

Untitled

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Set up

functions

```
m_se<-function(ts,ta){  
  #INPUTS  
  # ts: vector of variables of samples who seek out the treatment  
  # ta: vector of variables of samples who avoid the treatment  
  
  ## difference in means  
  m_ts<-mean(ts,na.rm = TRUE)  
  m_ta<-mean(ta,na.rm = TRUE)  
  
  diff<-m_ts-m_ta  
  
  ## the number of observations in each category  
  N1 <- length(na.omit(ts))  
  N0 <- length(na.omit(ta))  
  
  ## variances and standard error  
  var1 <- sum((ts - m_ts)^2,na.rm=T) / (N1 - 1)  
  var0 <- sum((ta - m_ta)^2,na.rm=T) / (N0 - 1)  
  
  se <- sqrt(var1/N1 + var0/N0)  
  
  ## Degree of Freedom calculation  
  df_numerator <- (var1/N1 + var0/N0)^2  
  df_denominator <- (var1^2/(N1^2*(N1-1))) + (var0^2/(N0^2*(N0-1)))  
  
  degrees_free <- df_numerator/df_denominator  
  
  ll <- diff - qt(.95,degrees_free)*se  
  ul <- diff + qt(.95,degrees_free)*se  
  
  output<-(c(diff,ll,ul))  
  return(output)}  
  
gfun<-function(data_selector,data_avoider){  
  Female<-m_se(data_selector$gender,data_avoider$gender)
```

```

Non_White<-m_se(data_selector$non_white,data_avoider$non_white)
Education<-m_se(data_selector$education,data_avoider$education)
Income<-m_se(data_selector$income,data_avoider$income)
PID<-m_se(data_selector$pid,data_avoider$pid)
Ideology<-m_se(data_selector$ideo,data_avoider$ideo)
Me<-m_se(data_selector$fam_movement,data_avoider$fam_movement)
Specific<-m_se(data_selector$dv_pca_metoo,data_avoider$dv_pca_metoo)
General<-m_se(data_selector$dv_pca_general,data_avoider$dv_pca_general)

data<-rbind(Female,Non_White,Education,Income,PID,Ideology,Me,Specific,General) %>%
  as.data.frame() %>%
  rownames_to_column(var = "Covariates")

colnames(data)<-c("Covariates","Difference","Lower","Upper")

return(data)
}

```

Figure 1

```

treatment_selector<-filter(df_qg,balance=="Select Treatment")
treatment_avoider<-filter(df_qg,balance=="Avoid Treatment")

data_1<-gfun(treatment_selector,treatment_avoider)

figure5_1<-ggplot(data = data_1,aes(y=Covariates,x=Difference))+
  geom_point()+
  geom_errorbar(aes(xmin=Lower,xmax=Upper))+
  geom_vline(xintercept = 0, linetype="dotted")+
  theme_bw()

print(figure5_1)

```

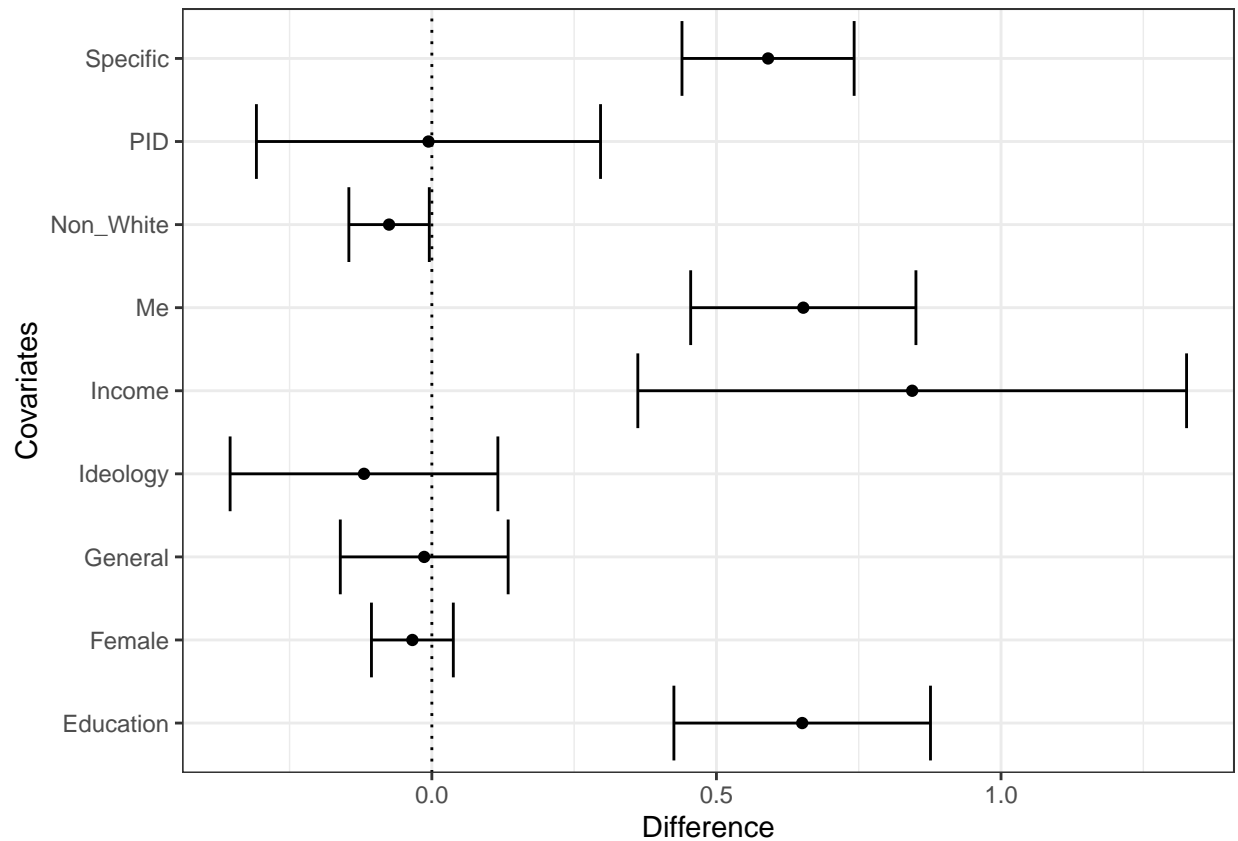


Figure 2

```
# gender analysis
f_df_qg<-filter(df_qg,gender==1)

treatment_selector<-filter(df_qg,balance=="Select Treatment")
treatment_avoider<-filter(df_qg,balance=="Avoid Treatment")

data_2_f<-gfun(treatment_selector,treatment_avoider)
data_2_f$gender<-"Female" %>% as.factor()

# male analysis
m_df_qg<-filter(df_qg,gender==0)

treatment_selector<-filter(m_df_qg,balance=="Select Treatment")
treatment_avoider<-filter(m_df_qg,balance=="Avoid Treatment")

data_2_m<-gfun(treatment_selector,treatment_avoider)
data_2_m$gender<-"Male" %>% as.factor()

# integrating
data_2<-rbind(data_2_f,data_2_m)
```

```
figure5_2<-ggplot(data = data_2,aes(y=Covariates,x=Difference))+
  geom_point(aes(colour=gender),
             shape = 21, alpha = 0.5,
             position=position_jitterdodge())+
  geom_errorbar(aes(xmin=Lower,xmax=Upper,colour=gender),
               position=position_jitterdodge())+
  geom_vline(xintercept = 0, linetype="dotted")+
  theme_bw()

print(figure5_2)
```

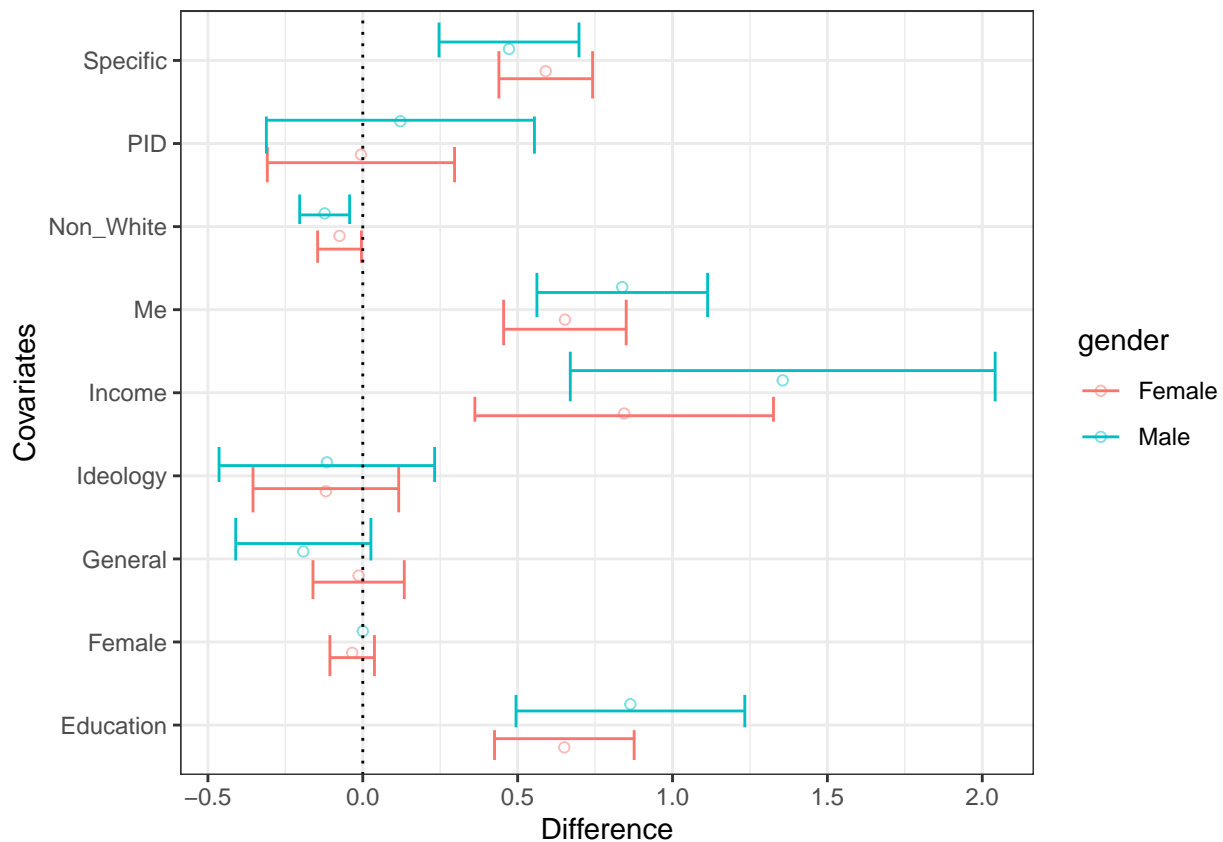


Figure 3

```
# Republican analysis
R_df_qg<-filter(df_qg,Partisanship=="Republicans")

treatment_selector<-filter(R_df_qg,balance=="Select Treatment")
treatment_avoider<-filter(R_df_qg,balance=="Avoid Treatment")

data_3_r<-gfun(treatment_selector,treatment_avoider)
```

```

data_3_r$partisanship<-"Republicans" %>% as.factor()

# Democrat analysis
D_df_qg<-filter(df_qg,Partisanship=="Democrats")

treatment_selector<-filter(D_df_qg,balance=="Select Treatment")
treatment_avoider<-filter(D_df_qg,balance=="Avoid Treatment")

data_3_d<-gfun(treatment_selector,treatment_avoider)

data_3_d$partisanship<-"Democrats" %>% as.factor()

# integrating
data_3<-rbind(data_3_r,data_3_d)

figure5_3<-ggplot(data = data_3,aes(y=Covariates,x=Difference))+
  geom_point(aes(colour=partisanship),
             shape = 21, alpha = 0.5,
             position=position_jitterdodge())+
  geom_errorbar(aes(xmin=Lower,xmax=Upper,colour=partisanship),
               position=position_jitterdodge())+
  geom_vline(xintercept = 0, linetype="dotted")+
  theme_bw()

print(figure5_3)

```

