#### Lecture 3 Notes

2024-07-02

## Which state (stabbr) has the lowest average admissions rate (adm\_rate)?

```
require(tidyverse)
## Loading required package: tidyverse
## - Attaching core tidyverse packages -
                                                           ----- tidyverse 2.0.0 ---
## √ dplyr 1.1.4 √ readr 2.1.5
## v forcats 1.0.0 v stringr 1.5.1 ## v ggplot2 3.5.1 v tibble 3.2.1

√ tidyr 1.3.1

## ✓ lubridate 1.9.3
## √ purrr 1.0.2
## -- 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
df <- read rds("https://github.com/jbisbee1/ISP Data Science 2024/raw/main/data/sc debt.
Rds")
df %>%
 arrange (adm rate) %>%
 select(stabbr,adm rate)
## # A tibble: 2,546 \times 2
## stabbr adm rate
    ##
## 1 NY
## 2 NY
## 3 MA
             0.0197
             0.0393
0.0434
## 4 PA
## 5 CA
             0.0464
## 6 MA
## 7 CA
             0.0511
##
  8 NY
             0.0545
## 9 NJ
              0.0578
## 10 CT
             0.0608
## # i 2,536 more rows
```

```
df %>%
  group_by(stabbr) %>%
  summarise(avg_adm_rate = mean(adm_rate,na.rm=T)) %>%
  arrange(avg_adm_rate)
```

```
## # A tibble: 51 × 2
## stabbr avg adm rate
    <chr>
                <dbl>
## 1 DC
                0.529
## 2 MA
                0.582
## 3 CT
                0.589
## 4 CA
                0.592
## 5 NC
                0.609
## 6 RI
                0.619
## 7 FL
                0.620
## 8 DE
                0.627
## 9 LA
                0.646
                 0.650
## # i 41 more rows
```

# Research Question: Do students from more selective schools (selective) make a higher salary (md earn wne p6)?

```
# First, make selective using mutate() and ifelse()
df %>%
  mutate(example_new_column = adm_rate / 2)
```

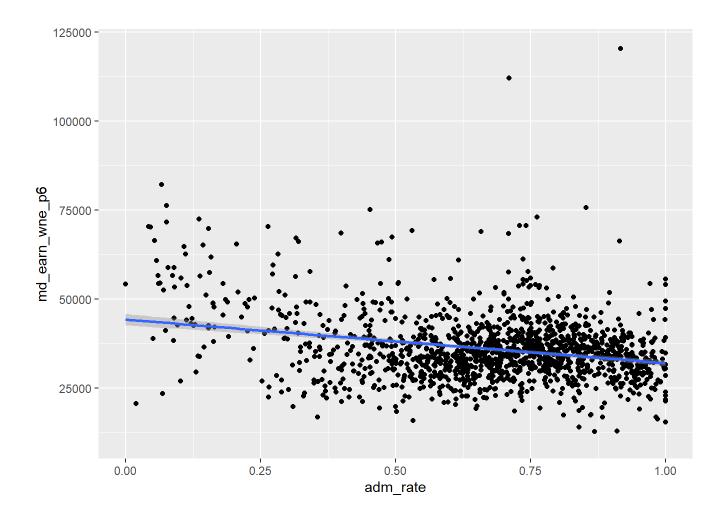
```
## # A tibble: 2,546 \times 17
##
   unitid instmm stabbr grad debt_mdn control region preddeg openadmp adm_rate
    33375 Public South... Bachel...
                                                            2 0.918
## 1 100654 Alabama... AL
                              22500 Public South... Bachel...
  2 100663 Univers... AL
                                                              2 0.737
## 3 100690 Amridge... AL
                              27334 Private South... Associ...
                                                              1 NA
                               21607 Public South... Bachel...
  4 100706 Univers... AL
                                                              2 0.826
                               32000 Public South... Bachel...
  5 100724 Alabama... AL
                                                              2 0.969
## 6 100751 The Uni... AL
                              23250 Public South... Bachel...
                                                              2 0.827
                              12500 Public South... Associ...
  7 100760 Central... AL
  8 100812 Athens ... AL
                               19500 Public South... Bachel...
  9 100830 Auburn ... AL
                              24826 Public South... Bachel...
                                                              2 0.904
## 10 100858 Auburn ... AL
                               21281 Public South... Bachel...
                                                              2 0.807
## # i 2,536 more rows
\#\# \# \# \# 8 more variables: ccbasic <int>, sat avg <int>, md earn wne p6 <int>,
## # ugds <int>, costt4 a <int>, selective <dbl>, research u <dbl>,
## # example new column <dbl>
```

#### Introducing functions from ggplot2

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

```
## Warning: Removed 1092 rows containing non-finite outside the scale range
## (`stat_smooth()`).
```

```
## Warning: Removed 1092 rows containing missing values or values outside the scale rang
e
## (`geom_point()`).
```

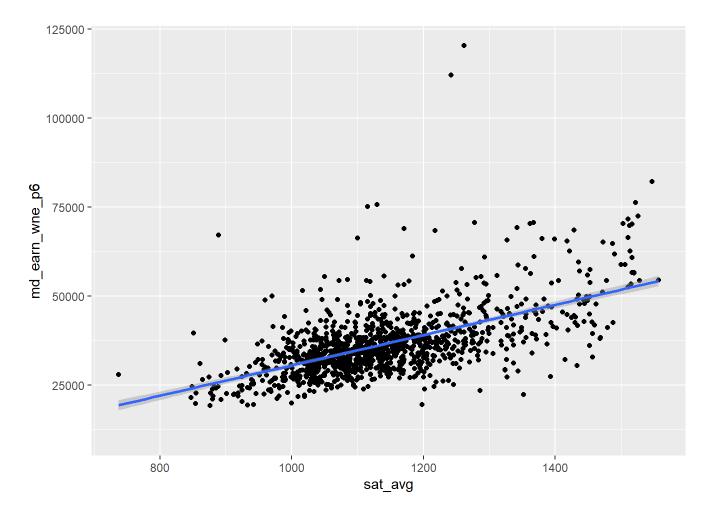


## What is the relationship between SAT scores and earnings?

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

```
## Warning: Removed 1348 rows containing non-finite outside the scale range
## (`stat_smooth()`).
```

```
## Warning: Removed 1348 rows containing missing values or values outside the scale rang
e
## (`geom_point()`).
```



#### Looking at outliers

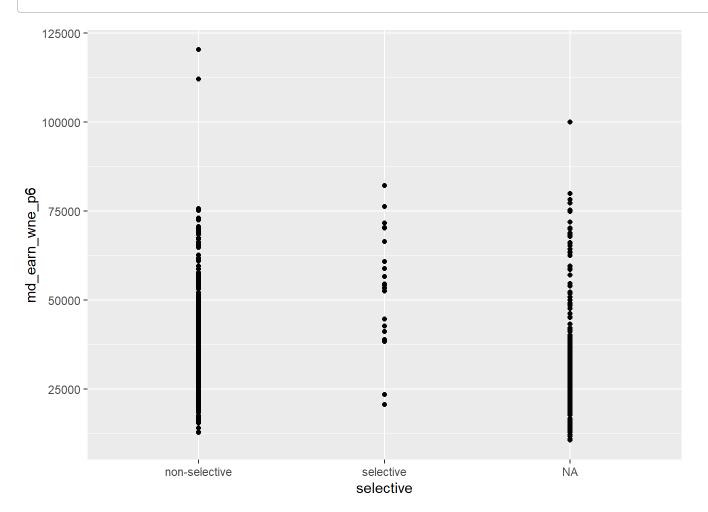
```
## # A tibble: 2 × 1
## instnm
## <chr>
## 1 University of Health Sciences and Pharmacy in St. Louis
## 2 Albany College of Pharmacy and Health Sciences
```

#### Variable "types"

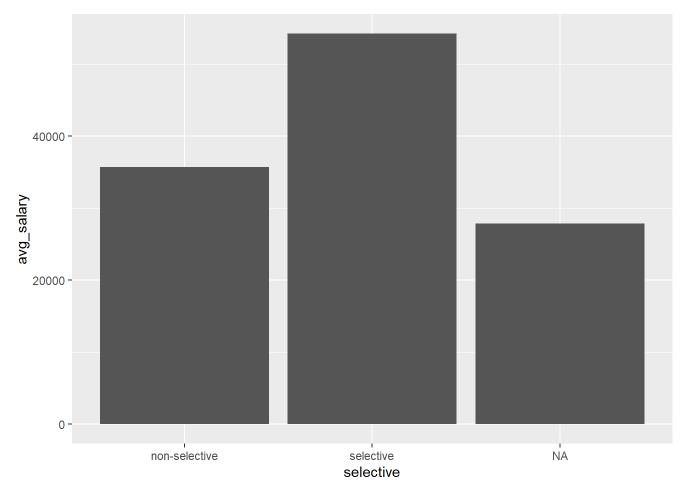
```
df %>%
  select(sat_avg,selective,md_earn_wne_p6)
```

```
## # A tibble: 2,546 × 3
  sat avg selective md earn wne p6
##
      <int> <chr>
##
                                <int>
       <int> <chr>
939 non-selective
## 1
                                25200
## 2 1234 non-selective
                               35100
## 3 NA <NA>
                                30700
  4 1319 non-selective
##
                               36200
## 5 946 non-selective
                               22600
## 6 1261 non-selective
                                37400
  7 NA <NA>
8 NA <NA>
##
                               23100
## 8
                                33400
  9 1082 non-selective
##
                               30100
## 10 1300 non-selective
                               39500
## # i 2,536 more rows
```

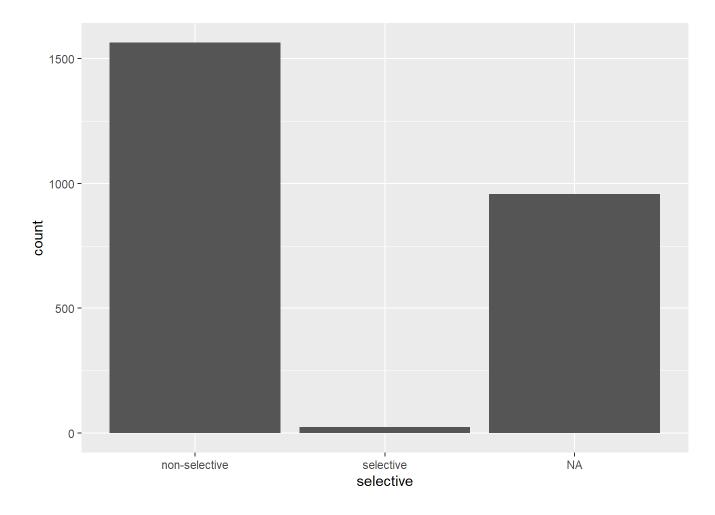
## Warning: Removed 240 rows containing missing values or values outside the scale range ## (`geom\_point()`).



#### Introducing geom bar()



```
df %>%
  ggplot(aes(x = selective)) +
  geom_bar()
```



## Data Wrangling:

Always start with an empty environment

```
rm(list = ls())
require(tidyverse)

MI_raw <- read_rds("https://github.com/jbisbee1/ISP_Data_Science_2024/raw/main/data/MI20
20_ExitPoll.rds")

MI_raw</pre>
```

```
# A tibble: 1,231 × 63
         ID WEIGHT LALVOTERID GROUP ZIP DISTRICT Z1
                                                                    S1 S2A
     <dbl> <dbl> <dbl> <hvn> <dbl> <dbl> <hvn> <hvn> <hvn> <hvn>
##
        9 0.405 LALMI6290066 3 49327 2 NA
                                                                   1 2 NA 1
  2 66 1.81 LALMI2492492 1 48234
3 225 0.860 LALMI5489814... 4 48301
                                                      14 NA
                                                      14 NA 1 1
9 48322 1 1
                                                                                       NA
                                                      4 243 0.199 LALMI5053772... 1 48130
5 286 0.177 LALMI6831689 1 49946
6 293 0.492 LALMI4019782 1 48615
##
                                                                                       NA
## 7 365 1.37 LALMI4151378 1 48906
## 8 367 1.15 LALMI5912584 1 49442
## 9 388 1.50 LALMI6635050 1 48451
## 10 417 1.30 LALMI3567125 1 48197
                                                                                       NA
                                                                                       NA
                                                                                 NA 1
## # i 1,221 more rows
\#\# \# \# 52 more variables: S4 <hvn lbl >, VERSION <hvn lbl >, PRSMI20 <hvn lbl >,
       SENMI20 <hvn lbl >, TIME16 <hvn lbl >, ISSUE20 <hvn lbl >,
       QLT20 <hvn lbl >, TEMPBIDEN <hvn lbl >, TEMPTRUMP <hvn lbl >,
## #
       CONTROLSEN <hvn lbl >, FINSIT <hvn lbl >, ECONVCORONA20 <hvn lbl >,
## #
       FAVBIDEN2 <hvn lbl >, FAVTRUMP <hvn lbl >, FORCAND <hvn lbl >,
## #
       NEWVOTER <hvn lbl >, NEC <hvn lbl >, HANDLEECON20 <hvn lbl >, ...
```

#### Always LOOK at the data first

glimpse(MI raw)

```
## Rows: 1,231
## Columns: 63
## $ ID
                    <dbl> 9, 66, 225, 243, 286, 293, 365, 367, 388, 417, 563, 572...
                    <dbl> 0.4045421, 1.8052619, 0.8601966, 0.1991648, 0.1772090, ...
## $ WEIGHT
## $ LALVOTERID
                    <chr> "LALMI6290066", "LALMI2492492", "LALMI548981440", "LALM...
## $ GROUP
                    <hvn lbl > 3, 1, 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 9, 1, 4, 2, 1,...
## $ ZIP
                    <dbl> 49327, 48234, 48301, 48130, 49946, 48615, 48906, 49442,...
## $ DISTRICT
                    <dbl> 2, 14, 9, 7, 1, 4, 4, 2, 5, 12, 7, 2, 5, 9, 1, 5, 8, 2,...
## $ Z1
                    <dbl> NA, NA, 48322, 48130, NA, NA, 48813, NA, NA, NA, NA, NA...
## $ S1
                    ## $ S2A
                    <hvn lbl > 2, 1, 1, 1, 1, 1, 1, 1, 2, 1, 2, 1, 1, 2, 2, 1, 2,...
## $ S2B
                    <hvn lbl > NA, 1, 1, 1, 2, 1, 1, NA, 1, NA, 1, 1, NA, NA, ...
## $ S3
                    <hvn lbl > 1, NA, NA, NA, NA, NA, NA, NA, 1, NA, 1, NA, NA, 1...
## $ S4
                    <hvn lb1 > 1, NA, NA, NA, NA, NA, NA, NA, NA, 1, NA, 1, NA, NA, 1...
## $ VERSION
                    <hvn lbl > 1, 2, 2, 1, 1, 2, 2, 2, 1, 1, 1, 1, 1, 1, 2, 1, 2, 2,...
## $ PRSMI20
                    <hvn lbl > 1, 1, 1, 1, 1, 1, 1, 1, 2, 1, 2, 2, 1, 2, 1, 1, 2,...
## $ SENMI20
                    <hvn lbl > 1, 1, 1, 1, 1, 1, 1, 1, 2, 1, 2, 2, 1, 2, 1, 1, 2,...
## $ TIME16
                    <hvn lb1 > 5, NA, NA, 5, 5, NA, NA, NA, 5, 5, 5, 5, 5, NA, 3,...
## $ ISSUE20
                    <hvn lbl > 5, NA, NA, 9, 1, NA, NA, NA, 4, 9, 3, 3, 1, NA, 3,...
## $ QLT20
                    <hvn lbl > 4, NA, NA, 4, 3, NA, NA, NA, 3, 3, 2, 2, 3, NA, 1,...
## $ TEMPBIDEN
                    <hvn lb1 > 1, NA, NA, 1, 1, NA, NA, NA, 2, 1, 2, 2, 1, NA, 1,...
## $ TEMPTRUMP
                    <hvn lbl > 2, NA, NA, 2, 2, NA, NA, NA, 1, 2, 1, 1, 2, NA, 1,...
                    <hvn lb1 > 9, NA, NA, 1, 1, NA, NA, NA, 2, 1, 2, 2, 9, NA, 1,...
## $ CONTROLSEN
## $ FINSIT
                    <hvn lb1 > 3, NA, NA, 3, 3, NA, NA, NA, 3, 3, 3, 3, 2, NA, 3,...
## $ ECONVCORONA20 <hvn lbl > 1, NA, NA, 1, 1, NA, NA, NA, 2, 1, 9, 2, 1, NA, 1,...
## $ FAVBIDEN2
                    <hvn lbl > 1, NA, NA, 1, 1, NA, NA, NA, 2, 1, 2, 2, 1, NA, 1,...
## $ FAVTRUMP
                    <hvn lbl > 2, NA, NA, 2, 2, NA, NA, NA, 1, 2, 1, 1, 2, NA, 1,...
## $ FORCAND
                    <hvn lbl > NA, 1, 1, NA, NA, 1, 2, 1, NA, NA, NA, NA, NA, NA, 1, ...
## $ NEWVOTER
                    <hvn lb1 > NA, 2, 2, NA, NA, 2, 2, 2, NA, NA, NA, NA, NA, NA, 2, ...
## $ NEC
                    <hvn lbl > NA, 4, 4, NA, NA, 4, 4, 4, NA, NA, NA, NA, NA, NA, 2, ...
                    <hvn lbl > NA, 1, 1, NA, NA, 1, 1, 1, NA, NA, NA, NA, NA, NA, 2, ...
## $ HANDLEECON20
## $ HANDLECORONA20 <hvn lbl > NA, 1, 1, NA, NA, 1, 1, 1, NA, NA, NA, NA, NA, NA, NA, 2, ...
## $ RACISM20
                    <hvn lbl > NA, 2, 2, NA, NA, 2, 2, 2, NA, NA, NA, NA, NA, NA, 2, ...
                    <hvn lbl > NA, 1, 1, NA, NA, 1, 1, 1, NA, NA, NA, NA, NA, NA, 2, ...
## $ VOTE2016
## $ COUNTACC
                    <hvn lbl > NA, 2, 2, NA, NA, 1, 2, 1, NA, NA, NA, NA, NA, NA, 4, ...
## $ TRUMP4
                    <hvn lbl > NA, 4, 4, NA, NA, 4, 4, 4, NA, NA, NA, NA, NA, NA, 2, ...
                    <hvn lbl > NA, 4, 4, NA, NA, 4, 3, 4, NA, NA, NA, NA, NA, NA, 2, ...
## $ CONTAINCOVID
## $ COVIDHARDSHIP <hvn lbl > NA, 3, 1, NA, NA, 2, 2, 2, NA, NA, NA, NA, NA, 1, ...
## $ AGE10
                    <hvn lbl > 2, 10, 7, 9, 8, 7, 9, 8, 6, 8, 9, 10, 1, 5, 9, 10,...
## $ SEX
                    <hvn lb1 > 2, 2, 2, 1, 2, 2, 1, 1, 2, 1, 1, 1, 2, 1, 1, 2, 1, ...
## $ EDUC18
                    <hvn lbl > 4, 1, 5, 4, 5, 3, 3, 3, 4, 4, 5, 5, 4, 1, 1, 1, 5,...
## $ ORACEAI
                    <hvn lbl > 1, 2, 1, 1, 1, 1, 1, 1, 1, 2, 9, 1, 1, 1, 1, 1, 3,...
## $ LATINOS
                    ## $ PARTYID
                    <hvn lbl > 3, 1, 1, 3, 3, 3, 1, 1, 2, 1, 3, 2, 4, 4, 1, 1, 3,...
## $ PHIL3
                    <hvn lbl > 2, 2, 1, 9, 1, 2, 9, 2, 3, 2, 3, 3, 1, 3, 9, 2, 2,...
## $ INCOME20
                    <hvn lb1 > 3, NA, NA, 9, 4, NA, NA, NA, 4, 4, 4, 2, 1, NA, 2,...
## $ BRNAGAIN
                    <hvn lbl > NA, 1, 2, NA, NA, 2, 1, 2, NA, NA, NA, NA, NA, NA, 2, ...
## $ CHILD12
                    <hvn lbl > NA, 2, 2, NA, NA, 1, 2, 1, NA, NA, NA, NA, NA, NA, 1, ...
## $ LGBT
                    <hvn lb1 > NA, 2, 2, NA, NA, 2, 2, 2, NA, NA, NA, NA, NA, NA, 2, ...
## $ UNIONHH12
                    <hvn lbl > 2, NA, NA, 2, 2, NA, NA, NA, 2, 2, 2, 2, 2, NA, 2,...
## $ QN5
                    <hvn lbl > 3, 2, 3, 2, 2, 3, 2, 2, 3, 2, 2, 1, 4, 2, 2, 1, 3,...
## $ QN6A
                    <hvn lbl > NA, NA, 2, 1, NA, NA, 2, NA, NA, NA, NA, NA, NA, 1, 2,...
```

```
## $ QN6B
                    <hvn lbl > 1, 1, NA, NA, 1, 1, NA, 1, 2, 1, 1, NA, NA, 1, ...
## $ QN6C
                    <hvn lbl > 4, 0, 0, 0, 2, 1, 0, 2, 1, 1, 2, 1, 4, 0, 1, 1, 1,...
                    <chr> "NEWAYGO", "WAYNE", "OAKLAND", "WASHTENAW", "BARAGA", "...
## $ County
## $ SMPFIPS
                    <dbl> 26123, 26163, 26125, 26161, 26013, 26057, 26037, 26121,...
                    <dbl> 94989, 94079, 94040, 94468, 94564, 93952, 93930, 94021,...
## $ TTID
## $ GEOCODE
                    <dbl> 5, 1, 2, 2, 5, 3, 2, 5, 2, 2, 3, 4, 3, 3, 5, 3, 2, 5, 2...
## $ alage5
                    <dbl> 1, 5, 4, 5, 4, 4, 5, 4, 3, 4, 5, 5, 1, 3, 5, 5, 4, 2, 1...
## $ A1RACE
                    <hvn lbll> 1, 2, 1, 1, 1, 1, 1, 1, 1, 2, 3, 1, 1, 1, 1, 1, 3,...
## $ A1RACE3
                    <hvn lbll> 1, 2, 1, 1, 1, 1, 1, 1, 1, 2, 3, 1, 1, 1, 1, 1, 3,...
                    <hvn lbll> 2, 2, 2, 1, 2, 2, 1, 1, 2, 1, 1, 2, 1, 1, 2, 1, ...
## $ A1SEX
                    <hvn lbll> 2, 1, 2, 2, 2, 1, 1, 1, 2, 2, 2, 2, 2, 1, 1, 1, 2,...
## $ A1EDUC
## $ EDUCWHITE
                    <hvn lbll> 1, 4, 1, 1, 1, 2, 2, 2, 1, 3, 3, 1, 1, 2, 2, 2, 3,...
## $ VOTEMETHOD
                    <dbl> 1, 2, 2, 2, 3, 2, 2, 2, 1, 2, 1, 2, 2, 1, 1, 3, 3, 2, 1...
```

View(MI raw)

# Research Question: Do older people support Trump?

```
# X variable: age
colnames(MI_raw)
```

```
## [1] "ID"
                          "WEIGHT"
                                            "LALVOTERID"
                                                              "GROUP"
## [5] "ZIP"
                          "DISTRICT"
                                            "71"
                                                              "S1"
  [9] "S2A"
                          "S2B"
                                            "S3"
                                                              "S4"
## [13] "VERSION"
                          "PRSMI20"
                                            "SENMI20"
                                                              "TIME16"
## [17] "ISSUE20"
                          "OLT20"
                                            "TEMPBIDEN"
                                                              "TEMPTRUMP"
## [21] "CONTROLSEN"
                          "FINSIT"
                                            "ECONVCORONA20"
                                                              "FAVBIDEN2"
## [25] "FAVTRUMP"
                          "FORCAND"
                                            "NEWVOTER"
## [29] "HANDLEECON20"
                          "HANDLECORONA20" "RACISM20"
                                                              "VOTE2016"
## [33] "COUNTACC"
                                            "CONTAINCOVID"
                          "TRUMP4"
                                                              "COVIDHARDSHIP"
## [37] "AGE10"
                                            "EDUC18"
                                                              "QRACEAI"
## [41] "LATINOS"
                          "PARTYID"
                                            "PHIL3"
                                                              "INCOME20"
## [45] "BRNAGAIN"
                          "CHILD12"
                                            "LGBT"
                                                              "UNIONHH12"
## [49] "QN5"
                          "ON6A"
                                            "QN6B"
                                                              "ON6C"
## [53] "County"
                          "SMPFIPS"
                                            "TTID"
                                                              "GEOCODE"
## [57] "alage5"
                          "A1RACE"
                                            "A1RACE3"
                                                              "A1SEX"
## [61] "A1EDUC"
                          "EDUCWHITE"
                                            "VOTEMETHOD"
```

```
MI_raw %>%
select(AGE10)
```

```
## # A tibble: 1,231 \times 1
## AGE10
## <hvn_lbl_>
## 1
## 2
          10
## 3
## 4
## 5
## 6
## 7
## 8
           8
## 9
           6
## 10
## # i 1,221 more rows
```

```
MI_raw %>%
count(AGE10)
```

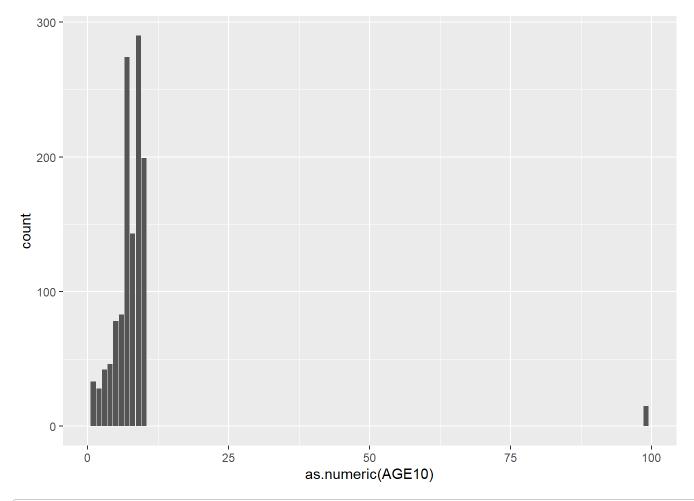
```
## # A tibble: 11 × 2
## AGE10 n
## <hvn lbl > <int>
## 1 1 33
## 2
         2 28
## 3
         3 42
## 4
## 5
       4 46
5 78
## 6
         6
             83
## 7
         7 274
## 8
         8 143
## 9
         9 290
       10 199
99 15
## 10
## 11
```

```
# Visualize with geom bar()
```

require(haven) # This is required for certain environments / package versions to convert
SPSS to numeric. See TIME OUT section below and associated ChatGPT help.

```
## Loading required package: haven
```

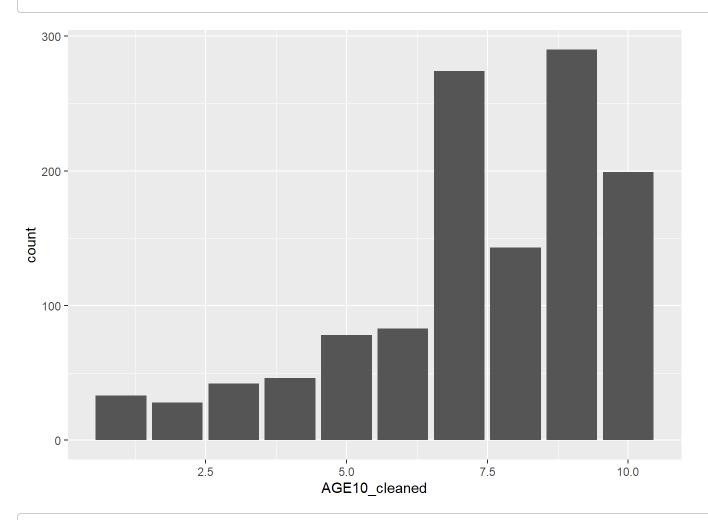
```
MI_raw %>%
  ggplot(aes(x = as.numeric(AGE10))) +
  geom_bar()
```



```
MI_raw %>%
arrange(desc(AGE10)) %>%
select(AGE10)
```

```
## # A tibble: 1,231 \times 1
##
    AGE10
    <dbl+lbl>
##
  1 99 [[DON'T READ] Refused]
##
  2 99 [[DON'T READ] Refused]
##
   3 99 [[DON'T READ] Refused]
   4 99 [[DON'T READ] Refused]
##
  5 99 [[DON'T READ] Refused]
   6 99 [[DON'T READ] Refused]
##
   7 99 [[DON'T READ] Refused]
   8 99 [[DON'T READ] Refused]
  9 99 [[DON'T READ] Refused]
## 10 99 [[DON'T READ] Refused]
## # i 1,221 more rows
```

```
\#\# Warning: Removed 15 rows containing non-finite outside the scale range \#\# (`stat_count()`).
```



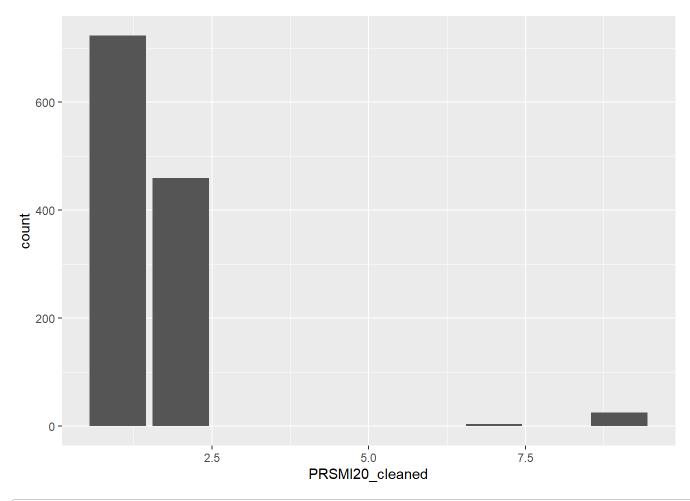
# Y variable: vote choice
colnames(MI raw)

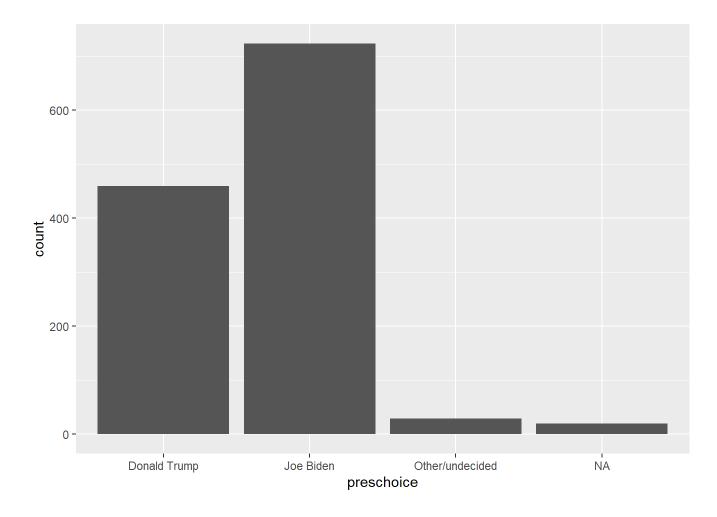
```
## [1] "ID"
                         "WEIGHT"
                                          "LALVOTERID"
                                                           "GROUP"
                                          "Z1"
                                                           "S1"
## [5] "ZIP"
                         "DISTRICT"
## [9] "S2A"
                         "S2B"
                                          "S3"
                                                           "S4"
## [13] "VERSION"
                        "PRSMI20"
                                          "SENMI20"
                                                           "TIME16"
## [17] "ISSUE20"
                         "QLT20"
                                          "TEMPBIDEN"
                                                           "TEMPTRUMP"
## [21] "CONTROLSEN"
                         "FINSIT"
                                          "ECONVCORONA20" "FAVBIDEN2"
## [25] "FAVTRUMP"
                        "FORCAND"
                                          "NEWVOTER"
                                                           "NEC"
                                                           "VOTE2016"
## [29] "HANDLEECON20"
                        "HANDLECORONA20" "RACISM20"
                                          "CONTAINCOVID"
## [33] "COUNTACC"
                        "TRUMP4"
                                                           "COVIDHARDSHIP"
## [37] "AGE10"
                        "SEX"
                                          "EDUC18"
                                                           "ORACEAI"
## [41] "LATINOS"
                        "PARTYID"
                                         "PHIL3"
                                                           "INCOME20"
## [45] "BRNAGAIN"
                         "CHILD12"
                                          "LGBT"
                                                           "UNIONHH12"
## [49] "QN5"
                                                           "QN6C"
                        "QN6A"
                                          "QN6B"
## [53] "County"
                         "SMPFIPS"
                                          "TTID"
                                                           "GEOCODE"
## [57] "alage5"
                        "A1RACE"
                                          "A1RACE3"
                                                           "A1SEX"
## [61] "A1EDUC"
                        "EDUCWHITE"
                                          "VOTEMETHOD"
                                                           "AGE10 cleaned"
```

```
MI_raw %>%
count(PRSMI20)
```

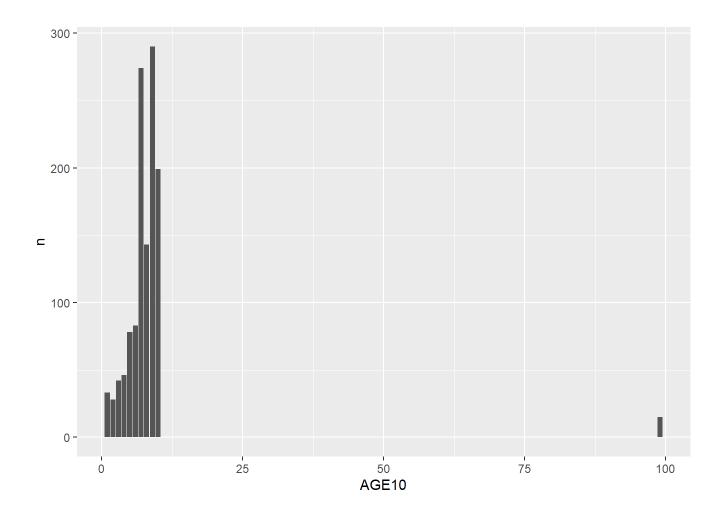
```
## # A tibble: 6 × 2
## PRSMI20
                                                 n
## <dbl+1bl>
                                             <int>
## 1 0 (NA) [Will/Did not vote for president]
                                                6
## 2 1 [Joe Biden, the Democrat]
                                               723
## 3 2 [Donald Trump, the Republican]
                                               459
## 4 7 [Undecided/Don't know]
                                                 4
## 5 8 [Refused]
                                                14
## 6 9 [Another candidate]
                                                25
```

```
## Warning: Removed 20 rows containing non-finite outside the scale range
## (`stat_count()`).
```





### TIME OUT for type errors with most of class



Trying chatGPT solution: https://chatgpt.com/share/a4d8867b-e436-4108-bf88-e0fa53f7a6e1 (https://chatgpt.com/share/a4d8867b-e436-4108-bf88-e0fa53f7a6e1)

```
require(haven)

MI_raw %>%
  mutate(AGE10 = as.numeric(AGE10))
```

```
## # A tibble: 1,231 \times 66
##
      ID WEIGHT LALVOTERID
                            GROUP ZIP DISTRICT Z1 S1
##
   <dbl> <dbl> <chr>
                            <dbl+1bl> <dbl> <dbl> <dbl> <dbl+1bl>
## 1
      9 0.405 LALMI6290066 3 [3] 49327
                                                2 NA 1 [Yes]
## 2 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
                                                     NA 1 [Yes]
                                                1
## 6 293 0.492 LALMI4019782 1 [1]
                                    48615
                                                 4
                                                      NA 1 [Yes]
## 7 365 1.37 LALMI4151378 1 [1]
                                     48906
                                                4 48813 1 [Yes]
## 8 367 1.15 LALMI5912584 1 [1]
                                     49442
                                                 2
                                                      NA 1 [Yes]
## 9 388 1.50 LALMI6635050 1 [1]
                                    48451
                                                5 NA 1 [Yes]
## 10 417 1.30 LALMI3567125 1 [1]
                                     48197
                                                12
                                                      NA 1 [Yes]
## # i 1,221 more rows
## # i 58 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+1b1>, FAVBIDEN2 <dbl+1b1>, FAVTRUMP <dbl+1b1>,
## # FORCAND <dbl+lbl>, NEWVOTER <dbl+lbl>, NEC <dbl+lbl>, ...
```