

Homework 3

2024-09-27

Exercise 1

Read the data in the chunk below. Propose a statistical model (using mathematical notation) to describe the relationship between crown biomass and legume species, and fit that model to the data.

```
library(tidyverse)
```

```
url <- "https://raw.githubusercontent.com/jlacasa/stat705_fall2024/main/classes/data/lotus_part4.csv"
dd <- read.csv(url)
```

```
dd %>%
  ggplot(aes(species, crown_g)) +
  geom_boxplot(aes(fill = trt)) +
  scale_fill_manual(values = c("#43AA8B", "#DB504A")) +
  labs(x = "Species",
       y = "Crown biomass (g)",
       fill = "Species") +
  theme_classic() +
  theme(aspect.ratio = 1)
```

