MZ Review

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#Install packages if first time

install.packages('dplyr')  
install.packages('readr')  
install.packages('tidyr')  
install.packages('stringr')  
install.packages('forcats')  
install.packages('purr')  
install.packages("ggpubr")  
install.packages('car')  
install.packages('gdata')  
install.packages("skimr")

#Read in Packages needed

library(dplyr) # manipulate dataframes  
library(readr) # read/write dataframes  
library(tidyr) # reshaping dataframes  
library(stringr) # string manipulation  
library(forcats) # factor manipulation  
library(purrr) # iteration (instead of loops)  
library(ggpubr) # for Correlation  
library(ggplot2) # for Plots  
library ('car')  
library ('gdata')  
library(skimr)

#Import the data- ANES Survey Timeseries

library(haven)  
anes\_timeseries\_cdf\_stata13 <- read\_dta("data-raw/anes\_timeseries\_cdf\_stata13.dta")

#Filter to 2004

Updated1 <-anes\_timeseries\_cdf\_stata13[!(anes\_timeseries\_cdf\_stata13$VCF0004<"2004"),]

# select variables

Updated1 %>%   
 # The labels confuse this function, so we'll remove them before calling skim()  
 zap\_labels() %>%   
 select(  
 VCF9021,  
 VCF9030a,  
 VCF0728,  
 VCF0745,  
 VCF9034,  
 VCF0724,  
 VCF0301,  
 VCF9206,  
 VCF9222,  
 VCF0870,  
 VCF0880,  
 VCF9225,  
 VCF9229,  
 VCF0606,  
 VCF0607,  
 VCF0611,  
 VCF0613,  
 VCF0617,  
 VCF0632,  
 VCF0650,  
 VCF0501,  
 VCF0731,  
 VCF0733,  
 VCF0310,  
 VCF0312,  
 VCF0311,  
 VCF0653,  
 VCF0359,  
 VCF0360,  
 VCF0361,  
 VCF0370,  
 VCF0371,  
 VCF0372,  
 VCF0373,  
 VCF0702  
 ) %>%   
 skim()

Data summary

|  |  |
| --- | --- |
| Name | Piped data |
| Number of rows | 13718 |
| Number of columns | 35 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Column type frequency: |  |
| numeric | 35 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Group variables | None |

**Variable type: numeric**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| skim\_variable | n\_missing | complete\_rate | mean | sd | p0 | p25 | p50 | p75 | p100 | hist |
| VCF9021 | 2463 | 0.82 | 3.13 | 2.00 | 1 | 1 | 5 | 5 | 5 | ▇▁▁▁▇ |
| VCF9030a | 1443 | 0.89 | 1.60 | 0.49 | 1 | 1 | 2 | 2 | 2 | ▅▁▁▁▇ |
| VCF0728 | 12546 | 0.09 | 3.07 | 1.18 | 1 | 2 | 3 | 4 | 5 | ▂▇▇▆▃ |
| VCF0745 | 12652 | 0.08 | 3.13 | 2.00 | 1 | 1 | 5 | 5 | 5 | ▇▁▁▁▇ |
| VCF9034 | 13718 | 0.00 | NaN | NA | NA | NA | NA | NA | NA |  |
| VCF0724 | 6101 | 0.56 | 1.81 | 0.40 | 1 | 2 | 2 | 2 | 2 | ▂▁▁▁▇ |
| VCF0301 | 104 | 0.99 | 3.62 | 2.11 | 1 | 2 | 3 | 5 | 7 | ▇▃▃▂▅ |
| VCF9206 | 231 | 0.98 | 1.99 | 0.71 | 1 | 1 | 2 | 3 | 3 | ▅▁▇▁▅ |
| VCF9222 | 244 | 0.98 | 1.71 | 0.46 | 1 | 1 | 2 | 2 | 2 | ▃▁▁▁▇ |
| VCF0870 | 74 | 0.99 | 3.34 | 1.61 | 1 | 1 | 3 | 5 | 5 | ▅▁▆▁▇ |
| VCF0880 | 91 | 0.99 | 1.99 | 0.88 | 1 | 1 | 2 | 3 | 3 | ▇▁▅▁▇ |
| VCF9225 | 250 | 0.98 | 2.13 | 0.81 | 1 | 1 | 2 | 3 | 3 | ▆▁▆▁▇ |
| VCF9229 | 395 | 0.97 | 1.99 | 0.68 | 1 | 2 | 2 | 2 | 3 | ▃▁▇▁▃ |
| VCF0606 | 400 | 0.97 | 1.37 | 0.78 | 1 | 1 | 1 | 2 | 9 | ▇▁▁▁▁ |
| VCF0607 | 13718 | 0.00 | NaN | NA | NA | NA | NA | NA | NA |  |
| VCF0611 | 13718 | 0.00 | NaN | NA | NA | NA | NA | NA | NA |  |
| VCF0613 | 4961 | 0.64 | 1.68 | 0.77 | 1 | 1 | 2 | 2 | 9 | ▇▂▁▁▁ |
| VCF0617 | 13718 | 0.00 | NaN | NA | NA | NA | NA | NA | NA |  |
| VCF0632 | 13718 | 0.00 | NaN | NA | NA | NA | NA | NA | NA |  |
| VCF0650 | 13718 | 0.00 | NaN | NA | NA | NA | NA | NA | NA |  |
| VCF0501 | 1441 | 0.89 | 1.91 | 0.88 | 1 | 2 | 2 | 2 | 9 | ▇▁▁▁▁ |
| VCF0731 | 1850 | 0.87 | 2.18 | 1.91 | 1 | 1 | 1 | 5 | 7 | ▇▁▁▂▁ |
| VCF0733 | 3161 | 0.77 | 2.53 | 2.45 | 0 | 0 | 2 | 4 | 7 | ▇▃▃▁▃ |
| VCF0310 | 1148 | 0.92 | 2.32 | 0.71 | 1 | 2 | 2 | 3 | 9 | ▇▇▁▁▁ |
| VCF0312 | 10191 | 0.26 | 1.68 | 0.47 | 1 | 1 | 2 | 2 | 2 | ▃▁▁▁▇ |
| VCF0311 | 4301 | 0.69 | 1.83 | 0.38 | 1 | 2 | 2 | 2 | 2 | ▂▁▁▁▇ |
| VCF0653 | 13718 | 0.00 | NaN | NA | NA | NA | NA | NA | NA |  |
| VCF0359 | 71 | 0.99 | 1.61 | 0.49 | 1 | 1 | 2 | 2 | 2 | ▅▁▁▁▇ |
| VCF0360 | 86 | 0.99 | 1.40 | 0.49 | 1 | 1 | 1 | 2 | 2 | ▇▁▁▁▆ |
| VCF0361 | 112 | 0.99 | 1.46 | 0.50 | 1 | 1 | 1 | 2 | 2 | ▇▁▁▁▇ |
| VCF0370 | 104 | 0.99 | 1.46 | 0.50 | 1 | 1 | 1 | 2 | 2 | ▇▁▁▁▇ |
| VCF0371 | 99 | 0.99 | 1.54 | 0.50 | 1 | 1 | 2 | 2 | 2 | ▇▁▁▁▇ |
| VCF0372 | 116 | 0.99 | 1.57 | 0.50 | 1 | 1 | 2 | 2 | 2 | ▆▁▁▁▇ |
| VCF0373 | 133 | 0.99 | 1.63 | 0.48 | 1 | 1 | 2 | 2 | 2 | ▅▁▁▁▇ |
| VCF0702 | 1367 | 0.90 | 1.79 | 0.41 | 1 | 2 | 2 | 2 | 2 | ▂▁▁▁▇ |

#Filter out the columns that are not relevant- have all missings (questions from older surveys (two ways)

Data\_no\_missing <- Updated1[ , colSums(is.na(Updated1)) <nrow(Updated1)]

# Filter Columns want

Filtered\_var = subset(Updated1, select = c(VCF0004, VCF0102, VCF0103, VCF0104,VCF0105a, VCF0105b,VCF0106,VCF0107, VCF0700,VCF0201,VCF0202, VCF0301 ,VCF0303, VCF0314 ,VCF0315 ,VCF0323 ,VCF0501,VCF9008,VCF9010 ,VCF9011,VCF9012, VCF9201,VCF9202 ,VCF9203,VCF9204,VCF9206,VCF0350 ,VCF0351 ,VCF0352,VCF0353 , VCF0354 ,VCF0355,VCF0356 ,VCF0357 ,VCF0358 ,VCF0363 ,VCF0364,VCF0365 ,VCF0366 ,VCF0367, VCF0368 ,VCF0369 ,VCF0370,VCF0371 ,VCF0372,VCF0373 ,VCF0412 ,VCF0414 ,VCF0906 ,VCF0907,VCF0908 ,VCF0909 ,VCF0450,VCF0451,VCF9217,VCF9218, VCF9220,VCF9221,VCF0875 ,VCF0875a ,VCF0875b ,VCF9019,VCF9020 ,VCF9052,VCF9222,VCF0803,VCF9240, VCF0228 ,VCF0231 ,VCF0601,VCF0602, VCF0603, VCF0604 ,VCF0608 ,VCF0656,VCF9250,VCF9251,VCF9252,VCF9253,VCF9254,VCF9256,VCF9257,VCF0308,VCF0309,  
 VCF0310,VCF0311,VCF0312,VCF0313,VCF0700,VCF0714,VCF0729 ,VCF0730,VCF0731,VCF0732,VCF0733,VCF0743,VCF0932,VCF0933,VCF0934,VCF0935,VCF0936,VCF0941, VCF0942, VCF0943, VCF0944, VCF0945 , VCF0946 ,VCF0947, VCF0948, VCF0949,VCF9064,VCF0717,VCF0723,VCF0723a,VCF0746,VCF0747 ,VCF9021 ,VCF9030,VCF9030a,  
VCF0701 ,VCF0702 , VCF0703 , VCF0704 , VCF0704a , VCF0705, VCF0706, VCF0707 , VCF0711, VCF0708, VCF0713 , VCF0712, VCF0748, VCF0749,VCF0750,VCF9022,VCF9023,VCF0675,VCF0724,VCF0725,VCF0726,VCF0727,VCF0728,VCF0744,VCF0745,VCF9032,VCF9033,VCF9034,VCF9035, VCF9266, VCF0102, VCF0104, VCF9222, VCF0880, VCF9229, VCF0606, VCF9030a, VCF0322, VCF9206, VCF0105b, VCF0009z, VCF0900b))  
  
summary(Filtered\_var)

## VCF0004 VCF0102 VCF0103 VCF0104 VCF0105a   
## Min. :2004 Min. :1.000 Min. :1.000 Min. :1.000 Min. :1.000   
## 1st Qu.:2008 1st Qu.:2.000 1st Qu.:2.000 1st Qu.:1.000 1st Qu.:1.000   
## Median :2012 Median :4.000 Median :3.000 Median :2.000 Median :1.000   
## Mean :2012 Mean :3.929 Mean :3.228 Mean :1.533 Mean :1.997   
## 3rd Qu.:2016 3rd Qu.:5.000 3rd Qu.:4.000 3rd Qu.:2.000 3rd Qu.:2.000   
## Max. :2016 Max. :7.000 Max. :6.000 Max. :3.000 Max. :6.000   
## NA's :226 NA's :226 NA's :41 NA's :102   
## VCF0105b VCF0106 VCF0107 VCF0700   
## Min. :1.000 Min. :1.000 Min. :1.000 Min. :1.000   
## 1st Qu.:1.000 1st Qu.:1.000 1st Qu.:7.000 1st Qu.:1.000   
## Median :1.000 Median :1.000 Median :7.000 Median :1.000   
## Mean :1.647 Mean :1.587 Mean :6.198 Mean :1.841   
## 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.:7.000 3rd Qu.:2.000   
## Max. :4.000 Max. :3.000 Max. :7.000 Max. :8.000   
## NA's :102 NA's :102 NA's :61 NA's :5965   
## VCF0201 VCF0202 VCF0301 VCF0303   
## Min. : NA Min. : NA Min. :1.000 Min. :1.000   
## 1st Qu.: NA 1st Qu.: NA 1st Qu.:2.000 1st Qu.:1.000   
## Median : NA Median : NA Median :3.000 Median :1.000   
## Mean :NaN Mean :NaN Mean :3.621 Mean :1.843   
## 3rd Qu.: NA 3rd Qu.: NA 3rd Qu.:5.000 3rd Qu.:3.000   
## Max. : NA Max. : NA Max. :7.000 Max. :3.000   
## NA's :13718 NA's :13718 NA's :104 NA's :104   
## VCF0314 VCF0315 VCF0323 VCF0501   
## Min. :0.000 Min. :0.000 Min. : 0.000 Min. :1.000   
## 1st Qu.:0.000 1st Qu.:0.000 1st Qu.: 1.000 1st Qu.:2.000   
## Median :1.000 Median :0.000 Median : 4.000 Median :2.000   
## Mean :1.208 Mean :0.912 Mean : 4.146 Mean :1.912   
## 3rd Qu.:2.000 3rd Qu.:1.000 3rd Qu.: 7.000 3rd Qu.:2.000   
## Max. :5.000 Max. :5.000 Max. :19.000 Max. :9.000   
## NA's :12506 NA's :12506 NA's :12506 NA's :1441   
## VCF9008 VCF9010 VCF9011 VCF9012   
## Min. : NA Min. : NA Min. : NA Min. : NA   
## 1st Qu.: NA 1st Qu.: NA 1st Qu.: NA 1st Qu.: NA   
## Median : NA Median : NA Median : NA Median : NA   
## Mean :NaN Mean :NaN Mean :NaN Mean :NaN   
## 3rd Qu.: NA 3rd Qu.: NA 3rd Qu.: NA 3rd Qu.: NA   
## Max. : NA Max. : NA Max. : NA Max. : NA   
## NA's :13718 NA's :13718 NA's :13718 NA's :13718   
## VCF9201 VCF9202 VCF9203 VCF9204   
## Min. : 0.000 Min. : 0.000 Min. :1.000 Min. :1.000   
## 1st Qu.: 3.000 1st Qu.: 2.000 1st Qu.:1.000 1st Qu.:1.000   
## Median : 6.000 Median : 5.000 Median :1.000 Median :1.000   
## Mean : 5.734 Mean : 4.583 Mean :1.368 Mean :1.639   
## 3rd Qu.: 8.000 3rd Qu.: 7.000 3rd Qu.:2.000 3rd Qu.:2.000   
## Max. :10.000 Max. :10.000 Max. :2.000 Max. :7.000   
## NA's :1620 NA's :1574 NA's :7041 NA's :9528   
## VCF9206 VCF0350 VCF0351 VCF0352   
## Min. :1.000 Min. :1.000 Min. : NA Min. : NA   
## 1st Qu.:1.000 1st Qu.:1.000 1st Qu.: NA 1st Qu.: NA   
## Median :2.000 Median :2.000 Median : NA Median : NA   
## Mean :1.995 Mean :1.734 Mean :NaN Mean :NaN   
## 3rd Qu.:3.000 3rd Qu.:2.000 3rd Qu.: NA 3rd Qu.: NA   
## Max. :3.000 Max. :4.000 Max. : NA Max. : NA   
## NA's :231 NA's :11436 NA's :13718 NA's :13718   
## VCF0353 VCF0354 VCF0355 VCF0356   
## Min. : NA Min. :1.000 Min. :1.000 Min. :1.00   
## 1st Qu.: NA 1st Qu.:1.000 1st Qu.:2.000 1st Qu.:2.00   
## Median : NA Median :2.000 Median :2.000 Median :2.00   
## Mean :NaN Mean :1.951 Mean :2.133 Mean :2.26   
## 3rd Qu.: NA 3rd Qu.:2.000 3rd Qu.:3.000 3rd Qu.:3.00   
## Max. : NA Max. :4.000 Max. :4.000 Max. :4.00   
## NA's :13718 NA's :11444 NA's :11526 NA's :11482   
## VCF0357 VCF0358 VCF0363 VCF0364   
## Min. :1.000 Min. :1.000 Min. : NA Min. : NA   
## 1st Qu.:2.000 1st Qu.:1.000 1st Qu.: NA 1st Qu.: NA   
## Median :2.000 Median :2.000 Median : NA Median : NA   
## Mean :2.238 Mean :1.516 Mean :NaN Mean :NaN   
## 3rd Qu.:3.000 3rd Qu.:2.000 3rd Qu.: NA 3rd Qu.: NA   
## Max. :4.000 Max. :2.000 Max. : NA Max. : NA   
## NA's :11478 NA's :78 NA's :13718 NA's :13718   
## VCF0365 VCF0366 VCF0367 VCF0368   
## Min. : NA Min. :1.000 Min. :1.000 Min. :1.000   
## 1st Qu.: NA 1st Qu.:2.000 1st Qu.:2.000 1st Qu.:2.000   
## Median : NA Median :2.000 Median :2.000 Median :2.000   
## Mean :NaN Mean :2.251 Mean :2.212 Mean :2.278   
## 3rd Qu.: NA 3rd Qu.:3.000 3rd Qu.:3.000 3rd Qu.:3.000   
## Max. : NA Max. :4.000 Max. :4.000 Max. :4.000   
## NA's :13718 NA's :11412 NA's :11456 NA's :11428   
## VCF0369 VCF0370 VCF0371 VCF0372 VCF0373   
## Min. :1.000 Min. :1.000 Min. :1.000 Min. :1.00 Min. :1.000   
## 1st Qu.:2.000 1st Qu.:1.000 1st Qu.:1.000 1st Qu.:1.00 1st Qu.:1.000   
## Median :3.000 Median :1.000 Median :2.000 Median :2.00 Median :2.000   
## Mean :2.713 Mean :1.461 Mean :1.536 Mean :1.57 Mean :1.625   
## 3rd Qu.:4.000 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.:2.00 3rd Qu.:2.000   
## Max. :4.000 Max. :2.000 Max. :2.000 Max. :2.00 Max. :2.000   
## NA's :11428 NA's :104 NA's :99 NA's :116 NA's :133   
## VCF0412 VCF0414 VCF0906 VCF0907   
## Min. : 0.00 Min. : 0.00 Min. : 0.00 Min. : -1.00   
## 1st Qu.:43.00 1st Qu.:43.00 1st Qu.: 50.00 1st Qu.: 50.00   
## Median :49.00 Median :50.00 Median : 50.00 Median : 50.00   
## Mean :48.73 Mean :48.77 Mean : 57.08 Mean : 52.35   
## 3rd Qu.:58.00 3rd Qu.:56.00 3rd Qu.: 70.00 3rd Qu.: 70.00   
## Max. :97.00 Max. :97.00 Max. :100.00 Max. :100.00   
## NA's :188 NA's :2493 NA's :7489 NA's :7587   
## VCF0908 VCF0909 VCF0450 VCF0451   
## Min. : -1.00 Min. : 0.00 Min. :1.000 Min. :1.000   
## 1st Qu.: 50.00 1st Qu.: 50.00 1st Qu.:1.000 1st Qu.:1.000   
## Median : 50.00 Median : 55.00 Median :2.000 Median :3.000   
## Mean : 54.31 Mean : 57.16 Mean :1.594 Mean :2.666   
## 3rd Qu.: 70.00 3rd Qu.: 70.00 3rd Qu.:2.000 3rd Qu.:4.000   
## Max. :100.00 Max. :100.00 Max. :8.000 Max. :8.000   
## NA's :8458 NA's :8494 NA's :102 NA's :113   
## VCF9217 VCF9218 VCF9220 VCF9221 VCF0875   
## Min. :1.000 Min. :1.000 Min. :1.00 Min. :1.000 Min. : NA   
## 1st Qu.:1.000 1st Qu.:1.000 1st Qu.:1.00 1st Qu.:2.000 1st Qu.: NA   
## Median :2.000 Median :2.000 Median :2.00 Median :3.000 Median : NA   
## Mean :1.516 Mean :1.555 Mean :2.03 Mean :2.748 Mean :NaN   
## 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.:3.00 3rd Qu.:3.000 3rd Qu.: NA   
## Max. :2.000 Max. :2.000 Max. :3.00 Max. :4.000 Max. : NA   
## NA's :471 NA's :1593 NA's :8276 NA's :6978 NA's :13718   
## VCF0875a VCF0875b VCF9019 VCF9020   
## Min. : NA Min. : NA Min. : NA Min. : NA   
## 1st Qu.: NA 1st Qu.: NA 1st Qu.: NA 1st Qu.: NA   
## Median : NA Median : NA Median : NA Median : NA   
## Mean :NaN Mean :NaN Mean :NaN Mean :NaN   
## 3rd Qu.: NA 3rd Qu.: NA 3rd Qu.: NA 3rd Qu.: NA   
## Max. : NA Max. : NA Max. : NA Max. : NA   
## NA's :13718 NA's :13718 NA's :13718 NA's :13718   
## VCF9052 VCF9222 VCF0803 VCF9240   
## Min. : NA Min. :1.000 Min. :1.000 Min. : 0.000   
## 1st Qu.: NA 1st Qu.:1.000 1st Qu.:4.000 1st Qu.: 5.000   
## Median : NA Median :2.000 Median :4.000 Median : 5.000   
## Mean :NaN Mean :1.707 Mean :4.963 Mean : 5.899   
## 3rd Qu.: NA 3rd Qu.:2.000 3rd Qu.:6.000 3rd Qu.: 8.000   
## Max. : NA Max. :2.000 Max. :9.000 Max. :10.000   
## NA's :13718 NA's :244 NA's :668 NA's :2196   
## VCF0228 VCF0231 VCF0601 VCF0602 VCF0603   
## Min. : 0.00 Min. : 0.0 Min. : NA Min. : NA Min. : NA   
## 1st Qu.:30.00 1st Qu.:30.0 1st Qu.: NA 1st Qu.: NA 1st Qu.: NA   
## Median :50.00 Median :50.0 Median : NA Median : NA Median : NA   
## Mean :45.79 Mean :47.4 Mean :NaN Mean :NaN Mean :NaN   
## 3rd Qu.:60.00 3rd Qu.:60.0 3rd Qu.: NA 3rd Qu.: NA 3rd Qu.: NA   
## Max. :97.00 Max. :97.0 Max. : NA Max. : NA Max. : NA   
## NA's :1546 NA's :5162 NA's :13718 NA's :13718 NA's :13718   
## VCF0604 VCF0608 VCF0656 VCF9250 VCF9251   
## Min. :1.000 Min. :1.00 Min. : 0.0 Min. :1.000 Min. :1.000   
## 1st Qu.:2.000 1st Qu.:1.00 1st Qu.: 0.0 1st Qu.:3.000 1st Qu.:2.000   
## Median :2.000 Median :1.00 Median : 17.0 Median :4.000 Median :3.000   
## Mean :2.344 Mean :1.58 Mean : 22.1 Mean :3.996 Mean :2.895   
## 3rd Qu.:3.000 3rd Qu.:2.00 3rd Qu.: 33.0 3rd Qu.:5.000 3rd Qu.:3.000   
## Max. :9.000 Max. :9.00 Max. :100.0 Max. :5.000 Max. :5.000   
## NA's :8593 NA's :5060 NA's :396 NA's :2511 NA's :6036   
## VCF9252 VCF9253 VCF9254 VCF9256 VCF9257   
## Min. :1.000 Min. :1.000 Min. : NA Min. :1.000 Min. :1.00   
## 1st Qu.:2.000 1st Qu.:3.000 1st Qu.: NA 1st Qu.:1.000 1st Qu.:1.00   
## Median :3.000 Median :4.000 Median : NA Median :2.000 Median :2.00   
## Mean :3.202 Mean :3.852 Mean :NaN Mean :1.571 Mean :1.69   
## 3rd Qu.:4.000 3rd Qu.:5.000 3rd Qu.: NA 3rd Qu.:2.000 3rd Qu.:2.00   
## Max. :5.000 Max. :5.000 Max. : NA Max. :2.000 Max. :2.00   
## NA's :6038 NA's :2524 NA's :13718 NA's :1410 NA's :1413   
## VCF0308 VCF0309 VCF0310 VCF0311   
## Min. : NA Min. : NA Min. :1.000 Min. :1.000   
## 1st Qu.: NA 1st Qu.: NA 1st Qu.:2.000 1st Qu.:2.000   
## Median : NA Median : NA Median :2.000 Median :2.000   
## Mean :NaN Mean :NaN Mean :2.321 Mean :1.827   
## 3rd Qu.: NA 3rd Qu.: NA 3rd Qu.:3.000 3rd Qu.:2.000   
## Max. : NA Max. : NA Max. :9.000 Max. :2.000   
## NA's :13718 NA's :13718 NA's :1148 NA's :4301   
## VCF0312 VCF0313 VCF0700 VCF0714 VCF0729   
## Min. :1.000 Min. :1.000 Min. :1.000 Min. :1.00 Min. :1.000   
## 1st Qu.:1.000 1st Qu.:2.000 1st Qu.:1.000 1st Qu.:2.00 1st Qu.:1.000   
## Median :2.000 Median :3.000 Median :1.000 Median :2.00 Median :2.000   
## Mean :1.678 Mean :2.853 Mean :1.841 Mean :1.83 Mean :1.659   
## 3rd Qu.:2.000 3rd Qu.:4.000 3rd Qu.:2.000 3rd Qu.:2.00 3rd Qu.:2.000   
## Max. :2.000 Max. :9.000 Max. :8.000 Max. :9.00 Max. :2.000   
## NA's :10191 NA's :11610 NA's :5965 NA's :110 NA's :1766   
## VCF0730 VCF0731 VCF0732 VCF0733   
## Min. : NA Min. :1.000 Min. : NA Min. :0.000   
## 1st Qu.: NA 1st Qu.:1.000 1st Qu.: NA 1st Qu.:0.000   
## Median : NA Median :1.000 Median : NA Median :2.000   
## Mean :NaN Mean :2.181 Mean :NaN Mean :2.535   
## 3rd Qu.: NA 3rd Qu.:5.000 3rd Qu.: NA 3rd Qu.:4.000   
## Max. : NA Max. :7.000 Max. : NA Max. :7.000   
## NA's :13718 NA's :1850 NA's :13718 NA's :3161   
## VCF0743 VCF0932 VCF0933 VCF0934   
## Min. : NA Min. : NA Min. : NA Min. : NA   
## 1st Qu.: NA 1st Qu.: NA 1st Qu.: NA 1st Qu.: NA   
## Median : NA Median : NA Median : NA Median : NA   
## Mean :NaN Mean :NaN Mean :NaN Mean :NaN   
## 3rd Qu.: NA 3rd Qu.: NA 3rd Qu.: NA 3rd Qu.: NA   
## Max. : NA Max. : NA Max. : NA Max. : NA   
## NA's :13718 NA's :13718 NA's :13718 NA's :13718   
## VCF0935 VCF0936 VCF0941 VCF0942   
## Min. : NA Min. : NA Min. : NA Min. : NA   
## 1st Qu.: NA 1st Qu.: NA 1st Qu.: NA 1st Qu.: NA   
## Median : NA Median : NA Median : NA Median : NA   
## Mean :NaN Mean :NaN Mean :NaN Mean :NaN   
## 3rd Qu.: NA 3rd Qu.: NA 3rd Qu.: NA 3rd Qu.: NA   
## Max. : NA Max. : NA Max. : NA Max. : NA   
## NA's :13718 NA's :13718 NA's :13718 NA's :13718   
## VCF0943 VCF0944 VCF0945 VCF0946   
## Min. : NA Min. : NA Min. : NA Min. : NA   
## 1st Qu.: NA 1st Qu.: NA 1st Qu.: NA 1st Qu.: NA   
## Median : NA Median : NA Median : NA Median : NA   
## Mean :NaN Mean :NaN Mean :NaN Mean :NaN   
## 3rd Qu.: NA 3rd Qu.: NA 3rd Qu.: NA 3rd Qu.: NA   
## Max. : NA Max. : NA Max. : NA Max. : NA   
## NA's :13718 NA's :13718 NA's :13718 NA's :13718   
## VCF0947 VCF0948 VCF0949 VCF9064 VCF0717   
## Min. : NA Min. : NA Min. : NA Min. : NA Min. :1.00   
## 1st Qu.: NA 1st Qu.: NA 1st Qu.: NA 1st Qu.: NA 1st Qu.:1.00   
## Median : NA Median : NA Median : NA Median : NA Median :1.00   
## Mean :NaN Mean :NaN Mean :NaN Mean :NaN Mean :1.45   
## 3rd Qu.: NA 3rd Qu.: NA 3rd Qu.: NA 3rd Qu.: NA 3rd Qu.:2.00   
## Max. : NA Max. : NA Max. : NA Max. : NA Max. :2.00   
## NA's :13718 NA's :13718 NA's :13718 NA's :13718 NA's :1397   
## VCF0723 VCF0723a VCF0746 VCF0747   
## Min. :1.000 Min. :1.000 Min. : NA Min. : NA   
## 1st Qu.:1.000 1st Qu.:1.000 1st Qu.: NA 1st Qu.: NA   
## Median :2.000 Median :1.000 Median : NA Median : NA   
## Mean :1.851 Mean :1.561 Mean :NaN Mean :NaN   
## 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.: NA 3rd Qu.: NA   
## Max. :6.000 Max. :4.000 Max. : NA Max. : NA   
## NA's :1392 NA's :1393 NA's :13718 NA's :13718   
## VCF9021 VCF9030 VCF9030a VCF0701   
## Min. :1.000 Min. :1.000 Min. :1.000 Min. : NA   
## 1st Qu.:1.000 1st Qu.:3.000 1st Qu.:1.000 1st Qu.: NA   
## Median :5.000 Median :7.000 Median :2.000 Median : NA   
## Mean :3.134 Mean :5.032 Mean :1.603 Mean :NaN   
## 3rd Qu.:5.000 3rd Qu.:7.000 3rd Qu.:2.000 3rd Qu.: NA   
## Max. :5.000 Max. :7.000 Max. :2.000 Max. : NA   
## NA's :2463 NA's :1398 NA's :1443 NA's :13718   
## VCF0702 VCF0703 VCF0704 VCF0704a   
## Min. :1.000 Min. :1.000 Min. :1.000 Min. :1.000   
## 1st Qu.:2.000 1st Qu.:3.000 1st Qu.:1.000 1st Qu.:1.000   
## Median :2.000 Median :3.000 Median :1.000 Median :1.000   
## Mean :1.788 Mean :2.672 Mean :1.422 Mean :1.422   
## 3rd Qu.:2.000 3rd Qu.:3.000 3rd Qu.:2.000 3rd Qu.:2.000   
## Max. :2.000 Max. :3.000 Max. :2.000 Max. :2.000   
## NA's :1367 NA's :1053 NA's :4571 NA's :4571   
## VCF0705 VCF0706 VCF0707 VCF0711   
## Min. :1.000 Min. :1.000 Min. :1.000 Min. : NA   
## 1st Qu.:1.000 1st Qu.:1.000 1st Qu.:1.000 1st Qu.: NA   
## Median :1.000 Median :2.000 Median :1.000 Median : NA   
## Mean :1.482 Mean :2.611 Mean :1.454 Mean :NaN   
## 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.: NA   
## Max. :3.000 Max. :7.000 Max. :2.000 Max. : NA   
## NA's :4214 NA's :1850 NA's :5772 NA's :13718   
## VCF0708 VCF0713 VCF0712 VCF0748   
## Min. :1.000 Min. :1.000 Min. :1.000 Min. :1.000   
## 1st Qu.:1.000 1st Qu.:1.000 1st Qu.:1.000 1st Qu.:1.000   
## Median :1.000 Median :2.000 Median :3.000 Median :1.000   
## Mean :1.412 Mean :2.036 Mean :2.761 Mean :2.343   
## 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.:4.000 3rd Qu.:5.000   
## Max. :2.000 Max. :9.000 Max. :6.000 Max. :5.000   
## NA's :7709 NA's :1844 NA's :10512 NA's :11279   
## VCF0749 VCF0750 VCF9022 VCF9023   
## Min. : 1.000 Min. :1.000 Min. :1.000 Min. :1.000   
## 1st Qu.: 2.000 1st Qu.:1.000 1st Qu.:1.000 1st Qu.:1.000   
## Median : 3.000 Median :1.000 Median :1.000 Median :1.000   
## Mean : 3.051 Mean :2.924 Mean :1.827 Mean :1.844   
## 3rd Qu.: 3.000 3rd Qu.:5.000 3rd Qu.:1.000 3rd Qu.:2.000   
## Max. :97.000 Max. :7.000 Max. :5.000 Max. :7.000   
## NA's :12899 NA's :12900 NA's :4629 NA's :11932   
## VCF0675 VCF0724 VCF0725 VCF0726   
## Min. :1.000 Min. :1.000 Min. :1.000 Min. :1.000   
## 1st Qu.:2.000 1st Qu.:2.000 1st Qu.:1.000 1st Qu.:1.000   
## Median :3.000 Median :2.000 Median :2.000 Median :1.000   
## Mean :3.009 Mean :1.805 Mean :1.523 Mean :1.299   
## 3rd Qu.:4.000 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.:2.000   
## Max. :8.000 Max. :2.000 Max. :2.000 Max. :2.000   
## NA's :10551 NA's :6101 NA's :12652 NA's :12652   
## VCF0727 VCF0728 VCF0744 VCF0745   
## Min. :1.000 Min. :1.000 Min. :1.000 Min. :1.000   
## 1st Qu.:1.000 1st Qu.:2.000 1st Qu.:1.000 1st Qu.:1.000   
## Median :2.000 Median :3.000 Median :1.000 Median :5.000   
## Mean :1.683 Mean :3.074 Mean :2.191 Mean :3.128   
## 3rd Qu.:2.000 3rd Qu.:4.000 3rd Qu.:5.000 3rd Qu.:5.000   
## Max. :2.000 Max. :5.000 Max. :5.000 Max. :5.000   
## NA's :12007 NA's :12546 NA's :10332 NA's :12652   
## VCF9032 VCF9033 VCF9034 VCF9035   
## Min. :0.000 Min. :0.00 Min. : NA Min. :0.000   
## 1st Qu.:0.000 1st Qu.:0.00 1st Qu.: NA 1st Qu.:1.000   
## Median :0.000 Median :2.00 Median : NA Median :3.000   
## Mean :1.507 Mean :2.76 Mean :NaN Mean :3.597   
## 3rd Qu.:3.000 3rd Qu.:6.00 3rd Qu.: NA 3rd Qu.:7.000   
## Max. :5.000 Max. :7.00 Max. : NA Max. :7.000   
## NA's :3495 NA's :11351 NA's :13718 NA's :11356   
## VCF9266 VCF0102 VCF0104 VCF9222   
## Min. :1.000 Min. :1.000 Min. :1.000 Min. :1.000   
## 1st Qu.:1.000 1st Qu.:2.000 1st Qu.:1.000 1st Qu.:1.000   
## Median :1.000 Median :4.000 Median :2.000 Median :2.000   
## Mean :1.432 Mean :3.929 Mean :1.533 Mean :1.707   
## 3rd Qu.:1.000 3rd Qu.:5.000 3rd Qu.:2.000 3rd Qu.:2.000   
## Max. :7.000 Max. :7.000 Max. :3.000 Max. :2.000   
## NA's :11941 NA's :226 NA's :41 NA's :244   
## VCF0880 VCF9229 VCF0606 VCF9030a   
## Min. :1.000 Min. :1.000 Min. :1.00 Min. :1.000   
## 1st Qu.:1.000 1st Qu.:2.000 1st Qu.:1.00 1st Qu.:1.000   
## Median :2.000 Median :2.000 Median :1.00 Median :2.000   
## Mean :1.993 Mean :1.991 Mean :1.37 Mean :1.603   
## 3rd Qu.:3.000 3rd Qu.:2.000 3rd Qu.:2.00 3rd Qu.:2.000   
## Max. :3.000 Max. :3.000 Max. :9.00 Max. :2.000   
## NA's :91 NA's :395 NA's :400 NA's :1443   
## VCF0322 VCF9206 VCF0105b VCF0009z   
## Min. :-10.000 Min. :1.000 Min. :1.000 Min. :0.0212   
## 1st Qu.: -1.000 1st Qu.:1.000 1st Qu.:1.000 1st Qu.:0.4494   
## Median : 0.000 Median :2.000 Median :1.000 Median :0.7881   
## Mean : 0.502 Mean :1.995 Mean :1.647 Mean :0.9998   
## 3rd Qu.: 2.000 3rd Qu.:3.000 3rd Qu.:2.000 3rd Qu.:1.2957   
## Max. : 10.000 Max. :3.000 Max. :4.000 Max. :6.8130   
## NA's :12506 NA's :231 NA's :102   
## VCF0900b   
## Min. : 101   
## 1st Qu.:1222   
## Median :2706   
## Mean :2808   
## 3rd Qu.:4206   
## Max. :5601   
## NA's :192

#Tables/Cross Tabs

#Voted

attach(Data\_no\_missing)  
with(Data\_no\_missing, table(VCF0702))

## VCF0702  
## 1 2   
## 2620 9731

#Voted-Contacted by a Major Party?  
  
Table1 <- table(VCF0702, VCF9030a)   
  
#Diff b/w parties?  
  
table(VCF0501)

## VCF0501  
## 1 2 9   
## 2137 9989 151

table(VCF0702, VCF0501)

## VCF0501  
## VCF0702 1 2 9  
## 1 849 1664 80  
## 2 1283 8312 67

Dem\_Voters <- table(VCF0702, VCF0314)  
round(prop.table(Dem\_Voters,1),2)

## VCF0314  
## VCF0702 0 1 2 3 4 5  
## 1 0.63 0.20 0.10 0.05 0.01 0.02  
## 2 0.40 0.22 0.16 0.09 0.06 0.06

Diff\_parties <- table(VCF0702, VCF0501)  
Diff\_parties

## VCF0501  
## VCF0702 1 2 9  
## 1 849 1664 80  
## 2 1283 8312 67

round(prop.table(Diff\_parties,1),2)

## VCF0501  
## VCF0702 1 2 9  
## 1 0.33 0.64 0.03  
## 2 0.13 0.86 0.01

# Less incentivized to vote if think there the same  
  
Dislike\_DEM <- table(VCF0702, VCF9201)  
Dislike\_DEM

## VCF9201  
## VCF0702 0 1 2 3 4 5 6 7 8 9 10  
## 1 134 83 99 165 190 646 207 249 272 111 338  
## 2 832 442 667 780 592 1152 606 963 1245 709 1601

Dislike\_REP <- table(VCF0702, VCF9202)  
  
Rep\_views <- table(VCF0702, VCF9203)  
round(prop.table(Rep\_views,1),2)

## VCF9203  
## VCF0702 1 2  
## 1 0.46 0.54  
## 2 0.68 0.32

which\_party <- table(VCF0702, VCF9204)  
round(prop.table(which\_party,1),2)

## VCF9204  
## VCF0702 1 2 7  
## 1 0.60 0.37 0.03  
## 2 0.55 0.41 0.04

Party\_pref <- table(VCF0702, VCF9206)  
round(prop.table(Party\_pref,1),2)

## VCF9206  
## VCF0702 1 2 3  
## 1 0.18 0.47 0.36  
## 2 0.28 0.50 0.22

Dem\_Smart <- table(VCF0702, VCF0350)  
round(prop.table(Dem\_Smart,1),2)

## VCF0350  
## VCF0702 1 2 3 4  
## 1 0.34 0.51 0.11 0.04  
## 2 0.42 0.48 0.08 0.02

Dem\_Angry <- table(VCF0702, VCF0358)  
round(prop.table(Dem\_Angry,1),2)

## VCF0358  
## VCF0702 1 2  
## 1 0.41 0.59  
## 2 0.50 0.50

REP\_Angry <- table(VCF0702, VCF0370)  
round(prop.table(REP\_Angry,1),2)

## VCF0370  
## VCF0702 1 2  
## 1 0.48 0.52  
## 2 0.55 0.45

Approve\_Pres <- table(VCF0702, VCF0450)  
round(prop.table(Approve\_Pres,1),2)

## VCF0450  
## VCF0702 1 2 8  
## 1 0.48 0.49 0.02  
## 2 0.49 0.50 0.01

Approve\_Pres\_rating <- table(VCF0702, VCF0451)  
round(prop.table(Approve\_Pres\_rating,1),2)

## VCF0451  
## VCF0702 1 2 3 4 8  
## 1 0.28 0.20 0.15 0.34 0.03  
## 2 0.32 0.16 0.10 0.41 0.01

Pres\_Econ <- table(VCF0702, VCF9220)  
round(prop.table(Pres\_Econ,1),2)

## VCF9220  
## VCF0702 1 2 3  
## 1 0.29 0.31 0.40  
## 2 0.38 0.23 0.38

Right\_Track <- table(VCF0702, VCF9222)  
round(prop.table(Right\_Track,1),2)

## VCF9222  
## VCF0702 1 2  
## 1 0.26 0.74  
## 2 0.31 0.69

LIB\_CON <- table(VCF0702, VCF0803)  
round(prop.table(LIB\_CON,1),2)

## VCF0803  
## VCF0702 1 2 3 4 5 6 7 9  
## 1 0.02 0.07 0.09 0.31 0.11 0.09 0.02 0.28  
## 2 0.03 0.12 0.11 0.25 0.13 0.19 0.04 0.13

Trust\_Fed\_Gov <- table(VCF0702, VCF0604)  
round(prop.table(Trust\_Fed\_Gov,1),2)

## VCF0604  
## VCF0702 1 2 3 4 9  
## 1 0.03 0.65 0.25 0.05 0.02  
## 2 0.01 0.69 0.27 0.03 0.00

Crooked\_FED <- table(VCF0702, VCF0608)  
round(prop.table(Crooked\_FED,1),2)

## VCF0608  
## VCF0702 1 2 3 9  
## 1 0.58 0.34 0.06 0.02  
## 2 0.57 0.36 0.06 0.01

TRUST\_GOV\_GEN <- table(VCF0702, VCF0656)  
round(prop.table(TRUST\_GOV\_GEN,1),2)

## VCF0656  
## VCF0702 0 8 11 13 17 21 22 25 28 29 33 34 38 39  
## 1 0.33 0.12 0.00 0.00 0.07 0.06 0.00 0.05 0.00 0.02 0.06 0.00 0.00 0.00  
## 2 0.35 0.13 0.00 0.00 0.08 0.07 0.00 0.05 0.00 0.02 0.08 0.00 0.00 0.00  
## VCF0656  
## VCF0702 42 44 46 50 54 56 58 59 61 63 67 71 72 75  
## 1 0.02 0.00 0.02 0.06 0.02 0.00 0.01 0.00 0.00 0.00 0.05 0.01 0.00 0.04  
## 2 0.02 0.00 0.02 0.05 0.02 0.00 0.01 0.00 0.00 0.00 0.04 0.00 0.00 0.03  
## VCF0656  
## VCF0702 78 79 83 84 88 89 92 100  
## 1 0.00 0.01 0.01 0.00 0.00 0.00 0.00 0.01  
## 2 0.00 0.01 0.01 0.00 0.00 0.00 0.00 0.01

Volunteer <- table(VCF0702, VCF9256)  
round(prop.table(Volunteer,1),2)

## VCF9256  
## VCF0702 1 2  
## 1 0.29 0.71  
## 2 0.47 0.53

Interst\_Elec <- table(VCF0702, VCF0310)  
round(prop.table(Interst\_Elec,1),2)

## VCF0310  
## VCF0702 1 2 3 9  
## 1 0.33 0.45 0.22 0.00  
## 2 0.09 0.38 0.53 0.00

Care\_win <- table(VCF0702, VCF0311)  
round(prop.table(Care\_win,1),2)

## VCF0311  
## VCF0702 1 2  
## 1 0.42 0.58  
## 2 0.10 0.90

Care\_win\_CONG <- table(VCF0702, VCF0312)  
round(prop.table(Care\_win\_CONG,1),2)

## VCF0312  
## VCF0702 1 2  
## 1 0.54 0.46  
## 2 0.24 0.76

Pred\_Close <- table(VCF0702, VCF0714)  
round(prop.table(Pred\_Close,1),2)

## VCF0714  
## VCF0702 1 2 9  
## 1 0.25 0.74 0.01  
## 2 0.21 0.79 0.01

Pred\_Close

## VCF0714  
## VCF0702 1 2 9  
## 1 647 1900 37  
## 2 2008 7618 50

# Correlation

res <- cor.test(VCF0702, VCF0102,   
 method = "pearson")  
res

##   
## Pearson's product-moment correlation  
##   
## data: VCF0702 and VCF0102  
## t = 22.864, df = 12159, p-value < 2.2e-16  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## 0.1859255 0.2200076  
## sample estimates:  
## cor   
## 0.203028

#rename variables

Data\_no\_missing <- Data\_no\_missing %>%   
 rename(  
 Age = VCF0102,  
 Gender = VCF0104,  
 Better\_worse = VCF0880,  
 FED\_Tax = VCF0606,  
 Bw\_parties = VCF0501,  
 contacted\_by\_party = VCF9030a,  
 control\_split = VCF9206,  
 Race = VCF0105b,  
 Country\_direction = VCF9222)

#Regressions

#creating dummy variables

Data\_no\_missing <- Data\_no\_missing %>%   
 mutate(  
 Age\_Dummy = factor(Age),  
 Gender\_DV = factor(Gender),  
 Better\_worse\_dummy = factor(Better\_worse),  
 FED\_Gov\_tax\_dummy = factor(FED\_Tax),  
 bw\_parties\_DV = factor(Bw\_parties),  
 Contacted\_by\_party\_DV = factor(contacted\_by\_party),  
 Control\_split\_DV = factor(control\_split),  
 Race\_DV = factor(Race),  
 Dummy\_dep\_voting = ifelse (VCF0702 > 1, 1, 0),  
 Dummy\_right\_dir = ifelse (Country\_direction > 1, 0, 1),  
)  
  
# Regression  
  
reg\_1st\_results <- lm(Dummy\_dep\_voting ~ Age\_Dummy + Gender\_DV + Better\_worse\_dummy + FED\_Gov\_tax\_dummy + bw\_parties\_DV + Contacted\_by\_party\_DV + Control\_split\_DV + Dummy\_right\_dir+ Race\_DV, weights= VCF0009z, data=Data\_no\_missing)  
summary(reg\_1st\_results)

##   
## Call:  
## lm(formula = Dummy\_dep\_voting ~ Age\_Dummy + Gender\_DV + Better\_worse\_dummy +   
## FED\_Gov\_tax\_dummy + bw\_parties\_DV + Contacted\_by\_party\_DV +   
## Control\_split\_DV + Dummy\_right\_dir + Race\_DV, data = Data\_no\_missing,   
## weights = VCF0009z)  
##   
## Weighted Residuals:  
## Min 1Q Median 3Q Max   
## -2.00164 0.00382 0.10079 0.21287 1.42766   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 0.598952 0.018136 33.025 < 2e-16 \*\*\*  
## Age\_Dummy2 0.074694 0.013886 5.379 7.63e-08 \*\*\*  
## Age\_Dummy3 0.142197 0.014165 10.039 < 2e-16 \*\*\*  
## Age\_Dummy4 0.164410 0.014019 11.727 < 2e-16 \*\*\*  
## Age\_Dummy5 0.187218 0.014220 13.166 < 2e-16 \*\*\*  
## Age\_Dummy6 0.212482 0.015763 13.480 < 2e-16 \*\*\*  
## Age\_Dummy7 0.212080 0.018334 11.567 < 2e-16 \*\*\*  
## Gender\_DV2 0.026528 0.007316 3.626 0.000289 \*\*\*  
## Gender\_DV3 -0.104274 0.131605 -0.792 0.428190   
## Better\_worse\_dummy2 -0.001340 0.009979 -0.134 0.893170   
## Better\_worse\_dummy3 -0.030547 0.008800 -3.471 0.000520 \*\*\*  
## FED\_Gov\_tax\_dummy2 -0.003736 0.008658 -0.432 0.666084   
## FED\_Gov\_tax\_dummy3 -0.068337 0.022435 -3.046 0.002324 \*\*   
## FED\_Gov\_tax\_dummy9 -0.265889 0.074040 -3.591 0.000331 \*\*\*  
## bw\_parties\_DV2 0.188179 0.009650 19.501 < 2e-16 \*\*\*  
## bw\_parties\_DV9 -0.101860 0.036666 -2.778 0.005477 \*\*   
## Contacted\_by\_party\_DV2 -0.113748 0.007776 -14.628 < 2e-16 \*\*\*  
## Control\_split\_DV2 -0.030281 0.008986 -3.370 0.000755 \*\*\*  
## Control\_split\_DV3 -0.100289 0.010540 -9.515 < 2e-16 \*\*\*  
## Dummy\_right\_dir 0.021109 0.008861 2.382 0.017220 \*   
## Race\_DV2 0.023579 0.011630 2.027 0.042642 \*   
## Race\_DV3 -0.072326 0.012116 -5.969 2.45e-09 \*\*\*  
## Race\_DV4 -0.077462 0.015800 -4.903 9.59e-07 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.3912 on 11506 degrees of freedom  
## (2189 observations deleted due to missingness)  
## Multiple R-squared: 0.131, Adjusted R-squared: 0.1293   
## F-statistic: 78.83 on 22 and 11506 DF, p-value: < 2.2e-16