## Sentiment in R

```
v <- read_rds('data/vyvanse.rds')</pre>
s <- read rds('data/Stratteraoral.rds')</pre>
a1 <- read_rds('data/Adderall-oral.rds')</pre>
a2 <- read_rds('data/Adderallxroral.rds')</pre>
a <- a1 %>%
  bind_rows(a2)
tidy.v <- v %>%
  unnest_tokens(word,comment)
tidy.s <- s %>%
  unnest_tokens(word,comment)
tidy.a <- a %>%
  unnest_tokens(word,comment)
install.packages("textdata")
## Installing package into '/home/jovyan/.rsm-msba/R/x86_64-pc-linux-gnu-library/3.6'
## (as 'lib' is unspecified)
library(textdata)
nrc <- get_sentiments("nrc")</pre>
v.sentiment <- tidy.v %>%
  inner_join(nrc, by = c("word"))
s.sentiment <- tidy.a %>%
  inner_join(nrc, by = c("word"))
a.sentiment <- tidy.s %>%
  inner_join(nrc, by = c("word"))
v.sentiment <- v.sentiment %>%
  mutate(Drug_Name = "VYVANSE")
s.sentiment <- s.sentiment %>%
  mutate(Drug_Name = "STRATTERAORAL")
a.sentiment <- a.sentiment %>%
  mutate(Drug_Name = "ADDERALL")
names(v.sentiment)
## [1] "reviewer"
                         "Ease.of.Use"
                                          "Effectiveness" "Satisfaction"
## [5] "condition"
                         "date"
                                          "helpful"
                                                          "word"
## [9] "sentiment"
                         "Drug_Name"
```

```
vl.sentiment <- v.sentiment %>%
  group_by(sentiment, Drug_Name) %>%
  summarise(count = n())
sl.sentiment <- s.sentiment %>%
  group_by(sentiment, Drug_Name) %>%
  summarise(count = n())
al.sentiment <- a.sentiment %>%
  group_by(sentiment, Drug_Name) %>%
  summarise(count = n())
gl <- vl.sentiment %>%
  bind_rows(sl.sentiment) %>%
  bind_rows(al.sentiment)
install.packages("xlsx")
## Installing package into '/home/jovyan/.rsm-msba/R/x86_64-pc-linux-gnu-library/3.6'
## (as 'lib' is unspecified)
library(xlsx)
gl
## # A tibble: 30 x 3
## # Groups: sentiment [10]
##
      sentiment Drug_Name count
##
                  <chr>
      <chr>
                            <int>
## 1 anger
                  VYVANSE
                              1603
## 2 anticipation VYVANSE
                              2612
## 3 disgust
                  VYVANSE
                             1154
## 4 fear
                  VYVANSE
                             2180
## 5 joy
                  VYVANSE
                             1941
## 6 negative
                  VYVANSE
                              3935
## 7 positive
                  VYVANSE
                              4957
## 8 sadness
                  VYVANSE
                              2283
## 9 surprise
                   VYVANSE
                              1303
## 10 trust
                  VYVANSE
                              2994
## # ... with 20 more rows
```