library(ggplot2)

library(tidyverse)

# Read in the bike data

bike <- read.csv('https://raw.githubusercontent.com/IAA-Faculty/statistical\_foundations/master/bike.csv')

# Two-way ANOVA with interaction for count

bike\_aov\_int <- aov(cnt ~ factor(workingday)\*factor(season), data = bike)

summary(bike\_aov\_int)

# Two-way ANOVA with interaction for registered

biker\_aov\_int <- aov(registered ~ factor(workingday)\*factor(season), data = bike)

summary(biker\_aov\_int)

# Two-way ANOVA with interaction for casual

bikec\_aov\_int <- aov(casual ~ factor(workingday)\*factor(season), data = bike)

summary(bikec\_aov\_int)

# Sliced ANOVA for different levels of season for casual users

bike\_aov\_s <- bike %>%

group\_by(season) %>%

nest() %>%

mutate(aov = map(data, ~summary(aov(casual ~ factor(workingday), data = .x))))

bike\_aov\_s

print(bike\_aov\_s$aov)