

P8131 HW7

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Load packages

```
library(tidyverse)
```

Import data

```
data = read_csv("HW7-politeness_data.csv", col_types = "fffd")
```

a) **EDA**

```
data %>%  
  mutate(  
    attitude = factor(attitude, labels = c("Polite", "Informal"))  
  ) %>%  
  ggplot(aes(x = gender, y = frequency, fill = gender)) +  
  geom_boxplot() +  
  facet_grid(cols = vars(attitude)) +  
  scale_fill_manual(labels = c("Female", "Male"), values = c("#A13E60", "#3E7BA1")) +  
  labs(  
    title = "Relationship between Gender/Attitude and Pitch across Scenarios",  
    y = "Pitch (frequency)"  
  ) +  
  theme(  
    plot.title = element_text(size = 11, hjust = 0.5),  
    axis.title.x = element_blank(),  
    axis.text.x = element_blank(),  
    axis.ticks.x = element_blank(),  
    legend.position = "bottom",  
    legend.title = element_blank()  
  )
```

