

# Untitled

```
library(wordcloud)    # wordcloud generator

## Loading required package: RColorBrewer
library(tm)           # text-mining

## Loading required package: NLP
file <- "SpeechData/bushSenior.txt"
preProcessText <- function(file)
{
  rawData <- readLines(file)

  # create a corpus object from the text
  corpus <- VCorpus(VectorSource(rawData))

  # clean the words: whitespace, punctuation, remove numbers, get root words, remove stopwords
  corpus <- tm_map(corpus, content_transformer(removePunctuation))
  corpus <- tm_map(corpus, content_transformer(removeNumbers))
  corpus <- tm_map(corpus, content_transformer(stripWhitespace))
  corpus <- tm_map(corpus, removeWords, stopwords())
  corpus <- tm_map(corpus, removeWords, c("and", "And", "Will", "will"))#, "will", "there"))

  corpus
}

# set a palate
colorScheme <- brewer.pal(8, "Dark2")

minFreq <- 3

randomOrder <- FALSE

# create a wordcloud
wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq = minFreq, random.order = randomOrder,

## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : mean could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : thank could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : women could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : young could not be fit on page. It will not be plotted.
```

```
## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : blowing could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : congress could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : country could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : crucial could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : democracy could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : engagement could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : expression could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : generation could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : history could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : loyal could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : men could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : moment could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : much could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : peace could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : power could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : remember could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : see could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : seems could not be fit on page. It will not be plotted.

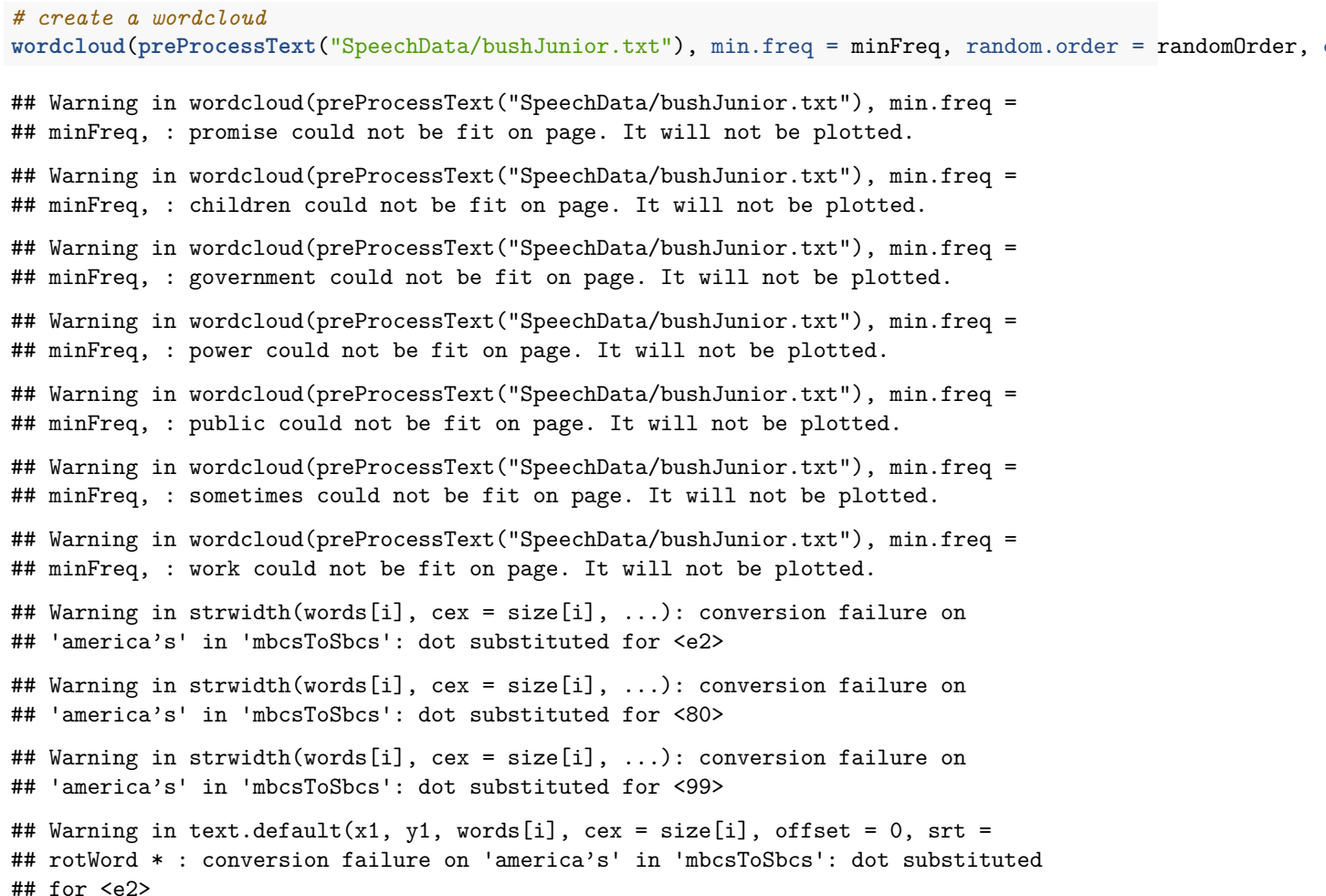
## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : sometimes could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : speaker could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushSenior.txt"), min.freq =
## minFreq, : strength could not be fit on page. It will not be plotted.
```

[illegible]

```
wordcloud(preProcessText("SpeechData/clinton.txt"), min.freq = minFreq, random.order = randomOrder, col
```



```

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : conversion failure on 'america's' in 'mbcsToSbcs': dot substituted
## for <80>

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : conversion failure on 'america's' in 'mbcsToSbcs': dot substituted
## for <99>

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : font metrics unknown for Unicode character U+2019

## Warning in wordcloud(preProcessText("SpeechData/bushJunior.txt"), min.freq =
## minFreq, : called could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushJunior.txt"), min.freq =
## minFreq, : commitment could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushJunior.txt"), min.freq =
## minFreq, : compassion could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushJunior.txt"), min.freq =
## minFreq, : everyone could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushJunior.txt"), min.freq =
## minFreq, : faith could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushJunior.txt"), min.freq =
## minFreq, : god could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushJunior.txt"), min.freq =
## minFreq, : good could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushJunior.txt"), min.freq =
## minFreq, : great could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushJunior.txt"), min.freq =
## minFreq, : history could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushJunior.txt"), min.freq =
## minFreq, : justice could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushJunior.txt"), min.freq =
## minFreq, : life could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushJunior.txt"), min.freq =
## minFreq, : lives could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushJunior.txt"), min.freq =
## minFreq, : make could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): conversion failure on
## 'nation's' in 'mbcsToSbcs': dot substituted for <e2>

## Warning in strwidth(words[i], cex = size[i], ...): conversion failure on
## 'nation's' in 'mbcsToSbcs': dot substituted for <80>

## Warning in strwidth(words[i], cex = size[i], ...): conversion failure on
## 'nation's' in 'mbcsToSbcs': dot substituted for <99>

## Warning in wordcloud(preProcessText("SpeechData/bushJunior.txt"), min.freq =
## minFreq, : nation's could not be fit on page. It will not be plotted.

## Warning in wordcloud(preProcessText("SpeechData/bushJunior.txt"), min.freq =
## minFreq, : place could not be fit on page. It will not be plotted.

```

A word cloud featuring various American values and ideals. The words are arranged in a circular pattern, with some words being larger and more prominent than others. The colors of the words are diverse, including shades of blue, green, yellow, orange, red, and purple. The words include: "character", "america...", "time", "beyond", "freedom", "americans", "birth", "know", "every", "civility", "lead", "live", "best", "yet", "courage", "defend", "new", "never", "american", "ideals", "common", "the", "must", "our", "can", "affirm", "nation", "citizens", "country", "purpose", "but", "many", "story", "duty", "deep", and "america".

```
# create a wordcloud
wordcloud(preProcessText("SpeechData/obama.txt"), min.freq = minFreq, random.order = randomOrder, color=
```

[illegible]

```
wordcloud(preProcessText("SpeechData/trump.txt"), min.freq = minFreq, random.order = randomOrder, color = rainbow(256))
```

7

A word cloud shaped like a heart, containing numerous words in different colors and sizes. The most prominent words are "america" (large, dark grey), "american" (green), "people" (green), "country" (pink), "must" (dark blue), "together" (orange), "jobs" (orange), "united" (orange), "everyone" (orange), "citizens" (orange), "government" (orange), "make" (orange), "new" (orange), "god" (orange), "left" (orange), "bring" (orange), "never" (blue), "president" (blue), "right" (blue), "power" (orange), "nation..." (orange), "foreign" (orange), "factories" (orange), "americans" (orange), "thank" (orange), "world" (blue), "nations" (blue), "day" (orange), "now" (blue), "one" (pink), "first" (orange), "many" (blue), "families" (orange), "countries" (orange), "borders" (orange), "today" (orange), "bless" (orange), "dreams" (blue), "wealth" (orange), "heart" (orange), "capital" (orange), "whether" (orange), "obama" (orange), "protected" (blue), "across" (blue), "the" (blue), "great" (blue), "back" (blue), "but" (orange), "every" (blue), "million" (orange), "millions" (orange), "must" (dark blue).