

# BHDS Assignment 3

Elaine Fan

2025-10-30

```
df <- read.csv("TextMessages.csv")
library(tidyverse)

## Warning: package 'tidyverse' was built under R version 4.3.2
## Warning: package 'readr' was built under R version 4.3.2
## Warning: package 'dplyr' was built under R version 4.3.2
## Warning: package 'stringr' was built under R version 4.3.2

## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr     1.1.4    v readr     2.1.5
## vforcats   1.0.0    v stringr   1.5.1
## v ggplot2   3.5.0    v tibble    3.2.1
## v lubridate 1.9.3    v tidyverse  1.3.1
## v purrr    1.0.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()   masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors.
df_long <- df %>% pivot_longer(cols = c(Baseline, Six_months), names_to = "Time", values_to = "Text_Count")

library(ggplot2)

ggplot(df_long, aes(x = Time, y = Text_Count, fill = Time)) +
  geom_boxplot() + facet_wrap(~Group) +
  labs(title = "Text Messages by Group and Time",
       x = "Time Point",
       y = "Number of Text Messages",
       fill = "Group")
```

## Text Messages by Group and Time

