Week 9 project

Khue Tran

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Libraries

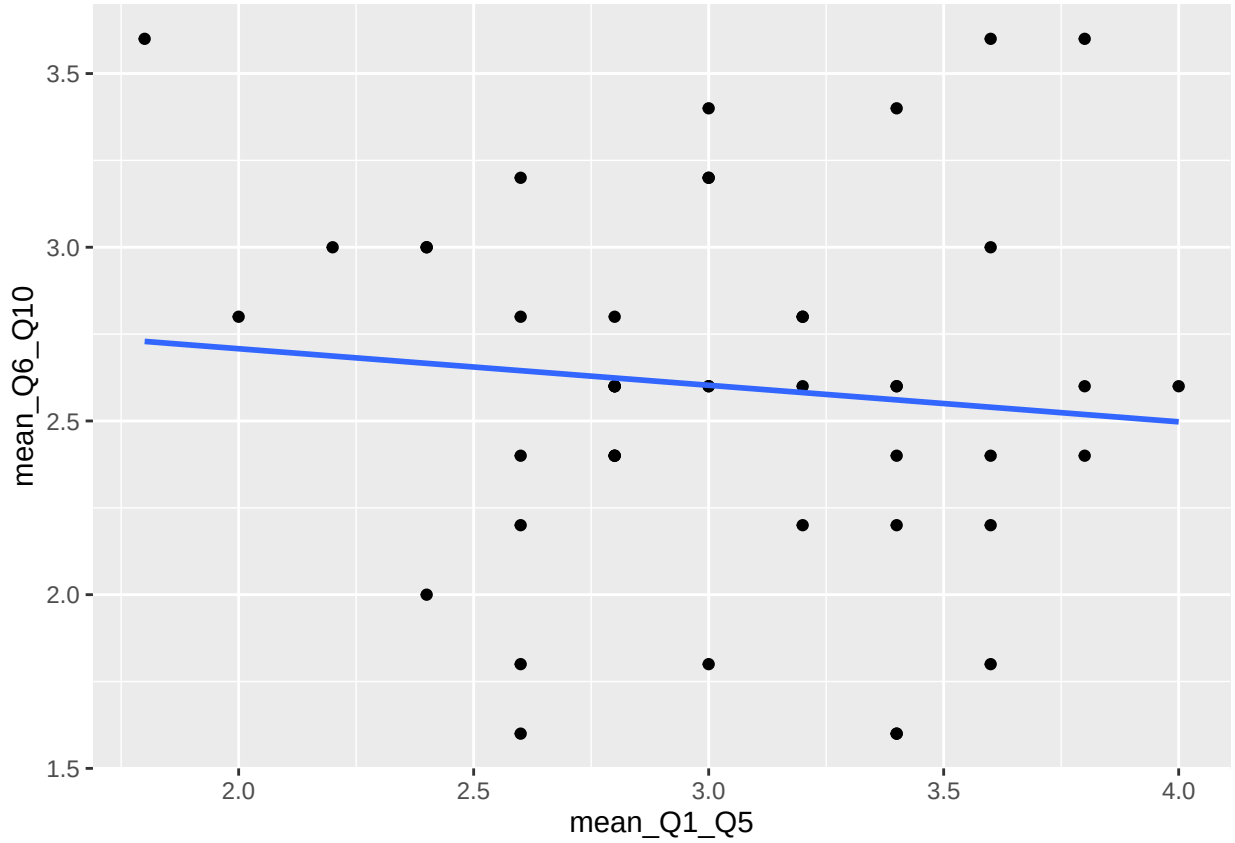
Data import

Data cleaning steps

- Change format of timeStart and timeEnd to date format
- Recode Condition as Block A, Block B, and Control
- Recode Gender as Male and Female
- Filter Q6 for attentive response

```
week9_tbl <- read_csv("../data/week3.csv") %>%
  mutate(timeStart = lubridate::ymd_hms(timeStart),
         timeEnd   = lubridate::ymd_hms(timeEnd)) %>%
  mutate(condition = recode_factor(condition, "A" = "Block A", "B" = "Block B", "C" = "Control"),
         gender    = recode_factor(gender, "M" = "Male", "F" = "Female")) %>%
  filter(q6 == 1)
```

Visualization



The scatter plot displays the relationship between mean of Q1 to Q5 and mean of Q6 to Q10.

Analysis

```
cor.test(week9_tbl$mean_Q1_Q5, week9_tbl$mean_Q6_Q10)
```

```
##
##  Pearson's product-moment correlation
##
## data:  week9_tbl$mean_Q1_Q5 and week9_tbl$mean_Q6_Q10
## t = -0.67267, df = 44, p-value = 0.5047
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.3800577  0.1951219
## sample estimates:
##       cor
## -0.100891
```

The correlation was -0.100891 (p>.05), which is not statistically significant.

R shiny app

https://trann003.shinyapps.io/week9/