#### Monetary Policymaking: An Intellectual History

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### Ground truths

#### U.S. Macroeconomic Features, 2024:Q1

Real GDP growth:

Unemployment rate:

Inflation rates:

Wage growth:

Interest rates:

U.S. Macroeconomic Features, 2024:Q1

Real GDP growth: 1.6%

Unemployment rate: 3.8%

Inflation rates: 3.8% (Core CPI), 2.9% (Core PCE)

Wage growth: 4.2% (ECI)

Interest rates: 5.5% (fed funds), 4.2% (10 yr. treasury bond)

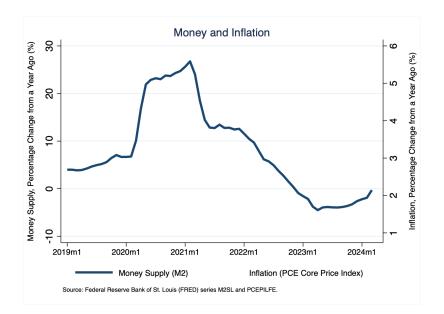
Source: Wells Fargo Economics.

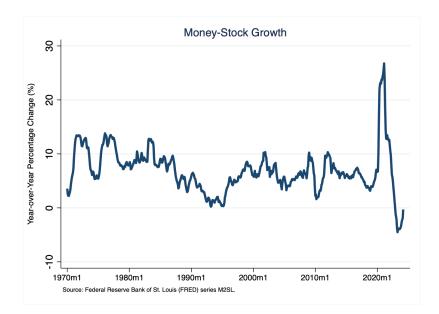
Money matters

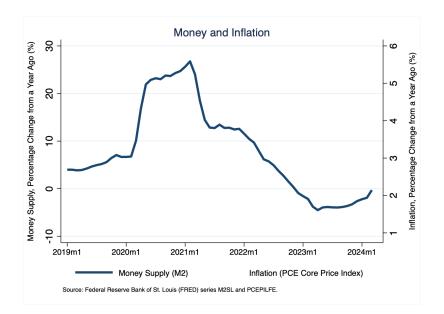


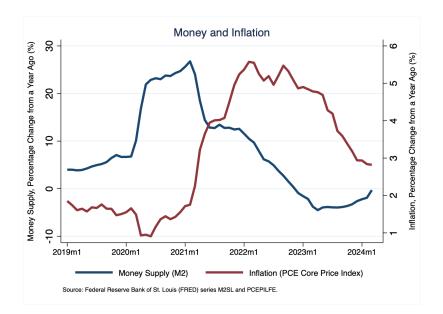


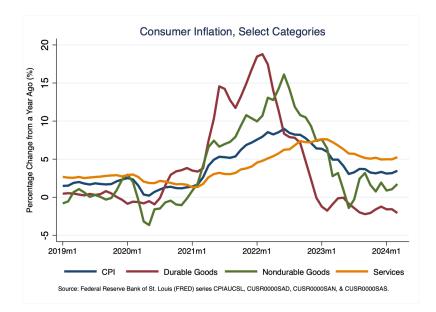
Milton Friedman (1912 - 2006)

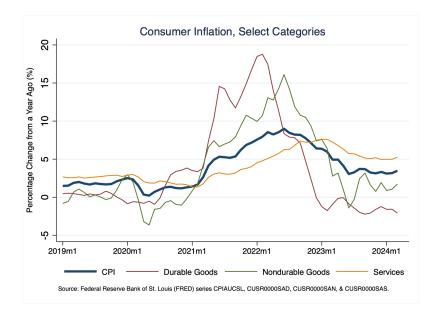


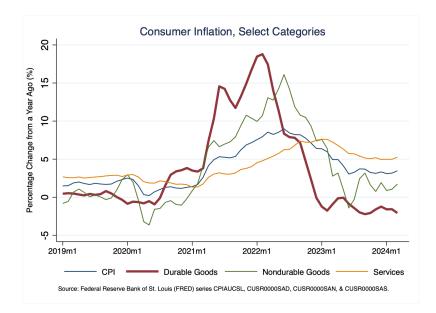


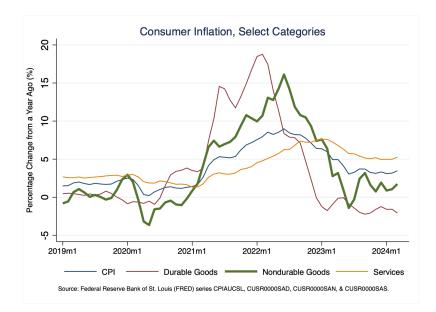


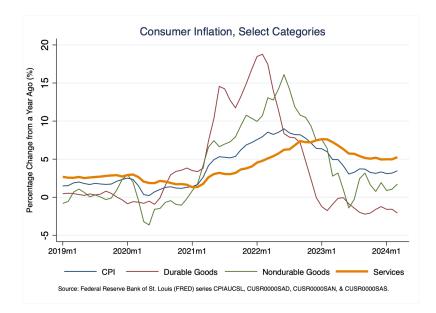












Monetary policy matters too





Jerome Powell (1953 - )

Higher for longer

Higher for longer

### ...and the ghost of contractions past

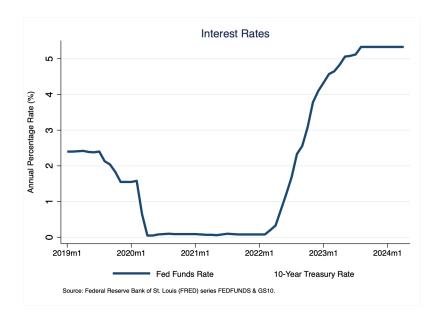


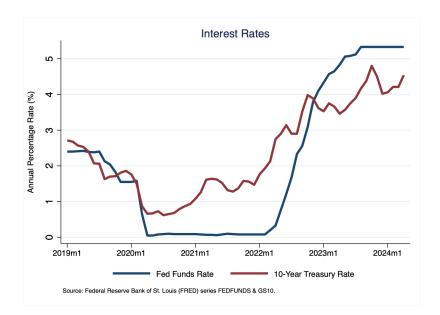


Paul Volcker (1927 - 2019)



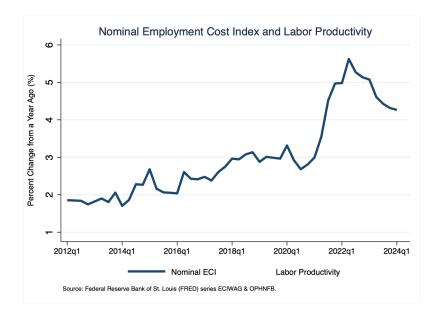
Higher for longer

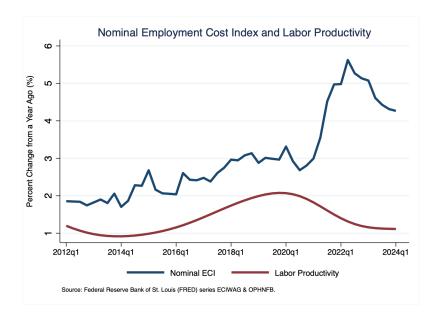




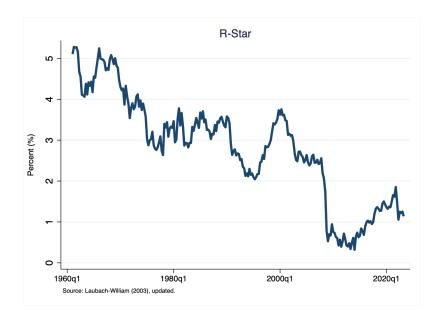


# Payday





## R-Star is born







John Taylor (1946 - )

Taylor rules

$$\hat{i} = r^* + \pi + rac{1}{2} imes (\textit{inflation gap}) + rac{1}{2} imes (\textit{output gap})$$

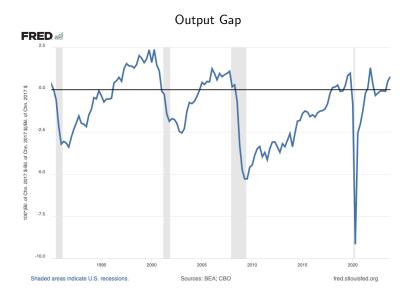
$$\hat{m{i}} = m{r}^* + \pi + rac{1}{2} imes (\textit{inflation gap}) + rac{1}{2} imes (\textit{output gap})$$

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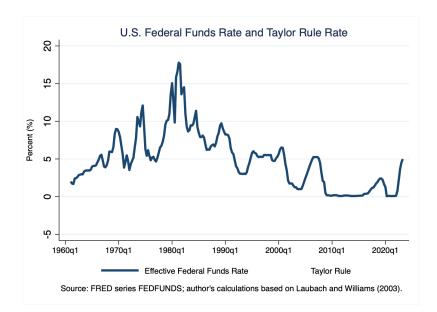
$$\hat{m{i}}=m{r}^*+\pi+rac{1}{2} imes({\it inflation gap})+rac{1}{2} imes({\it output gap})$$

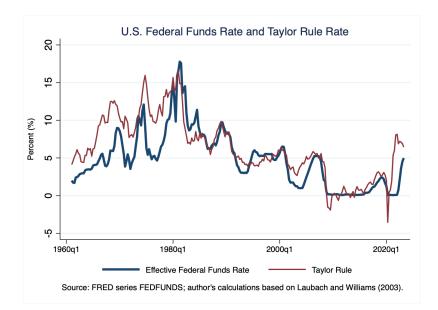
$$\hat{m{i}}=m{r}^*+\pi+rac{1}{2} imes(m{inflation gap})+rac{1}{2} imes(m{output gap})$$

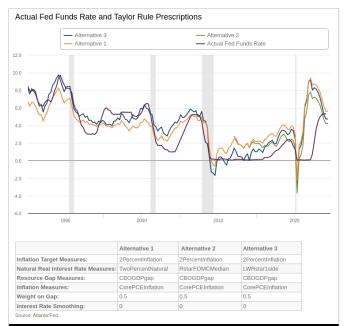
$$\hat{m{i}} = m{r}^* + \pi + rac{1}{2} imes (\textit{inflation gap}) + rac{1}{2} imes (\textit{output gap})$$



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#### 🖣 Federal Reserve Bank of Atlanta



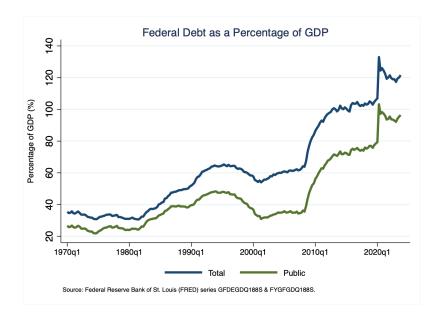


Janet Yellen (1946 - )

Buried treasury

## Buried treasury

# ...and r versus g



 $debt \uparrow \Leftrightarrow deficit \uparrow$ 

 $debt \uparrow \Leftrightarrow interest rates \uparrow$ 

debt  $\uparrow \Leftrightarrow GDP \downarrow$ 

 $debt \uparrow \Leftrightarrow deficit \uparrow$ 

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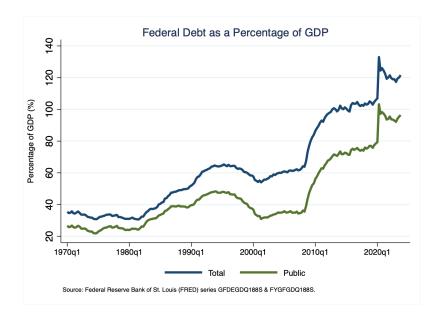
 $debt \uparrow \Leftrightarrow interest rates \uparrow$ 

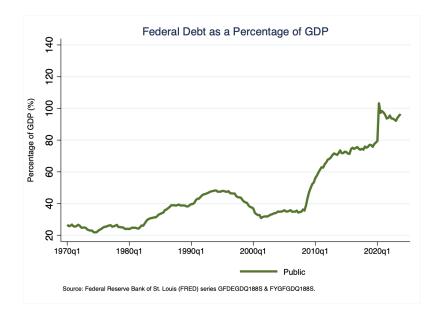
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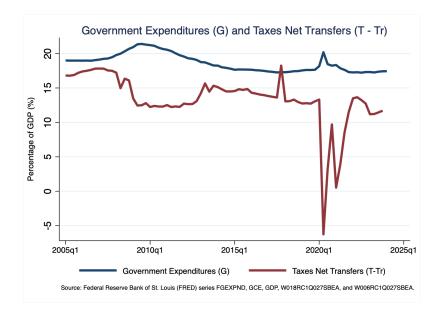
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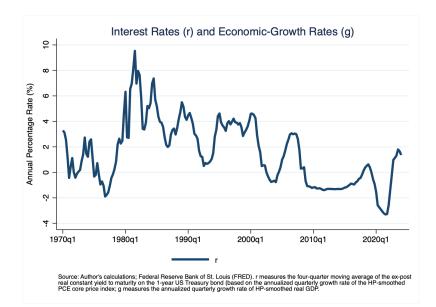
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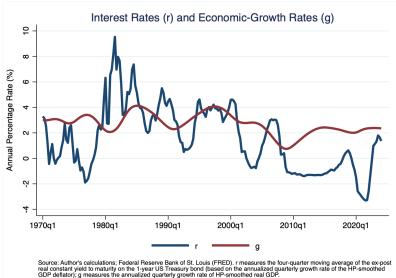


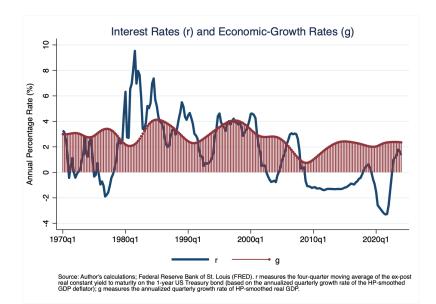


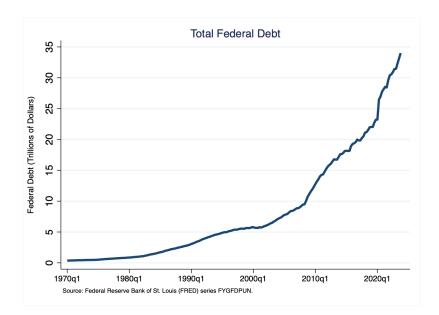


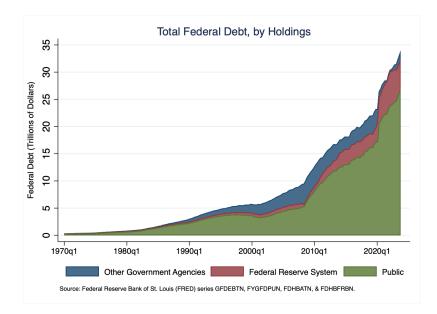
# ...and r versus g

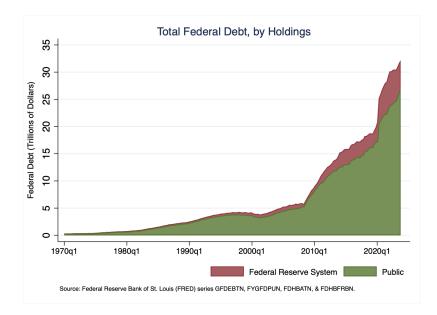






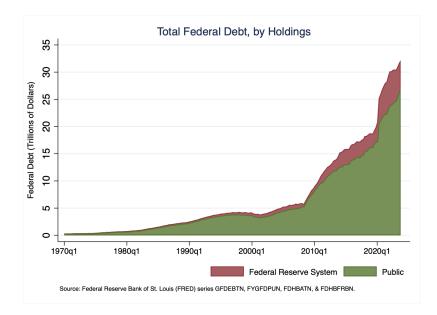


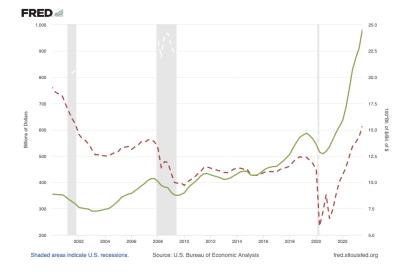


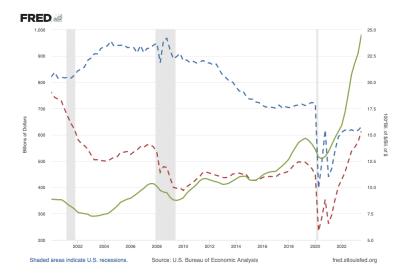


### Federal Reserve System

Assets	Liabilities and Equity
Securities	Currency in Circulation
MBS	Bank Reserves
Discount Loans	
	Equity







### Takeaways

Money matters:  $M \uparrow \Rightarrow \pi \uparrow \Rightarrow i \uparrow$ 

Payday:  $W \uparrow \Rightarrow \pi \uparrow \Rightarrow i \uparrow$ 

R-Star is born:  $r^* \uparrow \Rightarrow i \uparrow$ 

Taylor rules:  $i < \hat{i} \Rightarrow i \uparrow$ 

Buried treasury:  $\frac{debt}{gdp} \uparrow \Rightarrow i \uparrow$ 

Thank you.