

Project: Improving the city of Montevideo
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DATA

Sources

Raw data

The following publicly available information has been used to acquire the poll results of the 2019 elections

For poll results:

https://eleccionesnacionales.corteelectoral.gub.uy/json/Exportaciones/Inf_D_Lema.xlsx

https://eleccionesnacionales.corteelectoral.gub.uy/json/Exportaciones/Inf_D_TotalAlLema.xlsx

<https://registronacional.com/uruguay/elecciones/series-electorales-de-municipios-en-uruguay.htm>

<https://registronacional.com/uruguay/elecciones/circuitos-electorales-en-montevideo.htm>

For venue information

Foursquare API: <https://api.foursquare.com/v2/venues>

Data Preparation

The above needed to be formatted (for example series and municipalities are just text within a web page) and then merged with the result of the polls in order to be able to import it into a data frame.

The data source that will be the basis for the analysis has been uploaded here:

https://github.com/DSS-TAJorge/Coursera_Capstone/blob/master/VotosMontevideo.xlsx

This screenshot shows the compile poll file

```
dfs.head()
```

	Circuito	SERIE	Municipio	Habilitados	No_Obs	Obs	Emitidos	EnBlanco	Anulados	PorSi	FA	PN	PC	PI	AP	PT	PE	PG	PV	PD	CA	Desde	Hasta	Local	Direccion	Notas
0	1	AAA	B	389	302	8	310	4	3	4	117	87	38	5	2	0	5	4	2	0	31	1	6091.0	Centro SUB OFICIALES NAVALES	WASHINGTON 267 esq. PÉREZ CASTELLANO	NaN
1	2	AAA	B	389	344	4	348	7	8	3	129	81	23	6	4	0	6	2	2	0	73	6092	7223.0	Centro SUB OFICIALES NAVALES	WASHINGTON 267 esq. PÉREZ CASTELLANO	NaN
2	3	AAA	B	389	333	2	335	8	10	1	124	67	35	5	4	1	3	2	5	0	68	7224	8035.0	Centro SUB OFICIALES NAVALES	WASHINGTON 267 esq. PÉREZ CASTELLANO	NaN
3	4	AAA	B	389	317	2	319	4	10	2	133	62	20	5	3	0	3	6	1	0	68	8036	9788.0	MINISTERIO de GANADERÍA AGRICULTURA Y PESCA	CERRITO 318 esq. COLÓN	NaN
4	5	AAA	B	389	338	2	340	1	5	3	164	78	26	4	5	0	2	1	5	1	43	9789	10402.0	MINISTERIO de GANADERÍA AGRICULTURA Y PESCA	CERRITO 318 esq. COLÓN	NaN

Data Dictionary for the poll file (VotosMontevideo.xls)

https://github.com/DSS-TAJorge/Coursera_Capstone/blob/master/DataDictionary.xlsx

Feature	Meaning	Type	Additional comments
Circuito	Poll Station Id	Integer	
SERIE	Document prefix	String	This ia the poll station location for the voters
Municipio	Municipality values A, B, C, D, E, X, F, G or Z	Categorical	X using instead of 'CH' to keep one letter only, Z=special circuit, ignore
Habilitados	Number of voters assigned to the circuit	Integer	
No_Obs	Number of normal votes	Integer	
Obs	Observed votes	Integer	These are votes belonging to other circuits and are not counted until later
Emitidos	Total votes issued	Integer	
EnBlanco	Blank vote	Integer	Vote for no party - issued only because voting is mandatory
Anulados	Null vote	Integer	Incorrect vote that can't be counted
PorSi	Referendum vote	Integer	Vote for Yes - change the Consitution Security Chapter
FA	Votes for party Frente Amplio	Integer	
PN	Votes for party Partido Nacional	Integer	
PC	Votes for party Partido Colorado	Integer	
PI	Votes for party Partido Independiente	Integer	
AP	Votes for party Alianza Popular	Integer	
PT	Votes for party Partido de los Trabajadores	Integer	
PE	Votes for party Partido Ecologista	Integer	
PG	Votes for party Partido de la Gente	Integer	
PV	Votes for party Partido Verde Animalista	Integer	
PD	Votes for party Partido Digital	Integer	
CA	Votes for party Cabildo Abierto	Integer	
Desde	From document number	Integer	These front to numbers, along with the series, determine the poll station
Hasta	To Document number	Integer	These front to numbers, along with the series, determine the poll station
Local	Location of the poll station	String	
Direccion	Address of the poll station	String	
Notas	Comments	String	

The categories and map from Foursquare will be these:

id	name	pluralName	shortName
4d4b7104d754a06370d81259	Arts & Entertainment	Arts & Entertainment	Arts & Entertainment
4d4b7105d754a06372d81259	College & University	Colleges & Universities	College & Education
4d4b7105d754a06373d81259	Event	Events	Event
4d4b7105d754a06374d81259	Food	Food	Food
4d4b7105d754a06376d81259	Nightlife Spot	Nightlife Spots	Nightlife
4d4b7105d754a06377d81259	Outdoors & Recreation	Outdoors & Recreation	Outdoors & Recreation
4d4b7105d754a06375d81259	Professional & Other Places	Professional & Other Places	Professional
4e67e38e036454776db1fb3a	Residence	Residences	Residence
4d4b7105d754a06378d81259	Shop & Service	Shops & Services	Shops
4d4b7105d754a06379d81259	Travel & Transport	Travel & Transport	Travel

