Campaign Financing and Election Results

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##This dataset containing congressional candidates, with information on their campaign including the state, district, office, total contributions, and total expenditures leading up to the 2016 election. The campaign finance information was collected for each candidate from FEC.gov and the election results came from CNN.This is a comma delimited file. The interest is to determine if there is a relationship between the amount of money fundraised and spent on a campaign and positive election results.

knitr::opts\_chunk$set(echo = TRUE)  
#Reading in the data I will use the read.csv option from readr. No additional options used  
library(readr)   
CandidateSummary<- read\_csv("CandidateSummaryAction1.csv")

##   
## -- Column specification --------------------------------------------------------  
## cols(  
## .default = col\_character(),  
## can\_off\_dis = col\_double(),  
## can\_zip = col\_double(),  
## off\_to\_fun = col\_logical(),  
## off\_to\_leg\_acc = col\_logical(),  
## exe\_leg\_acc\_dis = col\_logical(),  
## votes = col\_double()  
## )  
## i Use `spec()` for the full column specifications.

## Warning: 11 parsing failures.  
## row col expected actual file  
## 1335 exe\_leg\_acc\_dis 1/0/T/F/TRUE/FALSE $46.33 'CandidateSummaryAction1.csv'  
## 1366 exe\_leg\_acc\_dis 1/0/T/F/TRUE/FALSE $344,742.61 'CandidateSummaryAction1.csv'  
## 1398 exe\_leg\_acc\_dis 1/0/T/F/TRUE/FALSE $1,000.00 'CandidateSummaryAction1.csv'  
## 1512 exe\_leg\_acc\_dis 1/0/T/F/TRUE/FALSE $1,000.00 'CandidateSummaryAction1.csv'  
## 1559 off\_to\_leg\_acc 1/0/T/F/TRUE/FALSE $5,000.00 'CandidateSummaryAction1.csv'  
## .... ............... .................. ........... .............................  
## See problems(...) for more details.

#The file contained column headers that contained canidate which seemed redundant, so I will use rename headers to address this issue

knitr::opts\_chunk$set(echo = TRUE)  
library(dplyr)

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

CandidateSummary<- rename(CandidateSummary,  
 ID = can\_id,  
 name = can\_nam,  
 office = can\_off,  
 officestate = can\_off\_sta,  
 district = can\_off\_dis,  
 affliation = can\_par\_aff,  
 currentposition = can\_inc\_cha\_ope\_sea,  
 streetaddress = can\_str1,  
 city = can\_cit,  
 state = can\_sta,  
 zipcode = can\_zip)

#This dataframe has 1814 rows and 51 columns  
library(readr)  
CandTable<- read\_csv("CandTable.csv")

##   
## -- Column specification --------------------------------------------------------  
## cols(  
## `Column name` = col\_character(),  
## Description = col\_character(),  
## `Data type` = col\_character()  
## )

library(knitr)  
kable(CandTable[1:3])

|  |  |  |
| --- | --- | --- |
| Column name | Description | Data type |
| name | Name of candidate | Text |
| ID | Candidate ID | Text |
| office | office abbreviation |  |
| H=House, S=Senate, P=President | Text |  |
| officestate | Postal abbreviation for state | Text |
| district | District number for House candidates | Number |
| affiliation | Party affiliation | Text |
| Cand\_Incumbent\_Challenger\_Open\_Seat | I=incumbent; C=challenger; O=open seat | Text |
| Total\_Receipt | Sum of all receipt categories | Currency(in thousands) |
| Total\_Disbursement | Sum of all disbursement categories | Currency(in thousands) |
| Cash\_On\_Hand\_COP | Ending cash balance on the most recent filing | Currency(in thousands) |
| Debt\_Owed\_By\_Committee | Debt owed by committee | Currency(in thousands) |
| Coverage\_End\_Date | Ending date of the most recent report | Date |
| streetaddress | mailing address | Text |
| Cand\_Street\_2 | mailing address line 2 | Text |
| city | City of mailing address | Text |
| state | State of mailing address | Text |
| zipcode | zipcode of mailing address | Number |
| Individual\_Itemized\_Contribution | Sum of itemized contributions from individuals | Currency(in thousands) |
| Individual\_Unitemized\_Contribution | Sum of unitemized contributions from individuals | Currency(in thousands) |
| Individual\_Contribution | Total contributions from individuals | Currency(in thousands) |
| Other\_Committee\_Contribution | Contributions from other committees | Currency(in thousands) |
| Party\_Committee\_Contribution | Contributions from party committees | Currency(in thousands) |
| Cand\_Contribution | Contributions from the candidate | Currency(in thousands) |
| Total\_Contribution | Total contributions | Currency(in thousands) |
| Transfer\_From\_Other\_Auth\_Committee | Transfers from other authorized committees | Currency(in thousands) |
| Cand\_Loan | Loans received from the candidate | Currency(in thousands) |
| Other\_Loan | Other loans | Currency(in thousands) |
| Total\_Loan | Sum of can\_loa and oth\_loa | Currency(in thousands) |
| Offsets\_To\_Operating\_Expenditure | e.g. refund of deposit for phone, bank, etc. | Currency(in thousands) |
| Offsets\_To\_Fundraising | NA | Currency(in thousands) |
| Offsets\_To\_Leagal\_Accounting | NA | Currency(in thousands) |
| Other\_Receipts | E.g. interest on bank deposits, capital gains, etc. | Currency(in thousands) |
| Operating\_Expenditure | Total of normal operating expenditure | Currency(in thousands) |
| Exempt\_Legal\_Accounting\_Disbursement | Applies only for Presidential candidates receiving public matching funds in the primaries | Currency(in thousands) |
| Fundraising\_Disbursement | NA | Currency(in thousands) |
| Transfer\_To\_Other\_Auth\_Committee | Transfers to other authorized committees included here | Currency(in thousands) |
| Cand\_Loan\_Repayment | Loan repayments to the candidate | Currency(in thousands) |
| Other\_Loan\_Repayment | Loan repayments to banks or others | Currency(in thousands) |
| Total\_Loan\_Repayment | Sum of can\_loa\_rep and oth\_loa\_rep | Currency(in thousands) |
| Individual\_Refund | Contribution refunds made to individuals | Currency(in thousands) |
| Party\_Committee\_Refund | Contribution refunds made to parties | Currency(in thousands) |
| Other\_Committee\_Refund | Contribution refunds made to other committees | Currency(in thousands) |
| Total\_Contribution\_Refund | Sum of ind\_ref, par\_com\_ref and oth\_com\_ref | Currency(in thousands) |
| Other\_Disbursements | e.g. donations to charity, contributions to state or local candidates, etc. | Currency(in thousands) |
| Net\_Contribution | Sum of all contributions minus any contribution refunds | Currency(in thousands) |
| Net\_Operating\_Expenditure | Sum of all operating expenditures minus any offsets to those expenditures | Currency(in thousands) |
| Cash\_On\_Hand\_BOP | Cash balance for the campaign at the start of the two-year period | Currency(in thousands) |
| Debt\_Owe\_To\_Committee | Debt owed to the committee | Currency(in thousands) |
| Coverage\_Start\_Date | Beginning date for the first report during the two year period | Date |

knitr::opts\_chunk$set(echo = TRUE)  
summary<- CandidateSummary[c (15:19)]  
str(summary)

## tibble [1,814 x 5] (S3: tbl\_df/tbl/data.frame)  
## $ ind\_con : chr [1:1814] "$601,274.50" "$1,114,711.02" "$542,105.38" "$4,317,331.58" ...  
## $ par\_com\_con: chr [1:1814] NA NA NA "$3,545.32" ...  
## $ oth\_com\_con: chr [1:1814] "$473,675.00" "$302,834.20" "$106,050.00" "$660,038.51" ...  
## $ can\_con : chr [1:1814] NA NA "$2,700.00" NA ...  
## $ tot\_con : chr [1:1814] "$1,074,949.50" "$1,417,545.22" "$650,855.38" "$4,980,915.41" ...  
## - attr(\*, "problems")= tibble [11 x 5] (S3: tbl\_df/tbl/data.frame)  
## ..$ row : int [1:11] 1335 1366 1398 1512 1559 1593 1613 1670 1691 1755 ...  
## ..$ col : chr [1:11] "exe\_leg\_acc\_dis" "exe\_leg\_acc\_dis" "exe\_leg\_acc\_dis" "exe\_leg\_acc\_dis" ...  
## ..$ expected: chr [1:11] "1/0/T/F/TRUE/FALSE" "1/0/T/F/TRUE/FALSE" "1/0/T/F/TRUE/FALSE" "1/0/T/F/TRUE/FALSE" ...  
## ..$ actual : chr [1:11] "$46.33" "$344,742.61" "$1,000.00" "$1,000.00" ...  
## ..$ file : chr [1:11] "'CandidateSummaryAction1.csv'" "'CandidateSummaryAction1.csv'" "'CandidateSummaryAction1.csv'" "'CandidateSummaryAction1.csv'" ...