Title Goes Here

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Text of abstract

1 Formatting Open Science Group  
2 Federation of Planets  
3 Acme Corporation

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Keywords: keyword 1; keyword 2; keyword 3

Highlights: These are the highlights.

# Introduction

Here is a citation (Marwick, 2017)

https://annakrystalli.me/rrresearch/10\_compendium.html

# Background

Natural language processing, text analytics

https://github.com/datasciencedojo/IntroToTextAnalyticsWithR/tree/master

# Install all required packages.  
# install.packages(c("ggplot2",   
# "e1071",   
# "caret",   
# "quanteda",   
# "irlba",   
# "randomForest"))

# Load up the .CSV data and explore in RStudio.  
spam.raw <- read.csv("../data/raw\_data/spam.csv",   
 stringsAsFactors = FALSE,   
 fileEncoding = "UTF-16")  
  
# Clean up the data frame and view our handiwork.  
spam.raw <- spam.raw[, 1:2]  
names(spam.raw) <- c("Label", "Text")  
View(spam.raw)  
  
# Check data to see if there are missing values.  
length(which(!complete.cases(spam.raw)))

[1] 0

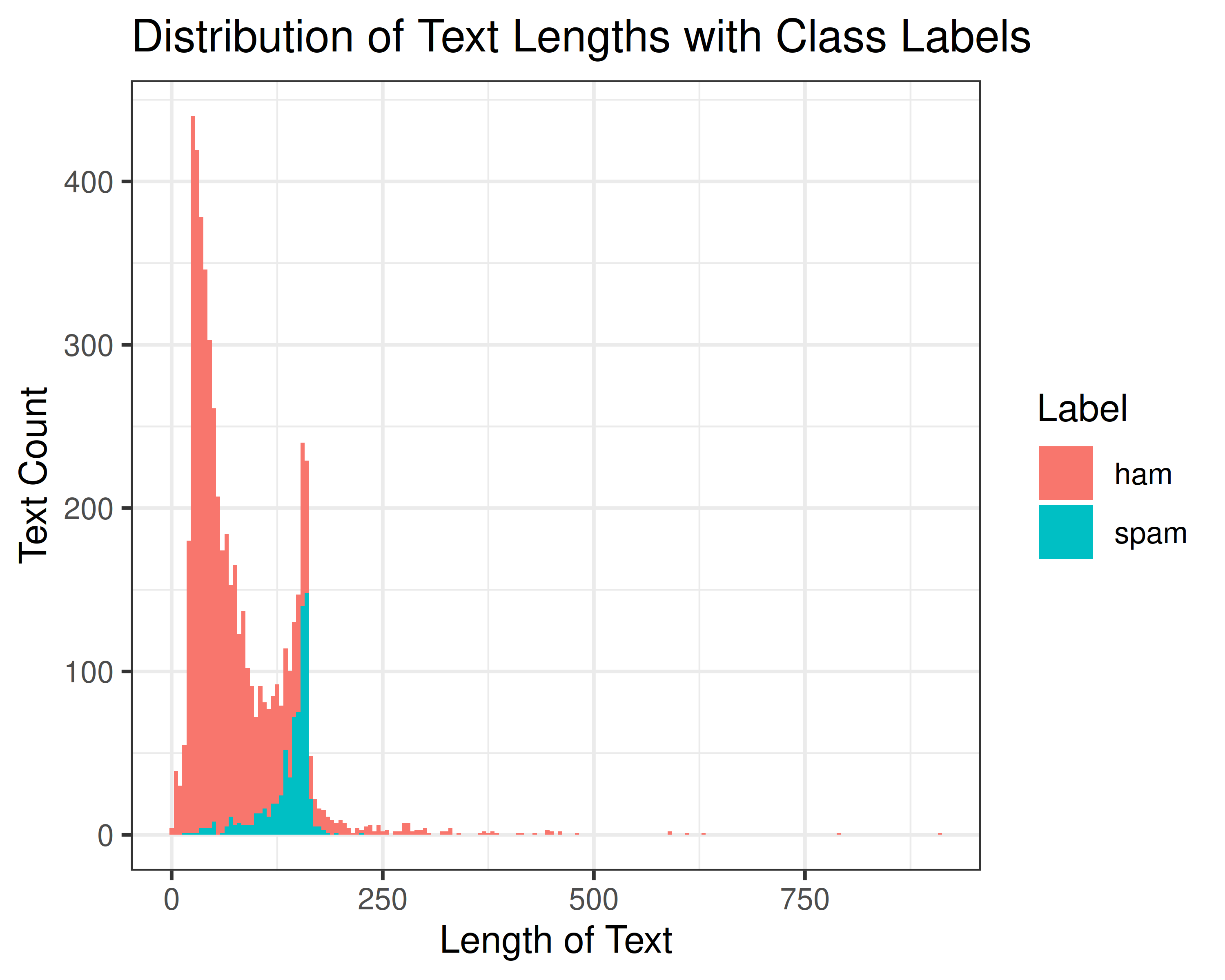
# Convert our class label into a factor.  
spam.raw$Label <- as.factor(spam.raw$Label)  
  
# The first step, as always, is to explore the data.  
# First, let's take a look at distibution of the class labels (i.e., ham vs. spam).  
prop.table(table(spam.raw$Label))

ham spam   
0.8659368 0.1340632

# Next up, let's get a feel for the distribution of text lengths of the SMS   
# messages by adding a new feature for the length of each message.  
spam.raw$TextLength <- nchar(spam.raw$Text)  
summary(spam.raw$TextLength)

Min. 1st Qu. Median Mean 3rd Qu. Max.   
 2.00 36.00 61.00 80.12 121.00 910.00

# Visualize distribution with ggplot2, adding segmentation for ham/spam.  
library(ggplot2)  
  
ggplot(spam.raw, aes(x = TextLength, fill = Label)) +  
 theme\_bw() +  
 geom\_histogram(binwidth = 5) +  
 labs(y = "Text Count", x = "Length of Text",  
 title = "Distribution of Text Lengths with Class Labels")



https://m-clark.github.io/text-analysis-with-R/

# Methods

bla

# Results

bla

# Note the path that we need to use to access our data files when rendering this document  
my\_data <- read.csv(here::here('analysis/data/raw\_data/my\_csv\_file.csv'))

plot(rnorm(10))

|  |
| --- |
| Figure 1: A plot of random numbers |

[Figure 1](#fig-demo-plot) shows how we can have a caption and cross-reference for a plot. Note that figure label and cross-references must both be prefixed with fig-

Here is an example of inline code 3.14 in the middle of a sentence.

# Discussion

# Conclusion

# Acknowledgements

# References

Marwick, B., 2017. Computational reproducibility in archaeological research: Basic principles and a case study of their implementation. Journal of Archaeological Method and Theory 24, 424–450. <https://doi.org/10.1007/s10816-015-9272-9>

### Colophon

This report was generated on 2023-11-13 23:03:07 using the following computational environment and dependencies:

# which R packages and versions?  
if ("devtools" %in% installed.packages()) devtools::session\_info()

─ Session info ───────────────────────────────────────────────────────────────  
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 system x86\_64, linux-gnu  
 ui X11  
 language (EN)  
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 ctype en\_US.UTF-8  
 tz Europe/Madrid  
 date 2023-11-13  
 pandoc 3.1.1 @ /usr/lib/rstudio/resources/app/bin/quarto/bin/tools/ (via rmarkdown)  
  
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 [4] /usr/lib/R/library  
  
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The current Git commit details are:

# what commit is this file at?   
if ("git2r" %in% installed.packages() & git2r::in\_repository(path = ".")) git2r::repository(here::here())

Local: master /home/jordi/Documents/nlprrcompendium  
Remote: master @ origin (https://github.com/sandpiles/nlprrcompendium.git)  
Head: [8b36b81] 2023-11-12: small changes