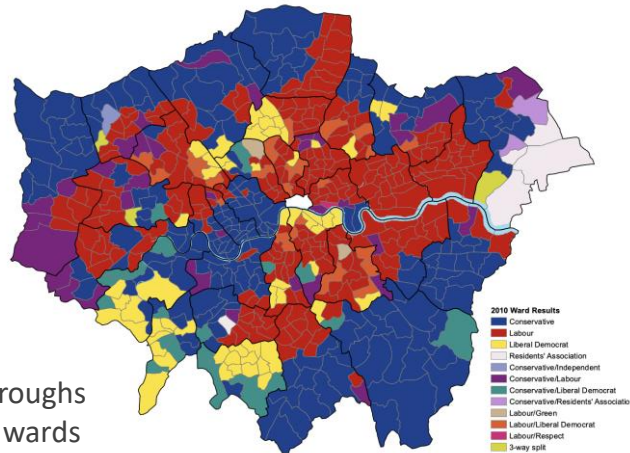


Data Visualization

ASSIGNMENT 3: RESULTS

Tea Tušar, Data Science and Scientific Computing, Information retrieval and data visualization

London local elections (2010): Map of boroughs and wards



32 boroughs
> 600 wards

London local elections (2010): Results

The position of candidates in the ballot is alphabetical

Results only for the three major parties (Lab, Cons, Lib Dem)

Year	Ward code	Borough	Ward	Name	Party	Votes	Elected	Rank	Ballot position	Party position	Num candidates	
0	2010	00ABFX	Barking and Dagenham	Abbey	Butt, Laila	Lab	3412	True	1	1	1	7
1	2010	00ABFX	Barking and Dagenham	Abbey	Hussain, Manzoor	Lab	3139	True	2	3	2	7
2	2010	00ABFX	Barking and Dagenham	Abbey	Saeed, Tariq	Lab	3122	True	3	6	3	7
3	2010	00ABFX	Barking and Dagenham	Abbey	Taylor, John W.	Cons	671	False	4	7	3	7
4	2010	00ABFX	Barking and Dagenham	Abbey	Iqbal, Mohammed C.	Cons	650	False	5	4	1	7
5	2010	00ABFX	Barking and Dagenham	Abbey	Gomes, Anthony	Lib Dem	603	False	6	2	1	7
6	2010	00ABFX	Barking and Dagenham	Abbey	Rahman, Shahidur	Cons	546	False	7	5	2	7
9	2010	00ABFY	Barking and Dagenham	Alibon	Rodwell, Darren	Lab	2245	True	1	4	3	5
10	2010	00ABFY	Barking and Dagenham	Alibon	Davis, John	Lab	2135	True	2	2	2	5
11	2010	00ABFY	Barking and Dagenham	Alibon	Alasia, Sanchia	Lab	1995	True	3	1	1	5
15	2010	00ABFY	Barking and Dagenham	Alibon	Patten, Vivian	Cons	687	False	4	3	1	5
16	2010	00ABFY	Barking and Dagenham	Alibon	Ryder, Richard D.	Lib Dem	529	False	5	5	1	5

3

Two questions

1. Does the candidate position in the ballot influence the number of votes received (or success achieved)?
2. If it does, is the influence different depending on the borough?

4

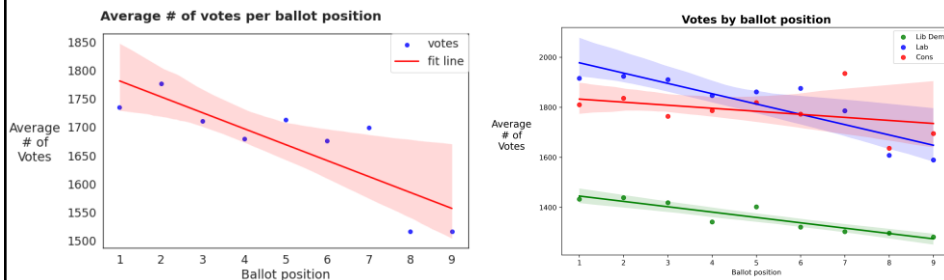
Assignment 3

Assignment completed by 5 students

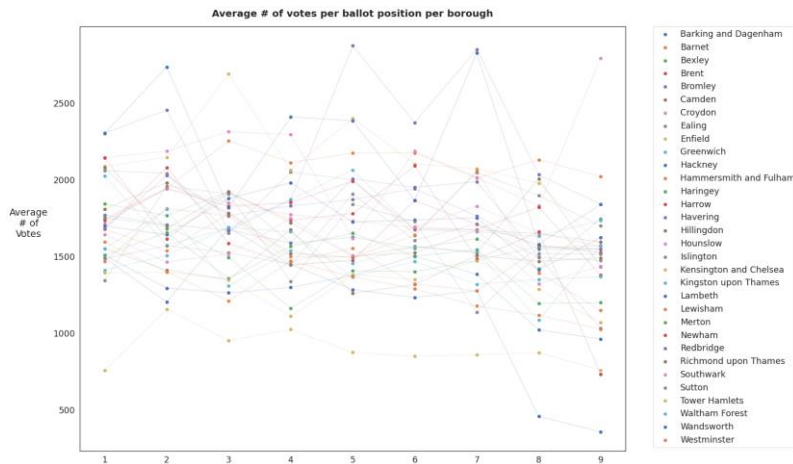
Biggest issue: Looking at overall ballot position instead of ballot position within party

5

Scatter plots with trend lines

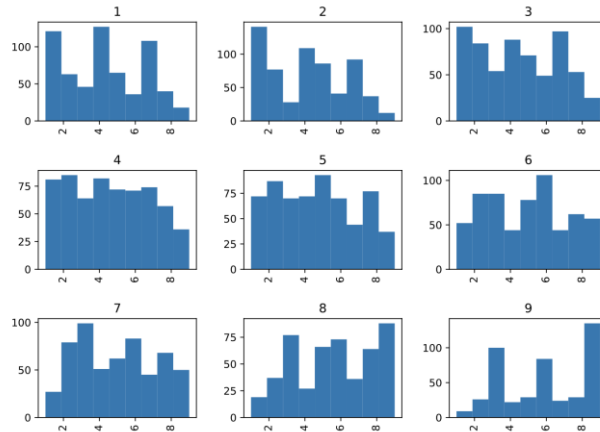


Connected scatter plot

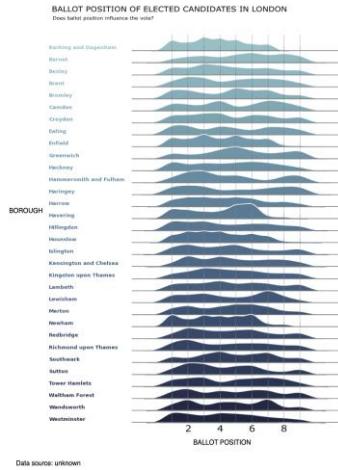


Histograms

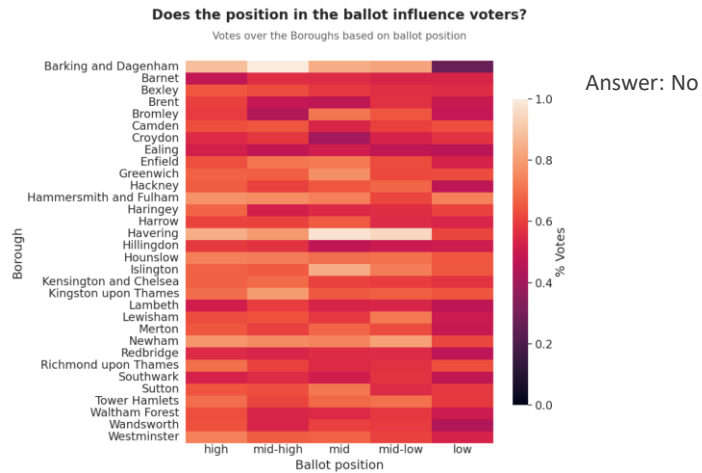
A histogram of the final rank for each possible ballot position



Small multiples



A heatmap

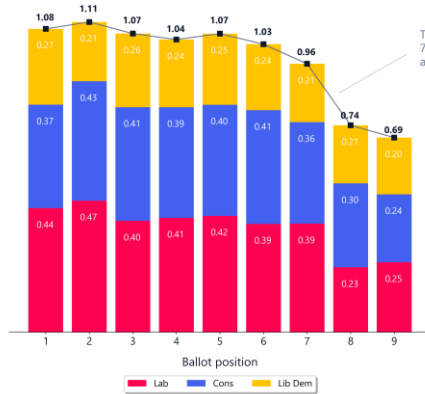


Bar charts

Votes per Ballot position

Number of votes (in millions) for different Ballot positions of 3 parties

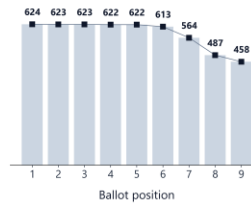
Ballot position: alphabetical position of candidates' surnames



There is a decreasing trend starting from the 7th ballot position due to the fact that there are fewer candidates for all three parties.

Candidates per Ballot position

Number of candidates for different Ballot positions of 3 parties

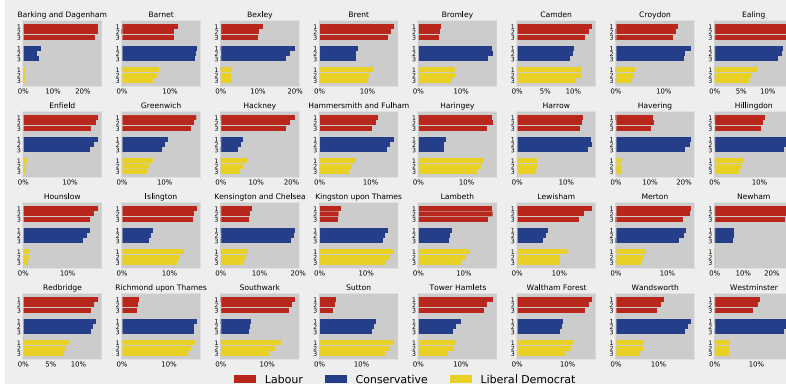


Data source: <https://data.london.gov.uk/dataset/borough-council-election-results-2010>

Bar charts per borough

Ballot position advantage in the 2010 London local elections

Percentage of all votes in borough depending on candidate ballot position within party
Data for less than three party candidates in ward (4% of the cases) was omitted



Data source: <https://data.london.gov.uk/dataset/borough-council-election-results-2010>