OUTLINE — October 16, 2019

- Labor Market (most of this is left to Chap. 9)
- Income & Wealth Distribution
 - Tax Policy
- Overview of Macro

PS3 due Gradescope & bcourses, Thurs 10/24 8 pm

Perfect Competition & Income

- In perfect competition, worker income depends upon "marginal revenue product" (MRP)
 - MRP = increase in total revenue from hiring 1 more worker
 - Depends upon [1] marginal product (= marginal return) and [2] price of output
 - Assumes perfect competition <u>in market for labor</u>
 - · Lots of workers, all exactly the same,
 - · So, no discrimination (legal or illegal) by employers
 - · Lots of employers, none with large share of market
 - · No barriers to entry or exit

Perfect Competition Income Distribution Explanations Macro Overview

Policy Implications

- If assumptions of perfect competition are satisfied. . .
 - Resulting distribution of income reflects
 - Worker skills & talents
 - · Output price
 - Policy implication: no market intervention called for
- But are the assumptions of perfect competition applicable to markets for labor?
 - Hardly

Perfect Competition Income Distribution Explanations Macro Overview

Distribution of Income

Divide population into fifths:



• Gini Coefficient: A measure of evenness of distribution

Gini = 0 means perfectly **equal** distribution

Gini = 1 means perfectly <u>un</u>equal distribution

Perfect Compatition Income Distribution Europeaniese Massa Quanting

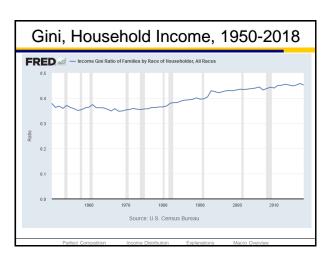
Choose a Country to Live In: You don't know what income group you'll be in. You have a 20% chance of being in the richest 20%, a 20% change of being in the poorest 20%, an 0.1% chance of being in the top 0.1%, and so on.

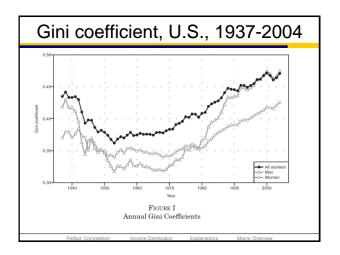
	Α	В	С	D	E		
Income per person per year							
In top 0.1%	\$1,122,000	\$404,000	\$424,000	\$459,000	\$379,000		
In top 20%	\$47,300	\$27,900	\$28,600	\$31,100	\$13,400		
Mean	\$20,400	\$16,200	\$16,000	\$15,800	\$4,200		
In bottom 20%	\$5,300	\$7,800	\$8,500	\$5,900	\$500		
Life expectancy from birth	77 yrs	75.5 yrs	80.5 yrs	79 yrs	67 yrs		
Deaths before age 5 (per 1,000 newborns)	8	6	5	7	40		
Gini coefficient of income inequality	0.408	0.247	0.249	0.315	0.600		
Perfect C	ompetition	Income Distribution	Explanations	Macro Overview			

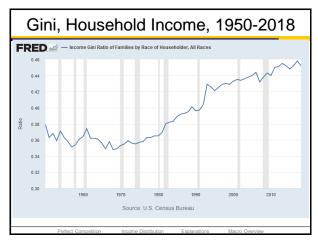
	Lowest 20%	Second 20%	Third 20%	Fourth 20%	Top 20%
If even distribution	20%	20%	20%	20%	20%
Actual share in 2018					
Dollar cut- offs (rounded)					
Source: https://	www.census.gov	/library/publication	ns/2019/demo/p	60-266.html , Tal	oles A-3 & A-
"income" is mo	ney income <u>be</u>	fore taxes & tra	nsfers		

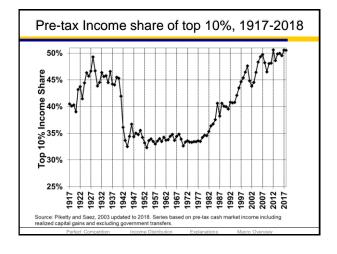
Gini for U.S. Income Increasing

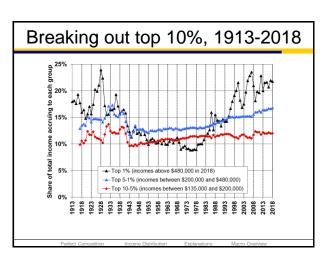
Gini coefficient, household income
1970
1990
2000
2018
Source:
https://www.census.gov/library/publications/2019/demo/p60-266.html. Table A-3

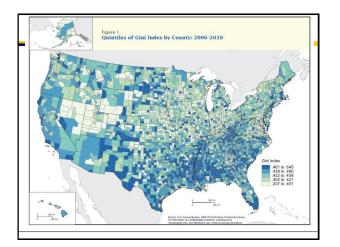


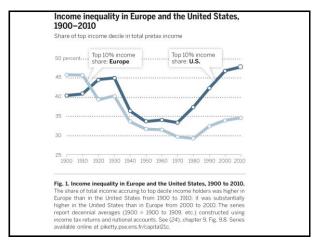


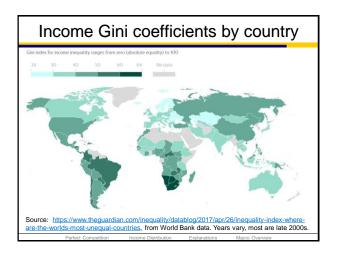


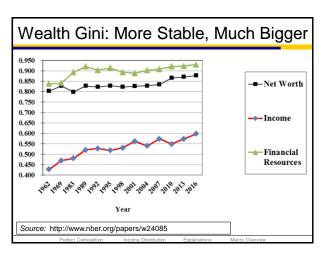










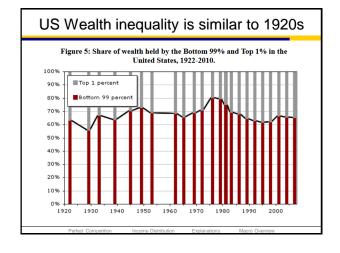


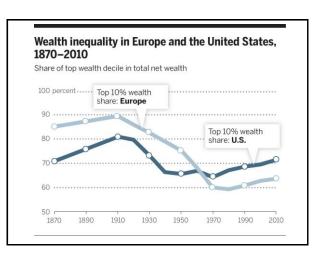
Wealth Inequality in U.S. Net Worth (000s, 2016 \$) Median 57 80 100 78 313 515 Mean 214 668 % with NW ≤ 0 21 Financial Resources (primarily excludes home) 31 15 15 Mean 170 227 405 542 % with NW ≤ 0 26 26 26 30

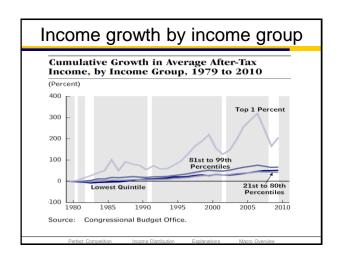
Distribution of Wealth in the U.S.

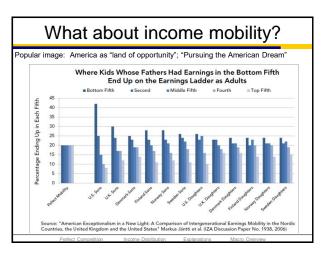
- What <u>share</u> of total wealth was owned by each of the three groups in 2016?
 - Top 1% own 40% of total wealth
 - Next 19% own 50% of total wealth
 - Bottom 80% own 10% of total wealth
- How much wealth did they have?
 - Mean \$ amount
 - Families in top 1% have average \$26.4 million of total wealth
 - Families in next 4% have average \$4.5 million of total wealth
 - Families in bottom 40% have average net worth < 0 (\$9,000)

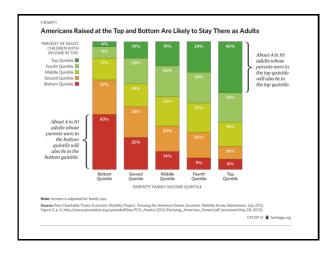
Perfect Competition Income Distribution Explanations Macro Overview

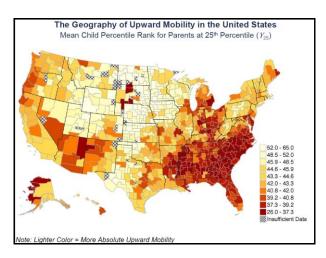












Why the rise in income for top 1%

- Increased labor income
 - "Superstars" reach wider audiences due to technological changes in mass media
 - Very large pay increases for CEOs
 - In finance, deregulation and compensation for IPO risk

Desfect Competition Income Distribution Euplemations Masso Overview

Why the rise in income for top 1%

- Increased labor income
- Changes in government taxes and transfers
 - Overall, taxes and transfers lower Gini coefficient
 - But today, less equalizing than 30 years ago
 - Transfers through Medicare (health care, age 65+) benefit all
 - · Less generous transfers to low-income households
 - · Taxes have become less progressive
 - · Shift from income to payroll taxes

Perfect Competition Income Distribution Explanations Macro Overview

US Tax Policy

https://twitter.com/gabriel_zucman/status/1181169045694869504

Perfect Competition Income Distribution Explanations Macro Overview

Explaining Distribution of Wealth

- Area of ongoing research
- Distribution reflects
 - [1] Additions to wealth (saving out of income)
 - The higher a family's income, the more likely they are to save
 - [2] Rate of return on wealth
 - $\bullet\,$ The higher a family's wealth, the higher their average rate of return

Desfect Computition Income Distribution Evaluations Means Overview

Does cutting top-tier taxes spur growth?

- Apparently not
- Reduction in top tier tax rates
 - Little effect on saving, investment, or productivity growth
 - Does increase income inequality
 - Source: Congressional Research Service, report 9/14/12
- Cutting taxes
 - Lower 90% will increase spending → creates jobs
 - Top 10% *shift* spending, don't *increase* spending → no net job creation
 - Source: Owen Zidar (UC Berkeley Ph.D., Chicago Business School faculty)

Perfect Competition Income Distribution Explanations Macro Overview

Does distribution matter?

- Are there effects of an uneven distribution of income?
- Perhaps . . . But it's a relatively new area of research
 - Income mobility easier when more even income distribution
 - Distribution of fiscal stimulus may matter
 - How much of a tax cut do people spend?
 - Monetary policy impacts vary with income class
 - Political implications (beyond Econ 1 scope)
 - · How well democracy functions
 - Ease of implementing change desired by (lower income) majority?
 - Sociological implications (also beyond our scope)
 - How well do groups interact when there are big disparities?
 - · Social cohesion (cf, impact of disparities in SF housing crisis)

Desfert Commetties Income Distribution Europeations Means Oversions

Redistribution Debate

- How evaluate arguments?
- Depends on
 - your goals
 - assumptions about source of differences

Macroeconomics

- The economy as a whole
- Three main topics
 - (Long-run) Economic Growth
 - Unemployment
 - Inflation

Perfect Competition Income Distribution Explanations Macro Overview

Wrapping up Micro Overview of Macro Measures of Macroeconomy Macro Model

New meanings of "short" & "long"

- In micro, precise definitions
 - Short run = so short that the firm can't change amount of capital (K)
 - Long run = long enough that the firm can exit or enter or change K
- In macro, not-so-precise
 - Long run = decade-to-decade (10 years)
 OR generation-to-generation (20-25 years)
 - Short run = a couple of years or so, maybe more

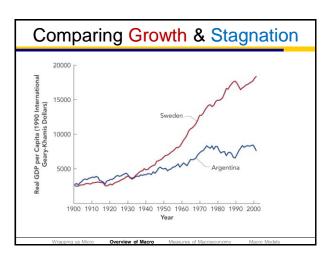
Wrapping up Micro Overview of Macro Measures of Macroeconomy Macro Models

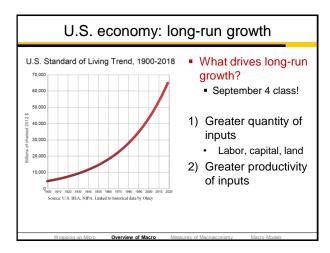
Total Output (GDP)

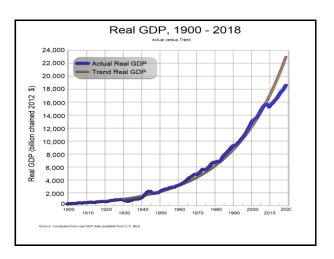
- Gross Domestic Product (GDP)
 - Estimate of \$ value of total amount of goods and services produced in any economy in a year
- Nominal versus Real
- Potential versus Actual
- Per capita

Wrapping up Micro Overview of Macro Measures of Macroeconomy Macro Models

Growth, Stagnation, or Decline







Various definitions of "growth" "Economic growth" can mean . . . ". . . Long-run increases in potential GDP ". . . Long-run increases in actual GDP ". . . Short-run increases in actual GDP Therefore: Context matters . . . A lot.

