

# Positive and Negative Words in Dracula

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# Outline

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Top Ten  
Positive Words

Top Ten  
Negative Words

# Install and Load Libraries

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- `library(tidytext)`

- `library(stringr)`

- `library(ggplot2)`

# 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<-gutenberg_download(345)
colnames(dracula)

## [1] "gutenberg_id" "text"

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

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

# Unpack the Words

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

# The Bing Lexicon

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

## [1] "word"      "sentiment"

bing[500,]

## # A tibble: 1 x 2
##   word sentiment
##   <chr>      <chr>
## 1 bereft    negative
```

# The Inner Join

```
dracula_words<-inner_join(dracula_words,bing)

## Joining, by = "word"

dracula_words$gutenberg_id<-NULL
colnames(dracula_words)

## [1] "word"      "sentiment"
```

# Top Ten Positive Words I

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

# Top Ten Positive Words II

```
dracula_pos
```

```
## # A tibble: 10 x 3
##       word count sentiment
##   <chr> <int>    <chr>
## 1  sweet     66  positive
## 2  ready     71  positive
## 3  better     77  positive
## 4   love     84  positive
## 5  right     99  positive
## 6   work    146  positive
## 7  great    183  positive
## 8   well    245  positive
## 9   good    258  positive
## 10  like    292  positive
```

# Top Ten Negative Words

```
## # A tibble: 10 x 3
##       word count sentiment
##   <chr> <int>    <chr>
## 1   hard    49   negative
## 2 trouble   53   negative
## 3   fell    59   negative
## 4   dark    77   negative
## 5 strange   90   negative
## 6  death    94   negative
## 7 terrible 100   negative
## 8   dead   109   negative
## 9   fear   137   negative
## 10  poor   193   negative
```

# The Comparison Barplot I

```
dracula_pos$word<-factor(dracula_pos$word,  
                          levels=dracula_pos$word  
dracula_neg$word<-factor(dracula_neg$word,  
                          levels=dracula_neg$word  
  
dracula_comp<-rbind(dracula_pos,dracula_neg)  
  
plot<-ggplot()+  
  geom_bar(data=dracula_comp,aes(x=word,y=count,  
  fill=sentiment, color=sentiment),stat='identity')  
  coord_flip()+  
  facet_wrap(~sentiment,scales='free_y')+  
  scale_fill_manual(values=c('black','#ea6205'))  
  scale_color_manual(values=c('#ea6205','black'))
```



# The Comparison Barplot II

