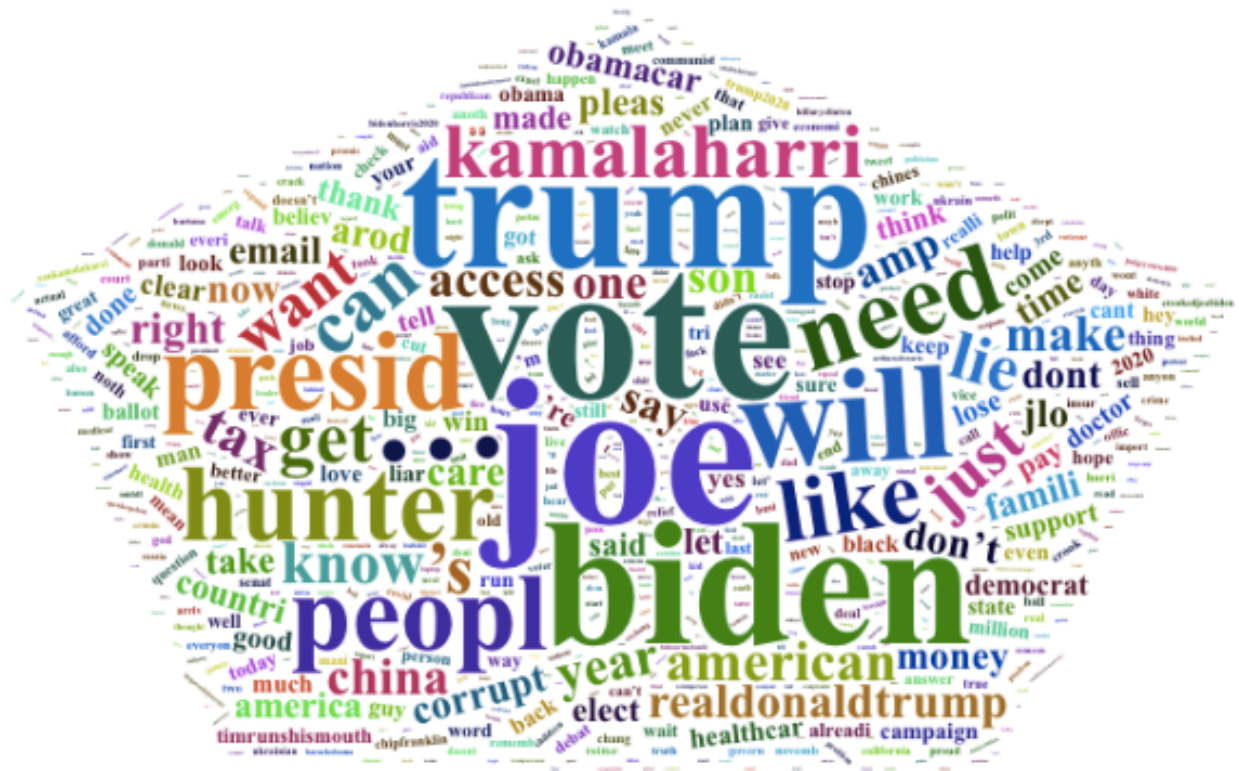


## Cartioid





## Pentagon



## Triangle

