# Final Project Web Scraping

### RcCatedral

#### 2023-12-22

```
library(rvest)
library(tidyverse)
## -- Attaching core tidyverse packages -----
                                                    ----- tidyverse 2.0.0 --
## v dplyr 1.1.4
                       v readr
                                    2.1.4
## v forcats 1.0.0
                        v stringr 1.5.1
## v ggplot2 3.4.4
                     v tibble
                                    3.2.1
## v lubridate 1.9.3
                     v tidyr
                                    1.3.0
## v purrr
             1.0.2
## -- Conflicts ----- tidyverse_conflicts() --
                     masks stats::filter()
## x dplyr::filter()
## x readr::guess_encoding() masks rvest::guess_encoding()
## x dplyr::lag()
                   masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become error
library(tidytext)
url <- "https://www.amazon.com/Redragon-Keyboard-Mechanical-Software-Supported/dp/B09BVCVTBC/ref=sr_1_2
data_scrape <- read_html(url)</pre>
user_name <- data_scrape %>%
 html_nodes(".a-profile-name") %>%
 html_text()
keyboard_rating <- data_scrape %>%
  html_nodes(".review-rating") %>%
  html_text()
reviews <- data_scrape %>%
  html_nodes(".review-text-content span") %>%
  html_text()
max_length <- max(length(user_name), length(keyboard_rating), length(reviews))</pre>
user_name <- rep(user_name, length.out = max_length)</pre>
keyboard_rating <- rep(keyboard_rating, length.out = max_length)</pre>
reviews <- rep(reviews, length.out = max_length)
analysis_data <- data.frame(user_name, keyboard_rating, reviews)</pre>
analysis_data <- analysis_data %>%
  unnest_tokens(word, reviews) %>%
  inner_join(get_sentiments("afinn"), by = "word") %>%
```

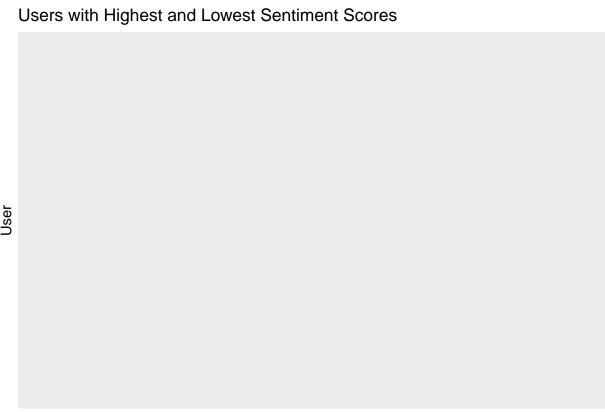
```
group_by(user_name) %>%
summarize(sentiment_score = sum(value, na.rm = TRUE))

ggplot(analysis_data, aes(x = sentiment_score)) +
  geom_histogram(binwidth = 1, fill = "red", color = "orange") +
  labs(title = "Distribution of Sentiment Scores", x = "Sentiment Score", y = "Frequency")
```

## Distribution of Sentiment Scores

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```

# Sentiment Score



Sentiment Score