

Final Project Plan - Analyze NYC Election Contribution Data

Data Sources

data.gov:

(multiple related csv files w/ at least one file containing >1000 records - 4pts)

2001 - Candidates & Contributions

2003 - Candidates & Contributions

2005 - Candidates & Contributions

2009 - Candidates & Contributions

2013 - Candidates & Contributions

data.gov

(CSV or JSON file you haven't used before with > 1000 records - 2pts)

2005 census - to get borough/area information

Wikipedia API

(Web API you haven't used before that requires no authorization - 3pts)

Retrieve candidate information:

Birthdate/Age

Political Affiliation

Years in Office

NYT API

(Web API you've used before - 2pts)

Search for articles on candidate either collectively or in given year

Total Challenge Score: 11? Or 9. Not exactly sure what the 2005 census counts as.

Create Database

Database will have 3 tables: Contributors, Candidates, and Boroughs

Contributors:

Will contain contributor Id, city, state, zip code, occupation (if applicable), amount donated, the candidate/recipient Id, and maybe the borough id (I honestly can't figure out if this is necessary since I have the city? I think I will include though to be safe. It seems to make the most sense.)

Candidates:

Will contain candidate/recipient Id, borough Id, and name

Boroughs:

Will contain borough Id and affiliated name

Function of Program

Allows users to search and sort through 7 sets of election contribution data to compare and contrast different contribution amounts to candidates over years. It also allows users to see how many contributions each candidate received and what those amounts were, as well as see the areas those contributions came from. Users will also have the ability to sort this information in a variety of ways, which will provide them with different information and context to consider while analyzing these contributions.

I originally wanted to analyze the contributors further, to see if they contributed multiple times or to multiple candidates. The dataset, however, was not set up in such a manner that would allow me to do this accurately.

Basic Ideas of functions are as follows:

Candidates

return candidate name, political affiliation, age, years in office, total contributions amount, num individual contributions, borough area

-default: returns all candidates sorted contribution amount

can also sort by year and total contributions

-can also return candidates in specific election by choosing election year

-can also return candidates in specific area

this can be done over all years or specific year

-can return candidates with specific political affiliation

-can choose specific candidate (by choosing number) and return individual donations to that candidate for predetermined year

return city, state, donation amount of contributor

can sort by donation amount ascending or descending/top-bottom

Contributions

returns contribution amount, contributor city, state, occupation if applicable, and recipient

default: returns 100 highest contributions from previous election year sorted by amount

can also sort alphabetically by city

can also return all contributions for given election year, or all election years-

default sorted by contribution amount

can also sort by area, and highest/lowest contributions

can also return info on contributions MADE from people in a specific area

Maps

Bar graph - to compare candidate contributions in specific year

Scatter Plot - to display candidate location paired with contributor locations for specific year - hovering over individual dots reveals donation amount

Column graph - comparing total democratic vs republican contributions in a year

Scatter plot - reveal contributions made in a specific borough

Scatter Plot - reveal democratic and republican contributions for specific year throughout

Scatter Plot - contributions made within specific price range

Average contributions per party over 3 elections

Average contributions per borough over 3 elections?

(Not sure if I will be doing all of these. I have to see what works/makes sense).