

# HW9

David Scaperoth

2023-07-10

From previous Section...

```
# Inner join based on the "cand_id" column
result <- inner_join(results_house, campaigns, by = "cand_id")
```

## Q3.4 Exploring - Indicator Variables and Scatter Plot

```
# OTHER category created from all ambiguous labels
result$candidate_party <- result$party
mask <- !(result$candidate_party=='REP' | result$candidate_party=='DEM')
result$candidate_party[mask] <- "OTHER"
```

```
result %>%
  ggplot() +
  aes(x = ttl_disb, y = general_votes, color=candidate_party) +
  geom_point(stat = "identity") +
  ggtitle("Scatter Plot of\nCampaign Contributions vs. Votes in the House\n")+
  labs(x = "Campaign Contributions ($)", y="House Votes")+
  scale_y_continuous(labels = scales::comma)+
  scale_x_continuous(labels = scales::comma)+
  theme(plot.title = element_text(hjust = 0.5))+
  labs(color = "Party")
```

Scatter Plot of  
Campaign Contributions vs. Votes in the House

