Studying
Social Inequality
with Data Science

INFO 3370 / 5371 Spring 2024

Welcome!

Lecture today draws on Jencks (2002). After class,

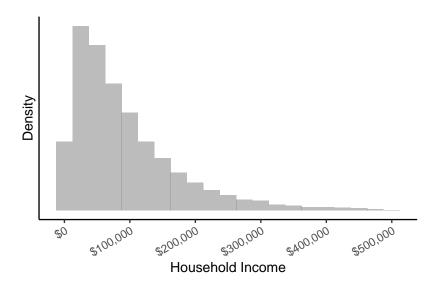
- read p. 49–53
- complete the very brief Problem Set 0 by Wednesday 5pm

Quantitative evidence about

inequality

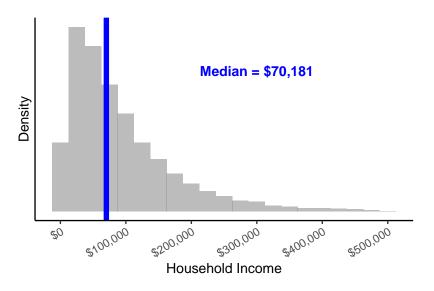
U.S. Household Income Distribution

2022 Annual Social and Economic Supplement to the Current Population Survey



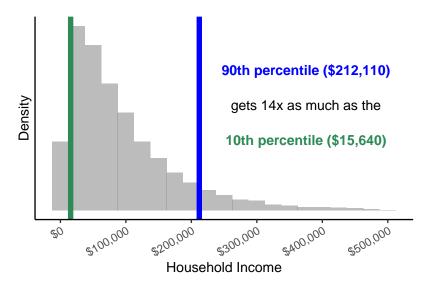
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U.S. Household Income Distribution

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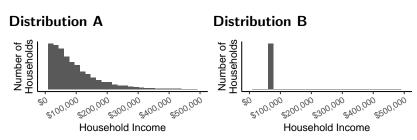


Normative arguments about

inequality

Activity. Which income distribution would you prefer? Why?

QR HERE



U.S. 2022 distribution

Everyone gets \$70,181



The Israelites Collecting Manna from Heaven Austria About 1400–1410

 $\begin{array}{c} \text{Unknown artist} \\ \text{Getty Open Content Program} \\ \text{getty.edu/art/collection/object/105T6R} \end{array}$



Manna drops from heaven

The Israelites Collecting Manna from Heaven Austria About 1400–1410

Unknown artist Getty Open Content Program getty.edu/art/collection/object/105T6R



Manna drops from heaven

First pound is more helpful than the second

The Israelites Collecting Manna from Heaven Austria About 1400–1410

Unknown artist Getty Open Content Program getty.edu/art/collection/object/105T6R



Manna drops from heaven

First pound is more helpful than the second How should we distribute the manna?

The Israelites Collecting Manna from Heaven Austria About 1400–1410

 $\begin{array}{c} \text{Unknown artist} \\ \text{Getty Open Content Program} \\ \text{getty.edu/art/collection/object/105T6R} \end{array}$



Manna drops from heaven
People work for manna
First pound is more
helpful than the second
How should we distribute
the manna?

The Israelites Collecting Manna from Heaven Austria About 1400–1410

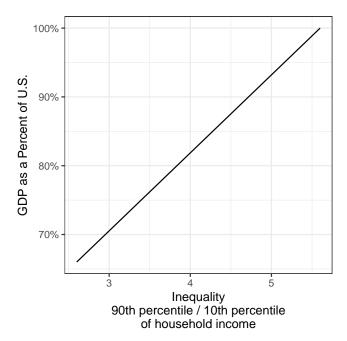
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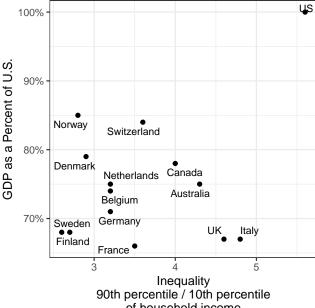
An argument for allowing inequality

1. unequal rewards motivate work and innovation 2. work and innovation make everyone better off

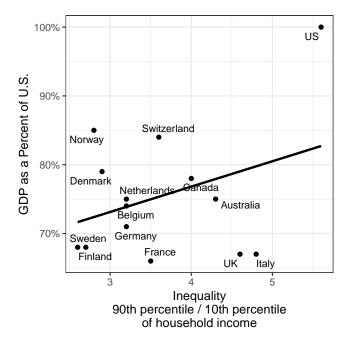
Thus inequality makes us all better off

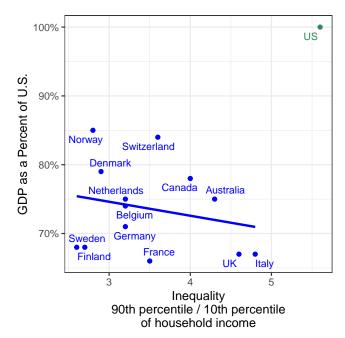
Empirical question. Do unequal places have higher well-being?





of household income





An argument for allowing inequality

Thus inequality makes us all better off

1. unequal rewards motivate work and innovation

2. work and innovation make everyone better off

Empirical question. Do unequal places have higher well-being? **Empirical answer.** Not really.

Goals of the course

- visualize economic inequality with graphs that summarize survey data
- connect theories about inequality to quantitative empirical evidence
- evaluate interventions to reduce inequality
- conduct data analysis using the R programming language

Plan for the course

info3370.github.io