Review 1 Notes

2024-01-25

Testing Pset 3 Data

```
require(tidyverse)
## Loading required package: tidyverse
## Warning: package 'tidyverse' was built under R version 4.3.2
## - Attaching core tidyverse packages -
                                                               --- tidyverse 2.0.0 ---
## √ dplyr 1.1.2 √ readr 2.1.4
## \checkmark forcats 1.0.0 \checkmark stringr 1.5.0
## √ ggplot2 3.4.4
                        √ tibble 3.2.1
## √ lubridate 1.9.2 √ tidyr 1.3.0
## √ purrr 1.0.1
## -- Conflicts ----
                                                          -- tidyverse conflicts() --
## X dplyr::filter() masks stats::filter()
## X dplyr::lag() masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts t
o become errors
dat <- read rds("https://github.com/jbisbee1/DS1000 S2024/raw/main/data/MI2020 ExitPoll.
rds")
dat <- dat %>%
 mutate(FAVTRUMP = as.numeric(haven::as factor(FAVTRUMP))) %>%
 mutate(fav trump text = ifelse(FAVTRUMP == 1,
                                  "Approve",
                                 ifelse(FAVTRUMP == 2,
                                         "Disapprove",
                                         "Refuse")))
dat %>%
 mutate(na trump = ifelse(is.na(FAVTRUMP),'This is NA','This is not NA')) %>%
 count(FAVTRUMP, na trump)
```

dat.

```
## # A tibble: 1,231 \times 64
    ID WEIGHT LALVOTERID GROUP ZIP DISTRICT Z1 S1 <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> >dbl+lbl> <
##
      9 0.405 LALMI6290066 3 [3] 49327
                                                 2 NA 1 [Yes]
##
       66 1.81 LALMI2492492 1 [1]
                                       48234
                                                  14 NA 1 [Yes]
  3 225 0.860 LALMI548981440 4 [4] 48301
##
                                                   9 48322 1 [Yes]
##
  4 243 0.199 LALMI505377239 1 [1]
                                       48130
                                                    7 48130 1 [Yes]
  5 286 0.177 LALMI6831689 1 [1]
##
                                       49946
                                                   1
                                                        NA 1 [Yes]
  6 293 0.492 LALMI4019782 1 [1] 48615
##
                                                   4
                                                         NA 1 [Yes]
  7 365 1.37 LALMI4151378 1 [1]
                                                   4 48813 1 [Yes]
##
                                       48906
  8 367 1.15 LALMI5912584 1 [1]
                                       49442
                                                   2 NA 1 [Yes]
                                       48451
  9 388 1.50 LALMI6635050 1 [1]
                                                   5 NA 1 [Yes]
##
## 10 417 1.30 LALMI3567125 1 [1]
                                       48197
                                                  12 NA 1 [Yes]
## # i 1,221 more rows
## # i 56 more variables: S2A <dbl+lbl>, S2B <dbl+lbl>, S3 <dbl+lbl>,
     S4 <dbl+lbl>, VERSION <dbl+lbl>, PRSMI20 <dbl+lbl>, SENMI20 <dbl+lbl>,
      TIME16 <dbl+lbl>, ISSUE20 <dbl+lbl>, QLT20 <dbl+lbl>, TEMPBIDEN <dbl+lbl>,
## #
## #
     TEMPTRUMP <dbl+lbl>, CONTROLSEN <dbl+lbl>, FINSIT <dbl+lbl>,
## # ECONVCORONA20 <dbl+lbl>, FAVBIDEN2 <dbl+lbl>, FAVTRUMP <dbl>,
## # FORCAND <dbl+lbl>, NEWVOTER <dbl+lbl>, NEC <dbl+lbl>, ...
```

Digging into research-ey questions

```
dat %>%
  count(fav_trump_text)
```

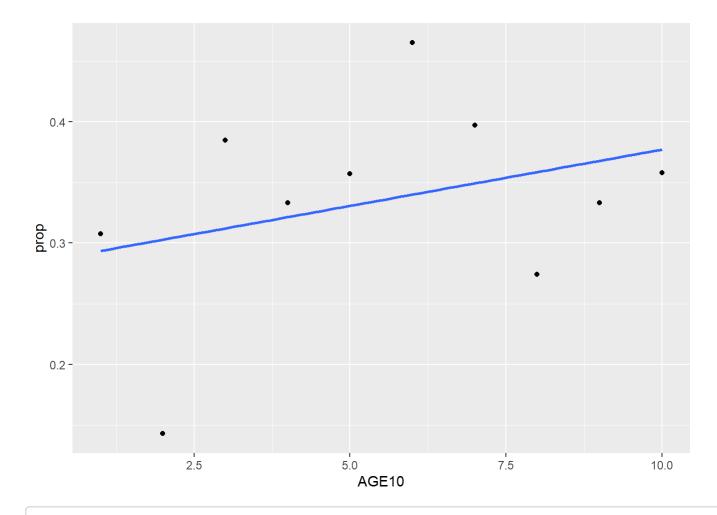
```
# Manually
220 / (220+385+10)
```

```
## [1] 0.3577236
```

```
# Using code
dat %>%
  count(fav_trump_text) %>%
  filter(!is.na(fav_trump_text)) %>%
  mutate(totVoters = sum(n)) %>%
  mutate(prop = n / totVoters)
```

RQ: Relationship between Age and Trump Approval

```
## `geom_smooth()` using formula = 'y ~ x'
```



#geom_bar(stat = 'identity')