Economic Changes by President: 1965 to 2019

I was curious about whether there were any patterns in economic data over the last 54 years in the US: seasonally-adjusted unemployment rates (%), real wage growth (%), real GNP growth and national debt as a % of GDP. My sources for data was <u>alfred.stlouisfed.org</u>.

Unemployment: https://fred.stlouisfed.org/series/UNRATE

Real Wage Growth: https://fred.stlouisfed.org/series/LCEAMN01USM659S

GDP: https://fred.stlouisfed.org/series/GDPC1
National Debt: https://fred.stlouisfed.org/series/GFDEBTN

I correlated this data with presidential administrations and recessions and graphed it.

I'll present my results first and, if you're interested, you can check out my methods and spreadsheets at the end.

President	Began	Ended	Party
36. Lyndon B. Johnson	November 22, 1963	January 20, 1969	Democrat
37. Richard Nixon	January 20, 1969	August 9, 1974	Republican
38. Gerald Ford	August 9, 1974	January 20, 1977	Democrat
39. Jimmy Carter	January 20, 1977	January 20, 1981	Democrat
40. Ronald Reagan	January 20, 1981	January 20, 1989	Republican
41. George Bush	January 20, 1989	January 20, 1993	Republican
42. Bill Clinton	January 20, 1993	January 20, 2001	Democrat
43. George W. Bush	January 20, 2001	January 20, 2009	Republican
44. Barack Obama	January 20, 2009	January 20, 2017	Democrat
45. <u>Donald Trump</u>	January 20, 2017	In Office	Republican

Recession	President	Start	End	Months
1	Nixon	12/1969	11/1970	11
2	Ford	11/1973	3/1975	16
3	Carter	1/1980	7/1980	6
4	Reagan	7/1981	11/1982	16
5	Bush 1	7/1990	3/1991	8
6	Bush 2	3/2001	11/2001	8
7	Bush 2	11/2007	6/2009	18

Presidential Terms:

War	President	Start	End	Months
Vietnam	Eisenhauer	11/1955	4/1973	208
Persian Gulf	Bush 1	8/1990	2/1991	7
Afghanistan	Bush 2	10/2001	8/2019	213
Iraq	Bush 2	3/2003	12/2011	105
War on ISIL	Obama	6/2014	8/2019	61

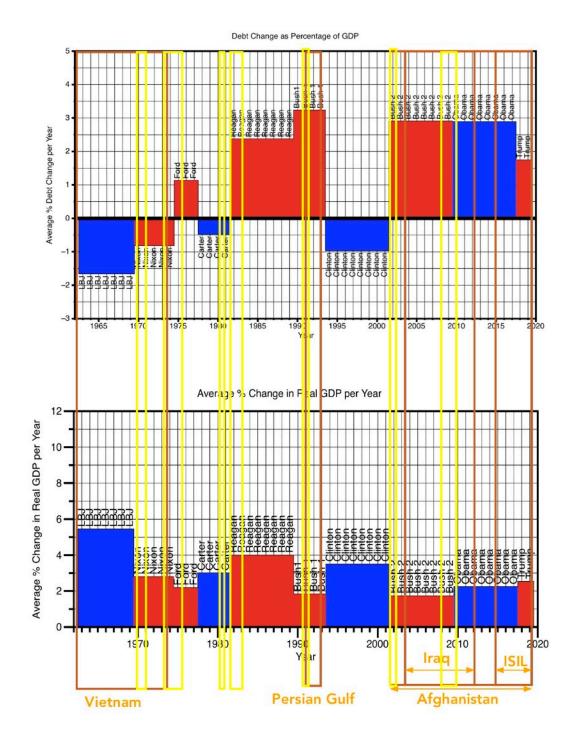
Real GDP and Debt as a % of Real GDP

- Real GDP measures the US economic output in a year, considering inflation.
- US Debt as a % of Real GDP measures how big the US debt accumulated in a year is, compared to the Real GDP.

Below, the top graph shows whether our <u>debt</u> increased or decreased, and the bottom graph shows whether <u>GDP</u> increased or decreased under each president. Red outlines show when wars occurred, yellow outlines show recessions.

Debt Patterns:

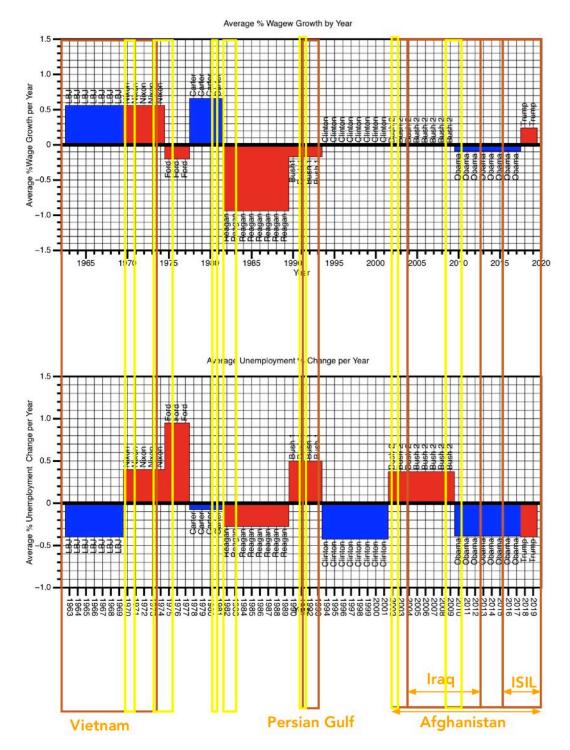
The debt graph shows that debt <u>decreased with every Democra</u>t except Obama, during the great recession. The <u>debt increased</u> with every <u>Republican</u> except Nixon



<u>GDP Patterns</u>: Every time a <u>Democratic</u> president came into office, the <u>GDP increased</u>

Every time a <u>Republican president</u> came into office, GDP went down, except <u>for Reagan, and slightly, Trump</u>.

Real Wage Growth and Unemployment rate Change



Real Wage Growth Patterns

How much has buying power has changed after inflation?

Until about 1980, Republicans and Democrats presided over wage growth.. The
Reagan era saw a huge decrease in buying power, and since then wages have been
flat, except for a slight rise with Trump.

Unemployment Rate Patterns

- All Democratic presidents oversaw a decrease in the unemployment rate
- Republican presidents, except for Reagan and Trump, oversaw increases in unemployment rate

Calculation Methods:

The tables I uses are listed at the beginning of this analysis, with their URLs, and they came from the St Louis Federal Reserve Bank. Some of these listed data every month and others every quarter.

<u>To calculate % GDP change for a given president</u>, I simply subtracted the GDP growth rate at the beginning of a president's term, from that at the end, then divided by the initial GDP growth rate:

(\$4920.605 - \$3747.278) billion • 100

<u>LBJ Example</u>: \$3747.278 billion = 31.31%

To find average % GDP Growth each year, I 31.31% c

divided the toral % growth by the years: 23 months = 5.45% /year

in office (sometimes a fraction)

a given president

<u>To Calculate % Change in Debt for a president</u>, I first found the change in Debt as a % of Real GDP. Again, I subtracted the % Debt change rate at the beginning of a president's term, from that at the end, then divided by the initial debt change rate:

<u>49.73% - 30.71%) · 100</u>

<u>Reagan Example</u>: 30.71% = 19.02%

Calculations for % change in Real Wage Growth and Unemployment rate were done as above.

Original charts of data are shown as links