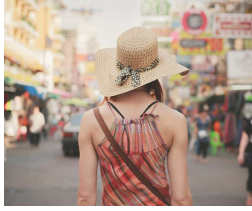


N. GREGORY MANKIW NINTH EDITION

PRINCIPLES OF
ECONOMICS



CHAPTER
20

**Income Inequality
and Poverty**

Interactive PowerPoint Slides by:
V. Andreea Chirftescu
Eastern Illinois University

Modified by Joseph Tao-yi Wang

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IN THIS CHAPTER

- How much inequality and poverty exist in our society?
- What are the problems measuring inequality?
- What are some of the leading philosophies on the proper role of government in altering the distribution of income?
- What policies are used to fight poverty? What are the problems with these policies?

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Review

- **Market economies**
 - Usually achieve greater prosperity
 - But prosperity is not shared equally
- **A person's earnings depend on**
 - Supply and demand for that person's labor
 - Natural ability
 - Human capital
 - Compensating differentials
 - Discrimination, and so on

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Income Distribution

- **Labor earnings make up about two-thirds of the total income in the U.S. economy**
 - The factors that influence wages also largely determine the distribution of the economy's total income
 - Determine who is rich and who is poor
- **Resource allocation in free markets**
 - Is efficient but not necessarily fair
- **The government**
 - Should redistribute income for greater equality

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Measuring Inequality

- **Four questions of measurement:**
 - How much inequality is there in our society?
 - How many people live in poverty?
 - What problems arise in measuring the amount of inequality?
 - How often do people move between income classes?

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The U.S. Income distribution: 2017

Group	Annual household income
Bottom quintile	Under \$24,827
Second quintile	\$24,827 – \$47,218
Middle quintile	\$47,218 – \$77,158
Fourth quintile	\$77,158 – \$126,605
Top quintile	\$126,605 and over
Top 5 percent	\$244,088 and over

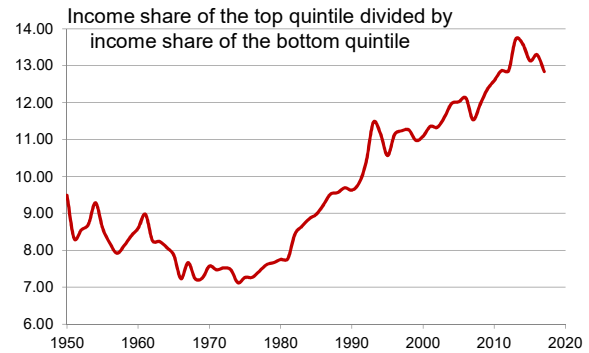
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Inequality Measure

- **Inequality measure: quintile ratio**
 - Income received by the richest quintile of the population divided by the income of the poorest quintile
- **Degree of inequality**
 - Varies substantially over time
 - Varies substantially around the world

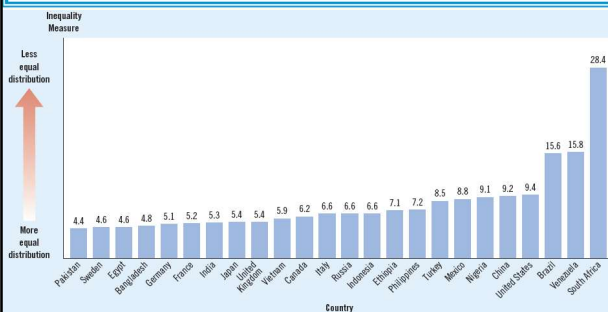
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U.S. income inequality, 1950–2017



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Inequality around the world, 2018



Income share of the top quintile divided by income share of the bottom quintile

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Poverty

- **Poverty rate**
 - Percentage of the population whose family income falls below an absolute level (poverty line)
- **Poverty line**
 - Set by the federal government (three times cost of providing an adequate diet)
 - Depends on family size
 - Adjusted every year to account for changes in the level of prices

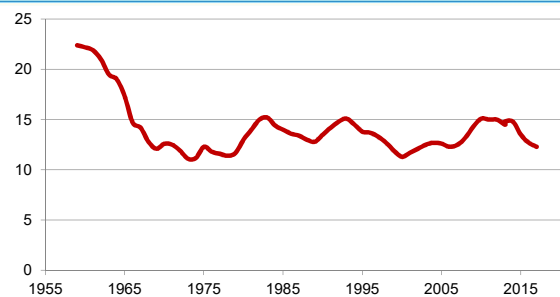
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Poverty in the U.S.

- **In 2017 in the U.S.,**
 - Median family income = \$75,938
 - Poverty line for family of four = \$24,858
 - Poverty rate = 12.3%
 - 39.7 million people living in poverty

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U.S. Poverty over time, 1959-2017



Percent of the population below poverty line

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Who Is Poor?

- **Poverty is correlated with race:**
 - Blacks and Hispanics are more than twice as likely to live in poverty as whites
- **Poverty is correlated with age:**
 - Children are more likely than average to be members of poor families
 - Elderly are less likely than average to be poor
- **Poverty is correlated with family composition**
 - Families headed by a single mother are about five times as likely to live in poverty as families headed by a married couple

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U.S. Poverty rate by group, 2017

Group	Poverty Rate
All persons	12.3%
White, not Hispanic	8.7
Black	21.2
Hispanic	18.3
Asian	10.0
Children (under age 18)	17.5
Elderly	9.2
Married-couple families	4.9
Female household, no husband present	25.7

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Problems in Measuring Inequality – 1

- **Data on income distribution & poverty rate**
 - Give us some idea about the degree of inequality in our society
 - Based on annual incomes families earn
 - Incomplete picture of inequality
- 1. **In-kind transfers and tax credits**
 - Transfers to the poor in the form of goods and services rather than cash
 - Tax credits aimed at helping the poor

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Problems in Measuring Inequality – 2

- 2. **The economic life cycle**
 - Causes inequality in the distribution of annual income
 - May not represent true inequality in living standards
 - Life cycle: regular pattern of income variation over a person's life
 - People can borrow and save to offset life-cycle changes in income (e.g., saving for retirement).

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Problems in Measuring Inequality – 3

- 3. **Transitory vs. permanent income**
 - Transitory changes - need not affect standard of living
 - A family's ability to buy goods and services depends largely on its permanent income
 - Permanent income: a person's normal income

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Economic Mobility

- **Economic mobility**
 - Many people move among income classes
 - Some reflects transitory variation in income, others more persistent changes in income
 - Many of those below the poverty line are there only temporarily
 - Temporary poverty is more common than the poverty rate suggests, but persistent poverty is less common
 - Persistence of economic success from generation to generation

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Political Philosophy

What should the government do about economic inequality?

- Political philosophies of redistributing income
 - Utilitarianism
 - Liberalism
 - Libertarianism

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Utilitarianism – 1

- **Utility:**
 - A measure of happiness or satisfaction
- **Utilitarianism:**
 - Government should choose policies to maximize society's total utility
- **Diminishing marginal utility**
 - As a person's income rises, the extra well-being derived from an additional dollar of income falls

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Utilitarianism – 2

- **Because of diminishing marginal utility**
 - Redistributing income from rich to poor increases utility of the poor more than it reduces utility of the rich.
- **Yet, utilitarians do not advocate equalizing incomes**
 - Would reduce total income of everyone due to incentive effects and efficiency losses.

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Liberalism – 1

- **Liberalism:**
 - Government should choose policies deemed to be just by an impartial observer behind a "veil of ignorance."
- **Maximin criterion:**
 - Government should aim to maximize the well-being of society's worst-off person

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Liberalism – 2

- **Liberalism:**
 - Calls for more redistribution than utilitarianism (though still not complete equalization of incomes).
 - Income redistribution is a form of social insurance, a government policy aimed at protecting people against the risk of adverse events.

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Libertarianism

- **Libertarianism:**
 - Government should punish crimes and enforce voluntary agreements but not redistribute income
- **Libertarians focus on the process not outcome:**
 - Government should enforce individual rights, should try to equalize opportunities.
 - If the income distribution is achieved fairly, government should not interfere, even if unequal

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Policies to Reduce Poverty

- **Poor families more likely to**
 - Experience: homelessness, drug dependence, health problems, teenage pregnancy, illiteracy, unemployment, and low educational attainment.
 - Commit crimes and to be victims of crimes
- **Most people believe government should provide a “safety net.”**
- **We now consider a few such policies...**

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1. Minimum-Wage Laws

- **Arguments for:**
 - Helps the poor without any cost to government
 - Little impact on employment if demand for unskilled labor is relatively inelastic.
- **Arguments against:**
 - In the long run, demand for unskilled labor is likely elastic, so minimum wage causes substantial unemployment among the unskilled.
 - Those helped by minimum wage are more likely to be teens from middle-income families than low-income adult workers.

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2. Welfare

- **Welfare: government programs that supplement the incomes of the needy**
 - Temporary Assistance for Needy Families (TANF): assists families with children and no adult able to support the family
 - Supplemental Security Income (SSI): provides assistance to the poor who are sick or disabled

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2. Welfare: Critics vs. Proponents

- **Critics:**
 - Programs create incentives to become “needy”
 - Contributed to the rise of single-parent family
 - However, the severity of such incentive problems is unknown.
- **Proponents:**
 - Being a poor, single mother on welfare is a difficult existence at best
 - Inflation-adjusted welfare benefits fell as single-parent families increased.

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3. Negative Income Tax

- **Negative income tax: Universal basic income**
 - A tax system that collects revenue from high-income households
 - And gives subsidies to low-income households
- **The Earned Income Tax Credit (EITC)**
 - Applies only to the working poor
 - It doesn't discourage recipients from working
 - Doesn't help alleviate poverty due to unemployment, sickness, or other inability to work

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EXAMPLE 1: Universal Basic Income (UBI)

- Assume the government uses the following formula to compute a family's tax liability:
Taxes owed = (1/4 of income) – \$20,000
- Calculate the tax liability:

Family's earned income	Calculations	Taxes to pay
\$160,000	$160,000/4 - 20,000 =$	\$20,000
\$80,000	$80,000/4 - 20,000 =$	\$0
\$40,000	$40,000/4 - 20,000 =$	-\$10,000
\$0	$0/4 - 20,000 =$	-\$20,000

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4. In-Kind Transfers

- **In-kind transfers: goods or services provided to the needy**
 - Examples: homeless shelters, soup kitchens
 - Supplemental Nutrition Assistance Program (SNAP): Gives low-income families a plastic card that can be used to buy food at stores
 - Medicaid, government-provided healthcare for the poor
- **An alternative: cash payments**
 - People - buy what they most need; but critics argue could be used for drugs, alcohol

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Anti-Poverty Programs & Work Incentives – 1

- **Assistance from anti-poverty programs declines as income rises.**
 - The result: Poor families face high effective marginal tax rates (exceeding 100% in some cases!).
 - Such policies therefore discourage the poor from escaping poverty on their own.

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Anti-Poverty Programs & Work Incentives – 2

- **Reduce the work disincentive of antipoverty programs:**
 - Reduce benefits to poor families more gradually as their incomes rise
 - But it greatly increases the cost of programs to combat poverty
 - “Workfare” - system requiring people to accept government jobs while collecting benefits.
 - Provide benefits for only a limited period of time
 - 1996 welfare reform bill: 5-year lifetime limit

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THINK-PAIR-SHARE

Suppose a friend comments to you, “I think welfare recipients are simply lazy. I have a friend who receives Temporary Assistance for Needy Families and when she was offered a part-time job, she turned it down.”

- A. What happens to a welfare recipient's benefits if they increase their earnings?
- B. What is the effective tax rate on their additional income if they were to lose \$1 in benefits for each dollar of additional income?
- C. How does this system affect a welfare recipient's incentive to work? Are welfare recipients necessarily lazy if they turn down part-time jobs?

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CHAPTER IN A NUTSHELL

- Data on the distribution of income: wide disparity in U.S. society. The richest fifth of families earns more than twelve times as much income as the poorest fifth.
- Important for understanding variation in living standards: in-kind transfers, tax credits, the economic life cycle, transitory income, and economic mobility.
 - When taken into account: economic well-being is more equally distributed than annual income.

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CHAPTER IN A NUTSHELL

- Political philosophers:
 - Utilitarians: choose the distribution of income that maximizes the sum of utility of everyone in society.
 - Liberals: determine the distribution of income as if we were behind a “veil of ignorance” that prevented us from knowing our stations in life.
 - Libertarians: have the government enforce individual rights to ensure a fair process but then would not be concerned about inequality in the resulting distribution of income.

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CHAPTER IN A NUTSHELL

- Various policies aim to help the poor
 - Minimum-wage laws, welfare, negative income taxes, and in-kind transfers.
 - Help alleviate poverty
 - Have unintended side effects: because financial assistance declines as income rises, the poor often face very high effective marginal tax rates, which discourage poor families from escaping poverty on their own.

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Chap 20: Income Inequality and Poverty

- ▶ Income Inequality
- ▶ Utilitarianism, Liberalism, Libertarianism
- ▶ Anti-poverty Policies
 - ▶ Minimum-Wages
 - ▶ Welfare: TANF, SSI
 - ▶ Negative Income Tax: UBI vs. EITC
 - ▶ In-kind Transfers: SNAP, Medicaid
- ▶ Homework: Mankiw, Ch.20, Problem 3-4, 7-8
- ▶ Challenge Questions (Past Finals): TBA

2020/12/6

Monopolistic Competition

Joseph Tao-yi Wang