# Mini-Project 2

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#### Loading the data

## Loading packages

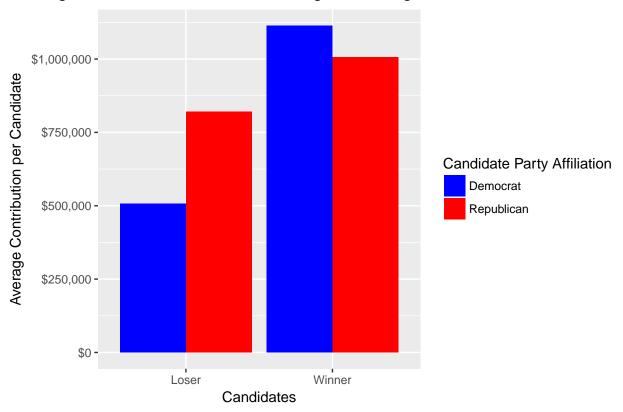
```
library(tidyverse)
library(scales)
```

#### Create our own dataset from the FEC dataset

```
#Merge candidates and contributions
cand_cont <- candidates %>%
  inner_join(contributions, by = "cand_id")
#Rename fec_id to cand_id
names(house_elections) <- c("cand_id", "state", "district", "incumbent", "candidate_name", "party", "pr</pre>
#Merge house_elections and my_candidates
my_candidates <- cand_cont %>%
  inner_join(house_elections, by = "cand_id")
#Select specific columns out of the my_candidates dataset
my_candidates <- my_candidates %>%
  select(1:6, transaction_amt, general_votes, ge_winner) %>%
  filter(transaction_amt > 0, general_votes > 0, cand_party_affiliation == "DEM" | cand_party_affiliati
#Storing republican winner and loser averages in rep winner and rep loser
rep_wl <- my_candidates %>%
    filter(cand_party_affiliation == "REP") %>%
    group_by(ge_winner) %>%
    summarize("total_for_winners" = sum(transaction_amt),
              "num_winners" = n_distinct(cand_id),
               "winner_avg" = total_for_winners/num_winners)
rep_winner <- rep_wl$winner_avg[[2]]</pre>
rep_loser <- rep_wl$winner_avg[[1]]</pre>
#Storing democarat winner and loser averages in dem_winner and dem_loser
dem_wl <- my_candidates %>%
   filter(cand_party_affiliation == "DEM") %>%
   group_by(ge_winner) %>%
    summarize("total_for_winners" = sum(transaction_amt),
              "num_winners" = n_distinct(cand_id),
               "winner_avg" = total_for_winners/num_winners)
```

#### Creating the data graphic

# Average Donor Contributions to Winning and Losing Candidates



## Function to create rep/dem winner & loser variables