Milestone 4 Graphs

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R Markdown

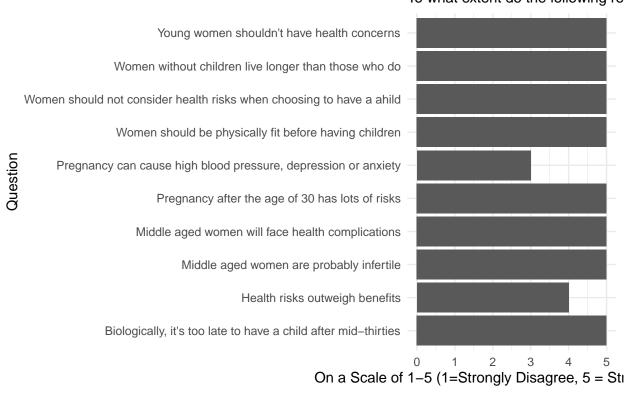
```
nj <- read_csv("njsurvey.csv")</pre>
## Rows: 126 Columns: 36
## -- Column specification -----
## Delimiter: ","
## chr (6): Gender, Employment Status, Race/Ethnicity, Relationship Status, Cu...
## dbl (30): Age, Q1, Q2, Q3, Q4, Q5, Q6, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15,...
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
q <- read_csv("questions.csv")</pre>
## Rows: 30 Columns: 3
## -- Column specification ---
## Delimiter: ","
## chr (3): Question Code, Full Question, Construct Name
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
nj <- nj %>%
  subset(Gender != "Male")
nj <- subset (nj, select = -Q7) \%
  rename(employ = "Employment Status")
financial <- nj %>%
  subset(select = -c(Q8:Q30)) \%
  rename(race = "Race/Ethnicity")
financial <- financial %>% pivot_longer(
    cols = starts_with("Q"),
   names_to = "question",
   values_to = "extent",
    values_drop_na = TRUE
society <- nj %>%
  subset(select = -c(Q1:Q6, Q13:Q30)) \%\%
  rename(race = "Race/Ethnicity")
society <- society %>% pivot_longer(
```

```
cols = starts_with("Q"),
    names_to = "question",
    values_to = "extent",
    values_drop_na = TRUE
  )
outinfluences <- nj %>%
  subset(select = -c(Q1:Q12, Q21:Q30)) \%\%
  rename(race = "Race/Ethnicity")
outinfluences <- outinfluences %>% pivot_longer(
   cols = starts_with("Q"),
   names_to = "question",
   values_to = "extent",
    values_drop_na = TRUE
health <- nj %>%
  subset(select = -c(Q1:Q20)) \%%
  rename(race = "Race/Ethnicity")
health <- health %>% pivot_longer(
   cols = starts_with("Q"),
   names_to = "question",
    values_to = "extent",
    values_drop_na = TRUE
race_financial <- financial %>%
  group_by(race) %>%
  summarise(mean(extent))%>%
  rename("Financial Extent" = "mean(extent)")
race_society <- society %>%
  group_by(race) %>%
  summarise(mean(extent)) %>%
  rename("Society Extent" = "mean(extent)")
race_outinfluences <- outinfluences %>%
  group_by(race) %>%
  summarise(mean(extent)) %>%
  rename("Outside Influences Extent" = "mean(extent)")
race_health <- health %>%
  group_by(race) %>%
  summarise(mean(extent)) %>%
  rename("Health Extent" = "mean(extent)")
df_list <- list(race_financial, race_society, race_outinfluences, race_health)</pre>
race_factors <- df_list %>% reduce(full_join, by='race')
race_factors <- pivot_longer(race_factors, cols = !race, names_to = "factor", values_to = "extent")
ggplot(race_factors, aes(x= factor, y = extent)) +
  geom_bar(aes(fill = race), stat = "identity",position = "dodge") +
```

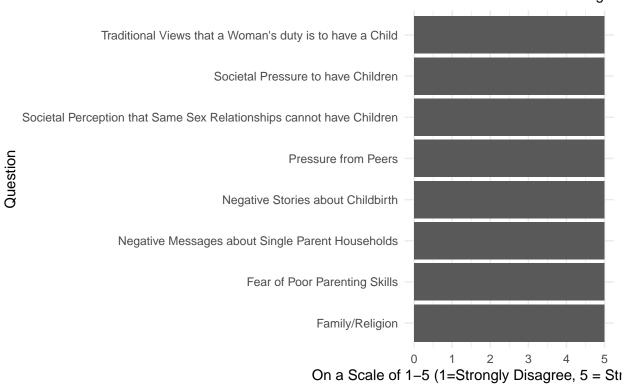
```
scale_fill_brewer(palette = "Set2") +
  theme_minimal()
                                                                                     race
                                                                                         African American
                                                                                         Asian
                                                                                         Caucasian / White
extent 2
                                                                                         Haitian-American
                                                                                        Hispanic
                                                                                         Indian
                                                                                        South American- Brazil
          Financial Extent
                                             Outside Influences Extent
                             Health Extent
                                                                   Society Extent
employ_financial <- financial %>%
  group_by(employ) %>%
  summarise(mean(extent))%>%
  rename("Financial Extent" = "mean(extent)")
employ_society <- society %>%
  group_by(employ) %>%
  summarise(mean(extent)) %>%
  rename("Society Extent" = "mean(extent)")
employ_outinfluences <- outinfluences %>%
  group_by(employ) %>%
  summarise(mean(extent)) %>%
  rename("Outside Influences Extent" = "mean(extent)")
employ_health <- health %>%
  group_by(employ) %>%
  summarise(mean(extent)) %>%
  rename("Health Extent" = "mean(extent)")
```

```
df_list <- list(employ_financial, employ_society, employ_outinfluences, employ_health)</pre>
employ_factors <- df_list %>% reduce(full_join, by='employ')
employ_factors <- pivot_longer(employ_factors, cols = !employ, names_to = "factor", values_to = "extent</pre>
ggplot(employ_factors, aes(x= factor, y = extent)) +
  geom_bar(aes(fill = employ), stat = "identity", position = "dodge") +
  scale_fill_brewer(palette = "Set2") +
  theme_minimal()
                                                                                   employ
                                                                                      Currently unemployed
                                                                                       Employee
                                                                                       Self-employed
                                                                                      Student
          Financial Extent
                             Health Extent
                                            Outside Influences Extent
                                                                  Society Extent
question_nums <- unique(health$question)</pre>
question_text <- c("Middle aged women are probably infertile", "Middle aged women will face health comp
health$question_text <- plyr::mapvalues(health$question,</pre>
           from = question_nums,
           to = question_text)
ggplot(health, aes(x = extent, y= question_text)) +
  geom_bar(stat = "identity", position = "dodge") +
```

Health Factors To what extent do the following re

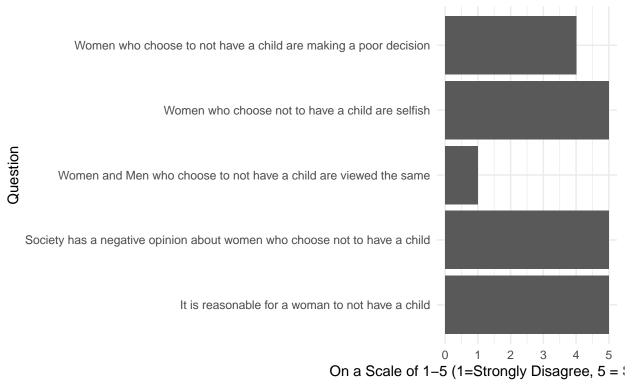


Outside Influences To what extent do the following re



Societal Factors

To what extent do the followir



Financial Factors To what extent do the following reasons influence

