

Visualizing Inflation



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Overview

- Methods and Data
- Visualizing government debt
- Visualizing post COVID inflation
- Summary

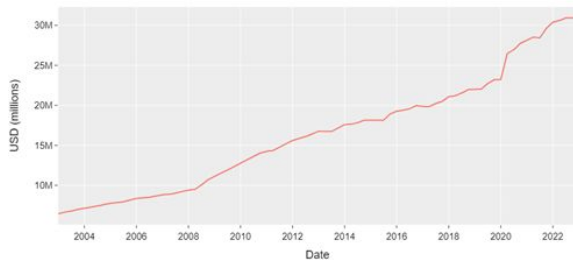
Methods and Data

- Python
- Jupyter Notebook
- Plotly graphing library
- Version control GitHub
 - github.com/wygantro/visualizing-inflation.git
- All data sets collected and sourced from FRED Economic Data
 - fred.stlouisfed.org

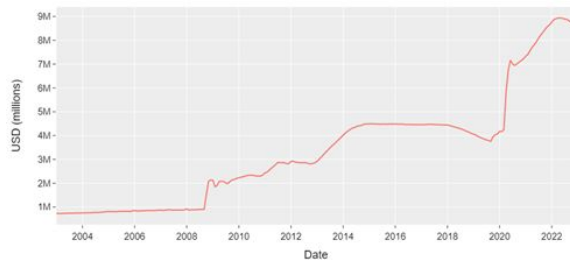
Government Debt



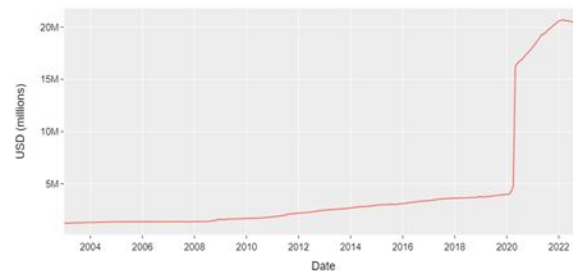
US government debt



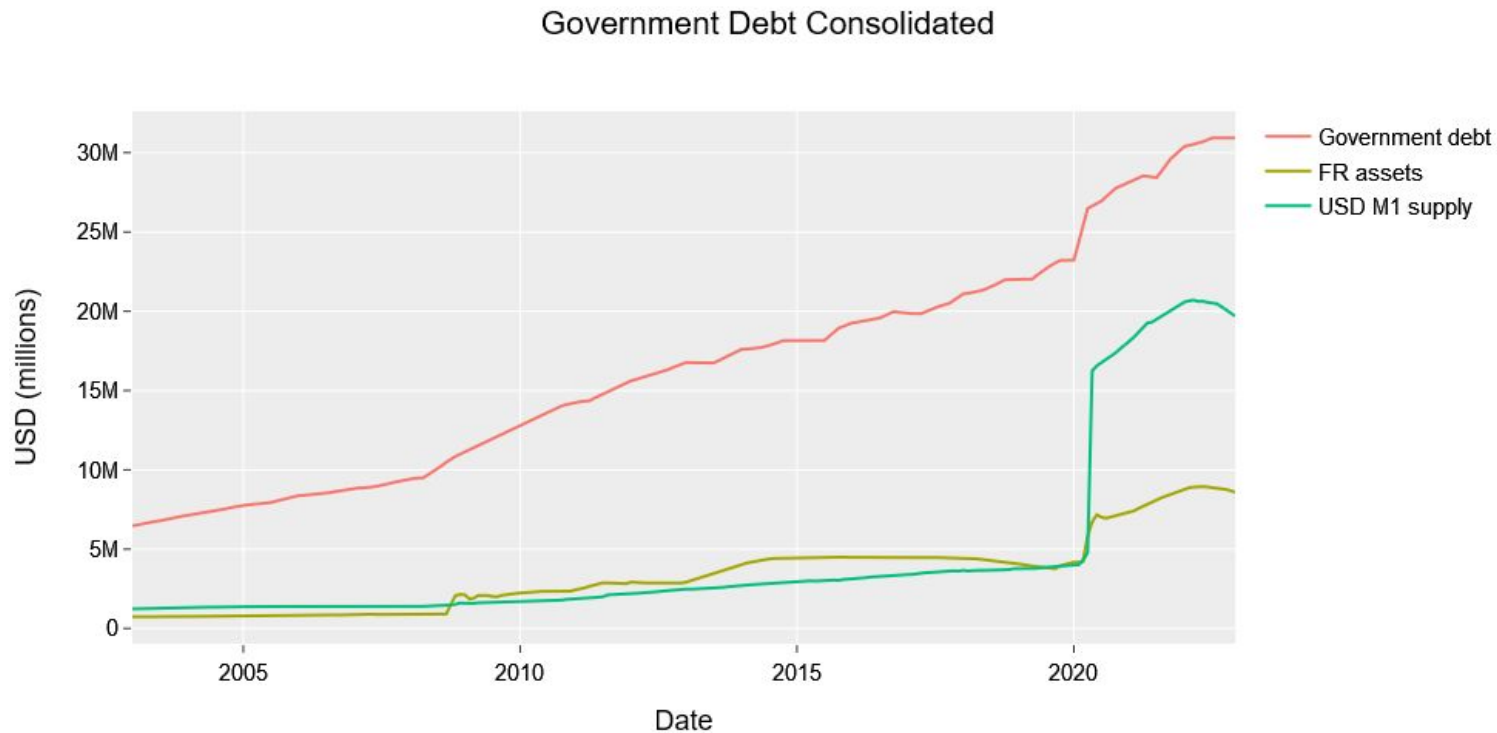
Federal reserve assets



USD M1 supply



Government Debt

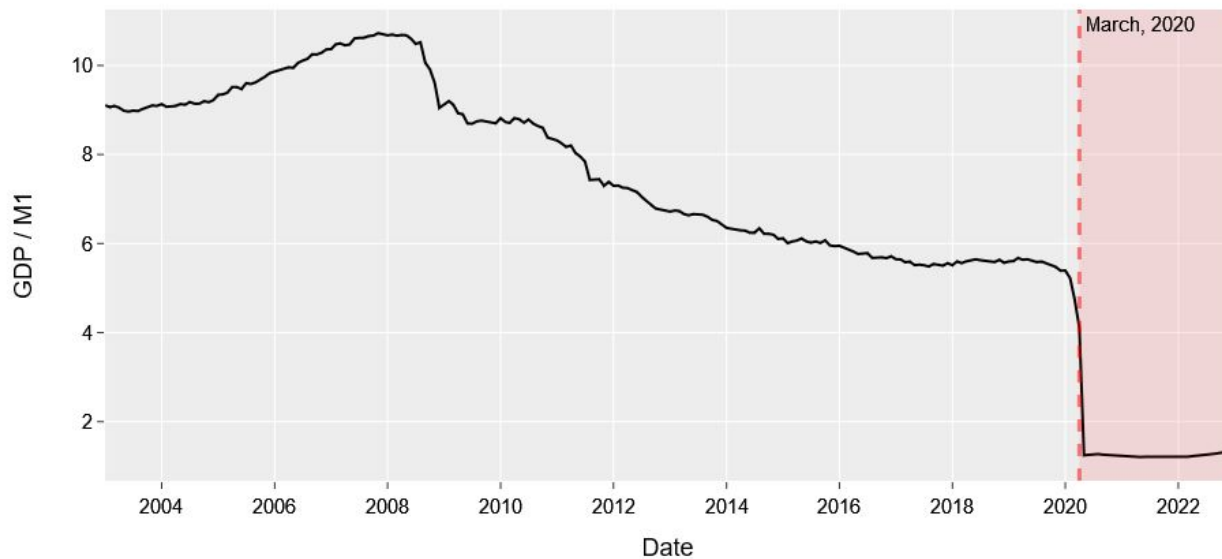


Post Pandemic Inflation

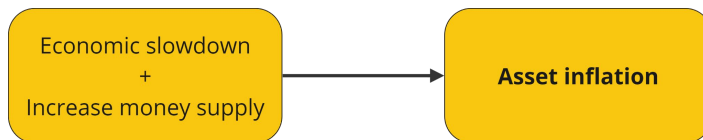
COVID shutdown
(March, 2020)

Decrease in GDP

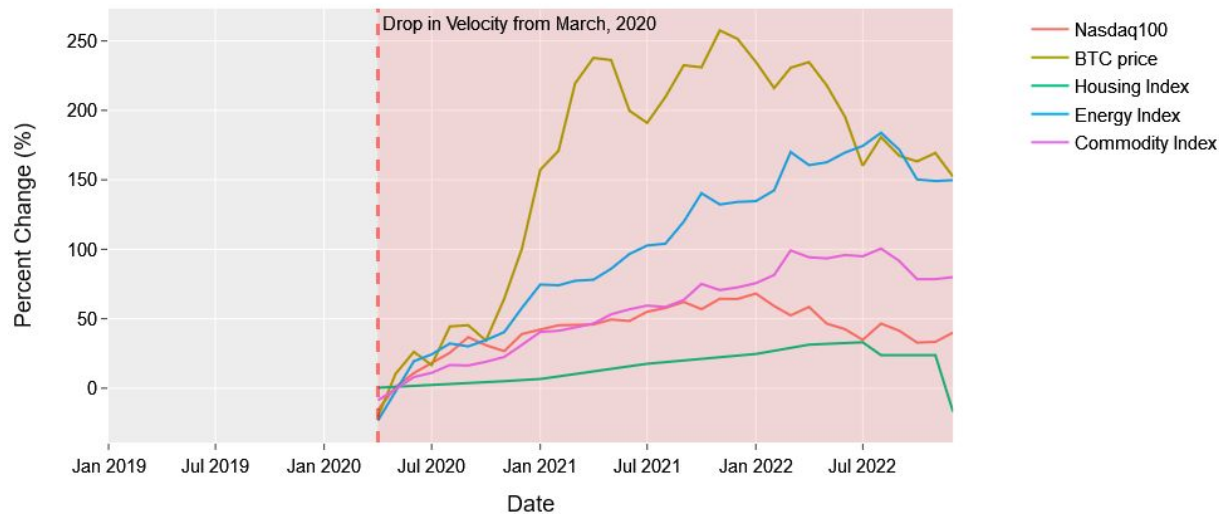
USD Velocity of Money



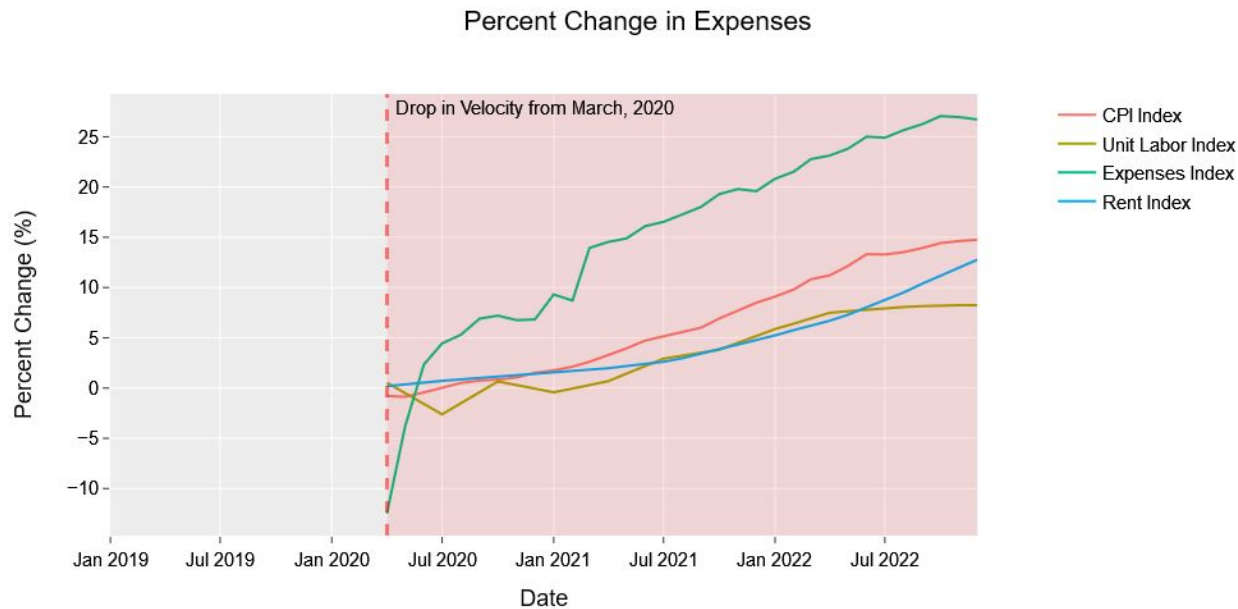
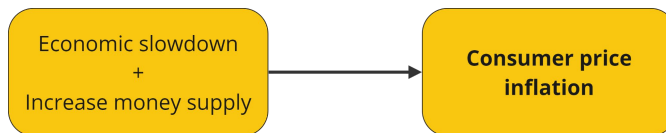
Post Pandemic Inflation



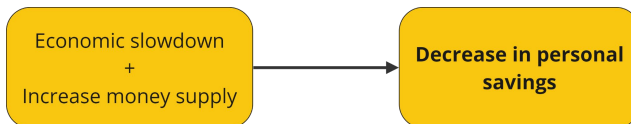
Percent Change in Asset Prices



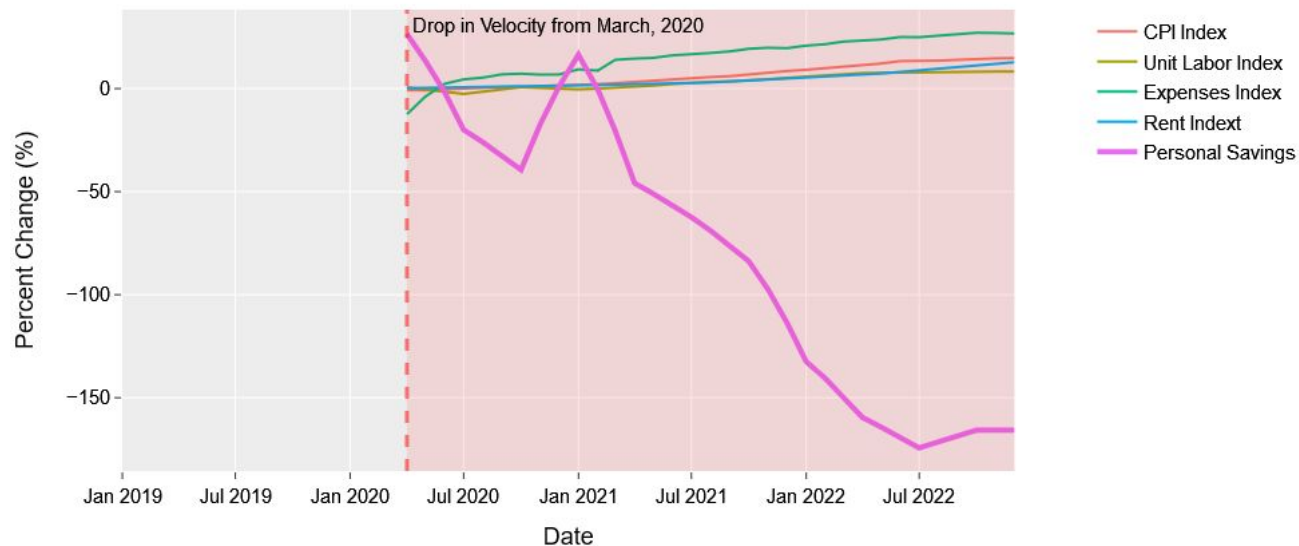
Post Pandemic Inflation



Post Pandemic Inflation

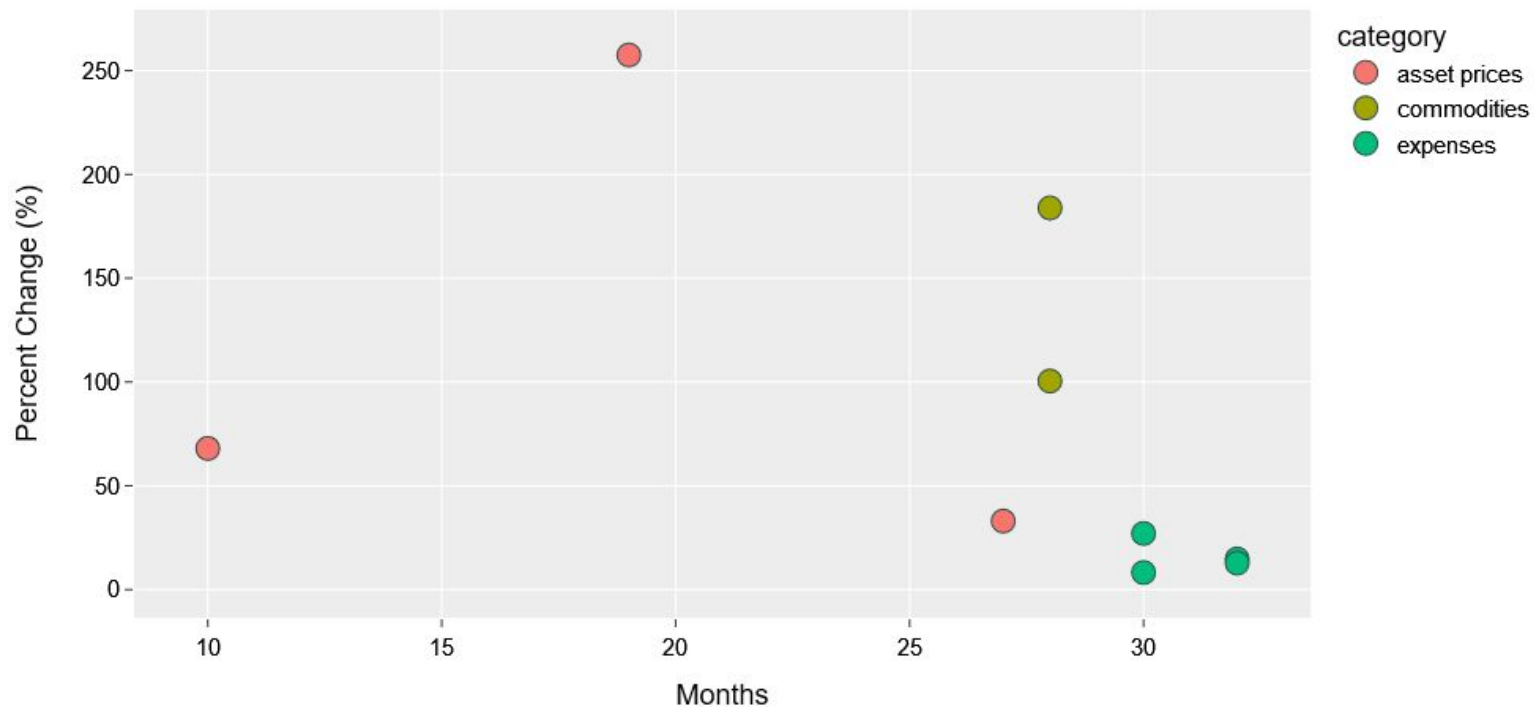


Percent Change in Expenses and Savings



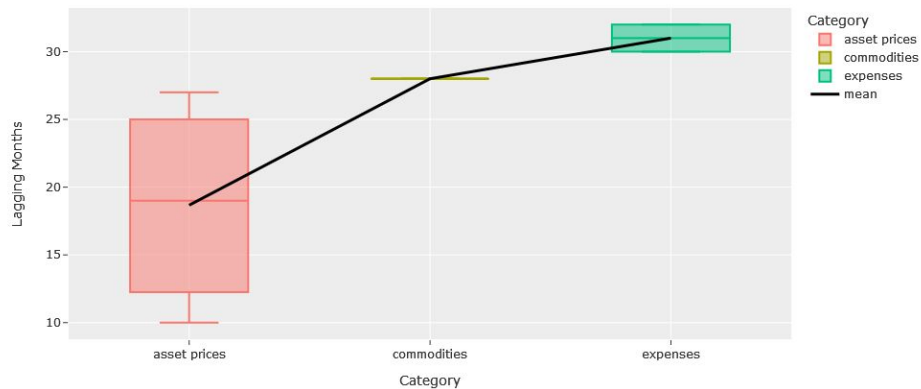
Post Pandemic Inflation

Peak Percent Change vs Months From March, 2020

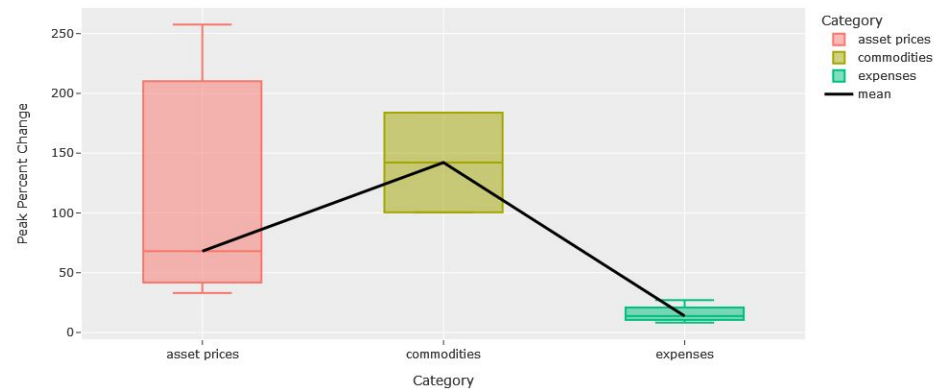


Post Pandemic Inflation

Months to Peak Inflation



Peak Inflation Percent Change



Post Pandemic Inflation

Name	Percent Change	Months to Peak	Peak Date	Category
Nasdaq 100	68.13	10	2021-02	asset prices
BTC Price	257.53	19	2021-11	asset prices
Housing Index	33.02	27	2022-07	asset prices
Commodity Index	100.48	28	2022-08	commodities
Energy Index	183.83	28	2022-08	commodities
CPI Index	14.75	32	2022-12	expenses
Unit Labor Index	8.23	30	2022-10	expenses
Expenses Index	27.05	30	2022-10	expenses
Rent Index	12.77	32	2022-12	expenses

Questions?