Data Glimpse

[your name]

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```
knitr::opts_chunk$set(echo = TRUE)

library("readxl")
library("tidyverse")
```

```
## ── Attaching packages ───────────────────────────────── tidyverse 1.3.0 ──
```

```
## ✓ ggplot2 3.3.2     ✓ purrr   0.3.4
## ✓ tibble  3.0.4     ✓ dplyr   1.0.2
## ✓ tidyr   1.1.2     ✓ stringr 1.4.0
## ✓ readr   1.4.0     ✓ forcats 0.5.0
```

```
## ── Conflicts ────────────────────────────────── tidyverse_conflicts() ──
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

Data Source 1

Fresno County voting precincts (year 2016)

Source: https://statewidedatabase.org/d10/g16.html (https://statewidedatabase.org/d10/g16.html)

```
df <- read_csv("c019_g16_voters_by_g16_rgprec.csv")
```

```
##
## ── Column specification ─────────────────────────────────────────────
## cols(
##    .default = col_double(),
##    election = col_character(),
##    type = col_character(),
##    rgprec = col_character()
## )
## ℹ Use `spec()` for the full column specifications.
```

```
head(df)
```

```
## # A tibble: 6 x 140
##   election type  rgprec totreg_r   dem   rep   aip   paf   msc   lib   nlp   grn
##   <chr>    <chr> <chr>     <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
## 1 g16      V     00000…      263   199    18     4     0     0     1     0     0
## 2 g16      V     00000…      293   235    15     4     0     0     0     0     0
## 3 g16      V     00000…      125    90    13     0     0     1     1     0     0
## 4 g16      V     00000…       10     5     2     0     0     0     0     0     0
## 5 g16      V     00000…       75    49     7     1     0     1     0     0     0
## 6 g16      V     00000…        2     0     1     1     0     0     0     0     0
## # … with 128 more variables: ref <dbl>, dcl <dbl>, male <dbl>, female <dbl>,
## #   hispdem <dbl>, hisprep <dbl>, hispdcl <dbl>, hispoth <dbl>, jewdem <dbl>,
## #   jewrep <dbl>, jewdcl <dbl>, jewoth <dbl>, kordem <dbl>, korrep <dbl>,
## #   kordcl <dbl>, koroth <dbl>, jpndem <dbl>, jpnrep <dbl>, jpndcl <dbl>,
## #   jpnoth <dbl>, chidem <dbl>, chirep <dbl>, chidcl <dbl>, chioth <dbl>,
## #   inddem <dbl>, indrep <dbl>, inddcl <dbl>, indoth <dbl>, vietdem <dbl>,
## #   vietrep <dbl>, vietdcl <dbl>, vietoth <dbl>, fildem <dbl>, filrep <dbl>,
## #   fildcl <dbl>, filoth <dbl>, demmunk <dbl>, demm1824 <dbl>, demm2534 <dbl>,
## #   demm3544 <dbl>, demm4554 <dbl>, demm5564 <dbl>, demm65pl <dbl>,
## #   demfunk <dbl>, demf1824 <dbl>, demf2534 <dbl>, demf3544 <dbl>,
## #   demf4554 <dbl>, demf5564 <dbl>, demf65pl <dbl>, repmunk <dbl>,
## #   repm1824 <dbl>, repm2534 <dbl>, repm3544 <dbl>, repm4554 <dbl>,
## #   repm5564 <dbl>, repm65pl <dbl>, repfunk <dbl>, repf1824 <dbl>,
## #   repf2534 <dbl>, repf3544 <dbl>, repf4554 <dbl>, repf5564 <dbl>,
## #   repf65pl <dbl>, dclmunk <dbl>, dclm1824 <dbl>, dclm2534 <dbl>,
## #   dclm3544 <dbl>, dclm4554 <dbl>, dclm5564 <dbl>, dclm65pl <dbl>,
## #   dclfunk <dbl>, dclf1824 <dbl>, dclf2534 <dbl>, dclf3544 <dbl>,
## #   dclf4554 <dbl>, dclf5564 <dbl>, dclf65pl <dbl>, othmunk <dbl>,
## #   othm1824 <dbl>, othm2534 <dbl>, othm3544 <dbl>, othm4554 <dbl>,
## #   othm5564 <dbl>, othm65pl <dbl>, othfunk <dbl>, othf1824 <dbl>,
## #   othf2534 <dbl>, othf3544 <dbl>, othf4554 <dbl>, othf5564 <dbl>,
## #   othf65pl <dbl>, dreg1g <dbl>, dreg2g <dbl>, dreg3g <dbl>, dreg4g <dbl>,
## #   dreg5g <dbl>, dreg6g <dbl>, dreg7g <dbl>, dreg8g <dbl>, …
```

Data Source 2

California Counties voting data (year 2016)

Source: https://en.wikipedia.org/wiki/2016_United_States_presidential_election_in_California (https://en.wikipedia.org/wiki/2016_United_States_presidential_election_in_California)

```
df2 <- read_xlsx("CA2016electiondata.xlsx")
head(df2)
```

```
## # A tibble: 6 x 18
##    County Clinton Clinton_prop Trump Trump_prop Johnson Johnson_prop Stein
##    <chr>    <dbl>        <dbl> <dbl>      <dbl>   <dbl>        <dbl> <dbl>
## 1 Alame… 514842        0.787 95922      0.147   16906        0.026 17830
## 2 Alpine    334        0.555   217      0.36       25        0.042    21
## 3 Amador   6004        0.339 10485      0.591     804        0.045   227
## 4 Butte   41567        0.435 45144      0.472    4625        0.048  2594
## 5 Calav…   7944        0.343 13511      0.584    1104        0.048   424
## 6 Colusa   2661        0.401  3551      0.535     260        0.039    85
## # … with 10 more variables: Stein_prop <dbl>, Sanders <dbl>, `La Riva` <dbl>,
## #   McMullin <dbl>, Maturen <dbl>, Kotlikoff <dbl>, White <dbl>, Margin <dbl>,
## #   Margin_prop <dbl>, Total <dbl>
```