Data Transformation and Cleaning Steps

1. Import Libraries and Load Data:

* `pandas`, `seaborn`, and `matplotlib.pyplot` libraries are imported.
* Data is loaded

1. Remove Rows with NaN/Null Votes:

* Rows where the `VOTES` column has missing values (`NaN`) are dropped using `dropna()` to ensure only valid data points are used for analysis.

1. Transform Candidate Names:

* The `CANDIDATE\_NAME` column is created by removing the leading numeric index from the `CANDIDATE` column using a lambda function and `split()` method.

1. Calculate Candidate Name Length:

* The `NAME\_LENGTH` column is derived from the length of each candidate's name in the `CANDIDATE\_NAME` column.

1. Plotting the Scatter Plot:

* Use `sns.scatterplot()` to create the scatter plot.
* Set `x='NAME\_LENGTH'` and `y='VOTES'` to represent candidate name length and votes, respectively.
* Use `hue='YEAR'` to differentiate data points by election year.
* Adjust plot aesthetics, including title, axis labels, and legend placement.

Script Link:

<https://drive.google.com/file/d/1-oitKBhJbDuHCBtz93TZiO9xicPbsjfi/view?usp=sharing>