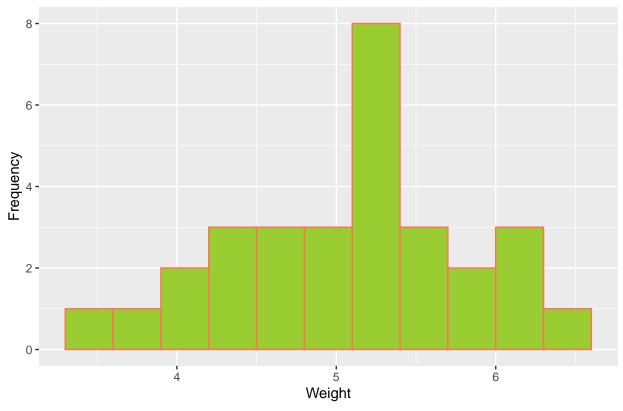
WK3 Assignment 1 of 2 - PlantGrowth

Avi

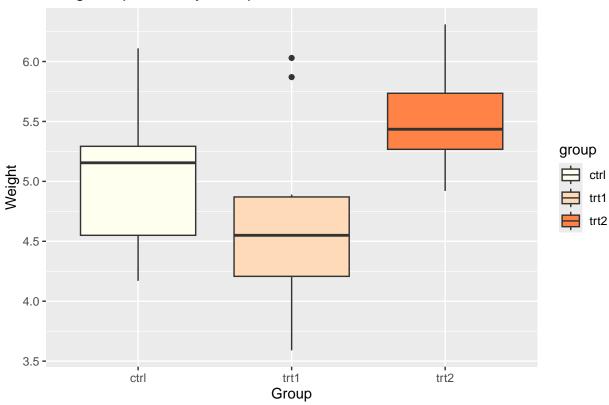
2025-02-03

Plant Weight



```
ggplot(PlantGrowth, aes(x = group, y = weight, fill = group)) +
  geom_boxplot() +
  labs(title = "Weight separated by Group", x = "Group", y = "Weight") +
  scale_fill_manual(values = c("ivory", "peachpuff", "sienna1"))
```

Weight separated by Group



```
# It looks like only 2 weights of trt1 are above the trt2 minimum, since trt1 has 10 data sets,
# I estimate that 80% of trt1 weight is below trt2 minimum

min_weight_trt2 <- min(PlantGrowth$weight[PlantGrowth$group == "trt1"])

weight_trt1 <- PlantGrowth$weight[PlantGrowth$group == "trt1"]

percent_trt1_below_min_trt2 <- mean(weight_trt1 < min_weight_trt2) * 100

cat(percent_trt1_below_min_trt2, "% of the trt1 weights are below the minimum trt2 weight.")</pre>
```

80 % of the trt1 weights are below the minimum trt2 weight.

```
PlantGrowth_above_5.5 <- subset(PlantGrowth, weight > 5.5)

ggplot(PlantGrowth_above_5.5, aes(x = group, fill = group)) +
  geom_bar() +
  labs(title = "Plants with weight > 5.5", x = "Group", y = "Count") +
  scale_fill_manual(values = heat.colors(3))
```

