

Beer Preferences for Thursday Night Football: A Balanced Incomplete Block Design Experiment

Matthew Murnane

Ethan Newcomb

Abstract

Introduction

Methods

Results

Table 1: Beer Ratings by Participant

Beers	Nolan	Jon	Benni	Zach
Sierra(Pale_ale)	NA	5.5	7.0	2.5
Coors(Generic)	6.0	6.0	NA	6.5
Guinness(Dark)	5.5	3.5	4.0	NA
Pliny(IPA)	3.0	NA	8.5	2.0

Conclusion

Appendix

Code Used

Libraries Used

```
library(tidyverse)
library(ggthemes)
library(tidyr)
library(knitr)
```

Data Code

```
# Data input
beers <- c("Sierra(Pale_ale)", "Coors(Generic)", "Guinness(Dark)", "Pliny(IPA)")
Nolan <- c(NA, 6, 5.5, 3)
Jon <- c(5.5, 6, 3.5, NA)
Benni <- c(7, NA, 4, 8.5)
Zach <- c(2.5, 6.5, NA, 2)

raw_data <- data.frame(beers, Nolan, Jon, Benni, Zach)

# Data Cleaning

pivoted_raw_data <- pivot_longer(raw_data,
                                cols=-beers,
                                names_to = "names",
                                values_to = "rating")

cleaned_data <- pivoted_raw_data %>%
  drop_na(rating)

#Table
raw_data %>%
  kable(
    caption = "Beer Ratings by Participant",
    col.names = c("Beers", "Nolan", "Jon", "Benni", "Zach"),
    align = "c"
  )
```