Comparison Barplots

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Outline

install and load **libraries** Access Project Gutenbergr Download Dracula Unpack the words The Bing Lexicon The Inner Join Positive Darcula Words Negative Darcula Words Graph of Negative Darcula Words Graph of

library(dplyr)

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library(tidytext)

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library(ggplot2)

- library(dplyr)
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library(gutenbergr)

- library(dplyr)
- library(tidytext)
- library(ggplot2)
- library(gutenbergr)
- library(stringr)

Access Project Gutenbergr

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

## [1] 345 10150

df$title

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

Download Dracula

```
drac<-gutenberg_download(345)</pre>
## Determining mirror for Project Gutenberg
from http://www.qutenberg.org/robot/harvest
## Using mirror http://aleph.gutenberg.org
colnames(drac)
## [1] "gutenberg_id" "text"
substr(drac$text[500],1,21)
## [1] "my own disappointment"
```

Unpack the words

```
drac_words<-drac%>%
   unnest_tokens(word,text)
colnames(drac_words)

## [1] "gutenberg_id" "word"
drac_words$word[498:500]

## [1] "fail" "to" "have"
```

The Bing Lexicon

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

The Inner Join

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

Positive Darcula Words

```
drac_pos<-drac_words%>%
 filter(sentiment == 'positive')%>%
 group_by(word)%>%
  summarize(count=n(),sentiment=first(sentimen
 arrange(count)%>%
 top_n(10,wt=count)
drac_pos$word<-factor(drac_pos$word,level=drac
drac_pos[1:10,]
## # A tibble: 10 x 3
## word count sentiment
```

<fctr> <int> <chr> ## 1 sweet 66 positive 2 ready 71 positive

3 better 77 positive 4 love 84 positive

aa

nogitiva

5 right

##

##

```
Negative Darcula Words
drac_neg<-drac_words%>%
  filter(sentiment == 'negative') %>%
  group_by(word)%>%
  summarize(count=n(),sentiment=first(sentimen
  arrange(count)%>%
  top_n(10,wt=count)
drac_neg[1:10,]
## # A tibble: 10 x 3
##
          word count sentiment
```

2 trouble

5 strange

fell

dark 77

##

##

##

##

##

1

```
filter(word!='miss')%>%
drac_neg$word<-factor(drac_neg$word,level=drac
```

<fctr> <int>

hard 49 negative

59

90

<chr>

53 negative

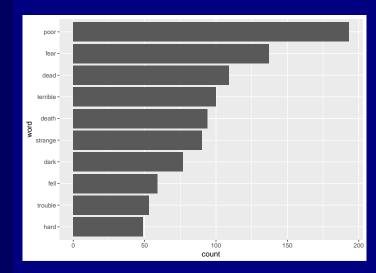
negative

negative

negative

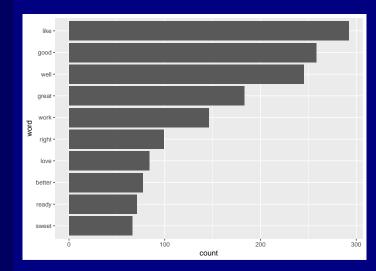
Graph of Negative Darcula Words I

Graph of Negative Darcula Words II



Graph of Positive Darcula Words I

Graph of Positive Darcula Words II



comparision Plot for Positive and negative words I

```
drac_compare<-rbind(drac_pos,drac_neg)</pre>
compPlot<-ggplot()+
  geom_bar(data=drac_compare, aes(x=word,
                                   y=count,
                                   fill=sentimen
                                   color=sentime
           stat = 'identity')+
  facet_wrap(~sentiment,scales = 'free_y')+
  scale_fill_manual(values=c('green','yellow')
  scale_color_manual(values = c('red', 'pink'))
```

comparision Plot for Positive and negative words II

compPlot

