Group6Final_Activity

```
library(rvest)
library(purrr)
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
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter()         masks stats::filter()
## x readr::guess_encoding() masks rvest::guess_encoding()
## x dplyr::lag()            masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```
library(tidytext)

url <- "https://www.amazon.com/Bluedio-Turbine-Wireless-Bluetooth-Headphones/dp/B00LA58P0Q/ref=cm_cr_ar

data_scrape <- read_html(url)

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()

print(user_name)
```

```
## character(0)
```

```
print(keyboard_rating)
```

```
## character(0)
```

```
print(reviews)
```

```
## character(0)
```

```
analysis_data <- data.frame(user_name, keyboard_rating, reviews)
analysis_data
```

```
## [1] user_name       keyboard_rating reviews
## <0 rows> (or 0-length row.names)
```

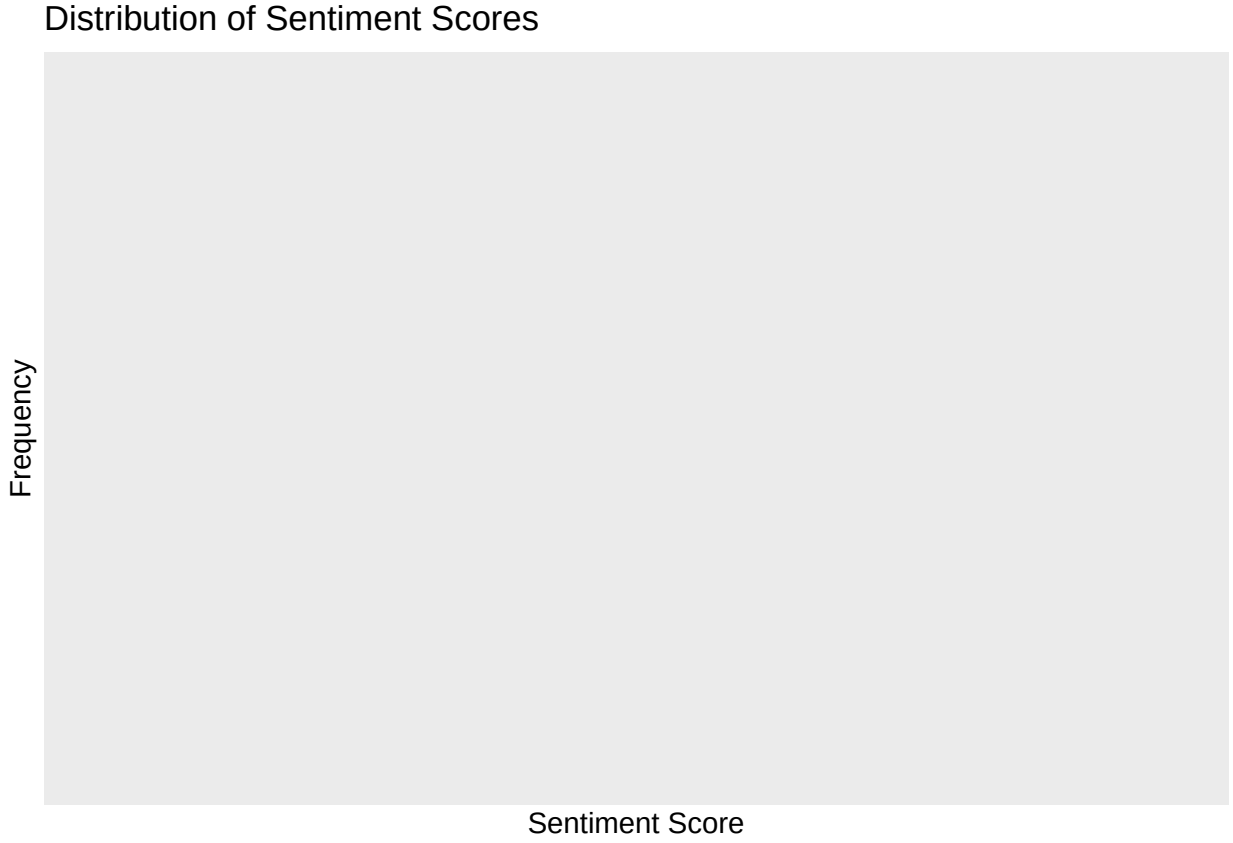
```r
analysis_data <- analysis_data %>%
  unnest_tokens(word, reviews) %>%
  inner_join(get_sentiments("afinn"))
```

```
## Joining with `by = join_by(word)`
```

```r
sentiment_scores <- analysis_data %>%
  group_by(user_name) %>%
  summarize(sentiment_score = sum(value))

analysis_data <- left_join(analysis_data, sentiment_scores, by = "user_name")

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




```r
# Modified this part to fix the error
top_users <- analysis_data %>%
  arrange(sentiment_score) %>%
  slice_head(n = 5) %>%
  bind_rows(analysis_data %>%
              arrange(desc(sentiment_score)) %>%
              slice_tail(n = 5))

ggplot(top_users, aes(x = reorder(user_name, sentiment_score), y = sentiment_score, fill = user_name)) +
  geom_bar(stat = "identity") +
  coord_flip() +
```

```
  labs(title = "Users with Highest and Lowest Sentiment Scores", x = "User", y = "Sentiment Score")
```