



**Not endorsed by the President*

Economic Performance Under US Presidents

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What a Coincidence



Dem vs. GOP Economies: What Trends Keep a Party in Power?



**AI Generated*

Datasets

Economic Data: Quarterly economy stats from 1956-Q1 to 2024-Q4

- Numerical columns are C.C. Growth rates to adjust for inflation
- n/a values are linearly interpolated
- Aggregated

Election Data: Q4 economic data for election years + approval and voter turnout

- Used for predicting if party wins election

1. Quarterly, no N/A, C.C. growth of prices*



2. Not CSV

Add to DF

4. Yearly or N/A values

3. Not growth (ex: CPI)

Interpolate

If needed

Calculate Growth

If needed

Use Converter

Types:

- Growth Formula
- Linear
- Mean

Result: Quarterly Economy DF

| | Year | Quarter | GDP_Growth | Recession | Unemployment_Rate | Inflation_Rate | Gas_Prices | SP500_Return_Rate | Consumer_Confidence |
|---|------|---------|------------|-----------|-------------------|----------------|------------|-------------------|---------------------|
| 0 | 1956 | 1 | -0.38880 | True | 4.0 | 0.24882 | 0.00000 | 9.830277 | 98.95 |
| 1 | 1956 | 2 | 0.82318 | False | 4.2 | 1.04647 | 0.88496 | 2.479559 | 98.20 |
| 2 | 1956 | 3 | -0.08974 | True | 4.1 | 2.01668 | 3.03711 | -4.279415 | 99.90 |
| 3 | 1956 | 4 | 1.63251 | False | 4.1 | 2.58161 | -0.85837 | -0.793072 | 100.20 |
| 4 | 1957 | 1 | 0.63823 | False | 3.9 | 3.41276 | 2.13228 | 0.130657 | 96.55 |

| | Federal_Funds_Rate | Debt_Percent_Change | Egg_Price | President | President_Party | House_Majority | Senate_Majority | unified |
|---|--------------------|---------------------|-----------|------------|-----------------|----------------|-----------------|---------|
| 0 | 2.48 | -0.148249 | -0.138338 | Eisenhower | Republican | Democrats | Democrats | False |
| 1 | 2.69 | -0.148249 | -0.138338 | Eisenhower | Republican | Democrats | Democrats | False |
| 2 | 2.81 | -0.148249 | -0.138338 | Eisenhower | Republican | Democrats | Democrats | False |
| 3 | 2.93 | -0.148249 | -0.138338 | Eisenhower | Republican | Democrats | Democrats | False |
| 4 | 2.93 | -0.204442 | -1.219858 | Eisenhower | Republican | Democrats | Democrats | False |

Result: Q4 Election Year Economy DF

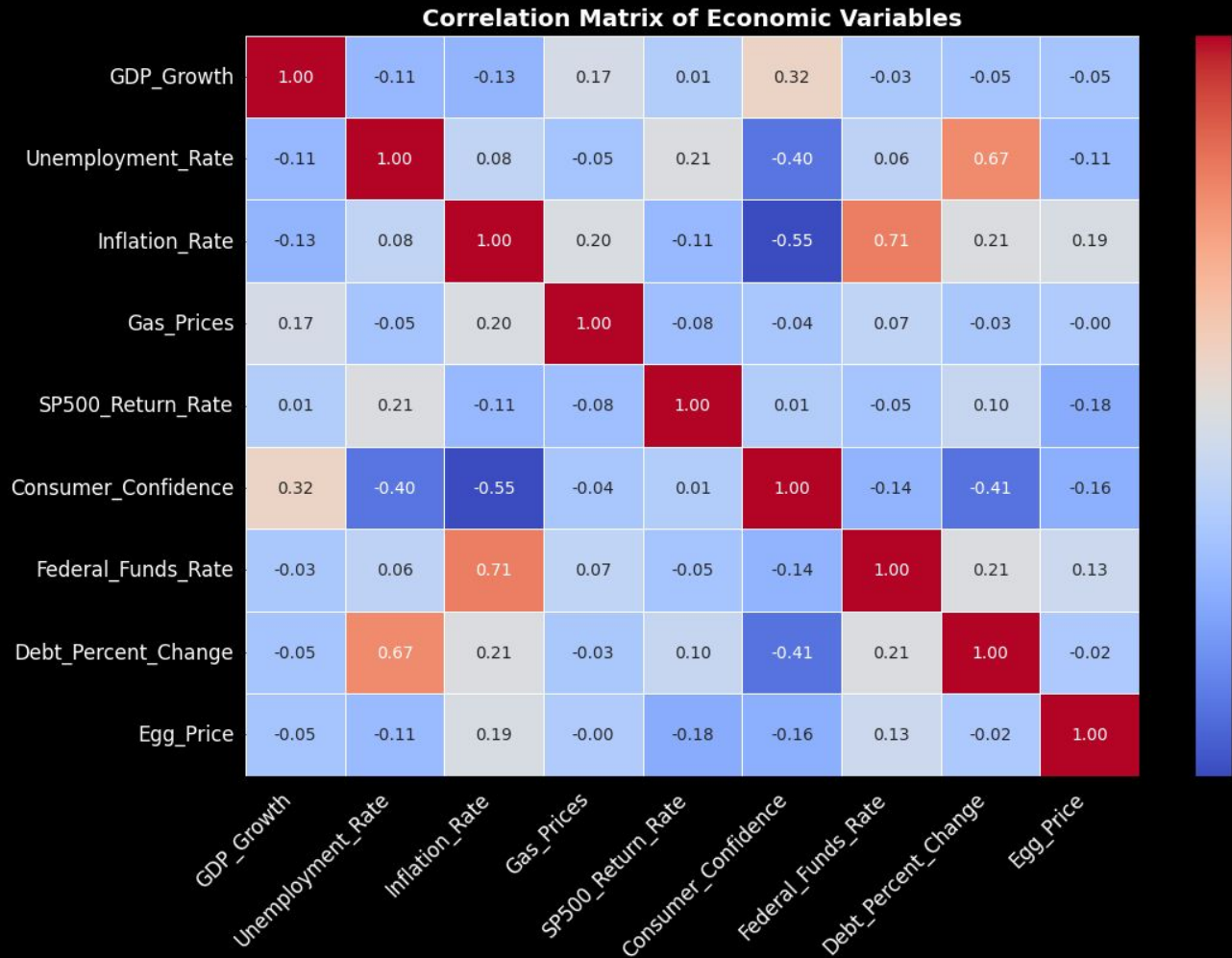
Only Q4 election years in this DF

| | Year | Quarter | GDP_Growth | Recession | Unemployment_Rate | Inflation_Rate | Gas_Prices | SP500_Return_Rate | Consumer_Confidence |
|---|------|---------|------------|-----------|-------------------|----------------|------------|-------------------|---------------------|
| 0 | 1956 | 4 | 1.63251 | False | 4.1 | 2.58161 | -0.85837 | -0.793072 | 100.2 |
| 1 | 1960 | 4 | -1.29143 | True | 6.3 | 1.39598 | -0.26954 | 12.098686 | 90.1 |
| 2 | 1964 | 4 | 0.30871 | False | 5.0 | 1.26610 | -0.07285 | 2.240089 | 99.9 |
| 3 | 1968 | 4 | 0.39200 | False | 3.4 | 4.62598 | 0.12384 | -1.010722 | 91.7 |
| 4 | 1972 | 4 | 1.66057 | False | 5.4 | 3.33333 | 1.50032 | 8.747320 | 90.7 |

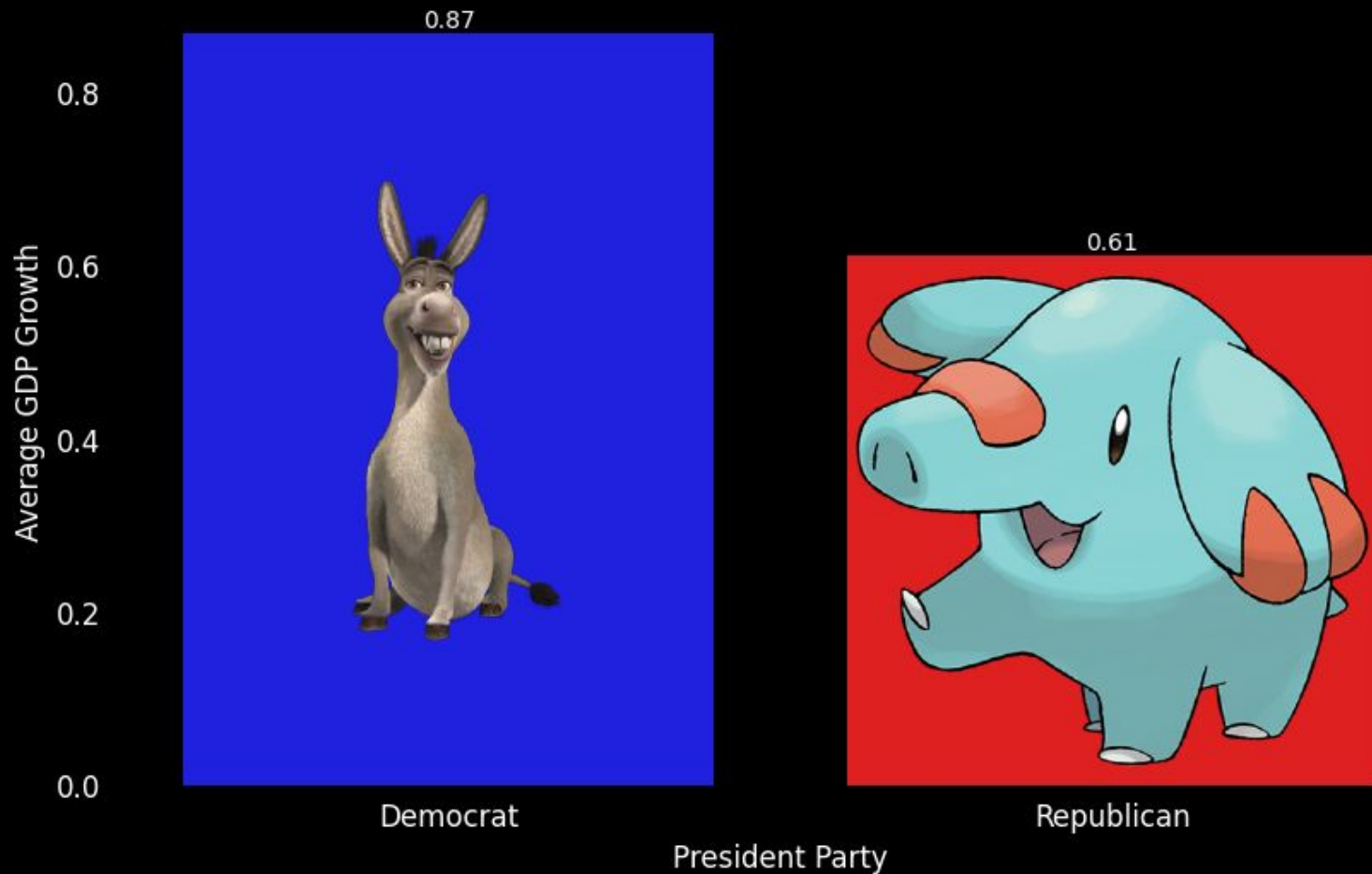
...

| | President_Party_Stayed | Turnout_as_%_VAP | Approval |
|---|------------------------|------------------|----------|
| 0 | True | 60.4 | 75 |
| 1 | False | 63.5 | 59 |
| 2 | True | 63.4 | 70 |
| 3 | False | 62.8 | 43 |
| 4 | True | 57.0 | 62 |

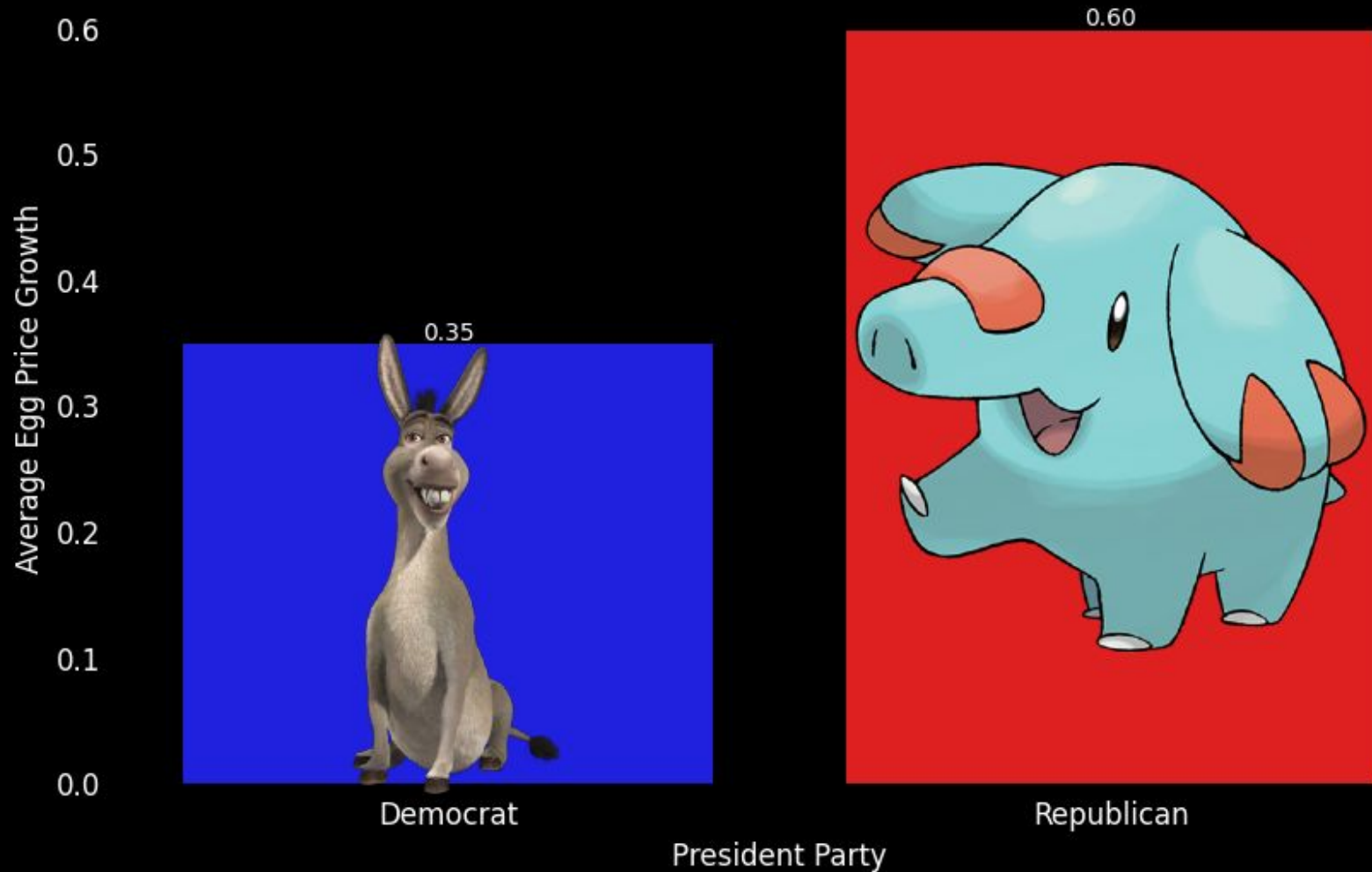
Not included in economy DF



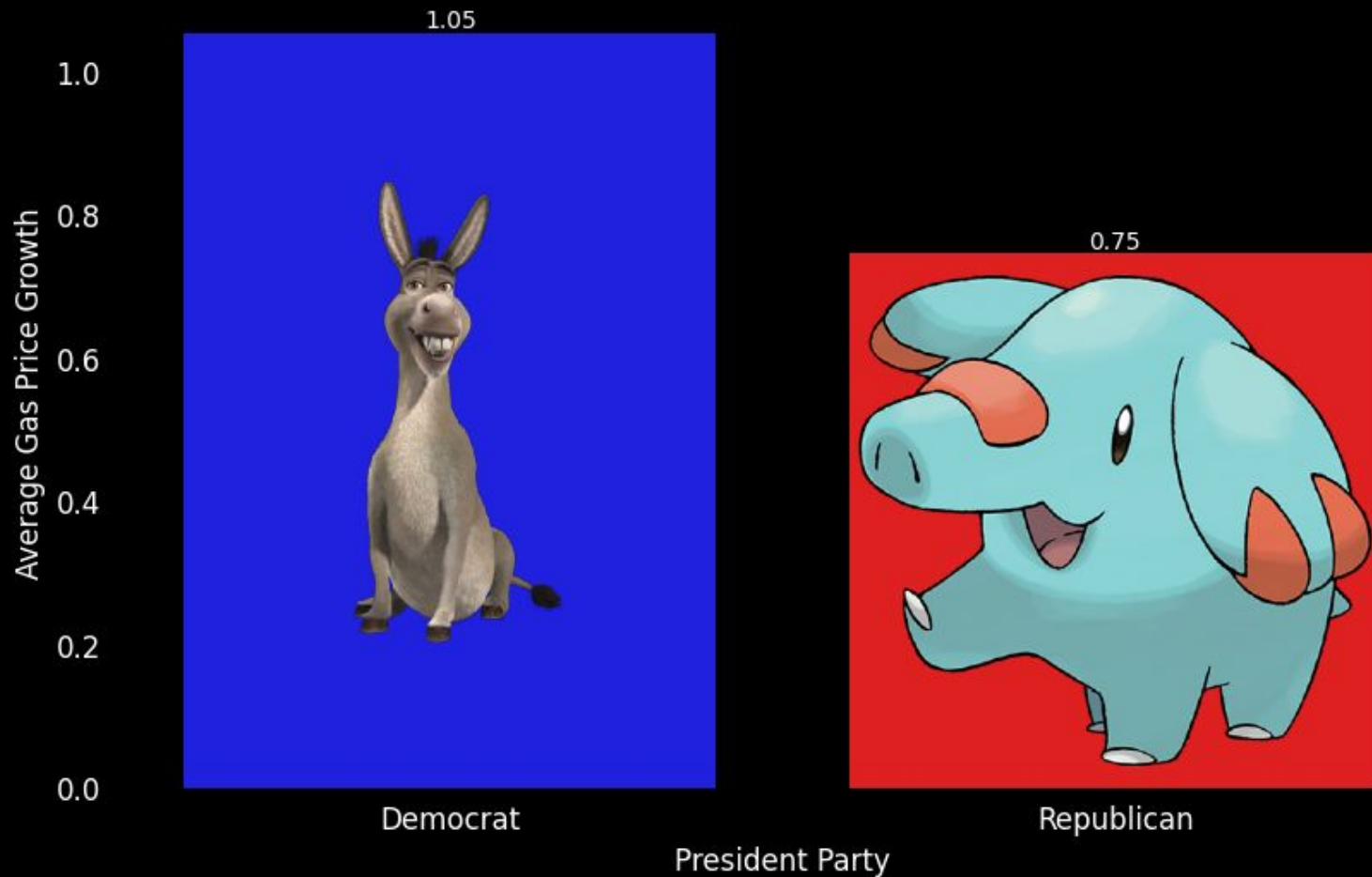
Average GDP Growth under Democratic vs Republican Presidents



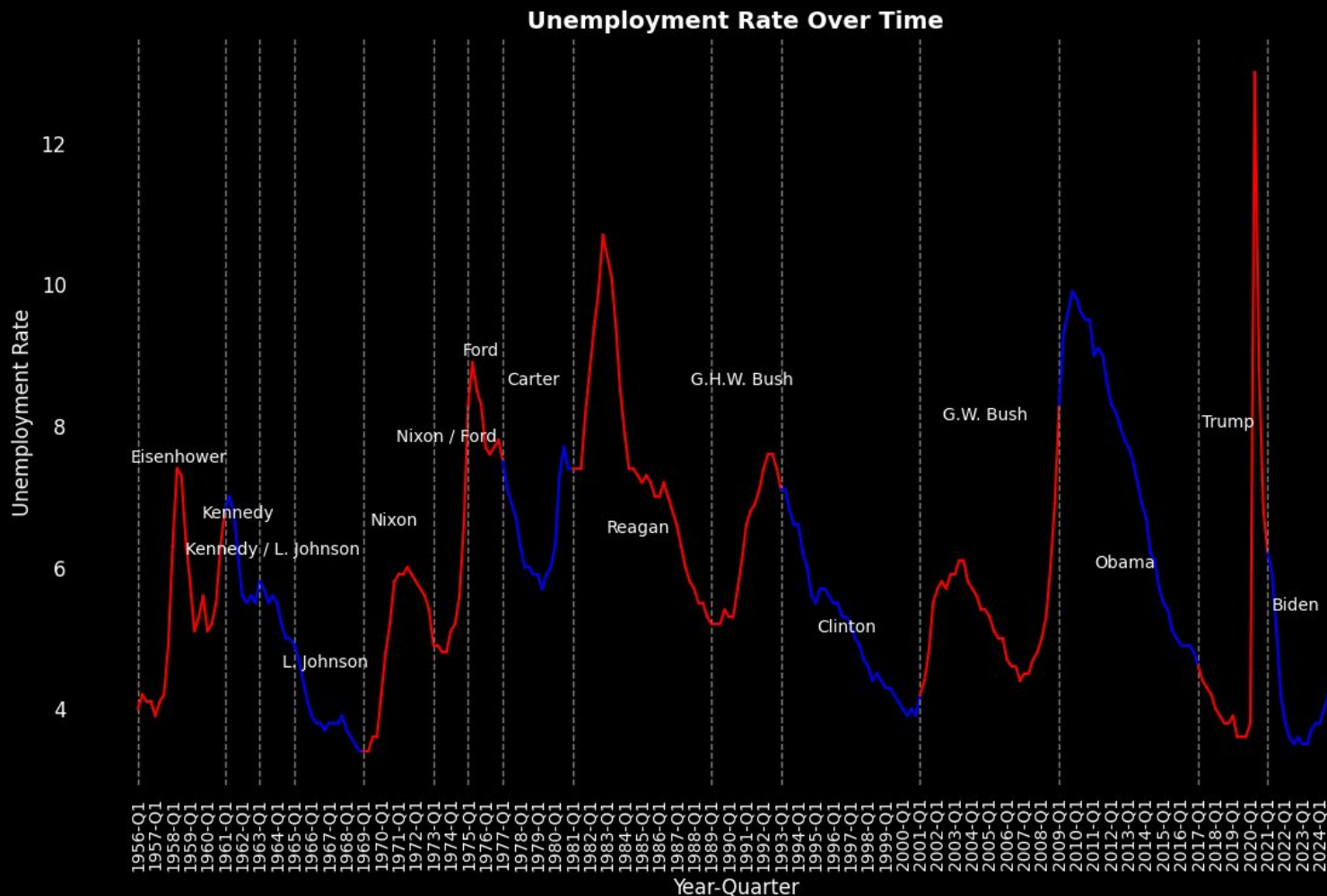
Average Egg Price Growth under Democratic vs Republican Presidents



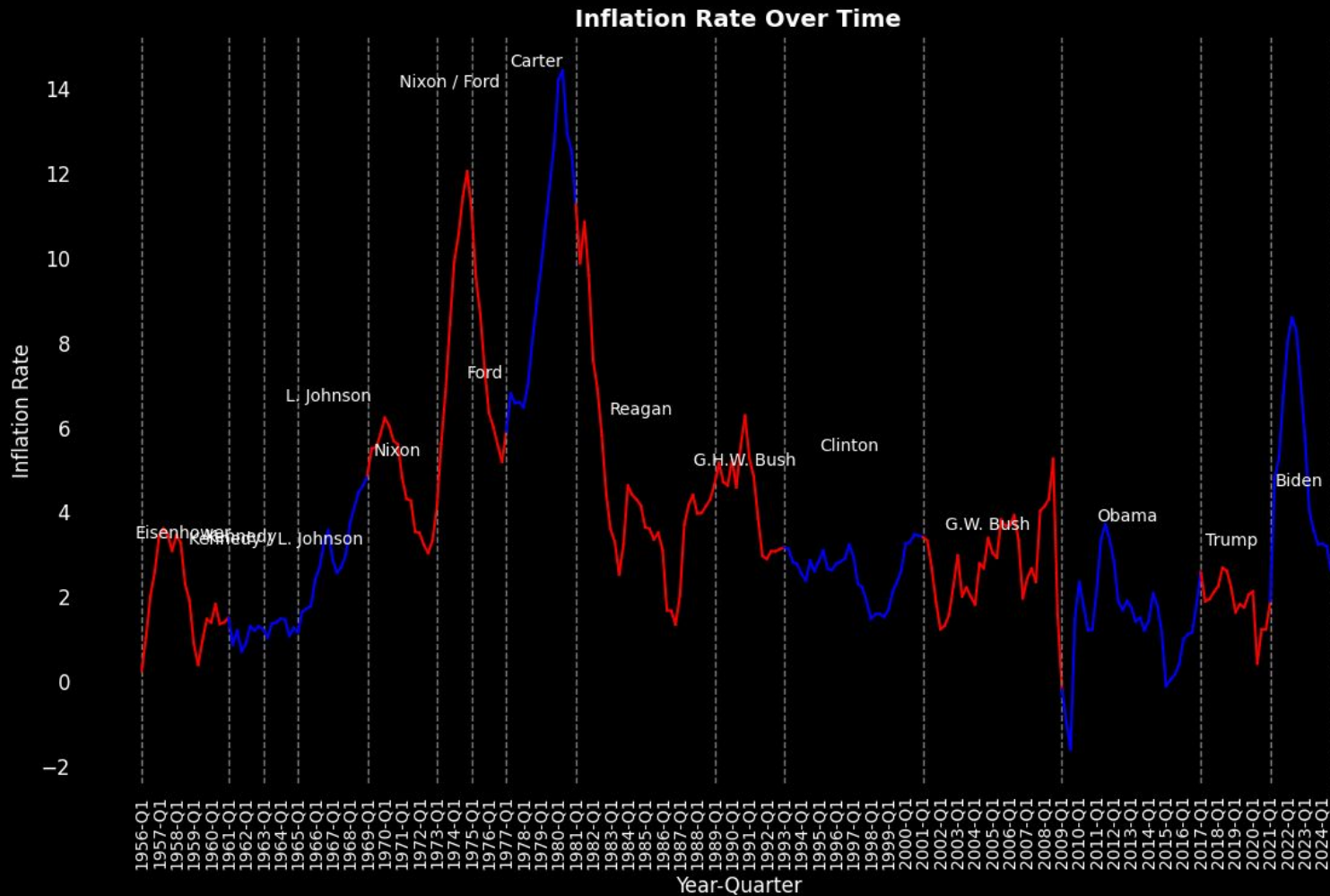
Average Gas Price Growth under Democratic vs Republican Presidents



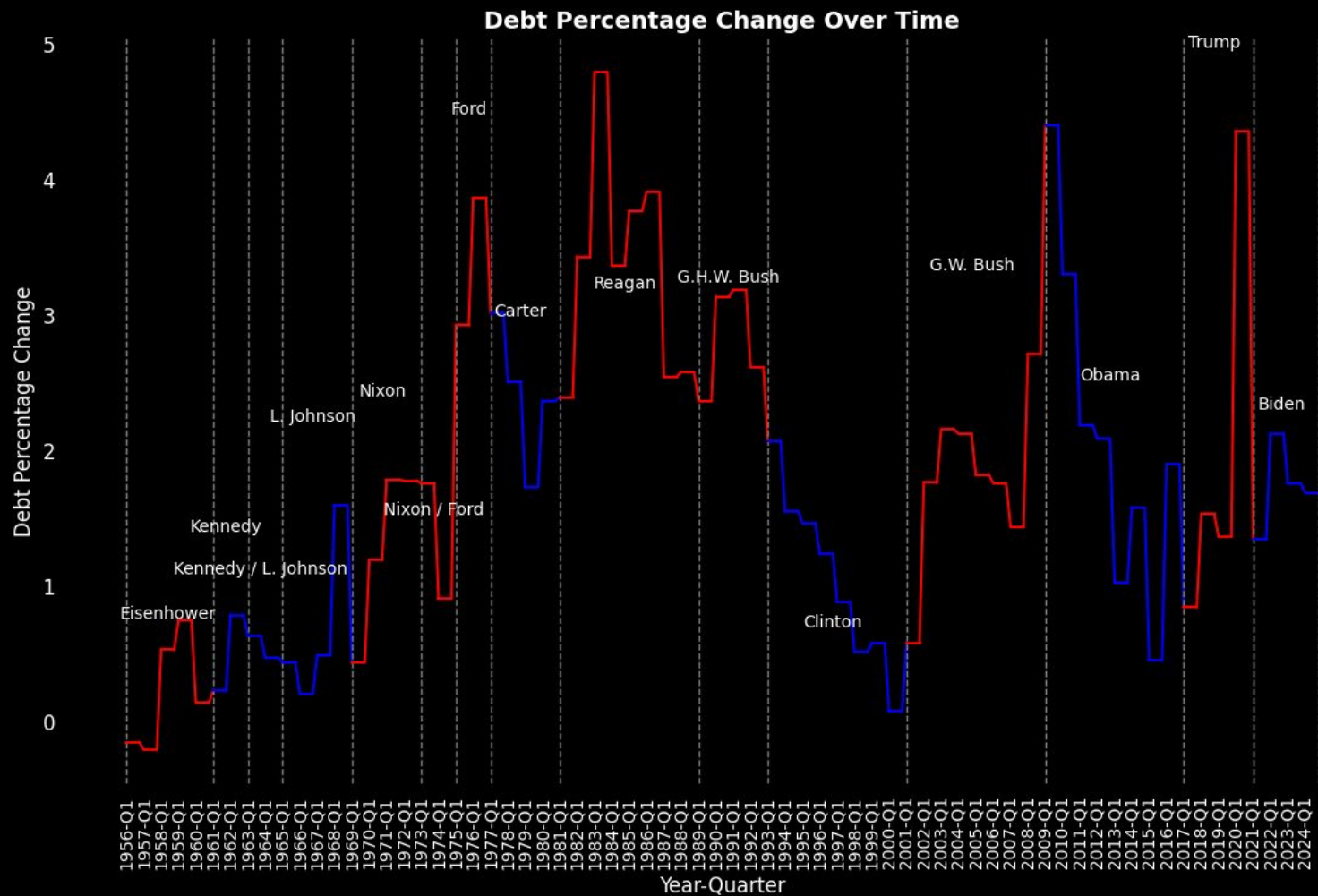
Typically
lower under
Dems.



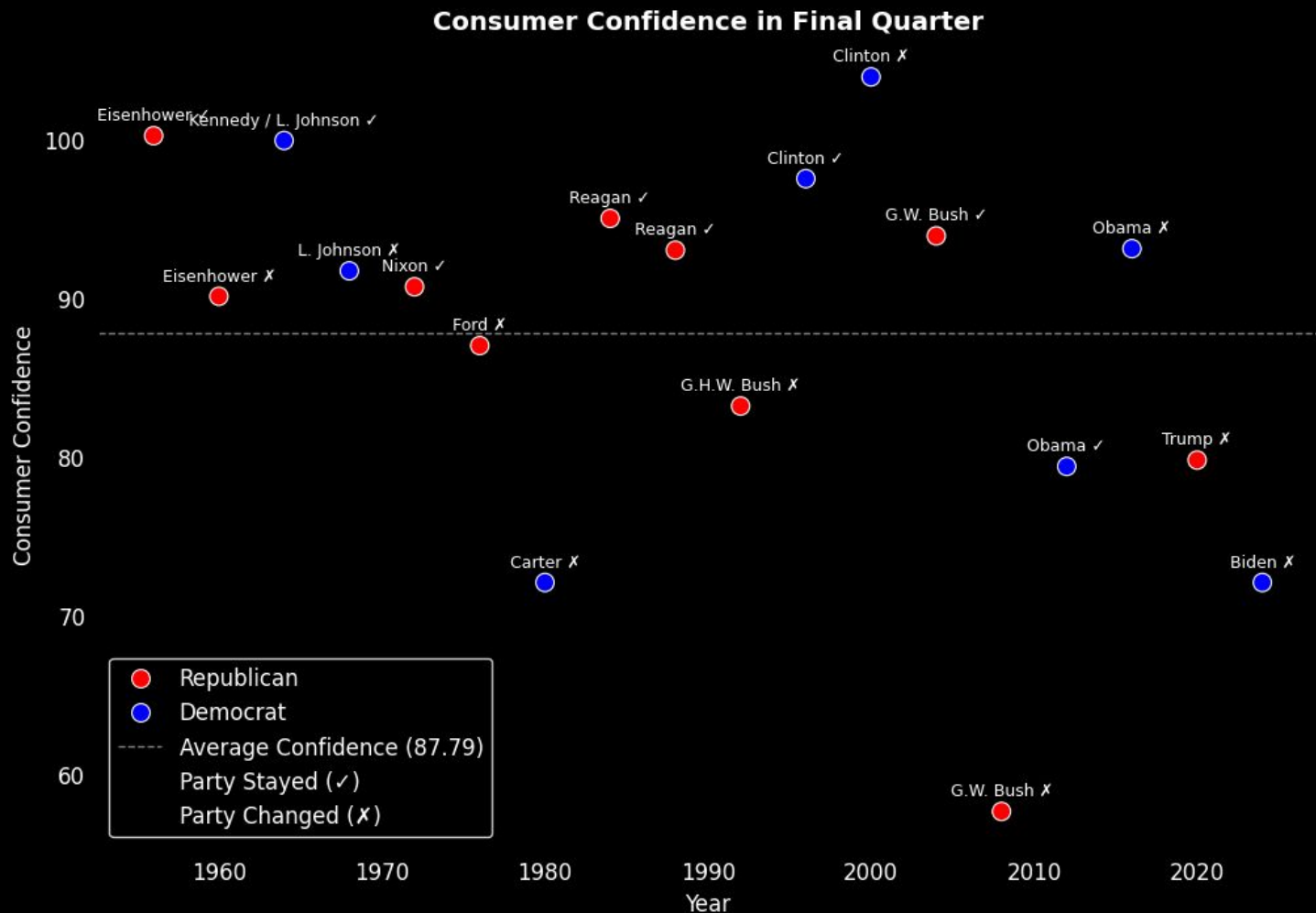
No visible
correlation



Typically
lower under
Dems.

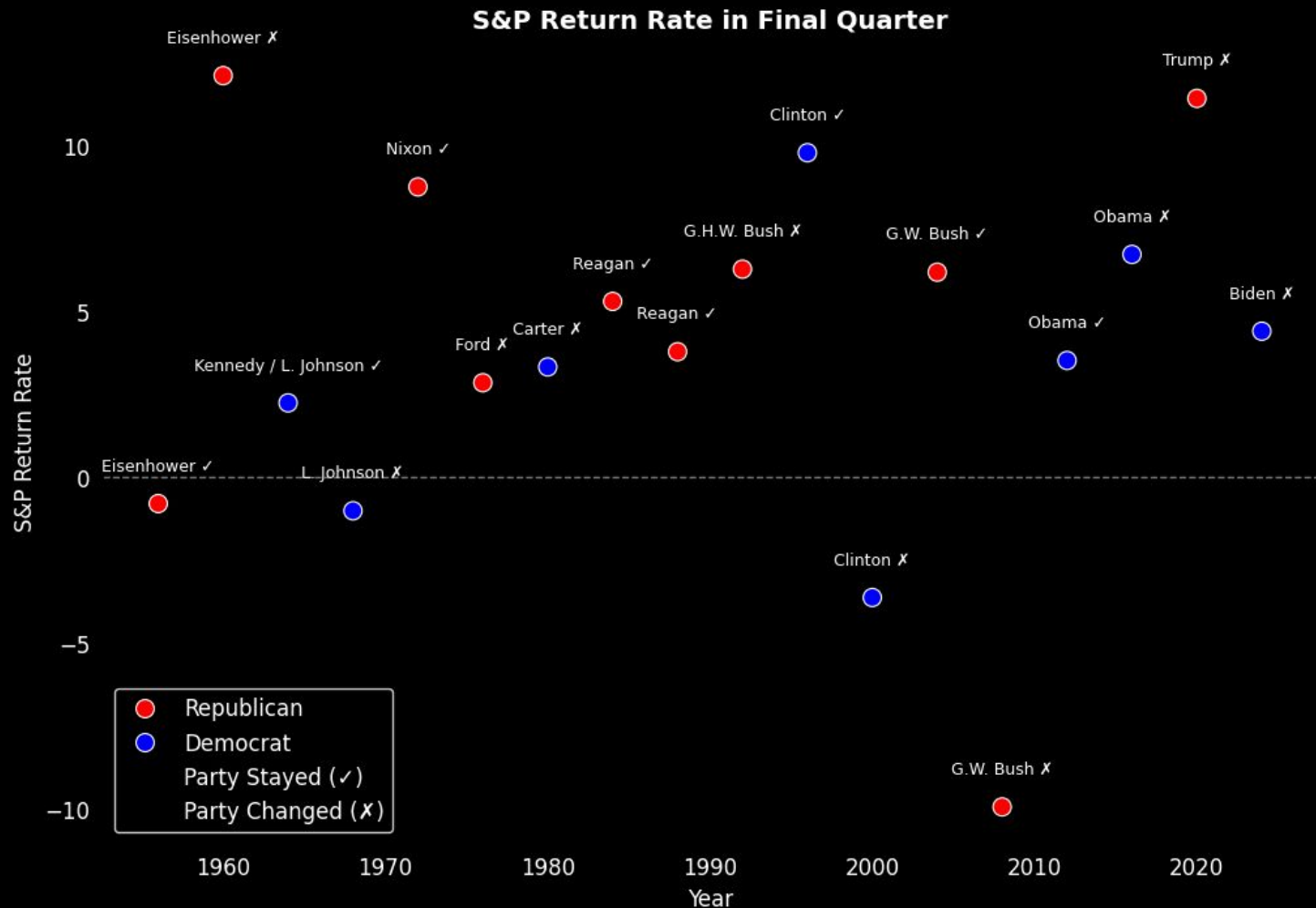


Low CC in final
quarter = likely
change parties



Positive slope over time

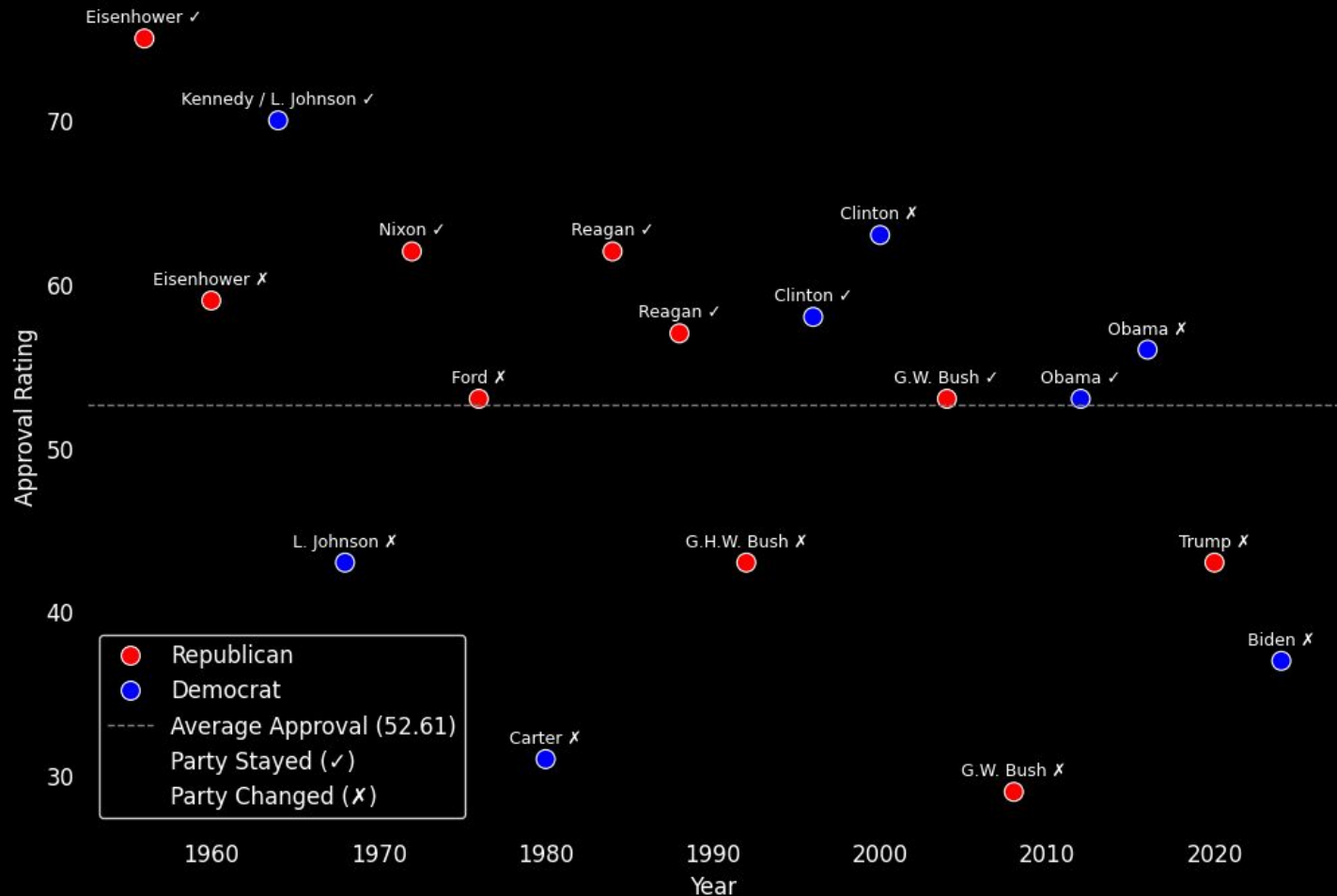
S&P usually positive in election quarter



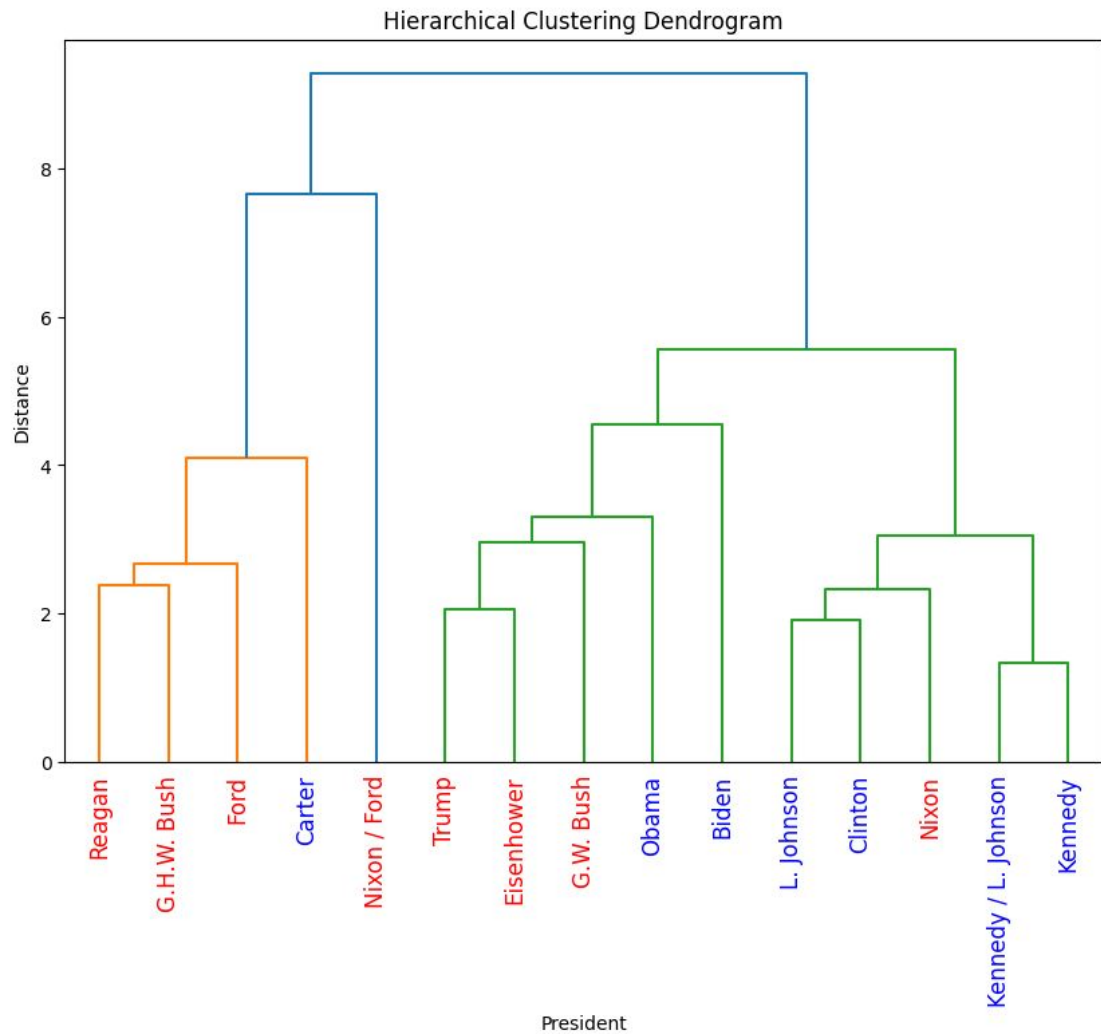
Approval Rating for Each President in Final Quarter

Low approval in
final quarter = likely
change parties

Downward slope



Result: Hierarchical Clustering



Implications for stakeholders

- Main: Voters & General Public
 - Help voters contextualize campaign promises.
- Policymakers & Political Strategists
 - Which factors historically influence voter decisions.
- Financial Analysts & Investors
 - Investment strategies tied to election cycles.

Ethical, legal, societal implications

- More Transparency For Election Season
 - Better informed first time voters
 - B.S. detection
- Political Polarization & Public Perception
 - Challenges misleading political narratives
- Government and People Disconnected
 - Regardless of party, presidential approval is on the decline