

### The US Federal Debt

Lifeguard Wealth April 6, 2023

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NEED





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## National Economic Education Delegation



#### Vision

- Someday, the public discussion of policy issues will be grounded in an accurate perception of the underlying economic principles and data.

#### Mission

 NEED unites the skills and knowledge of a vast network of professional economists to promote understanding of the economics of policy issues in the United States.

#### NEED Presentations

- Are **nonpartisan** and intended to reflect the consensus of the economics profession.



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- 2 Fed chairs: Janet Yellen, Ben Bernanke
- 6 chairs of the Council of Economic Advisers
  - o Furman (D), Rosen (R), Bernanke (R), Yellen (D), Tyson (D), Goolsbee (D)
- 3 Nobel Prize-winners
  - o Akerlof, Smith, Maskin

### • Delegates: 652+ members

- At all levels of academia and government service
- All have a PhD in economics
- Crowdsource slide decks
- Give presentations

### Global Partners: 45 PhD Economists

- Aid in slide deck development



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### This slide deck was created by:

- Jon Haveman, Executive Director, NEED
- Geoffrey Woglom, Amherst College, Emeritus

#### Disclaimer

- NEED presentations are designed to be nonpartisan.
- It is, however, inevitable that presenters will be asked for and offer their own views.
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## First: A Budget Primer



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2022 Budget Summary (in billions)

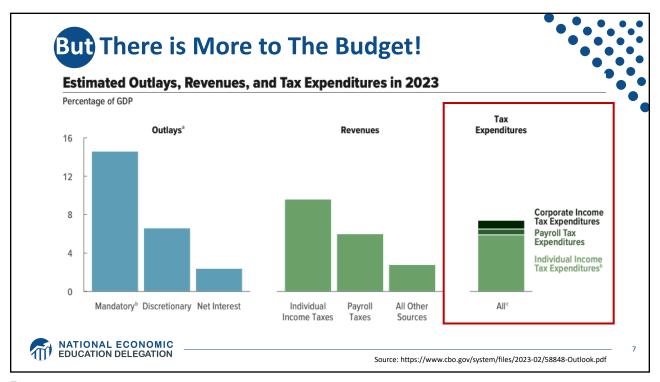
What Does the US Govt. Budget Look Like?

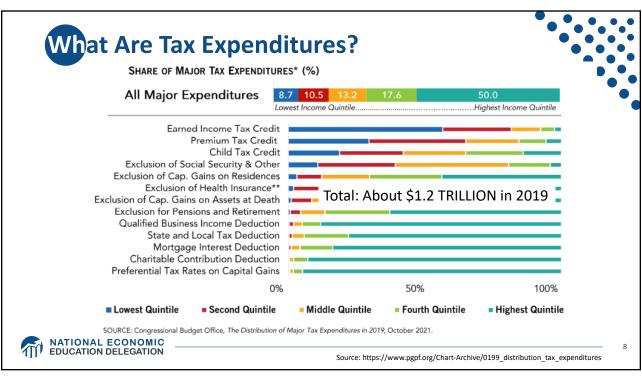
Revenue		Outlays	
Income Taxes	\$2,632	Mandatory	\$4,134
Payroll Taxes	\$1,484	Discretionary	\$1,661
Corporate Taxes	\$425	Interest	\$475
Other	\$356		
Total	\$4,897	Total	\$6,270

Budget Deficit \$1,373 Billion

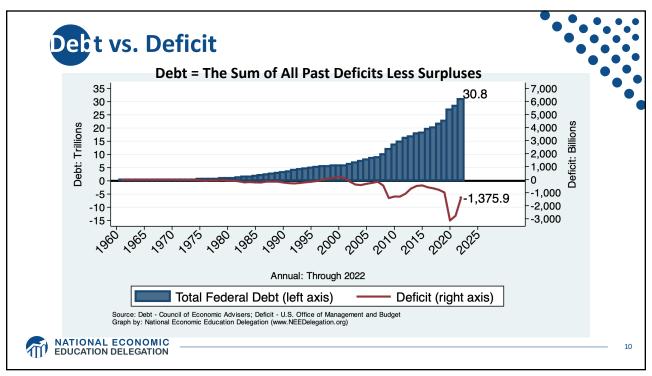
https://www.cbo.gov/publication/58888

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## Of Debt, Deficits, and Surpluses



#### FLOW

- **Deficit**: The excess of outlays over revenues in a year.
- *Surplus*: The excess of revenues over outlays in a year.

#### STOCK

- **Debt**: The accumulation of debt over time.
  - The sum of all past deficits and surpluses.





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## **How Does the US Government Borrow?**



#### • It issues debt.

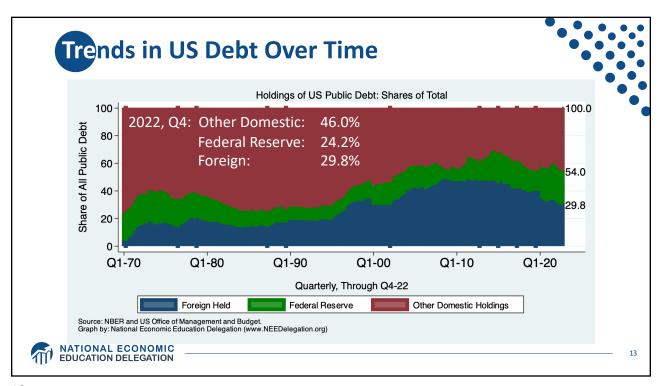
- Treasury marketable securities:
  - o Treasury bills, notes, and bonds
  - o TIPS: Treasury inflation-protected securities
  - Savings bonds

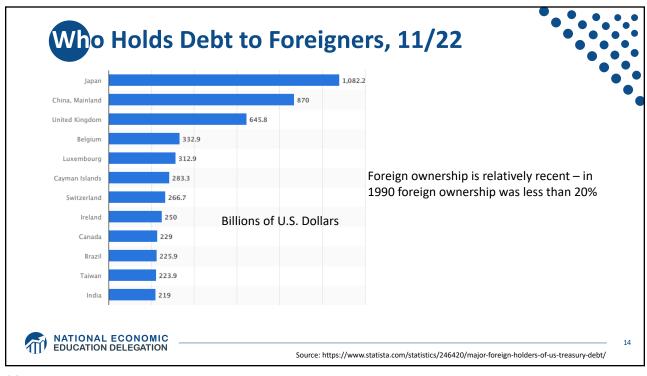
### Who buys the debt?

- Other federal agencies
- Individuals and businesses
- State and local governments
- Foreign government and individuals
- Federal Reserve



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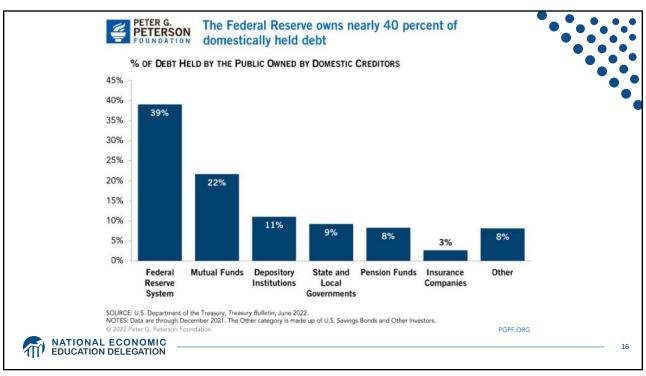
### Why Do Foreign Investors Buy US Treasuries?

- Market for Treasuries is the deepest, most liquid capital market in the world.
- The US economy has a history of political and economic stability.
- The dollar is the largest international reserve currency.
  - Most trade transactions (e.g., oil) are quoted in dollars.
  - With some exceptions, foreign citizens borrow in dollars.



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### Not All Debt Is Created Equal

- Some debt can reduce the availability of investment funds to other borrowers.
  - Often referred to as "crowding out" private investment.
- Intragovernmental debt is (important) bookkeeping.
  - This debt **DOES NOT** crowd out private investment.
- Debt held by the public.
  - This debt **MIGHT** crowd out private investment.
- Most analyses of debt focus on federal debt held by the public.



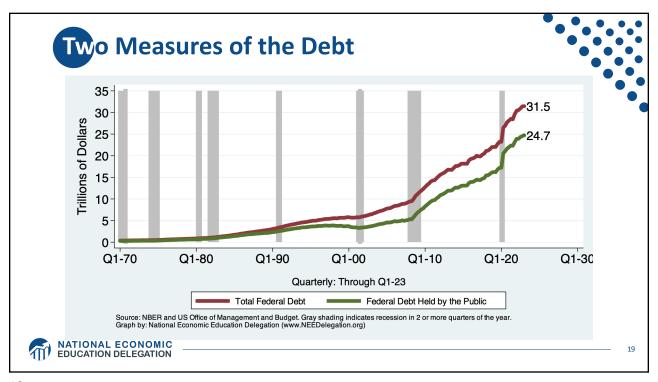
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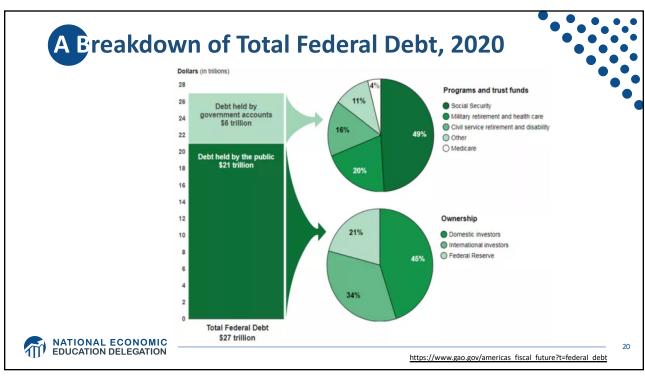


## **Important Points:**

- Not all debt is created equal.
- What is the right measure of the debt?
- Components of the debt.









### The All-Important Relative Debt



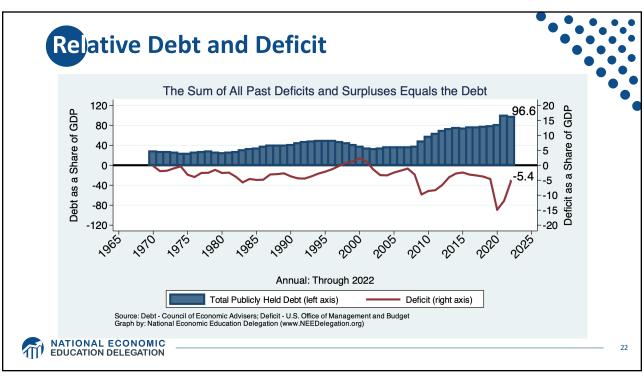
### • CBO analyzes the debt relative to GDP because:

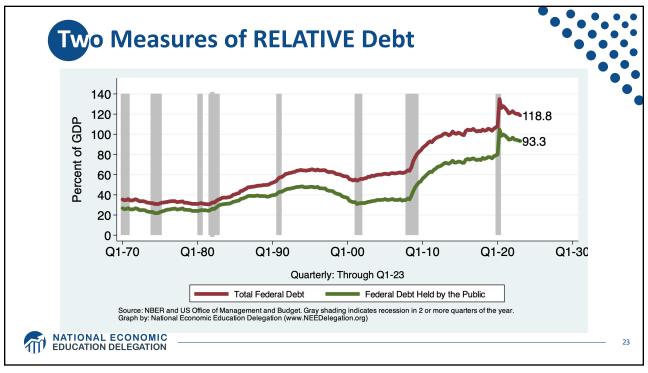
- To the extent that debt and deficits have burdens, these burdens depend on the size of the debt *relative* to the size of the economy.

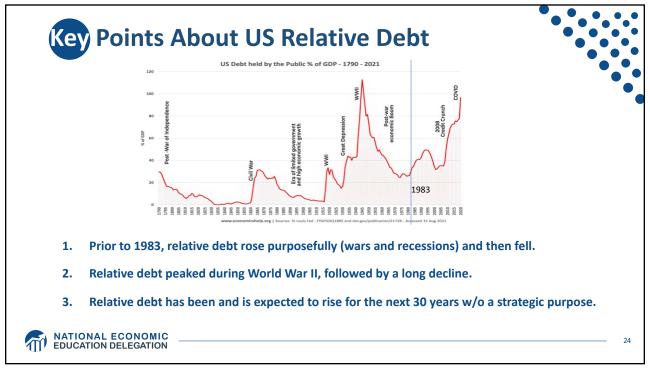
	Total Public Debt	Relative Debt Debt/GDP	
United States	\$24.5 Trillion	93.3%	
Greece	\$0.215 Trillion	170%	



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- Surprising (?) Facts
  - From 1945 to 1979, relative debt fell from 100% of GDP to 25% of GDP.
  - During this period, the federal budget was in surplus only 8/35 years!
- Relative debt is a fraction: Debt/GDP; fractions fall if:
  - The *numerator* falls (budget surplus)
  - The *denominator* rises (nominal GDP growth)
  - The *denominator* grows faster than the *numerator* 
    - o GDP growth is greater than the interest rate on borrowing.
    - o CAN still run deficits and reduce the relative debt.



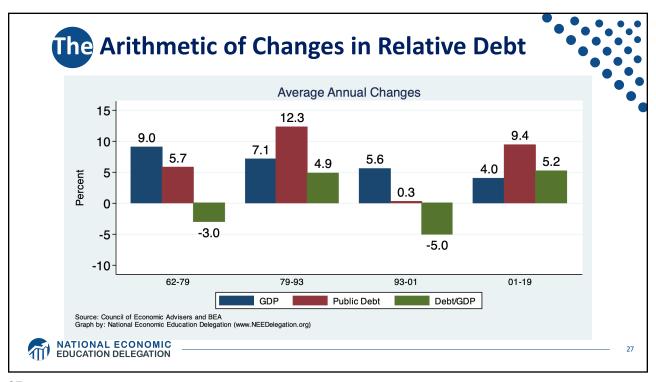
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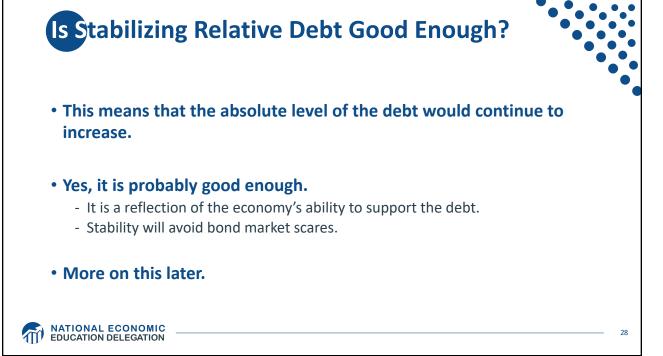
## An Almost Free Lunch

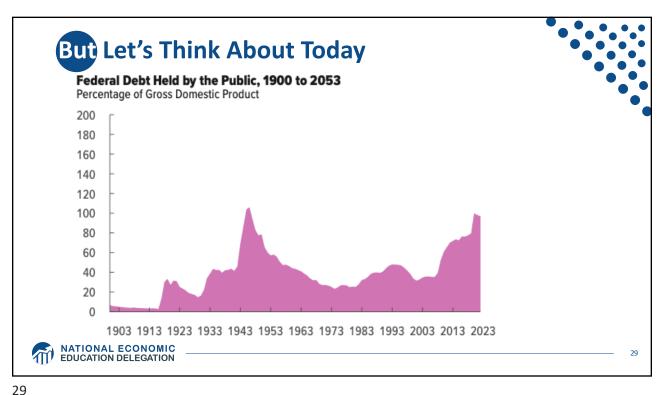


- If the interest rate is *less* than the growth rate of GDP, then the contribution from the primary budget can be positive, hence...
- Debt to GDP can be stabilized with a (small) primary deficit.

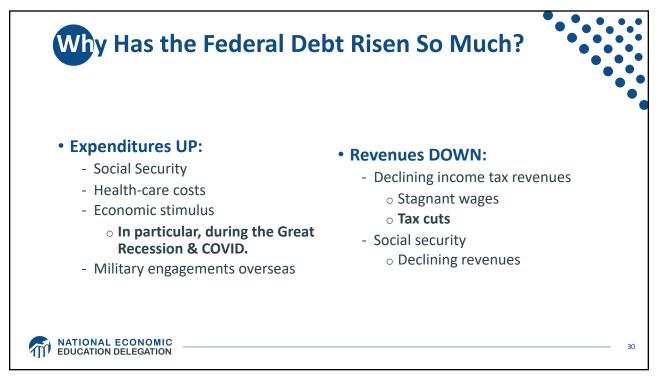


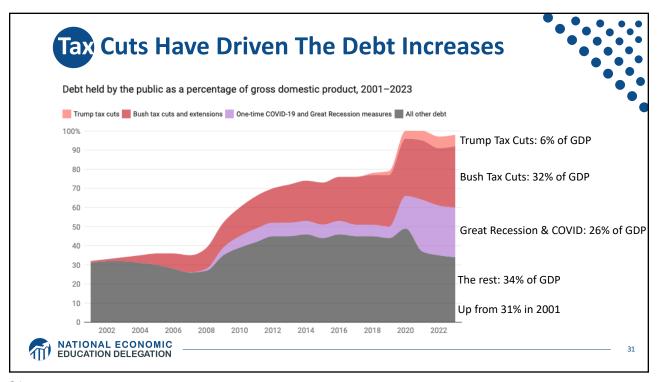


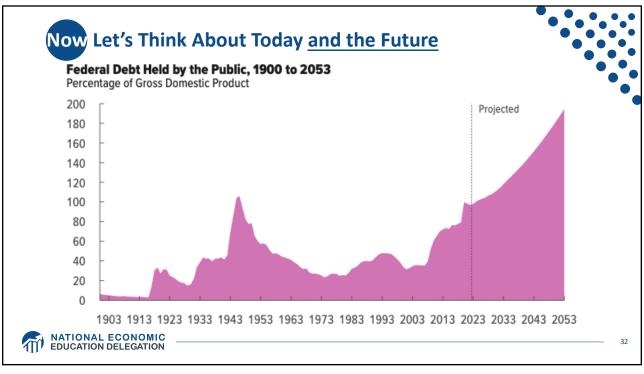


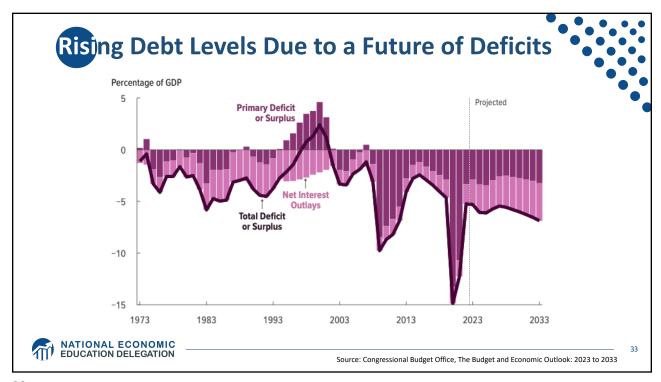


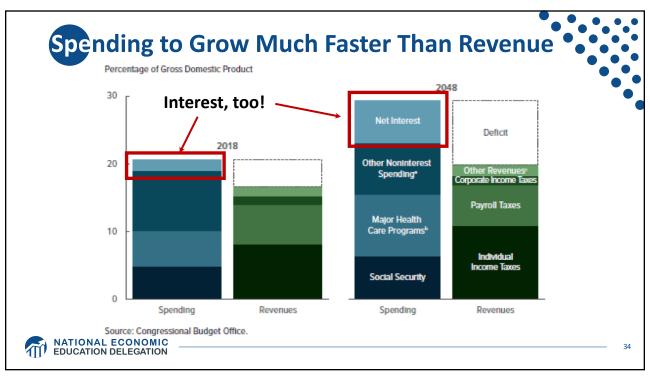
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## Two Measures of the Deficit

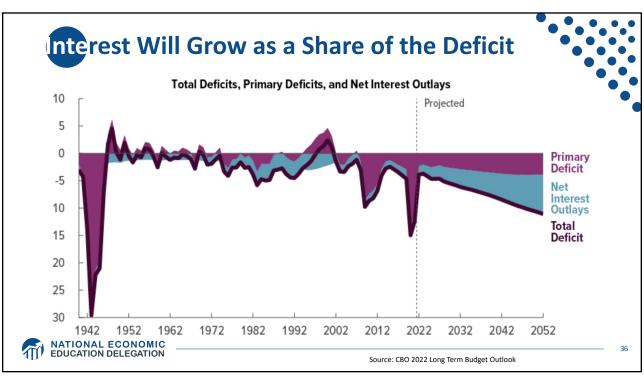


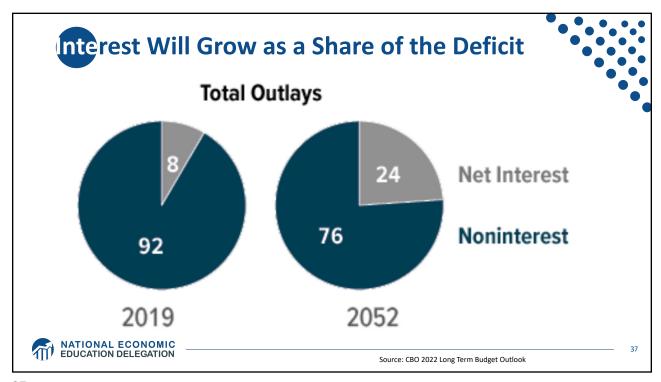
- (1) Primary deficit = current programmatic outlays revenues
- (2) Total deficit = primary deficit + interest
- Interest on the debt is
  - The part of the total deficit that is due to past deficits.
- This distinction becomes important for understanding:
  - The future course of relative debt.
  - The costs borne by future generations because of the debt.

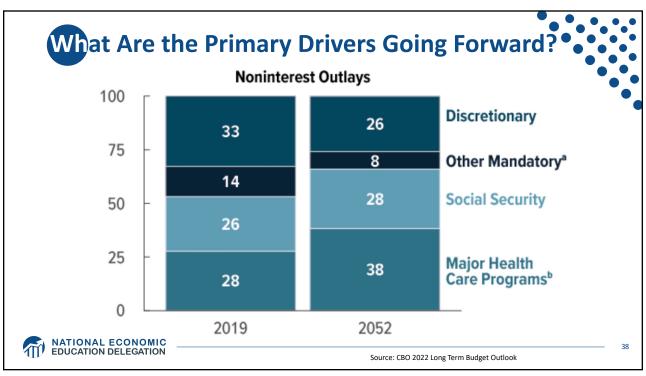


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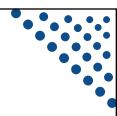
### **How to Think About the Debt**



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## Perspectives on Increased Debt



- Does debt impose a burden on future generations?
  - Does it inevitably have to be paid off?
- Government borrowing crowds out private capital and investments.
  - Weakened by the ability to borrow from other countries.
- In time, debt service might crowd out other government spending.
  - Diminishing policy priorities in the budget.
- Is it reasonable to borrow at low interest rates for investment?
  - For example, for infrastructure.



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## Is The Debt a Problem Today?

- Federal government borrows each month with little difficulty.
- Very little evidence of "crowding out."
- Interest rates are low, but rising this is becoming a concern.
- So, no, other than the debt ceiling, it's not a problem today.



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# Not All Borrowing Is Bad!

- Two good reasons to borrow:
  - 1. During a temporary crisis
    - 1. Recession
    - 2. War
    - 3. Pandemic
  - 2. Productive public investment
    - 1. Infrastructure
    - 2. Education



- These deficits did not and do not permanently increase relative debt.
  - Great Depression, WWII, Great Recession, COVID
  - Public investment expands GDP and tax revenue



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## So, Why Worry About it?

### • If debt becomes too high:

- Investors might start questioning the creditworthiness of the US government.
  - o Problem: Nobody knows how high is too high.
- It becomes more difficult to borrow in times of crisis.
  - o War, severe recession
  - o "Fiscal space"
    - Impossible to measure how much we have.
    - Clearly, we have less now than in 2007.
- Could start to crowd out investment by consumers and businesses.
  - o Not currently a problem. No idea if/when it might become one.
- Could be inflationary.



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## So, Why Worry About It?

### • If debt continues to grow:

- Interest payments will grow with it.
  - 8% of spending in 2019.
  - o 22% of spending in 2052.
  - Less room for using the budget for policy priorities.
  - o 30% of payments go to other countries.
- The longer we wait to address it, the harder and more disruptive addressing it will be.
- Interest rates are increasing.



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- Can be scary to....
  - International investors
  - Bond markets



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## Fiscal Crisis, or a Run on the Dollar



- With an exploding relative debt, what happens if foreigners lose confidence in the stability of the dollar?
- CBO (Federal Debt: A Primer, March 2020):

because the United States currently benefits from the dollar's position as the world's reserve currency and because the federal government borrows in dollars, a financial crisis—similar to those that befell Argentina, Greece, or Ireland—is less likely in the United States.

Although no one can predict whether or when a **fiscal crisis** might occur or how it would unfold, the risk is almost certainly increased by high and rising federal debt.

Crises of confidence, in addition to being unpredictable, happen very quickly.



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- Increased perception of risk in government debt.
- Potential manifestations:
  - Sudden significant increase in interest rates
  - Plunging exchange rates
- Why?
  - Increased expectation of default
- Potential results:
  - Dramatic budget reforms may be quickly necessary to stave off actual default.
  - Recession from declines in:
    - o investment (interest rates)
    - o consumption (interest rates)
    - o Government spending
  - Higher interest bill on existing debt



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### The Key: Stabilization of Relative Debt



- Stabilization of relative debt might forestall the consequences of chronic deficits.
- Problem: The US federal debt is in no way stable.
- W/o stability, interest rates might rise, causing crowding out of:
  - policy priorities
  - domestic investment
- Budget surpluses are not necessary, but budget control is.



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### **Bottom Line: We Need to Worry about** the Debt



- 1. Interest rates are rising.
- 2. A fiscal crisis should be avoided at all costs.
- 3. Stabilizing relative debt would substantially reduce the possibility of a crisis.
- 4. The good news is we might be able to stabilize relative debt without a primary surplus.

But we must substantially reduce primary deficits.

We MUST MUST continue raising the debt ceiling.



## **Bot**tom Bottom Line

Question is not WHETHER the US will have to act...
 but WHEN.

- Some combination of the following **WILL** be necessary:
  - Raising taxes
  - Cutting spending
  - Reining in health-care costs
- The longer we wait, the harder it will be!



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## **Any Questions?**

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