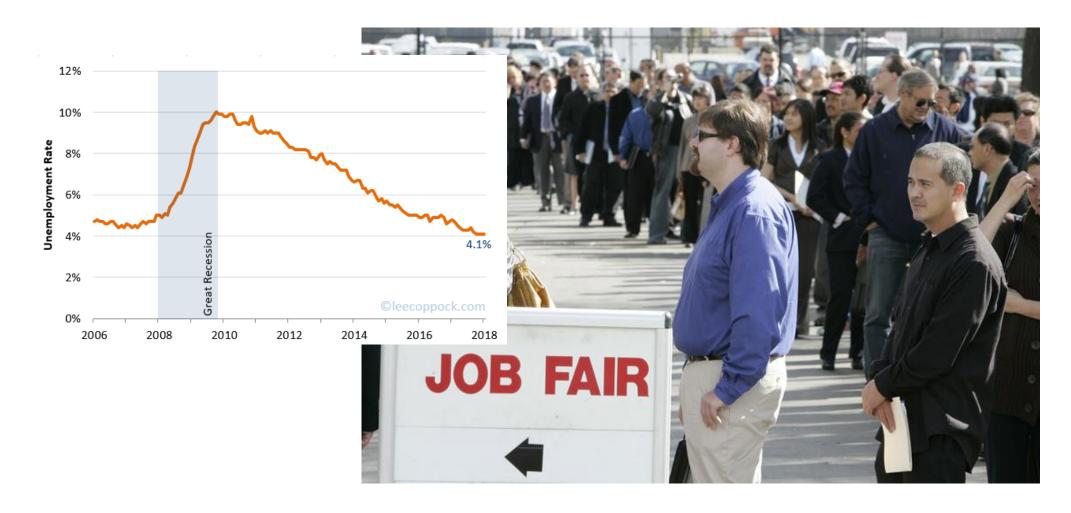
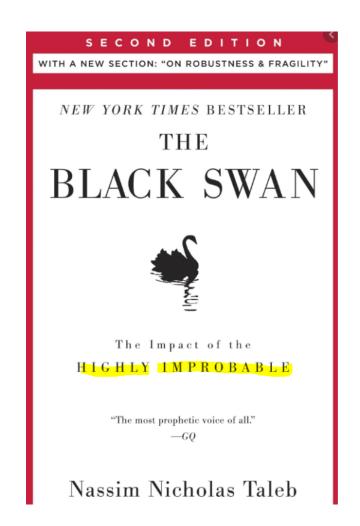


great recession



shutdown



Theron Mohamed

O Apr. 8, 2020, 03:27 PM



SHARE



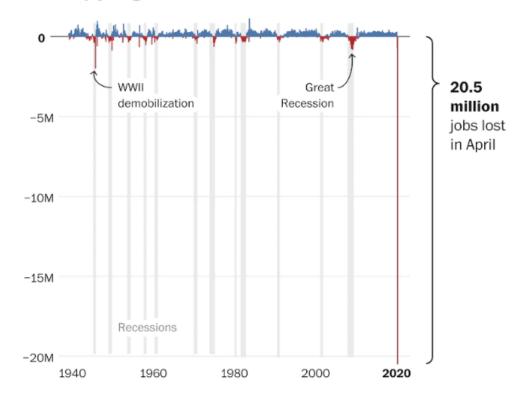
- A "Black Swan" hedge fund posted a 4,144% return last quarter after the novel coronavirus outbreak tanked markets.
- Universa Investments' chief, Mark Spitznagel trumpeted the massive gain in a letter to clients.
- Spitznagel a protégé of Nassim Nicholas Taleb, the author of "The Black Swan: The Impact of the Highly Improbable" — warned that markets would fall further.

how bad?



how bad?

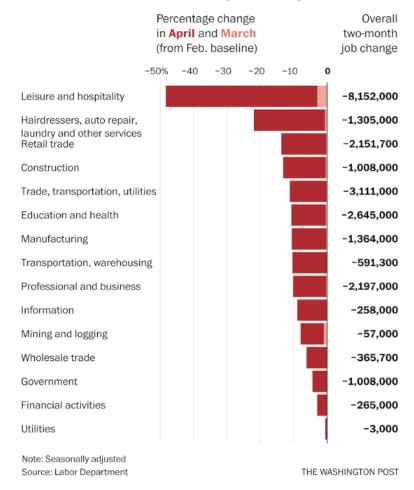
Monthly job gains or losses in the U.S. since 1939



Note: Nonfarm payrolls, seasonally adjusted

Source: Labor Department THE WASHINGTON POST

How the crisis hit the economy, sector by sector



worse?

BREAKING | 26,390 views | Apr 10, 2020, 11:21am EDT

JPMorgan Forecasts 20% Unemployment And 40% Hit To Second-Quarter GDP



Sergei Klebnikov Forbes Staff

Markets

I cover breaking news, with a focus on money and markets.



(23m)/156.4m =14.7%



Transmission of material in this news release is embargoed until 8:30 a.m. (EDT) Friday, April 3, 2020

USDL-20-0521

HOUSEHOLD DATA

Summary table A. Household data, seasonally adjusted [Numbers in thousands]

Category	Apr. 2019	Feb. 2020	Mar. 2020	Apr. 2020	Change from: Mar. 2020- Apr. 2020
Employment status					
Civilian noninstitutional population	258,693	259,628	259,758	259,896	138
Civilian labor force	162,546	164,546	162,913	156,481	-6,432
Participation rate	62.8	63.4	62.7	60.2	-2.5
Employed	156,696	158,759	155,772	133,403	-22,369
Employment-population ratio	60.6	61.1	60.0	51.3	-8.7
Unemployed	5,850	5,787	7,140	23,078	15,938
Unemployment rate	3.6	3.5	4.4	14.7	10.3
Not in labor force	96,147	95,082	96,845	103,415	6,570
Unemployment rates					
Total, 16 years and over	3.6	3.5	4.4	14.7	10.3

(23m+12m+5m)/156.4m = 25.6%



Transmission of material in this news release is embargoed until 8:30 a.m. (EDT) Friday, April 3, 2020

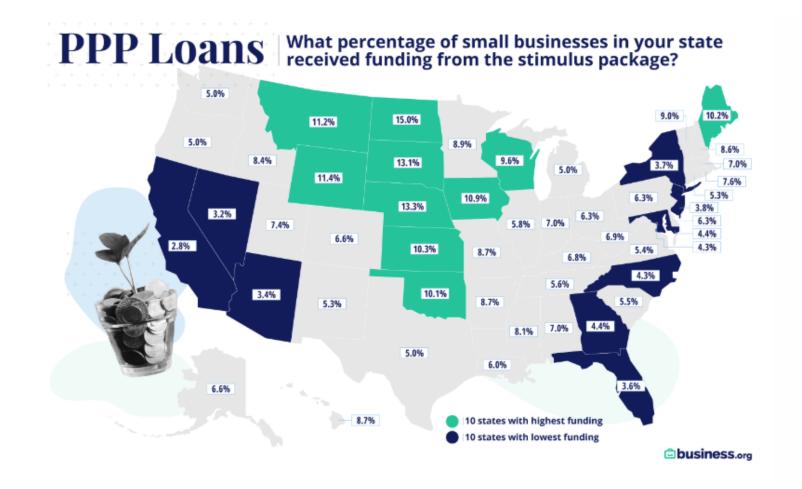
USDL-20-0521

HOUSEHOLD DATA

Summary table A. Household data, seasonally adjusted [Numbers in thousands]

Category		Apr. 2019	Feb. 2020	Mar. 2020	Apr. 2020	Change from: Mar. 2020- Apr. 2020
UNEMPLOYMENT INSURANC	E DATA FOR REGU	JLAR STAT	ΓE PROGRA	MS	259,896 156,481	I .
WEEK ENDING	May 2	Apı	ril 25	Change	60.2 133,403	-2.5 -22,369
Initial Claims (SA)	3,169,000		5,000	-677,000	51.3	-8.7
Initial Claims (NSA)	2,849,090		5,703	-646,613	23,078	
4-Wk Moving Average (SA)	4,173,500	5,03	5,000	-861,500	14.7	10.3
3 3 7	,,			,	103,415	6,570
WEEK ENDING	May 16	May 0	Change	4.4	14.7	10.3
Initial Claims (SA)	May 16 2,438,000	May 9 2,687,000	Change -249,000			
Initial Claims (NSA)	2,174,329	2,356,594	-182,265			
4-Wk Moving Average (SA)	3,042,000	3,543,000	-501,000			

5% of 30.7m



more jobless

HOW ARE SMALL BUSINESSES ADJUSTING TO COVID-19? EARLY EVIDENCE FROM A SURVEY

Alexander W. Bartik Marianne Bertrand Zoë B. Cullen Edward L. Glaeser Michael Luca Christopher T. Stanton

Working Paper 26989 http://www.nber.org/papers/w26989

NATIONAL BUREAU OF ECONOMIC RESEARCH 1050 Massachusetts Avenue Cambridge, MA 02138 April 2020

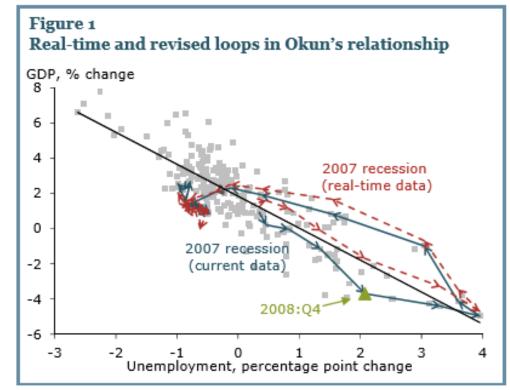


(25.6% - 3.5%)*2 = -44.2%

FRBSF ECONOMIC LETTER

2014-12

April 21, 2014





JPMorgan Forecasts 20% Unemployment And 40% Hit To Second-Quarter GDP

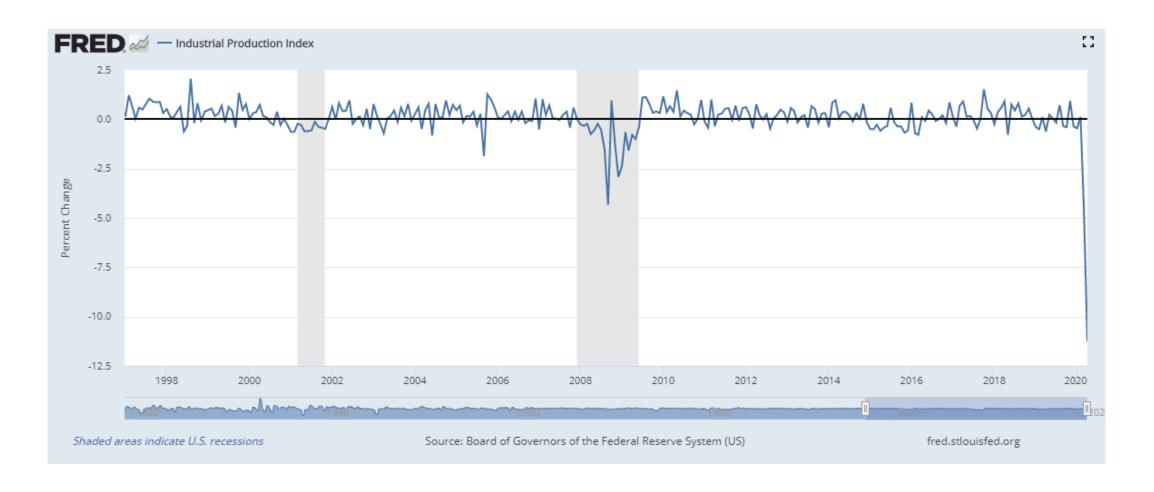


Sergei Klebnikov Forbes Staff

Markets

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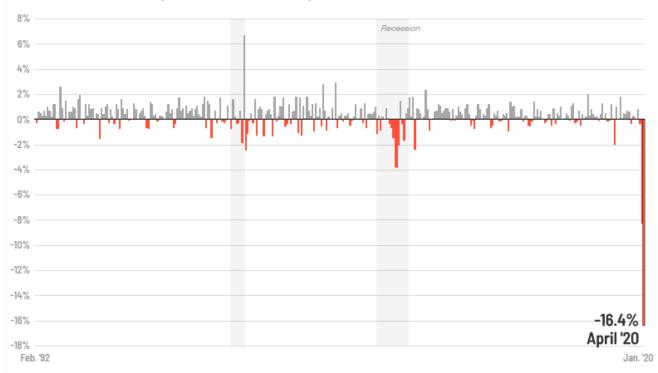
supply



demand

US retail sales drop to lowest on record

The 16.4% decline was the largest since the data series began in 1992.



Note: Seasonally adjusted sales, monthly percent change

Source: US Census Bureau Graphic: Tal Yellin, CNN

demand

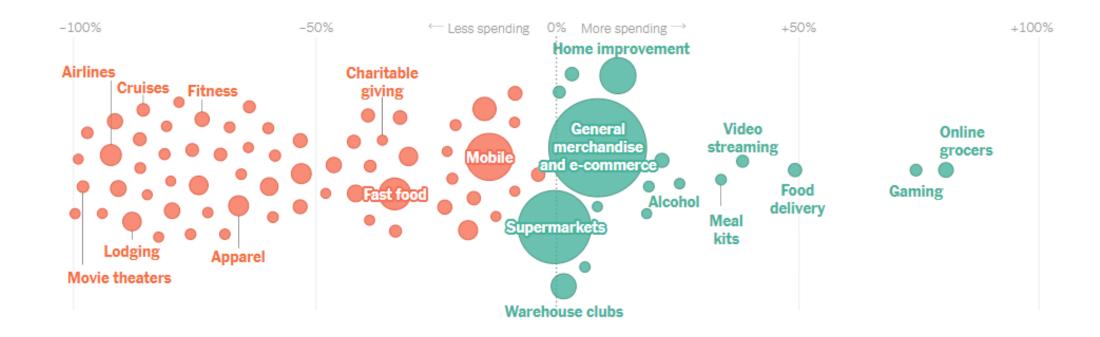
MARCH RETAIL SALES, BY SECTOR

Change from previous month

-50.5%	Clothing and clothing accessories stores
-26.8	Furniture and home furnishings stores
-26.5	Food services and drinking places
-25.6	Motor vehicles and parts dealers
-23.3	Sports, hobbies, musical inst. and bookstores
-17.2	Gasoline stations
-15.1	Electronics and appliance stores
-14.3	Miscellaneous store retailers
-8.7	Total retail and food services
Building materials and garden equip. dealers	+1.3
Nonstore retailers	+3.1
Health and personal care stores	+4.3
General merchandise stores	+6.4
Food and beverage stores	+25.6

Note: Seasonally adjusted - Source: U.S. Department of Commerce - By The New York Times

industries





grocery

Grocery sales are way up, as people cook at home.





travel

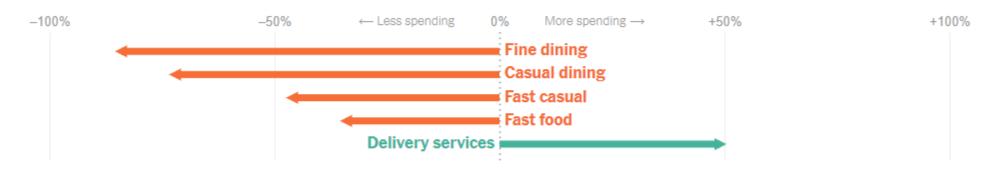
Spending on travel has slumped as people hunker down.





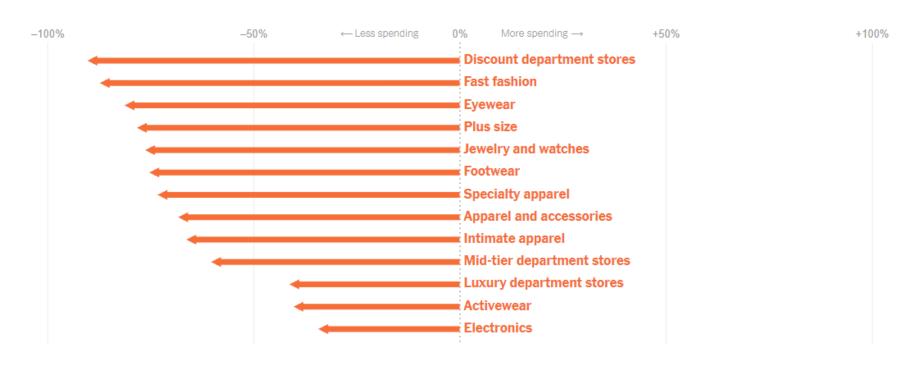
restaurant

Restaurant sales have plummeted.



shopping

Shopping is down overall, especially at brick-and-mortar stores.





health

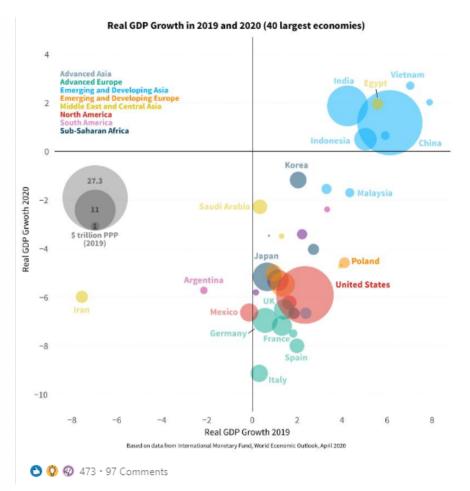
Spending on health, paradoxically, has also fallen.





gdp forecasts

rowth across all regions.	S.		PROJECTIONS		
(real GDP, annual percent change)	2019	2020	2021		
World Output	2.9	-3.0	5.8		
Advanced Economies	1.7	-6.1	4.5		
United States	2.3	(-5.9)	4.7		
Euro Area	1.2	-7.5	4.7		
Germany	0.6	-7.0	5.2		
France	1.3	-7.2	4.5		
Italy	0.3	-9.1	4.8		
Spain	2.0	-8.0	4.3		
Japan	0.7	-5.2	3.0		
United Kingdom	1.4	-6.5	4.0		
Canada	1.6	-6.2	4.2		
Other Advanced Economies	1.7	-4.6	4.5		
Emerging Markets and Developing Economies	3.7	-1.0	6.6		
Emerging and Developing Asia	5.5	1.0	8.5		
China	6.1	1.2	9.2		
India	4.2	1.9	7.4		
ASEAN-5	4.8	-0.6	7.8		





assumptions

Impact of the CARES Act in 2020						
Provision	2020 impact, \$,	% of GDP	2020 Multiplier range*	Total impa	ect on GDP, %	
Unemployment benefits	250	1.2	0.4 to 1.0	0.5	1.2	
S&L govt relief fund	150	0.7	0.4 to 1.0	0.3	0.7	
Emergency supplemental	275	1.3	0.5 to 1.0	0.7	1.3	
Cash payments to households	290	1.4	0.2 to 0.5	0.3	0.7	
Corporate tax relief	600	2.9	0.0 to 0.2	0.0	0.6	
Total	1565	7.6		1.7	4.5	

^{*}Spending multipliers would likely be higher during a normal downturn, but are capped at 1 due to widespread lockdowns.

Source: Oxford Economics, CBO



Federal Reserve Bank of Chicago

What Happened to the US Economy During the 1918 Influenza Pandemic? A View Through High-Frequency Data

François R. Velde

April 10, 2020

WP 2020-11

https://doi.org/10.21033/wp-2020-11

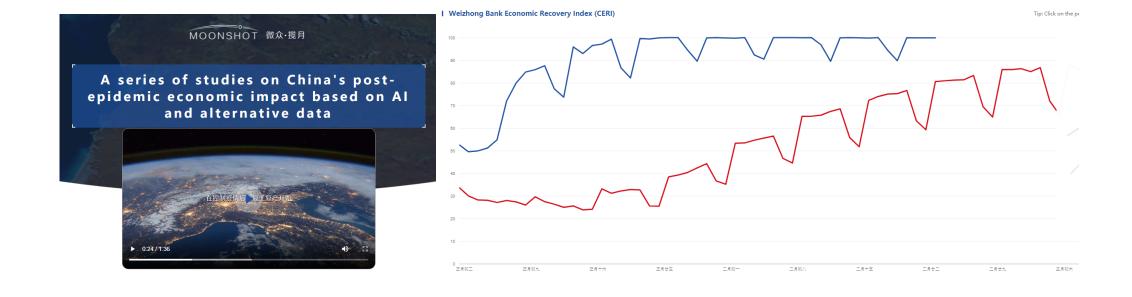
Most of the evidence indicates that the economic effects of the 1918 influenza pandemic were short-term.

^{*}Working papers are not edited, and all opinions and errors are the responsibility of the author(s). The views expressed do not necessarily reflect the views of the Federal Reserve Bank of Chicago or the Federal Reserve System.

contagion

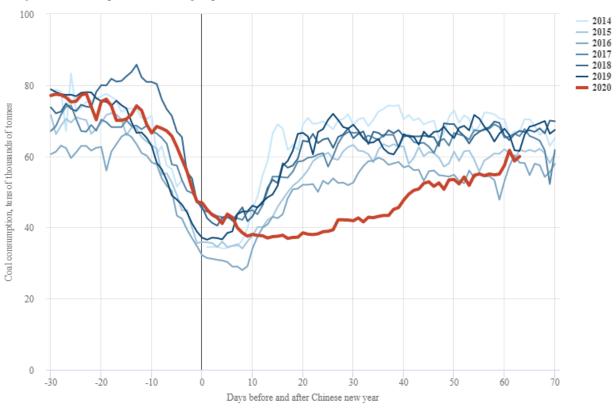


china recovery



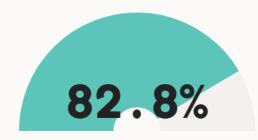
china recovery

Daily coal consumption at six major power firms



china recovery

Last update: April 16, 2020

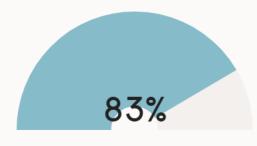


Trivium National Business Activity Index

This index looks at the current state of China's overall economic capacity utilization as compared with "normal" levels prior to the virus outbreak.

How we calculate it

We estimate the currently operating proportion of typical national output by aggregating our in-house resumption rate estimates for large and small enterprises, and weighting the two indices by their proportion in overall GDP (for more information see our notes below).

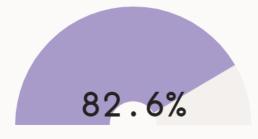


Trivium National Large Enterprise Activity Index

This index estimates current production levels at China's large industrial and manufacturing enterprises as a proportion of normal activity levels.

How we calculate it

We produce our proprietary resumption index for large enterprises by tracking public reporting of provincial resumption rates, then adjusting for the weight of each province in national GDP and for estimated average capacity utilization rates among these enterprises.



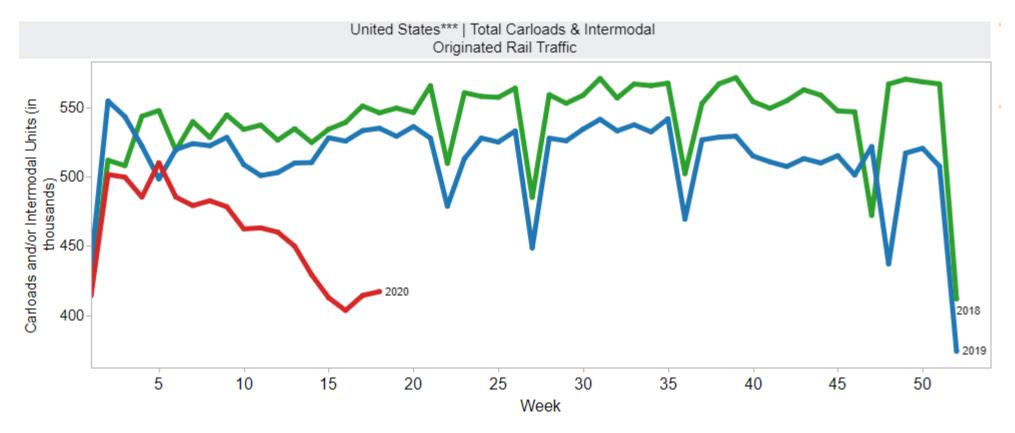
Trivium National SME Activity Index

The Trivium National SME Activity Index estimates current production levels at China's SMEs as a proportion of normal activity levels.

How we calculate it

We produce our proprietary index for SME resumption rates by cross-checking official SME resumption rates against our on-the-ground channel checks and anecdotal research, and adjusting for estimated average capacity utilization rates.

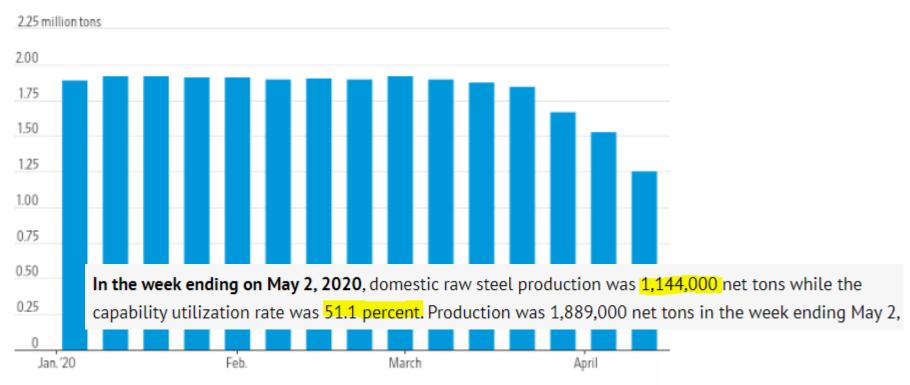
us recession





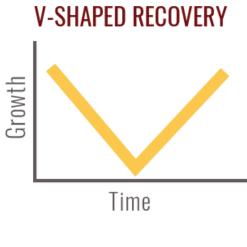
us recession

U.S. weekly raw steel production

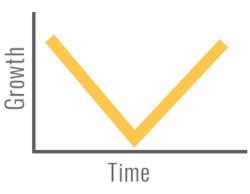


Source: American Iron and Steel Institute

debate







L-SHAPED RECOVERY







SWOOSH-SHAPED RECOVERY

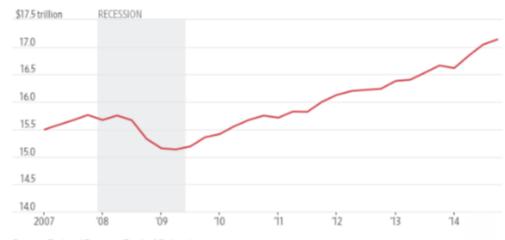


great recession

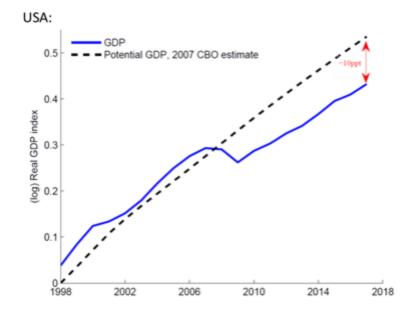
Swoosh-Shaped Recovery

The U.S. recovery from the 2008 recession was swoosh-shaped.

Quarterly GDP in 2012 dollars



Source: Federal Reserve Bank of St. Louis

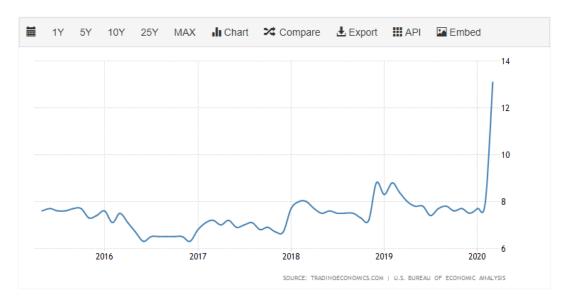


caution

United States Personal Savings Rate 1959-2020 Data | 2021-2022 Forecast | Historical

Summary Forecast Stats Download ▼

Household Saving Rate in the United States increased to 13.10 percent in March from 8 percent in February of 2020.



How people are spending their coronavirus relief payments, by work status

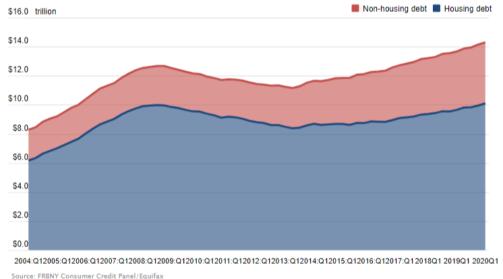
CivicScience survey crosstab of US adults who received a stimulus payment

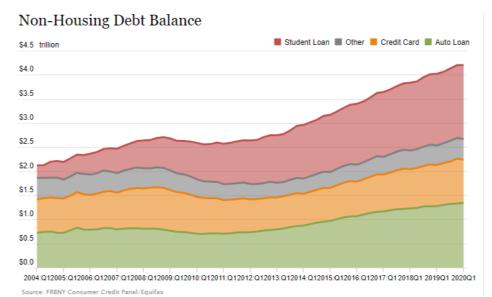
	Working as usual or remote	Not working, but still paid	Reduced hours/pay; Not working/not paid
Invested it	3%	25%	6%
Saved it	47	27	31
Purchased necessities	12	18	21
Paid down debt / bills	27	8	30
Treated myself to things I want	4	18	2
Donated it	3	2	3
Other	4	2	7

Data: CivicScience; Table: Axios Visuals

consumer debt

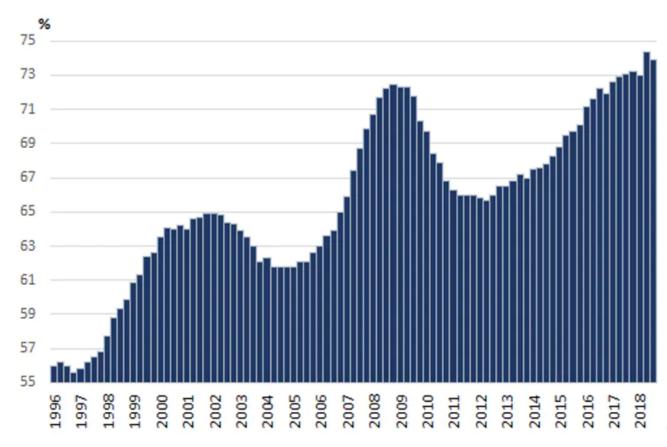
Total Debt Balance





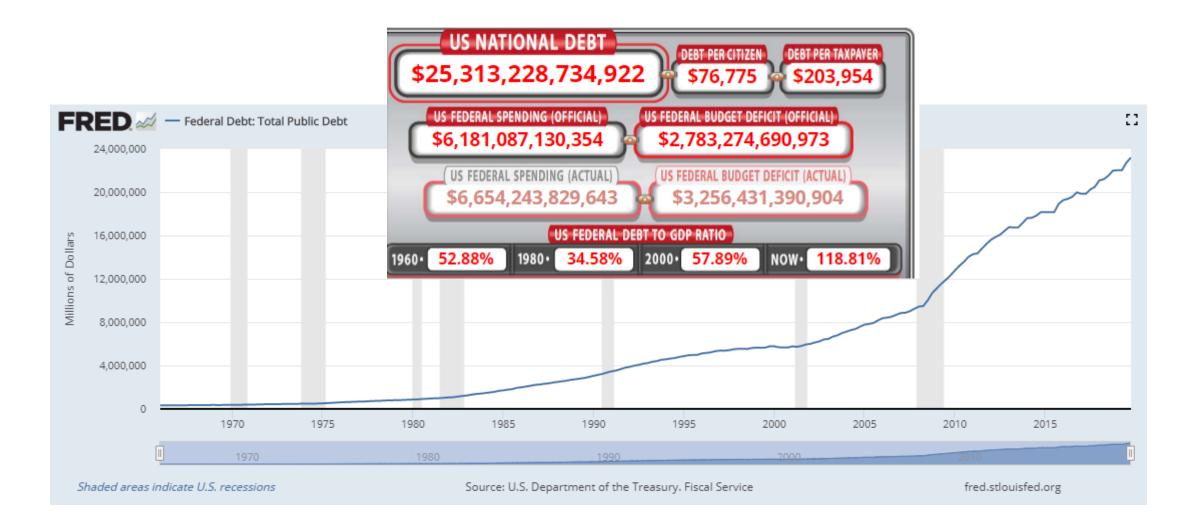
corporate debt

US corporate debt as a % of GDP



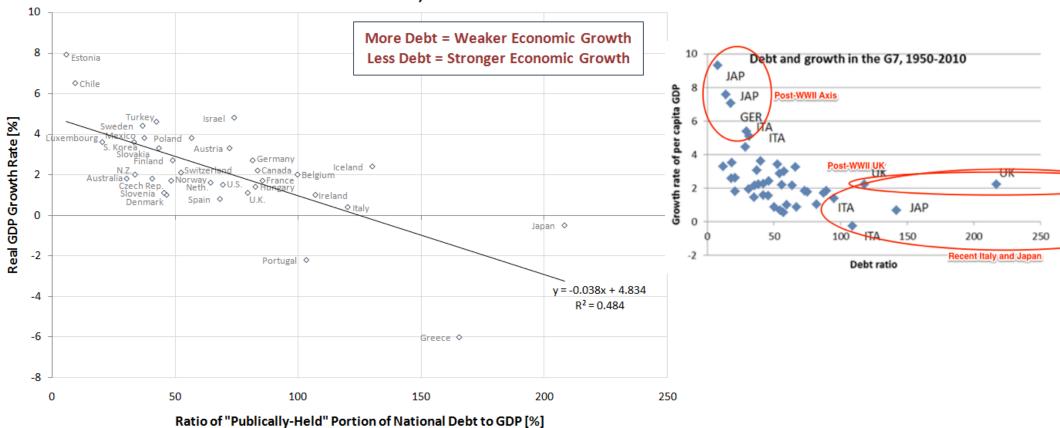
Going up. Wolf Street

public debt



growth

OECD Nations: Real Growth Rate of GDP vs "Publically-Held" Portion of National Debt to GDP Ratio, 2011

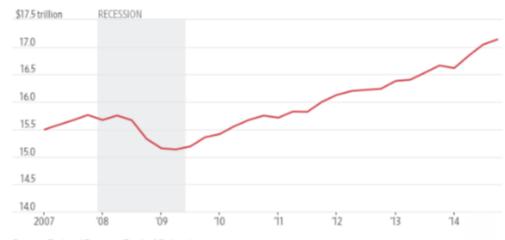


great recession 2.0

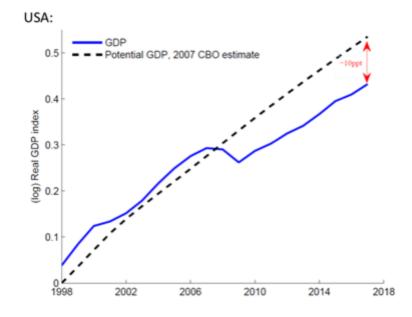
Swoosh-Shaped Recovery

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Source: Federal Reserve Bank of St. Louis



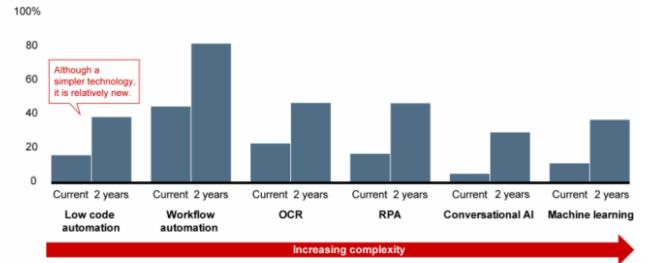
risk



Companies expect significant growth in advanced automation over the next two years

"Describe the level at which your organization currently uses the following automation technologies and expects to use the automation technologies in two years."

Respondents who are scaling or mature in each technology



Notes: OCR is optical character recognition; RPA is robotic process automation Sources: Bain Global Automation Survey, 2019 (n=796); market participant interviews



COVID-19 Is Also a Reallocation Shock

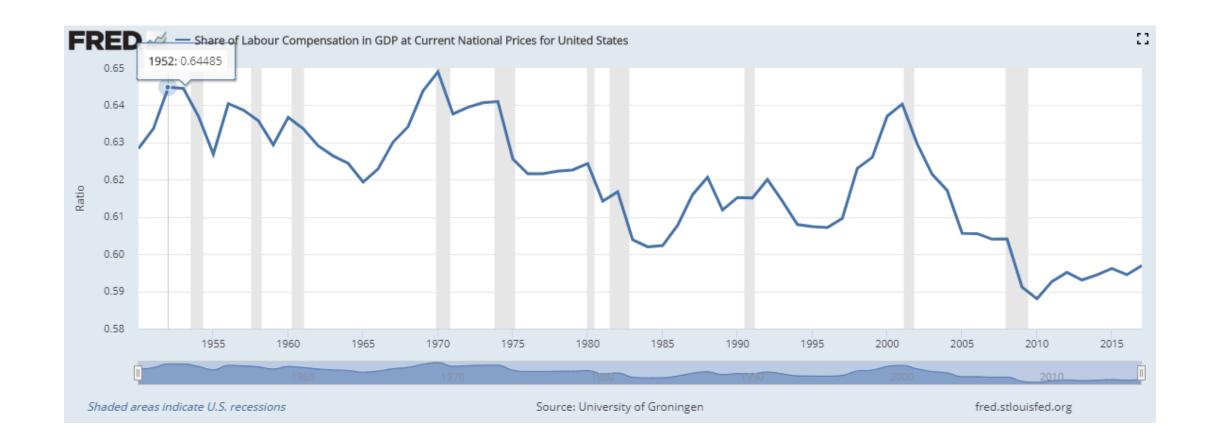
Jose Maria Barrero, Nick Bloom and Steven J. Davis

5 May 2020

Abstract

Drawing on firm-level expectations at a one-year forecast horizon in the Survey of Business Uncertainty (SBU), we construct novel, forward-looking reallocation measures for jobs and sales. These measures rise sharply after February 2020, reaching rates in April that are 2.4 (3.9) times the pre-COVID average for jobs (sales). We also draw on special questions in the April SBU to quantify the near-term impact of the COVID-19 shock on business staffing. We find 3 new hires for every 10 layoffs caused by the shock and estimate that 42 percent of recent layoffs will result in permanent job loss. Our survey evidence aligns well with anecdotal evidence of large pandemic-induced demand increases at some firms, with contemporaneous evidence on gross business formation, and with a sharp pandemic-induced rise in equity return dispersion across firms. After developing the evidence, we consider implications of our evidence for the economic outlook and for policy responses to the pandemic. Unemployment benefit levels that exceed worker earnings, policies that subsidize employee retention, occupational licensing restrictions, and regulatory barriers to business formation will impede reallocation responses to the COVID-19 shock.

substitution

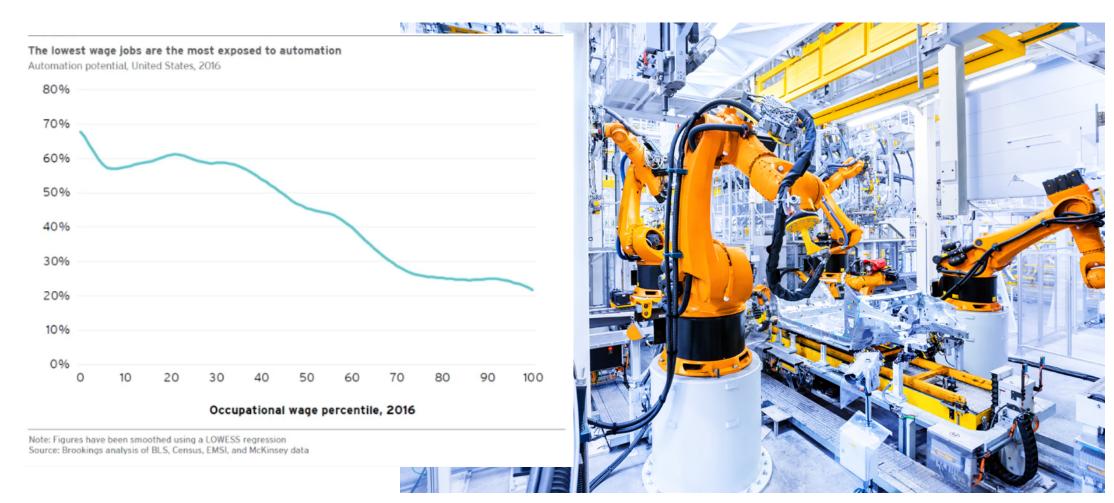


trend





acceleration



acceleration



at risk

Could a machine do your job?

Field Risk of automation

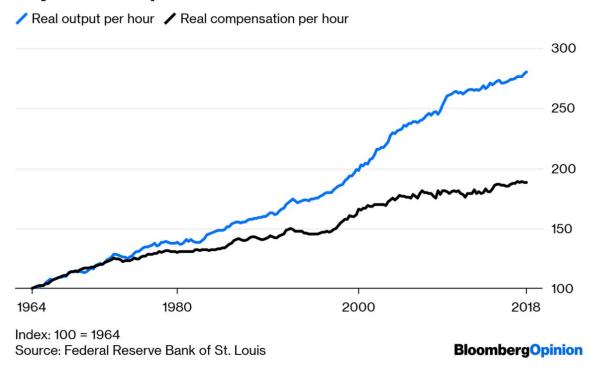
Food preparation and service	81%
Production operations	79%
Office and administrative support	60%
Farming/fishing and forestry	56%
Transportation and material moving	55%
Construction and extraction	50%
Installation/maintenance and repair	49%
Sales	43%
Healthcare support	40%
Legal	38%
Computer and math	37%
Protective services	36%

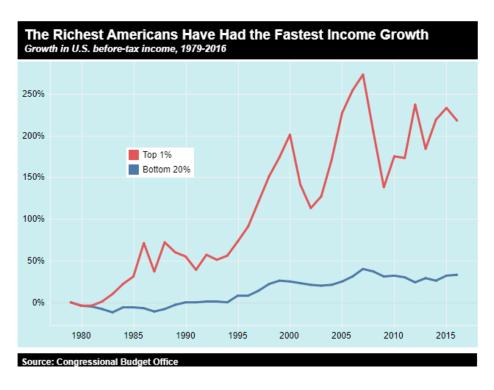
Legal	38%
Computer and math	37%
Protective services	36%
Personal care and service occupations	34%
Healthcare practitioners and technical jobs	33%
Life/physical and social science	32%
Management	23%
Community and social service	22%
Building and grounds cleaning	21%
Arts/design/entertainment/sports and media	20%
Architecture and engineering	19%
Education/training and library	18%
Business and financial operations	14%



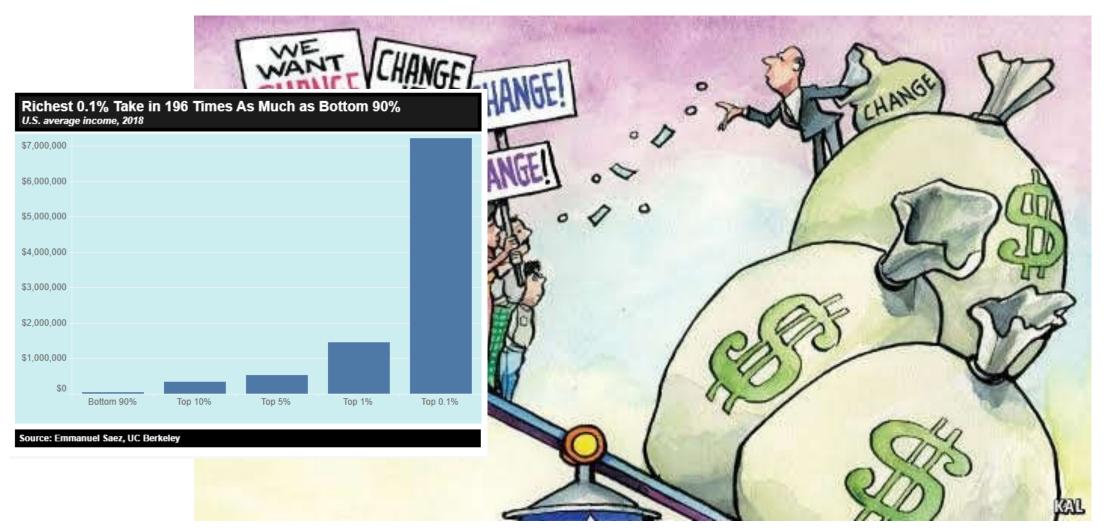
gap

Pay Hasn't Kept Pace

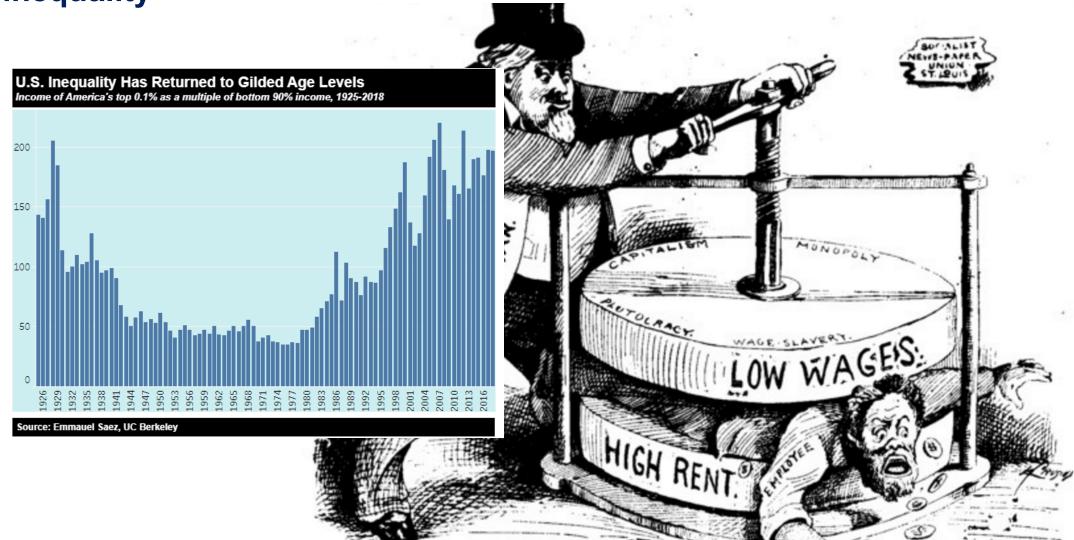




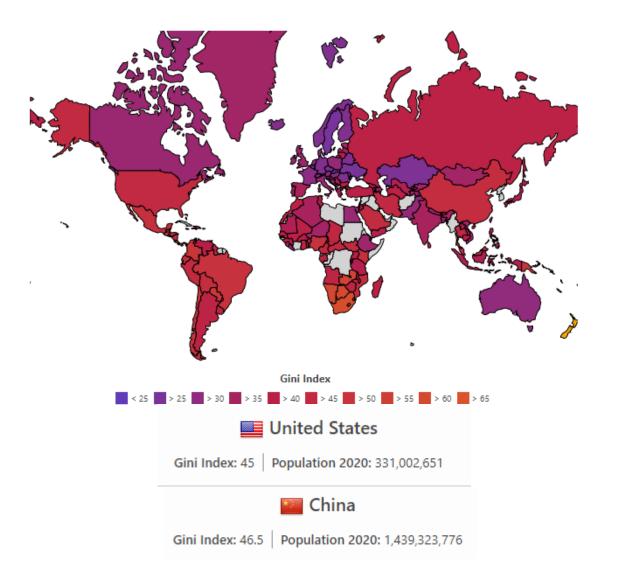
inequality



inequality

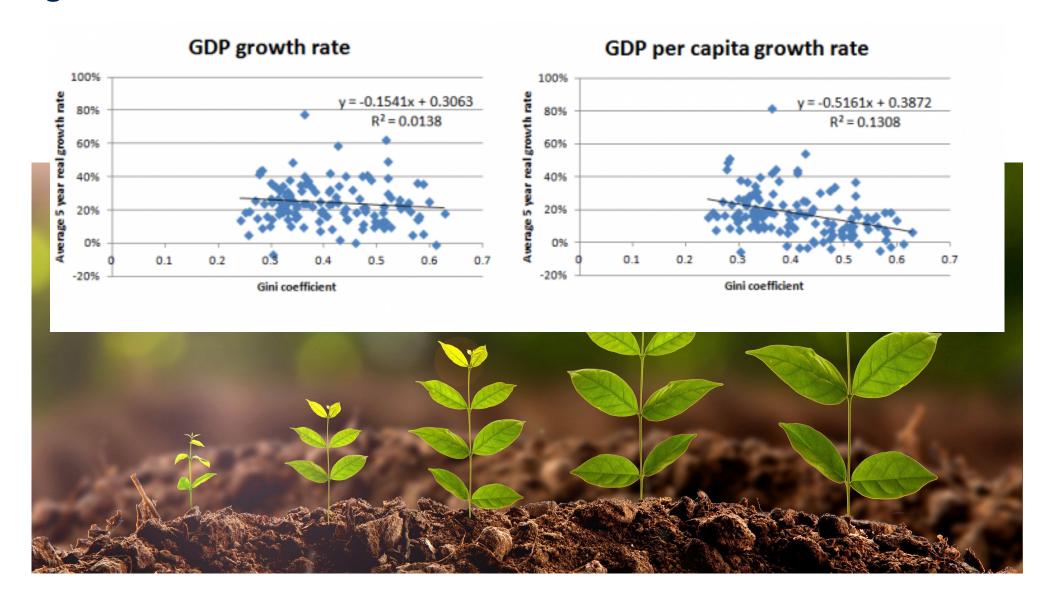


inequality



P Gini Coefficient By Country by Population 2020					
Flag	Country	Gini Index ▼	± CSV Population 2020	≛ JSON	
	Lesotho	63.2	2,142,249		
>=	South Africa	62.5	59,308,690		
В	Haiti	60.8	11,402,528		
	Botswana	60.5	2,351,627		
//	Namibia	59.7	2,540,905		
i	Zambia	57.5	18,383,955		
0	Comoros	55.9	869,601		
索	Hong Kong	53.9	7,496,981		
a	Guatemala	53	17,915,568		
0	Paraguay	51.7	7,132,538		
	Colombia	51.1	50,882,891		
	Papua New Guinea	50.9	8,947,024		
	Panama	50.7	4,314,767		
	Chile	50.5	19,116,201		
>	Swaziland	50.4	1,160,164		
•	Rwanda	50.4	12,952,218		
>	Brazil	49	212,559,417		
	Nigeria	48.8	206,139,589		
= =	Kenya	48.5	53,771,296		
	Costa Rica	48.5	5,094,118		
٠	Mexico	48.2	128,932,753		
×	Nicaragua	47.1	6,624,554		

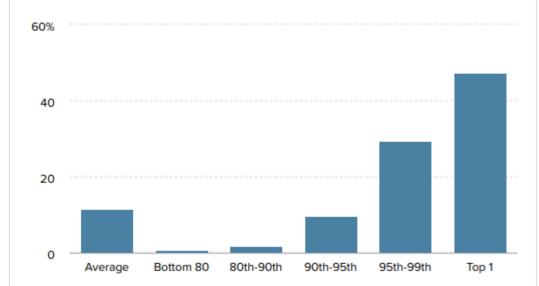
stagnation



demand gap

Higher-income households have much higher savings rates

Savings as share of income by income percentiles, 1989-2013 averages



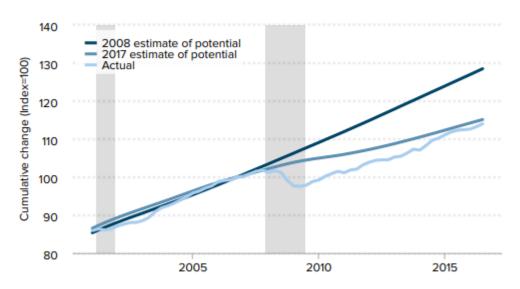
Notes: Construction of the data is described in the appendix.

Source: Author's analysis of data from the Federal Reserve Board's Survey of Consumer Finances (SCF), the Federal Reserve Board's Financial Accounts of the United States (FAUS), and Congressional Budget Office data on household income and effective tax rates (CBO 2016)

Economic Policy Institute

Lagging demand from Great Recession has also hurt economy's potential growth

Actual GDP and estimates of potential GDP, 2001-2016Q3



Note: Shaded areas denote recession. Measures of potential output are from the 2008 and 2017 editions of the CBO Budget and Economic Outlook.

Source: Author's analysis of data from BEA NIPA Table 1.1.6 and the Congressional Budget Office (on gross domestic product)

Economic Policy Institute

us recovery

Daily Treasury Yield Curve Rates

M Get updates to this content.

These data are also available in XML format by clicking on the XML icon.

The schema for the XML is available in XSD format by clicking on the XSD icon.

If you are having trouble viewing the above XML in your browser, click here.

To access interest rate data in the legacy XML format and the corresponding XSD schema, click here.

Select type of Interest Rate Data

Daily Treasury Yield Curve Rates

▼ Go

Select Time Period

Current Month

▼ Go

Date	1 Mo	2 Mo	3 Mo	6 Mo	1 Yr	2 Yr (3 Yr	5 Yr	7 Yr	10 Yr	20 Yr	30 Yr
05/01/20	0.10	0.11	0.12	0.12	0.17	0.20	0.25	0.36	0.53	0.64	1.04	1.27
05/04/20	0.10	0.10	0.13	0.14	0.16	0.19	0.24	0.36	0.52	0.64	1.05	1.29
05/05/20	0.09	0.11	0.13	0.15	0.16	0.19	0.24	0.36	0.53	0.66	1.07	1.32
05/06/20	0.08	0.10	0.12	0.16	0.16	0.17	0.24	0.37	0.57	0.72	1.16	1.41
05/07/20	0.10	0.11	0.11	0.14	0.15	0.13	0.19	0.29	0.49	0.63	1.05	1.31
05/08/20	0.10	0.11	0.12	0.15	0.15	0.16	0.21	0.33	0.53	0.69	1.12	1.39
05/11/20	0.09	0.11	0.12	0.16	0.16	0.17	0.24	0.36	0.56	0.73	1.16	1.43
05/12/20	0.10	0.11	0.13	0.16	0.16	0.17	0.22	0.34	0.53	0.69	1.11	1.38
05/13/20	0.10	0.10	0.13	0.15	0.15	0.16	0.20	0.31	0.50	0.64	1.07	1.35
05/14/20	0.09	0.10	0.12	0.15	0.15	0.16	0.20	0.31	0.48	0.63	1.03	1.30
05/15/20	0.09	0.09	0.12	0.15	0.15	0.16	0.19	0.31	0.49	0.64	1.05	1.32
05/18/20	0.10	0.11	0.13	0.15	0.17	0.18	0.24	0.38	0.57	0.73	1.17	1.44
05/19/20	0.09	0.11	0.13	0.15	0.16	0.17	0.22	0.35	0.54	0.70	1.15	1.43



Tuesday May 19, 2020

