Don Quixote: Creating a Word Cloud

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November 27, 2017

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- library(webshot)

Access Project Gutenberg

```
df<-gutenberg_works(str_detect(title,'Don Quixote'))</pre>
  df$gutenberg_id[1:5]
## [1] 996 5903 5904 5905 5906
  df$title[1:5]
## [1] "Don Quixote"
  [2] "The History of Don Quixote, Volume 1, Part 01"
  [3] "The History of Don Quixote, Volume 1, Part 02"
  [4] "The History of Don Quixote, Volume 1, Part 03"
## [5] "The History of Don Quixote, Volume 1, Part 04"
```

Download Don Quixote

```
quixote<-gutenberg_download(996)
colnames(quixote)

## [1] "gutenberg_id" "text"
substr(quixote$text[1001],1,21)

## [1] "His idea of \"shortly\""</pre>
```

Unpack the Words

```
quixote_words<-quixote%>%
               unnest_tokens(word,text)
  colnames(quixote_words)
  [1] "gutenberg_id" "word"
 quixote_words[1000:1003,]
## # A tibble: 4 x 2
##
    gutenberg_id word
##
           <int> <chr>
## 1
             996 quarrel
## 2
             996 that
           996 don
## 3
## 4
             996 quixote
```

The Bing Lexicon

```
nrc<-get_sentiments('nrc')</pre>
 colnames(nrc)
## [1] "word"
            "sentiment"
 nrc[1000:1003,]
## # A tibble: 4 x 2
## word sentiment
##
  <chr> <chr>
## 1 badness negative
  2 bailiff
                 fear
## 3 bailiff negative
## 4 bailiff
               trust
```

The Inner Join

```
quixote_words<-inner_join(quixote_words,nrc)
## Joining, by = "word"
 quixote_words$gutenberg_id<-NULL
 quixote_words[500:502,]
## # A tibble: 3 x 2
## word sentiment
##
      <chr> <chr>
## 1 failing sadness
## 2 worse
                fear
## 3 worse negative
```

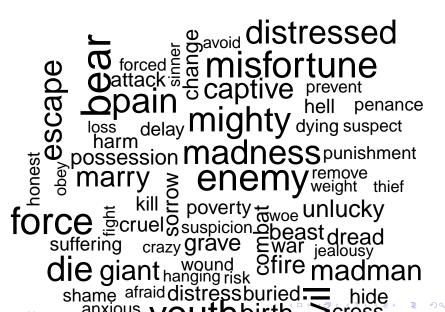
The Fear Words I

```
quixote_fear<-quixote_words%>%
    filter(sentiment == 'fear')%>%
    group_by(word)%>%
    summarize(freq = n())%>%
    filter(freq<=100)</pre>
```

The Fear Words II

```
quixote_fear
  # A tibble: 712 x 2
##
           word freq
          <chr> <int>
##
##
        abandon
##
   2 abandoned 4
          abhor
##
##
   4 abominable
        absence 22
##
##
         abuse 17
##
          abyss
   8 accident
##
##
   9 accursed 11
## 10 accusing
## # ... with 702 more rows
```

The Word Cloud I



The Word Cloud 2

```
wordcloud2(quixote_fear,color='random-dark')
```

