# Compraison Barplots

Who? Justin Minsk

When? November 29, 2017

library(dplyr)

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- library(tidytext)

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- library(gutenbergr)

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## Access Progect Gutenburg

```
df<-gutenberg_works(str_detect(title, 'Dracula'
df$gutenberg_id

## [1] 345 10150

df$title

## [1] "Dracula" "Dracula's Guest"</pre>
```

#### Download Dracula

```
dracula <- gutenberg_download(345)
colnames(dracula)

## [1] "gutenberg_id" "text"

substr(dracula$text[500],1,21)

## [1] "my own disappointment"</pre>
```

# Unpacking the Words

```
dracula_words <- dracula%>%
 unnest_tokens(word, text)
colnames(dracula_words)
## [1] "gutenberg_id" "word"
dracula_words[498:500,]
## # A tibble: 3 x 2
## gutenberg_id word
##
           <int> <chr>
## 1
           345 fail
## 2
            345 to
             345 have
## 3
```

## Bing Lexicon

```
bing <- get_sentiments('bing')</pre>
colnames(bing)
## [1] "word" "sentiment"
bing[498:500,]
## # A tibble: 3 x 2
##
         word sentiment
##
        <chr> <chr>
## 1 bereave negative
## 2 bereavement negative
## 3
        bereft negative
```

## Interjoin

```
dracula_words<-inner_join(dracula_words,bing)</pre>
## Joining, by = "word"
dracula_words$gutenberg_id <- NULL
colnames(dracula_words)
## [1] "word" "sentiment"
dracula_words[498:500,]
## # A tibble: 3 x 2
## word sentiment
## <chr> <chr>
## 1 great positive
## 2 love positive
## 3 crowded negative
```

# Top Ten Postive Words I

```
dracula_pos <- dracula_words%>%
  filter(sentiment == 'positive')%>%
  group_by(word)%>%
  summarise(count = n())%>%
  arrange(desc(count))%>%
  filter(count >= 66)%>%
  top_n(10, wt = count)
```

# Top Ten Postive Words II

```
dracula_pos
  # A tibble: 10 x 2
##
      word count
##
      <chr> <int>
## 1 like
             292
  2 good 258
##
   3
     well 245
##
##
   4
      great 183
```

work

146

99

right

##

##

6

# Top Ten Negtive Words I

```
dracula_neg <- dracula_words%>%
  filter(sentiment == 'negative')%>%
  group_by(word)%>%
  summarise(count = n())%>%
  arrange(desc(count))%>%
  filter(count >= 53)%>%
  top_n(10, wt = count)
```

# Top Ten Negtive Words II

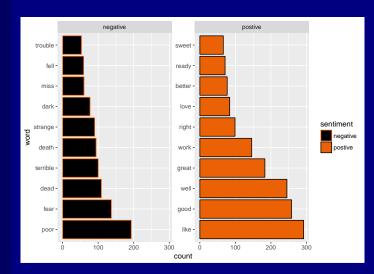
dracula\_neg

```
# A tibble: 10 x 2
##
        word count
##
       <chr> <int>
## 1
               193
     poor
     fear 137
##
   3
               109
##
        dead
##
     terrible
               100
##
        death 94
##
   6
             90
      strange
##
         dark
                77
##
     miss
                60
##
         fell
                59
  10
      trouble
                53
```

### Comparison Bar Plot I

### Comparison Bar Plot II

# Comparison Bar Plot III



#### WordCloud I

```
dracula_words <- dracula_words%>%
  group_by(word)%>%
  summarise(freq = n())
dracula_sent <- inner_join(bing, dracula_words
## Joining, by = "word"</pre>
```

wordcloud(dracula\_sent\$word, dracula\_sent\$fred

### WordCloud II



## Comparison WordCloud I

dracula\_matrix <- acast(dracula\_sent, word~sen</pre>

### Comparison WordCloud II

comparison.cloud(dracula\_matrix, colors = c('b

