A Guide for Tidying Text Data in R

Hello! In order to analyze subject line keywords, I have put together a simple guide on how to separate and organize the keywords in R.

1. First, install packages 'tidytext' and 'dplyr' in R and open the libraries in R: > library(tidytext) > library(dplyr) Attaching package: 'dplyr' The following objects are masked from 'package:stats': filter, lag The following objects are masked from 'package:base': intersect, setdiff, setequal, union 2. Read in data: > library(readx1) > text_analysis <- read_excel("C:/Users/Heidi/Desktop/SMMC Data/text analysis
.xlsx")</pre> > View(text_analysis) 3. Use tibble() function to only include the factors you want to look at (e.g. open% and subject line): > employeetext<-tibble(open=text_analysis\$`open %`,text=text_analysis\$`subjec</pre> t line`) 4. Separate the subject lines into separate words by using the unnest tokens() function: > unnested<-employeetext %>% + unnest_tokens(word,text) 5. Use the group by() function to group the words that are the same and use the summarise(mean()) function to average out the open rates for the words: > View(unnested) > averaged<-unnested %>% + group_by(word) %>% + summarise(averageopen=mean(open)) > View(averaged) 6. Order by average open rate (highest to lowest): text_order<-averaged[order(-averaged\$averageopen),]</pre> 7. (optional) plot: library (ggplot2) # Basic barplot Here is a website that goes more into depth with tidying text data:

https://www.tidytextmining.com/