

BCB520 Test Codes

Data Preparation

```
suppressMessages({  
  library(here)  
  library(readxl)  
  library(dplyr)  
  library(tidyr)  
  library(brms)  
  library(car)  
  library(ggplot2)})
```

```
data <- read_excel(here::here("data", "viz_data.xlsx"), na="NA") |>  
  mutate(day = factor(day, levels = sort(as.numeric(unique(day))), ordered =  
    ↪ TRUE),  
    location = as.factor(location),  
    primal = as.factor(primal),  
    trt = as.factor(trt),  
    eval = factor(eval, levels = unique(eval)),  
    flean = as.factor(lean),  
    fbrown = as.factor(brown),  
    fdisc = as.factor(disc),  
    fsurface = as.factor(surface),  
    funi = as.factor(uni)) |>  
  mutate(sample = paste(primal, location, trt, sep = "_")) |>  
  na.exclude()
```

Eval differences

```
ggplot2::ggplot(data, aes(x = day, y = lean, fill = eval)) +
  geom_boxplot() +
  labs(x = "Retail Day", y = "Lean Color", fill = "Evaluator") +
  scale_y_continuous(limits = c(1,8), breaks = seq(1,8, by = 0.5)) +
  theme_bw()
```

