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## 4.8 Assignment 1

4.8 Assignment: Data Visualization

Using the below data we shall create some charts to look at historical trends in US Election votes:

Year	Democr	Republica	Democrat	Republican	Democrat	Republican
	at Votes	n Votes	Electoral	Electoral	Candidate	Candidate
	(1,000s)	(1,000s)	Votes	Votes		
194	27,313	22,348	449	82	F.D.Roosevel	Willkie
0					t	
194	25,613	22,018	432	99	F.D.Roosevel	Dewey
4					t	
194	24,106	21,969	303	189	Truman	Dewey
8						
195	27,315	33,779	89	442	Stevenson	Eisenhower
2						
195	26,023	35,590	73	457	Stevenson	Eisenhower
6						
196	34,227	34,108	303	219	Kennedy	Nixon
0						
196	42,825	27,147	486	52	Johnson	Goldwater
4						
196	30,989	31,710	191	301	Humphrey	Nixon
8						
197	28,902	46,740	17	520	McGovern	Nixon
2						
197	40,826	39,148	297	240	Carter	Ford
6						
198	35,481	43,643	49	489	Carter	Reagan
0						
198	37,450	54,167	13	525	Mondale	Reagan
4						

198	41,717	48,643	111	426	Dukakis	Bush
8						
199	44,858	38,799	370	168	Clinton	Bush
2						
199	47,402	39,198	379	159	Clinton	Dole
6						
200	50,996	50,465	266	271	Gore	Bush
0						
200	58,895	61,837	251	286	Kerry	Bush
4						
200	69,298	59,598	365	173	Obama	McCain
8						
201	65,444	60,588	332	206	Obama	Romney
2						

- Go to <a href="https://www.google.com/sheets/about/">https://www.google.com/sheets/about/</a>
- Click on "Sheets" and then the "Blank" icon under "Start a new spreadsheet" it is a big white square with a green plus.
- This will open a new spreadsheet in the browser.
- Copy and Paste the "USA Elections" dataset into the spreadsheet.
- This should have 6 columns headed Year, Candidate, Party, Number(1,000),
   Percent, Electoral Votes.

## The aim of this exercise is to compare the proportion of votes gained by Democratic versus Republican Presidential candidates from 1940-2014.

## Firstly, make a time-series line chart.

- Highlight cells A1-C20
- Click "Insert -> Chart" from the drop-down menu. This will open the "Chart Editor" tool.
- Click "Insert"

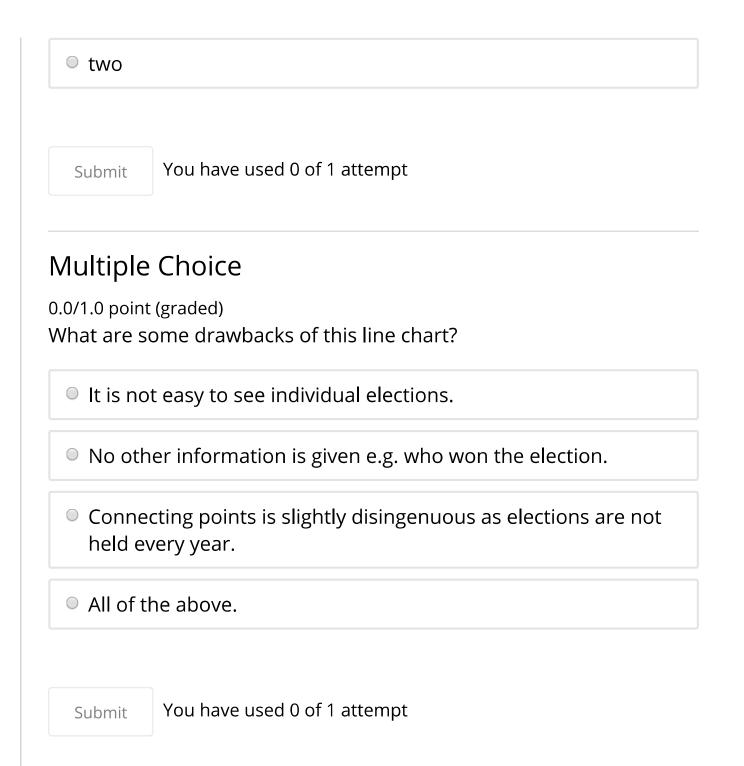
This should give you a line chart with two lines.

## It still needs some adjustments though:

- Change the title by double clicking on it to read: "Total Popular Vote (in 1000s)"
- Change the intervals between years on the x-axis by double clicking the existing numbers and changing the "Min" and "Max" values to '1940' and '2020'

This chart can be further modified by clicking the dropdown arrow in the top right of the chart canvas and clicking "Advanced Edit". In particular the "Customization" tab gives many options for adding points, changing colors and line thickness, modifying gridlines and so on.

After completing the exercise above, answer the questions that follow.
Multiple Choice  0.0/1.0 point (graded)  The popular vote overall is
o increasing
<ul><li>decreasing</li></ul>
• the same over time
Submit You have used 0 of 1 attempt
Multiple Choice  0.0/1.0 point (graded)  Republicans have had the largest vote share times since 1988
o zero
one one



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