## Pilot Data Cleaner

Daniel K Baissa, Melani Cammett, and Aytug Sasmaz

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## Loading in data

I will start by creating a function to automatically set up the data.

All of this is a work in progress

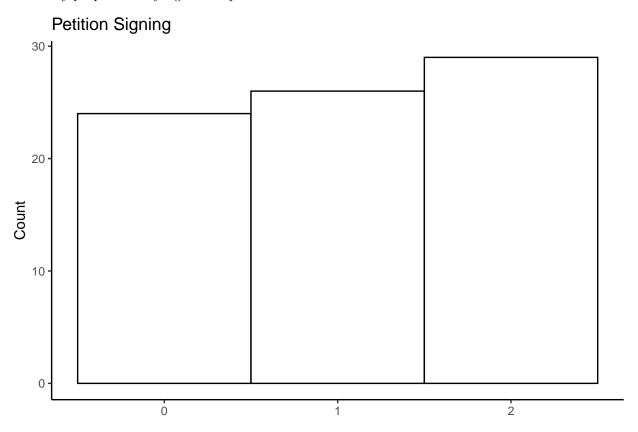
```
# Creating a function to load datasets
data_cleaner <- function(d){</pre>
 df <- read_csv(d) %>% #reading in the data
  slice(c(-1, -2)) #qualtrics adds 2 rows of unnecessary headers. This removes them.
# Cleaning up the conjoint data.
# Note, this is not very efficient memory wise
# and may need to be tuned up for larger datasets
names <- colnames(df)</pre>
new_names <- paste0(1:243, "_conjoint_friend1")</pre>
new_names2 <- paste0(1:243, "_conjoint_friend2")</pre>
df2 <- df %>%
  setnames(old = names[246:488], new = new_names) %>%
  setnames(old = names[489:731], new = new_names2)
test2 <- df2 %>%
    pivot_longer(
          cols = ends with("friend1"),
          names_to = "Conjoint_first_permutation",
          values_to = "Conjoint_first_permutation_answer") %>%
  filter(!is.na(Conjoint_first_permutation_answer)) %>%
    pivot_longer(
          cols = ends with(" friend2"),
          names_to = "Conjoint_second_permutation",
          values_to = "Conjoint_second_permutation_answer") %>%
    filter(!is.na(Conjoint_second_permutation_answer)) %>%
   pivot_longer(
          cols = starts_with("ptt"),
          names_to = "Petition_Experiment_Treatment",
          values_to = "Petition_Experiment_Treatment_Answer") %>%
  filter(!is.na(Petition_Experiment_Treatment_Answer))
```

```
}
```

Now that the function is created, we can use it to make our data. There will be a warning, but it is totally ok for now.

## Petition Signing distribution

How many people actually signed the petition? Lets find out.



Lets do some basic stats on the petition experiment. Here is a simple logistic regression to see if the control group is different from any of the treatments.

```
# colnames(df)
# unique(df$Petition_Experiment_Treatment)
df2 <- df %>%
  filter(Petition_Experiment_Treatment == "ptt_treat_control_fo" | Petition_Experiment_Treatment == "pt
df2$pt_econ_treatment <- 0
df2$pt econ treatment[which(df2$Petition Experiment Treatment == "ptt treat eco foll")] <- 1
df2$signed <- 0
df2\$signed[which(df2\$Q144 > 0)] <- 1
test <- glm(signed ~ pt_econ_treatment, data = df2, family = binomial())</pre>
summary(test)
##
## Call:
## glm(formula = signed ~ pt_econ_treatment, family = binomial(),
       data = df2)
##
##
## Deviance Residuals:
       Min
                   10
                         Median
                                       30
                                                Max
## -1.84648
                        0.00008
                                            0.63352
              0.00008
                                  0.63352
## Coefficients:
                     Estimate Std. Error z value Pr(>|z|)
##
## (Intercept)
                        19.57
                                 3584.67
                                           0.005
                                                    0.996
                       -18.06
                                 3584.67 -0.005
## pt_econ_treatment
                                                    0.996
## (Dispersion parameter for binomial family taken to be 1)
##
##
       Null deviance: 13.003 on 19 degrees of freedom
## Residual deviance: 10.431 on 18 degrees of freedom
## AIC: 14.431
## Number of Fisher Scoring iterations: 18
## combined table
(ctable <- cbind(ctable, "p value" = p))</pre>
##
                                                          Value Std. Error
## Petition_Experiment_Treatmentptt_treat_bft_foll
                                                     -0.1667512 0.7582067
## Petition_Experiment_Treatmentptt_treat_control_fo 2.0974644 0.9855129
## Petition_Experiment_Treatmentptt_treat_cor_foll
                                                     -0.1171191 0.7088077
## Petition_Experiment_Treatmentptt_treat_eco_foll
                                                      0.9024628 0.8248948
## Petition_Experiment_Treatmentptt_treat_sec_foll
                                                     -0.6321240 0.7543644
                                                      -0.7742921 0.5908313
## 0|1
## 1 | 2
                                                      0.7744112 0.5908326
##
                                                         t value
                                                                    p value
                                                     -0.2199285 0.82592686
## Petition_Experiment_Treatmentptt_treat_bft_foll
## Petition_Experiment_Treatmentptt_treat_control_fo 2.1282973 0.03331245
## Petition_Experiment_Treatmentptt_treat_cor_foll
                                                    -0.1652339 0.86875986
## Petition_Experiment_Treatmentptt_treat_eco_foll
                                                      1.0940338 0.27394015
## Petition_Experiment_Treatmentptt_treat_sec_foll
                                                    -0.8379557 0.40205559
```

```
## 0|1 -1.3105130 0.19002234
## 1|2 1.3107116 0.18995522
```

The Covid Treatment was the treatment left out for comparison by the model. Lets take a look at that.

```
signif((ctable <- cbind(ctable, "p value" = p)),3)</pre>
```

```
Value Std. Error t value
## Petition_Experiment_Treatmentptt_treat_control_fo 2.040
                                                                  1.010
                                                                           2.03
## 0|1
                                                     -0.713
                                                                  0.639
                                                                          -1.12
## 1|2
                                                      0.714
                                                                  0.639
                                                                           1.12
                                                     p value
##
## Petition_Experiment_Treatmentptt_treat_control_fo
                                                        0.042
                                                        0.264
## 1|2
                                                        0.264
```

Something appears to be going on here, but the N is so small that it could still be chance