```
In [ ]: library(tidyverse)
        library(reshape2)
        library(lme4)
        library(corrplot)
        library(jtools)
        library(dotwhisker)
        library(broom)
        library(knitr)
        library(ggfortify)
        library(nlme)
        library(simr)
        library(pscl)
        library(foreign)
        library("gdata")
        library('ri2')
        library(lmerTest)
        library(binom)
        library(ggthemes)
        library(ggthemes)
        library(lfe)
        library(broom.mixed)
        library(lmtest)
        library(sandwich)
        library(multiwayvcov)
```

ANOVA Tukey Tests

Estimating q

```
data_ <- read.csv("R_paper.csv")
```

model.d <- glm(ProbaDel ~ Normalized_IRT + uniqueid + CodeExclu + gender, data=data, family=binomial(logit)) vcovfirm <- cluster.vcov(model.d, select(data, unique_id)) coeftest(model.d, vcov_firm)[1:2,] coeftest(model.d)[1:2,]

model.d <- glm(ProbaDel ~ Normalized/RT, data=data, family=binomial(logit)) vcovfirm <- cluster.vcov(model.d, select(data, unique_id)) coeftest(model.d, vcov_firm)[1:2,] coeftest(model.d)[1:2,]

Estimating φ

```
In []: data_phi <- read.csv("phi_w_gmm.csv")

data_phi <- data_phi[!data_phi$CodeExclu %in% c('S'), ]

qqnorm(data_phi$Weight, main='Normality Test for Weights')
qqline(data_phi$Weight)

data_phi$CodeExclu <- factor(data_phi$CodeExclu)
data_phi$ExpNum <- factor(data_phi$ExpNum)
data_phi$ppi <- factor(data_phi$ExpNum)

data_phi$full_name <- paste(data_phi$CodeExclu, data_phi$ExpNum, sep = "_")

fixed <- felm(Weight ~ pj | ExpNum + CodeExclu + ppi | 0 | full_name, data=data_phi)
print(coeftest(fixed)[1:1,])

fixed <- felm(Weight ~ pj:ppi | ExpNum + CodeExclu + ppi | 0 | full_name, data=data_phi)
print(summary(fixed))

fixed <- felm(Weight ~ pj:CodeExclu | ExpNum + CodeExclu + ppi | 0 | 0, data=data_phi)
print(summary(fixed))
```

Estimating Difference

```
In [ ]: lvd <- read.csv("LDvDD.csv")</pre>
        lvd_<- lvd[!lvd$CodeExclu %in% c('S'), ]</pre>
         lvd$full_name <- paste(lvd$CodeExclu, lvd$ExpNum, sep = "_")</pre>
         lvd$CodeExcluF <- factor(lvd$CodeExclu)</pre>
         lvd$ExpNum <- factor(lvd$ExpNum)</pre>
         qqnorm(lvd$Estimate, main='Normality Tests for Direct and Liquid Votes')
         qqline(lvd$Estimate)
         summary(felm(data = lvd, Estimate ~ Cat | ExpNum + CodeQuestion + ExpNum:CodeExcluF + CodeExcluF | 0 | full name))
         coeftest(felm(data = lvd, Estimate ~ Cat | ExpNum + CodeQuestion | 0 | full_name))
         summary(felm(data = lvd, Estimate ~ Cat:CodeExclu | ExpNum + CodeQuestion | 0 | full name ))
In [ ]: lvd <- read.csv("LDvDD_means.csv")</pre>
        lvd <- lvd[!lvd$CodeExclu %in% c('S'), ]</pre>
        lvd$full_name <- paste(lvd$CodeExclu, lvd$ExpNum, sep = "_")</pre>
         qqnorm(lvd$Estimate, main='Normality Tests for Direct and Liquid Average')
         qqline(lvd$Estimate)
         lvd$CodeExcluF <- factor(lvd$CodeExclu)</pre>
         lvd$ExpNum <- factor(lvd$ExpNum)</pre>
         summary(felm(data = lvd, Estimate ~ Cat | ExpNum + CodeExclu| 0 | full_name))
         summary(felm(data = lvd, Estimate ~ Cat:CodeExclu | ExpNum + CodeExclu | 0 | 0))
```