

Compraison Barplots

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Load and Install Libraries

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Access Project Gutenberg

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

```
## [1] 345 10150
```

```
df$title
```

```
## [1] "Dracula" "Dracula's Guest"
```

Download Dracula

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

## [1] "gutenberg_id" "text"

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

## [1] "my own disappointment"
```

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  
## 3           345 have
```

Bing Lexicon

```
bing <- get_sentiments('bing')  
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)

## 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
```

```
##  5   work   146
```

```
##  6  right    99
```

```
##  7   love    84
```

```
##  8 better    77
```

```
##  9  ready    71
```

```
## 10 sweet     66
```


Top Ten Negative 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 Negative Words II

```
dracula_neg
```

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

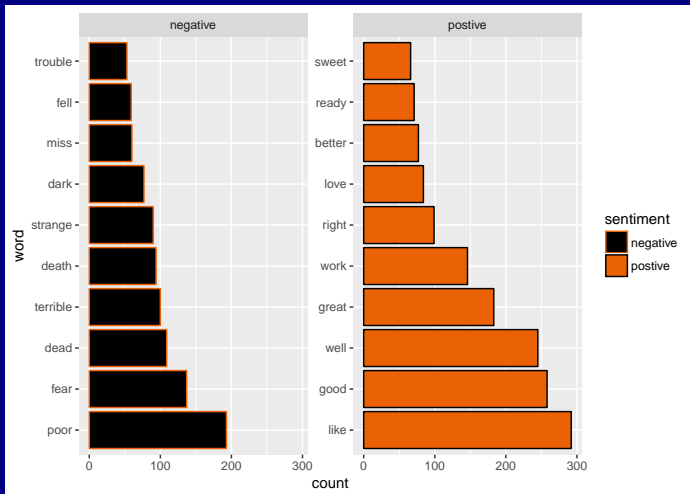
Comparison Bar Plot I

```
dracula_pos$sentiment <- 'positive'  
dracula_neg$sentiment <- 'negative'  
dracula_pos$word <- factor(dracula_pos$word,  
                           level = dracula_pos$word)  
dracula_neg$word <- factor(dracula_neg$word,  
                           level = dracula_neg$word)  
dracula_comp <- rbind(dracula_neg, dracula_pos)
```

Comparison Bar Plot II

```
ggplot()+  
  geom_bar(data = dracula_comp,  
           aes(x = word, y = count,  
               color = sentiment,  
               fill = sentiment), stat = 'identity')  
coord_flip()+  
facet_wrap(~sentiment, scales = 'free_y')+  
scale_fill_manual(values = c('black', '#ea6205', '#ea6205', 'black'))  
scale_color_manual(values = c('#ea6205', 'black', 'black', '#ea6205'))
```

Comparison Bar Plot III



Top Ten Negative Words, WordCloud 1

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

Top Ten Negtive Words, WordCloud II

Top Ten Negative Words, Comparison WordCloud I

```
dracula_matrix <- acast(dracula_sent, word~sent
```


Top Ten Negative Words, Comparison WordCloud II

```
comparison.cloud(dracula_matrix, colors = c('b', 'r'))
```

