Facing the Challenges of the 21st Century – the future for economics (and business) education

Wendy Carlin University College London, CEPR, and CORE

Symposium
Challenges in University Education in the
Fields of Economics and Business
Faculty of Economics and Business,
University of Barcelona



Agenda

Note – my remarks focus on economics education, including the economics content of business degrees

- What challenges? Demands for change in economics education from the public, employers, students – conflicting or complementary?
- 2. An international project to meet the challenge
- 3. New content the problems have changed, economics has changed, economics education needs to change
- 4. New pedagogy from complex problems to economic models teaching and learning the benefits of abstraction
- New skills data handling, coding, visualization, interpretation, communication

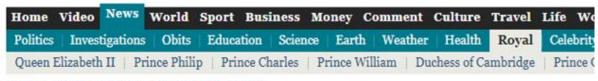
Agenda

1. What challenges? Demands for change in economics education from the public, employers, students – conflicting or complementary?

The public

The global financial crisis - Economists in the doghouse

The Telegraph



HOME > NEWS > UK NEWS > THE ROYAL FAMILY

The Queen asks why no one saw the credit crunch coming

The Queen, whose personal fortune is estimated to have fallen £25 million in the credit crunch, has demanded to know why no one saw the financial crisis coming.



The Queen and the Duke of Edinburgh at the opening of a new building at the London School of Economics Photo: PA

By Andrew Pierce 4:40PM GMT 05 Nov 2008

The Royal Family News » UK News » Financial Crisis »

In The Royal Family



Joining forces: Harry in the US



Surpassing Victoria: 33 fun facts



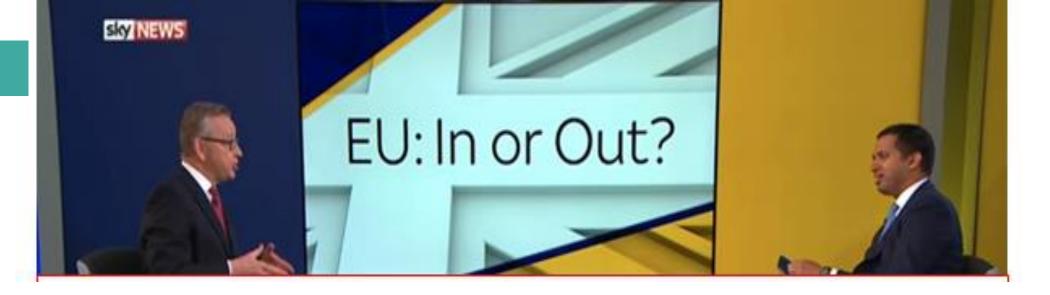
What's the point of economists? Robert Shiller

Why has the failure to foresee the financial crisis stoked so much anger against the profession, asks **Robert Shiller**



Nobel prize-winning economists warn of long-term damage after Brexit

The public



Michael Gove (Minister in Theresa May's government): "Britons have had enough of experts"

Commentary > Articles

Why Economists Failed as "Experts"—and How to Make Them Matter Again

By Martin Wolf

Employers

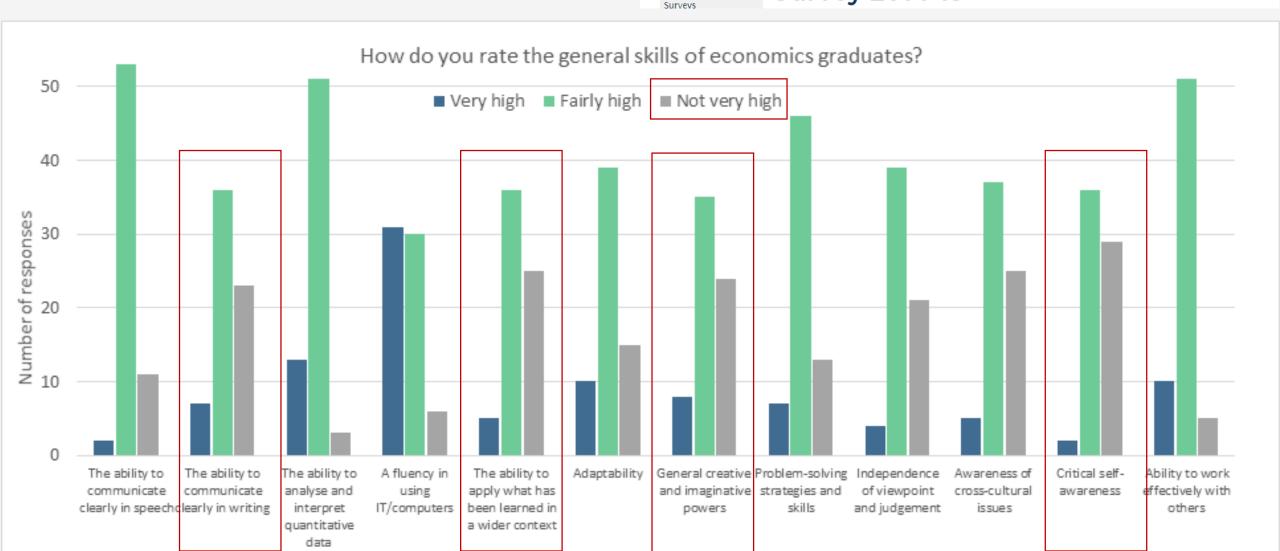
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Learning & Teaching



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EMPLOYERS

THE OPINION OF EMPLOYERS REGARDING THE EDUCATION RECEIVED BY GRADUATES OF ECONOMICS AND BUSINE

Ability to come up with and plan commercial actions	46.2
Ability to manage complexity and uncertainty	46.2

TTTTCOTT OAPTOOTOTT	20.1	2070	2070
Ability to offer new ideas and solutions	32.6	26%	35%
Responsibility at work	38.2	36%	39%
Autonomous work	43.8	44%	44%
Practical training	51.4	51%	51%
Problem solving and decision-making	56.3	62%	54%

What do beginning students of economics think economists should do?

What is the most pressing issue that economists today should address?



Agenda

- 1. What challenges? Demands for change in economics education from the public, employers, students conflicting or complementary?
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3. An international project to reform economics education

- New possibilities for rapid improvement in teaching and learning resources
- An example The CORE project digital-first & open access
- An international collaboration of researchers and educators from top universities
 - content, teaching and learning resources, translations



1600s and the 1700s in Britain.
Which of the following is true?

The flatter isocost line
HJ for 1600s Britain indicates
higher wages relative to the

core

Free online, go to www.core-econ.org





coreecon





Azim <u>Premii</u> University, Bangalore



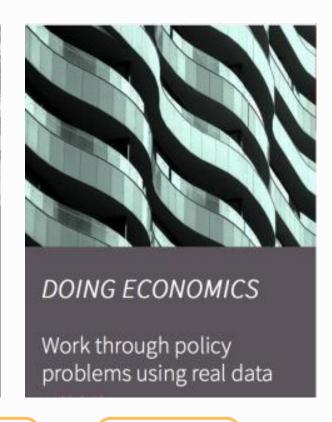
Antonio Cabrales CORE-UCL



Overview of CORE's resources







Teacher resources

Student resources

Non-specialists

Both

Specialists

The CORE team – authors : A global collaboration of researchers



Sciences Po, Paris



Wendy Carlin UCL



Daniel Hojman University of Chile



Tim Besley LSE



Diane Coyle University of Manchester



David Hope King's College London



Samuel Bowles Santa Fe Institute



Marion Dumas Santa Fe Institute; LSE



Arjun Jayadev Azim Premji University



Antonio Cabrales UCL



Georg von Graevenitz Queen Mary University of London



Suresh Naidu Columbia University



Juan Camilo Cárdenas Universidad de los Andes



Cameron Hepburn University of Oxford



Robin Naylor University of Warwick

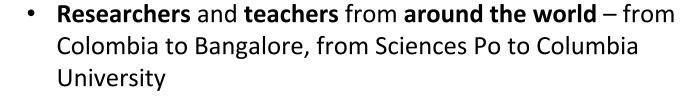
The CORE team – authors : A global collaboration of researchers



Kevin O'RourkeUniversity of Oxford



Begüm Özkaynak Boğaziçi University







Paul Segal King's College London

• Enabling them to engage in **evaluation and debates** on the pressing **public policy issues** of today



Malcolm Pemberton
UCL



Nicholas Rau UCL



Rajiv SethiBarnard College, Columbia University



Margaret Stevens
University of Oxford



Alex Teytelboym
University of Oxford

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3. The content – what should the introductory course accomplish?

Paul Samuelson *Economics* 1948 – the first modern economics textbook – written in the shadow of the Great Depression

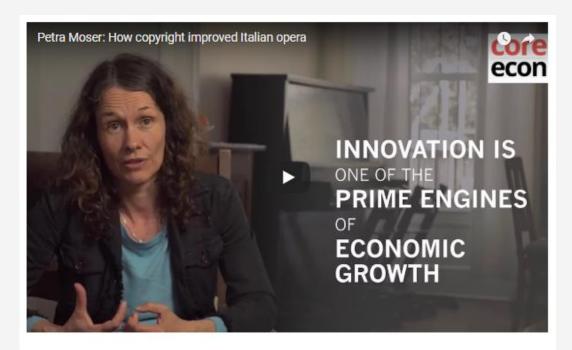
"aims at an understanding of the economic institutions and problems of American civilization in the middle of the twentieth century."

- The problem was unemployment
- The response was a teachable version of Keynes
- And bringing to the classroom the new 'big problem'-related research

Samuelson hoped by educating future policymakers and citizens, good policy would prevent another Depression

The CORE project responded to a new 'Samuelsonian moment' – the problems are different and so is the new economics (the best of contemporary research)

What do economists really do?



Petra Moser: How copyright improved Italian opera

EXERCISE 3.9 EFFECTIVE POLICYMAKING FOR INTELLECTUAL PROPERTY RIGHTS

Watch the 'Economist in action' video, in which Petra Moser discusses copyright protection for nineteenth-century Italian operas.

- 1. Outline Petra Moser's research question, and her approach to answering it.
- 2. What were Petra Moser's findings about patents and copyrights?
- 3. What factors should governments consider when deciding on the effective time period of IPR protection laws, such as patents and copyrights?

EXERCISE 17.9 BANKING REGULATIONS CAN HELP BRING ON FINANCIAL CRISES

An 'Economist in action' video shows Anat Admati, an economist, explaining the problems with the regulation of the banking system.



Anat Admati: What's wrong with banking (and what to do about it).

- 1. Using housing prices as an example, explain the upsides and downsides of leverage.
- 2. According to the video, what is the key difference between banks and other corporations, and why is this dangerous for the banking system?
- 3. What are some factors that contribute to the fragility and riskiness of the banking system, and how can we prevent future financial crises from occurring?



inequality



Petra Moser: How copyright improved Italian opera

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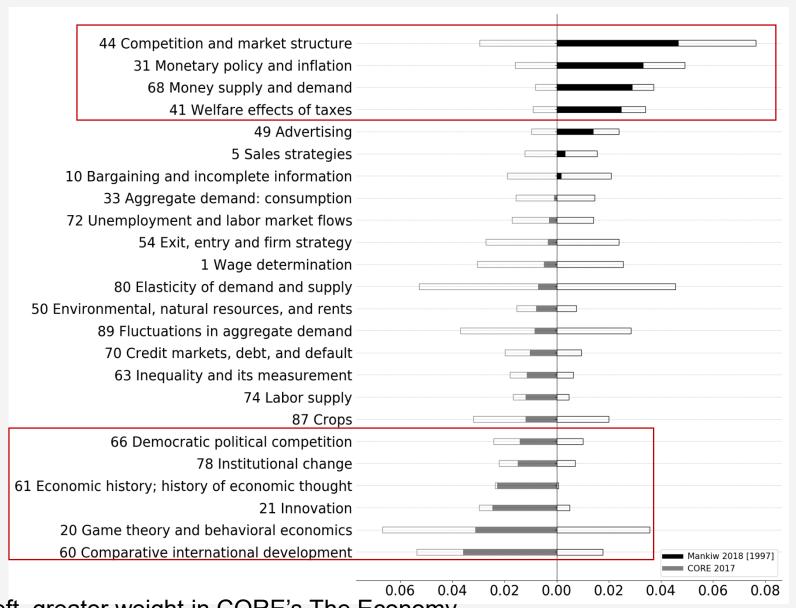


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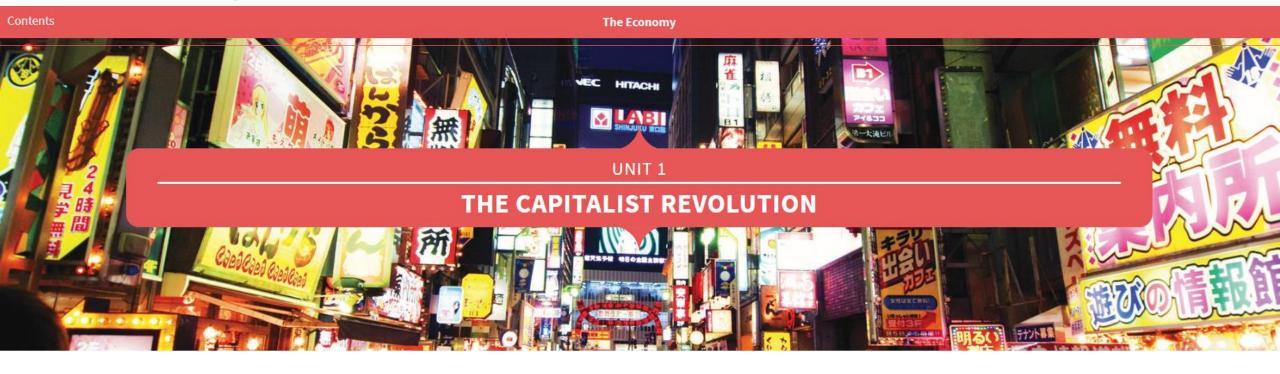
The modern texts – comparing CORE's *The Economy* with Mankiw

To the right, greater weight in Mankiw



To the left, greater weight in CORE's The Economy

Where to begin a course? 'Pizza and beer' or ...

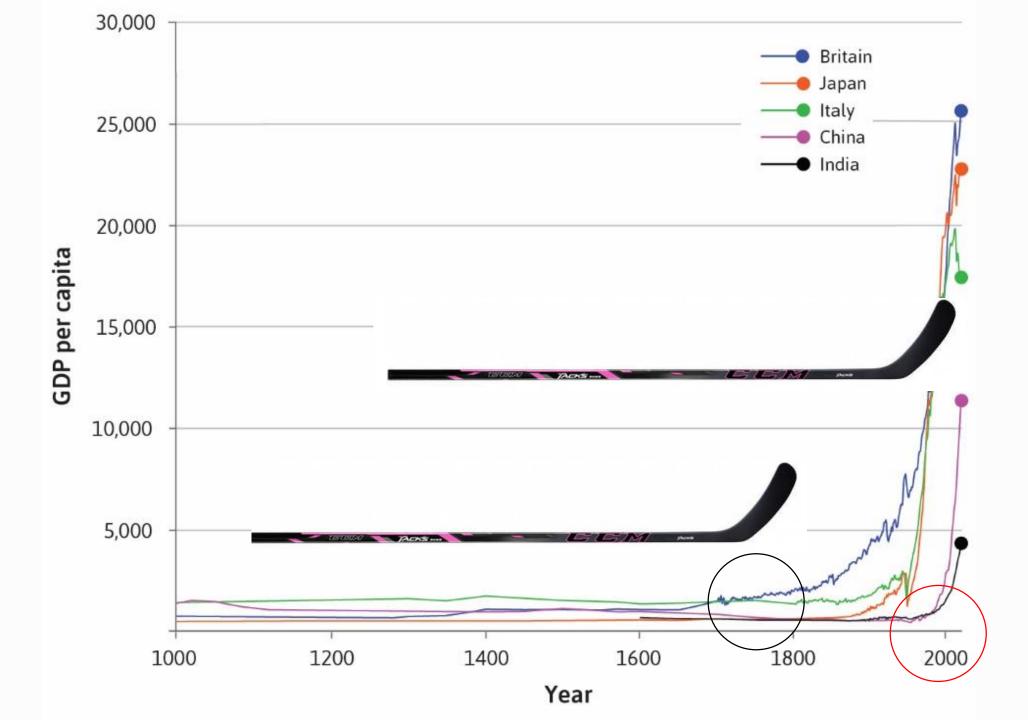


How capitalism revolutionized the way we live, and how economics attempts to understand this and other economic systems

- Since the 1700s, increases in average living standards became a permanent feature of economic life in many countries.
- This was associated with the emergence of a new economic system called capitalism, in which private property, markets and firms play a major role.

THEMES AND CAPSTONE UNITS

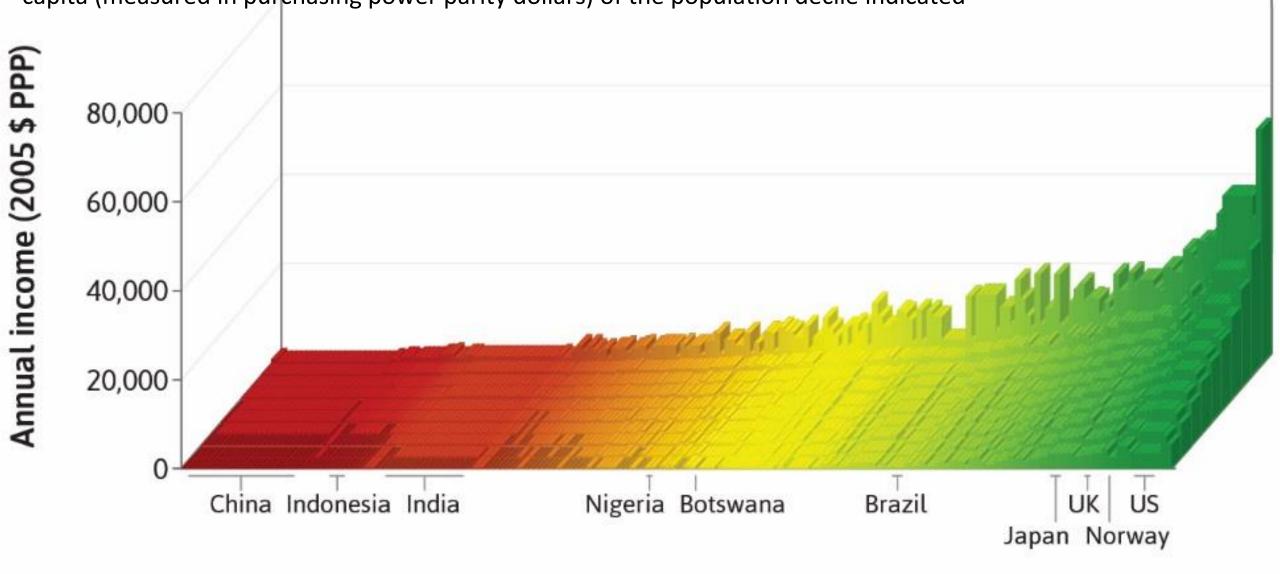
- History, instability, and growth
- Global economy
- Inequality
- Environment
- Innovation
- Politics and policy





The distribution of income in the world. Height of the bars is the gross domestic income per capita (measured in purchasing power parity dollars) of the population decile indicated

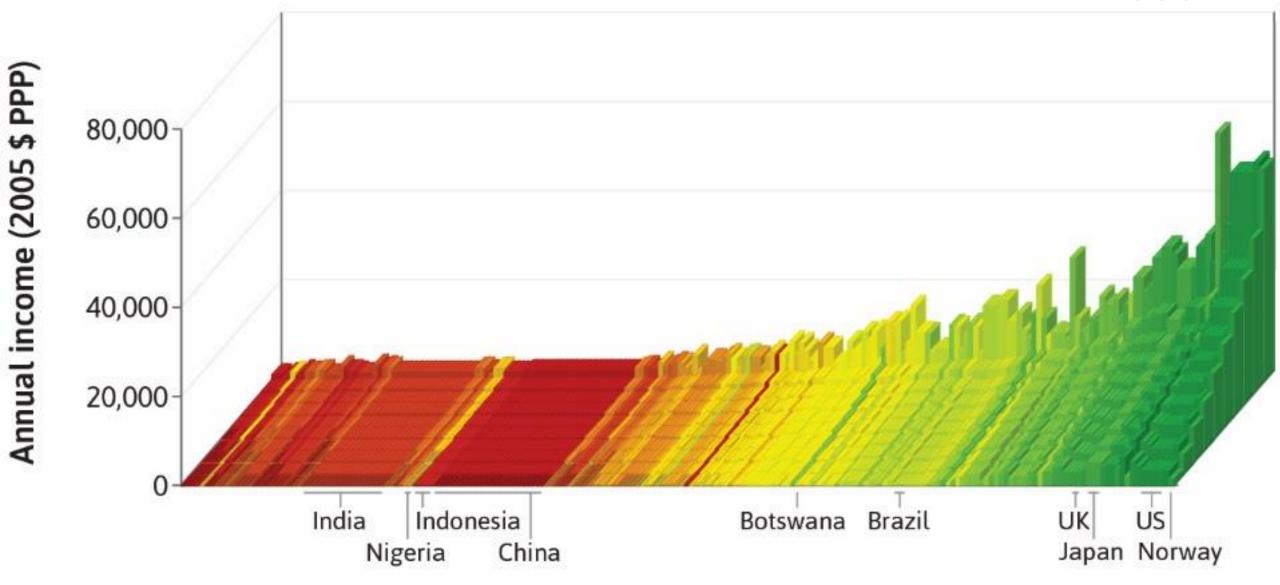
1980



Poorer countries

Richer countries

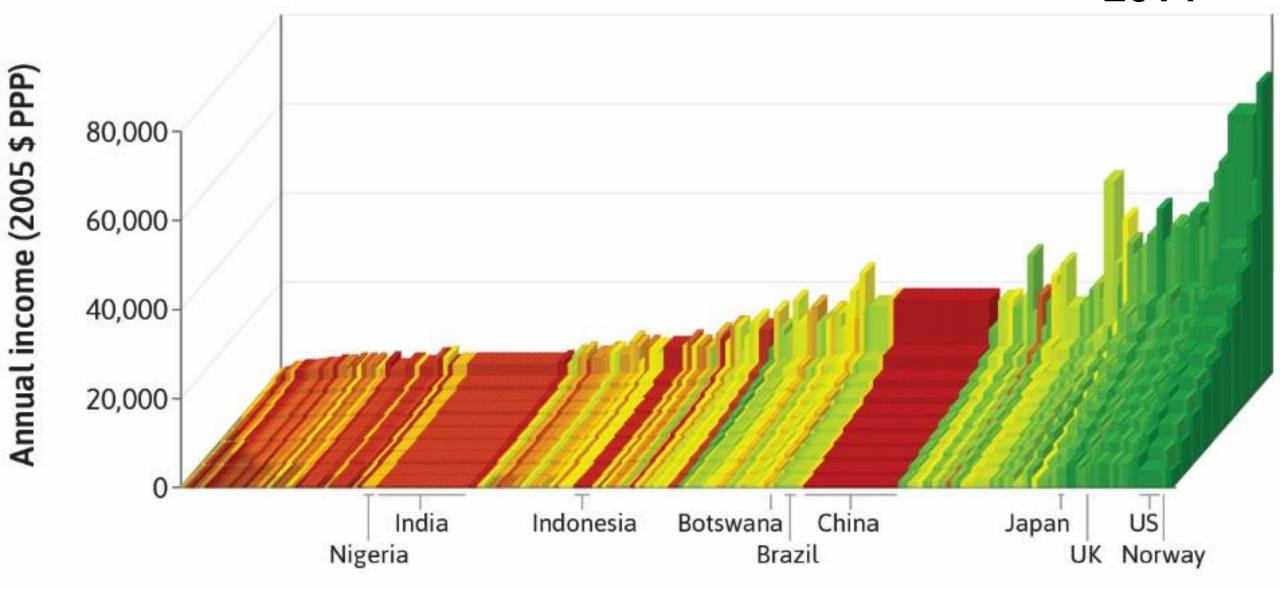




Poorer countries

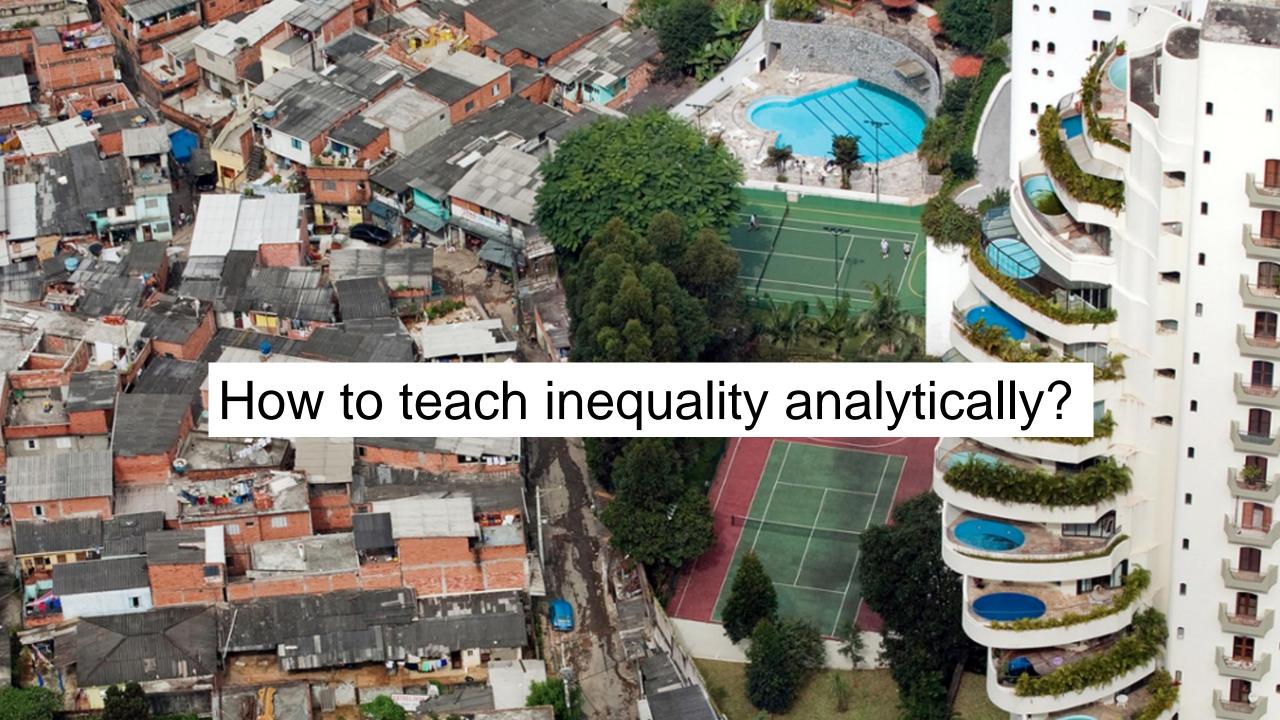
Richer countries

2014



Poorer countries

Richer countries





Economic institutions are the rules of the game – who does what and who gets what on a pirate ship

HOW INSTITUTIONS INFLUENCE THE BALANCE OF POWER IN INTERACTIONS AMONG ECONOMIC ACTORS, AND HOW THIS AFFECTS THE FAIRNESS AND EFFICIENCY OF THE ALLOCATIONS THAT RESULT

- Technology, biology, economic institutions and people's preferences all matter as determinants of economic outcomes
- Interactions between economic actors can result in mutual gains, and also in conflicts over how the gains are distributed
- Power is the ability to do and get the things we want in opposition to others

THE RODER'S ARTICLES

ARTICLE I

Every Man has a Vote in the Affairs of the Moment; has equal title to fresh Provisions...

ARTICLE III

No person to Game at Cards or Dice for Money.

ARTICLE IV

The Lights and Candles to be put out at eight a-Clock at Night; If any of the Crew after that Hour still remained enclined for drinking, they are to do so on the open Deck...

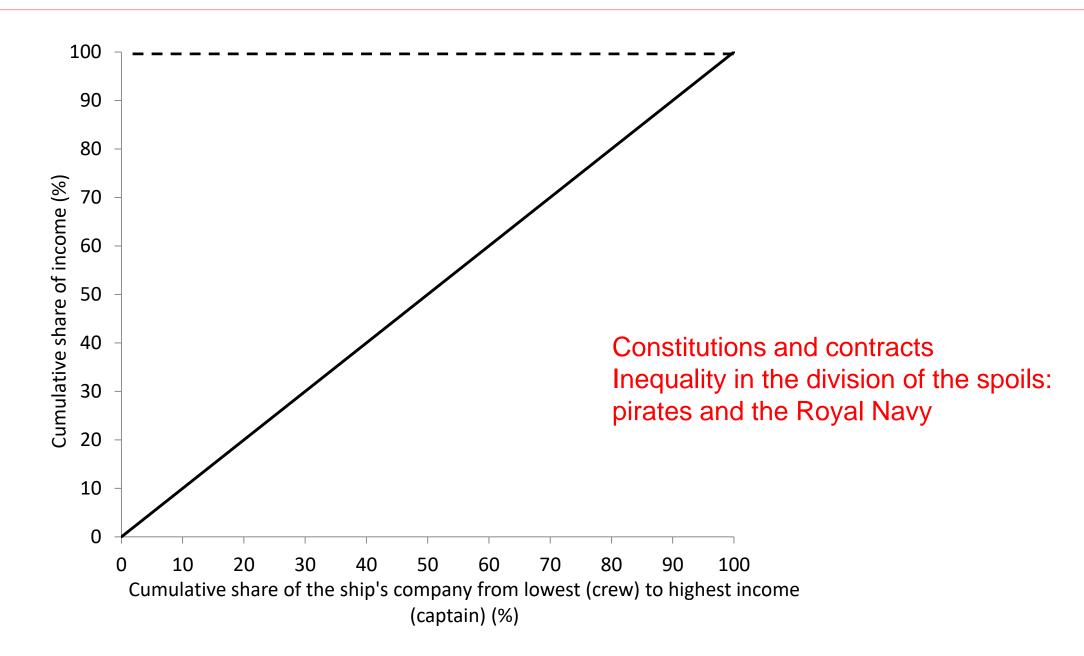
ARTICLE X

The Captain and Quarter Master to receive two Shares of a Prize (the booty from a captured ship); the Master, Boatswain, and Gunner one Share and a half, and other Officers one and a Quarter (everyone else to receive one share, called his Dividend)

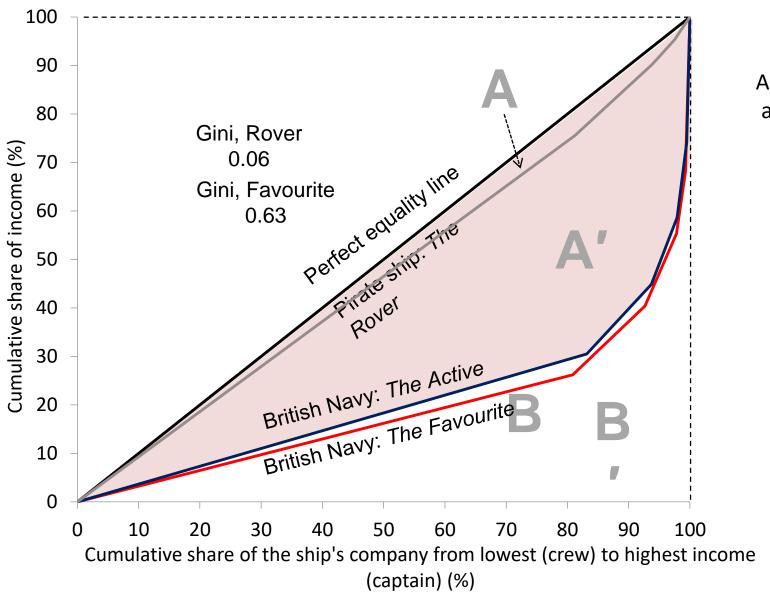
ARTICLE XI

The Musicians to have Rest on the Sabbath Day but the other six Days and Nights none without special Favour.

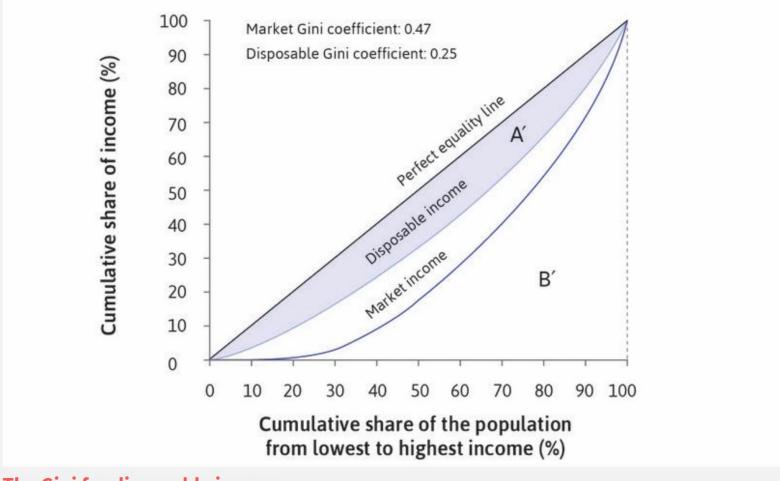
Connecting institutions to measurement of inequality



Constitutions and contracts Inequality in the division of the spoils: pirates and the Royal Navy



A Pirate Ship Lorenz Curve and Gini Coefficient



The Gini for disposable income

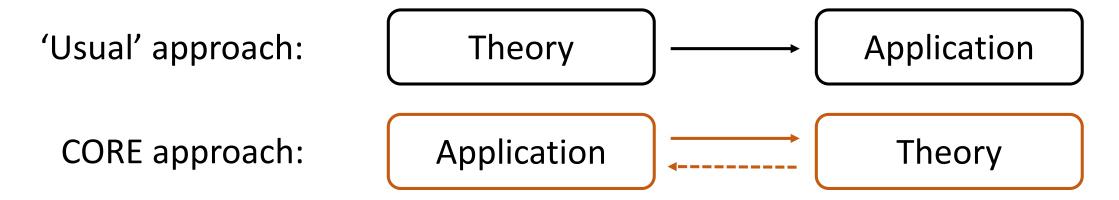
The Gini coefficient for disposable income is lower: the ratio of areas A' (between the disposable income curve and the perfect equality line) and A' + B' (below the perfect equality line) is 0.25.



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Key feature #1: Evidence-based learning



• Start with a question, and look at the evidence.

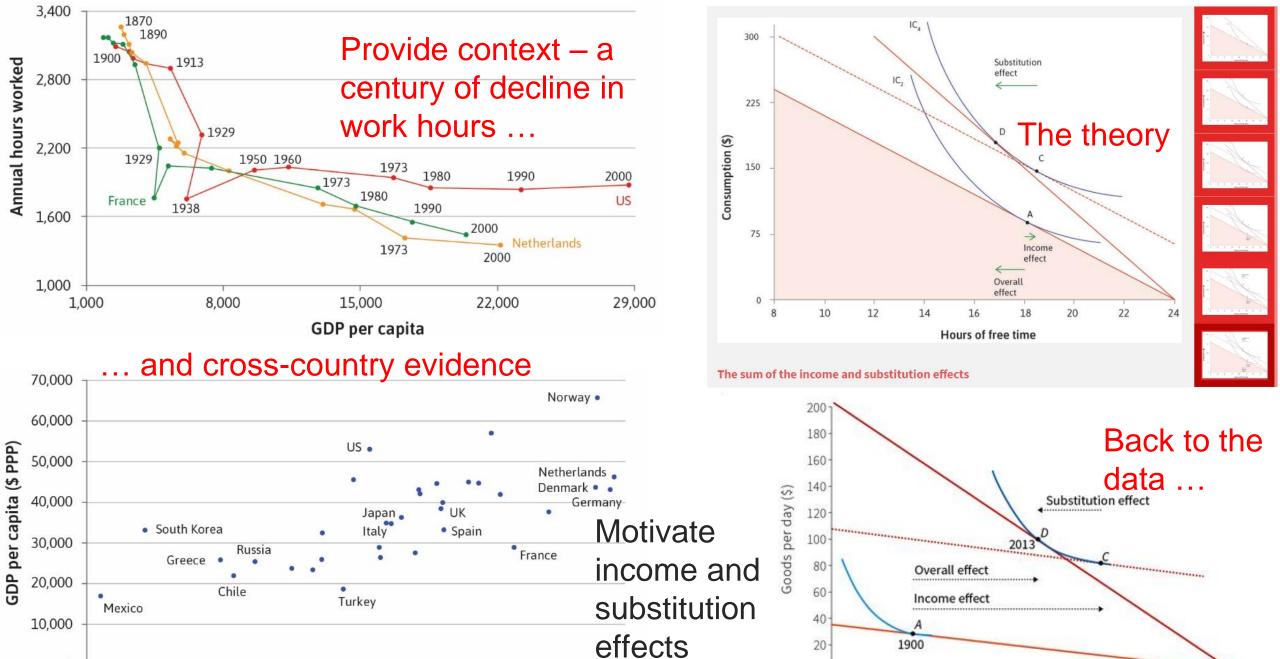
'Why do working hours differ across countries and time?'

• Build a model that helps us understand what we see.

Constrained optimization (indifference curves, feasible set)

Critically evaluate the model

Can workers really choose? Influence of culture and politics



1900

16

18

Free time per day

20

22

20

14

Average annual hours of free time per worker

7,000

7,100

7,200

7,300

7,400

6,900

6,500

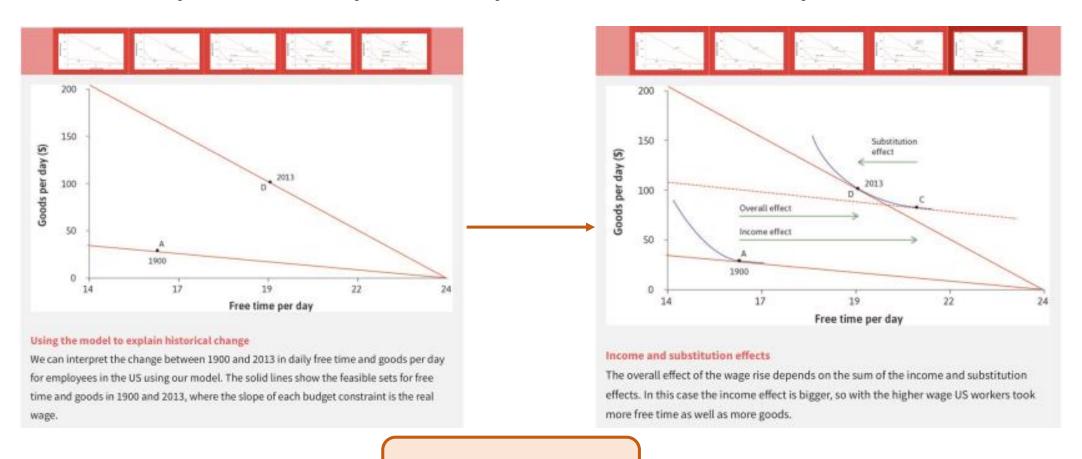
6,600

6,700

6,800

Key feature #2: Interactive learning

The Economy; Economy, Society, and Public Policy



Slidelines

Key feature #2: Interactive learning

The Economy; Economy, Society, and Public Policy



QUESTION 3.5 CHOOSE THE CORRECT ANSWER(S)

What is the marginal rate of substitution (MRS)?

- The ratio of the amounts of the two goods at a point on the indifference curve.
- The amount of one good that the consumer is willing to trade for one unit of the other.
- The change in the consumer's utility when one good is substituted for another.
- The slope of the indifference curve.

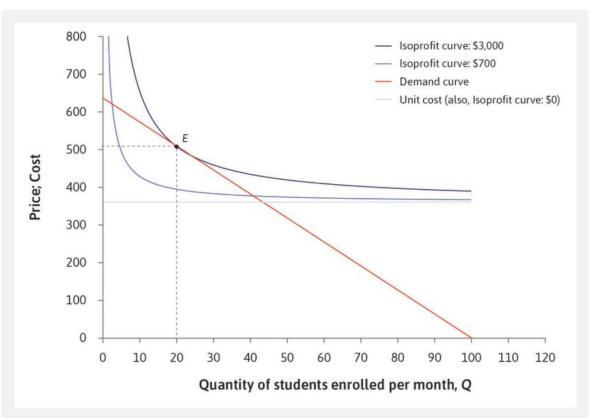
Check my answers

'Economist in Action' videos

'Test yourself' MCQs

Learn tools that can be applied to different problems in the real world

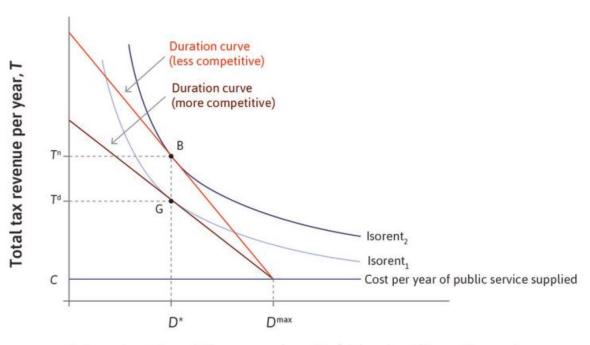
The profit maximizing firm sets the price



Maximizing profit at E

The owner reaches the highest possible isoprofit curve while remaining in the feasible set by choosing point E, where the demand curve is tangent to an isoprofit curve. She should choose P = \$510, selling Q = 20 courses.

The rent-maximizing elite sets the tax

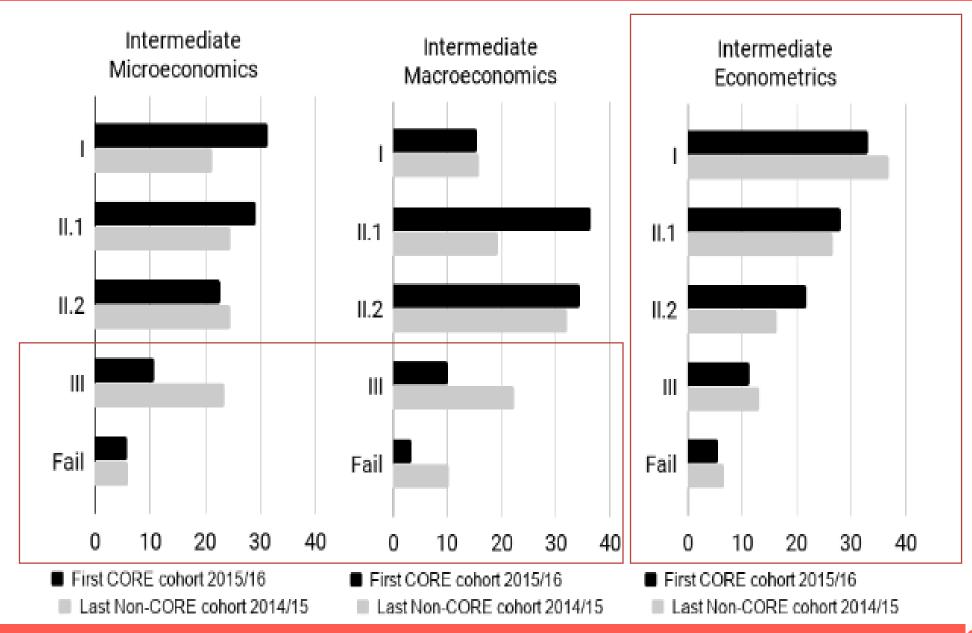


Future duration of the governing elite's time in office, D (years)

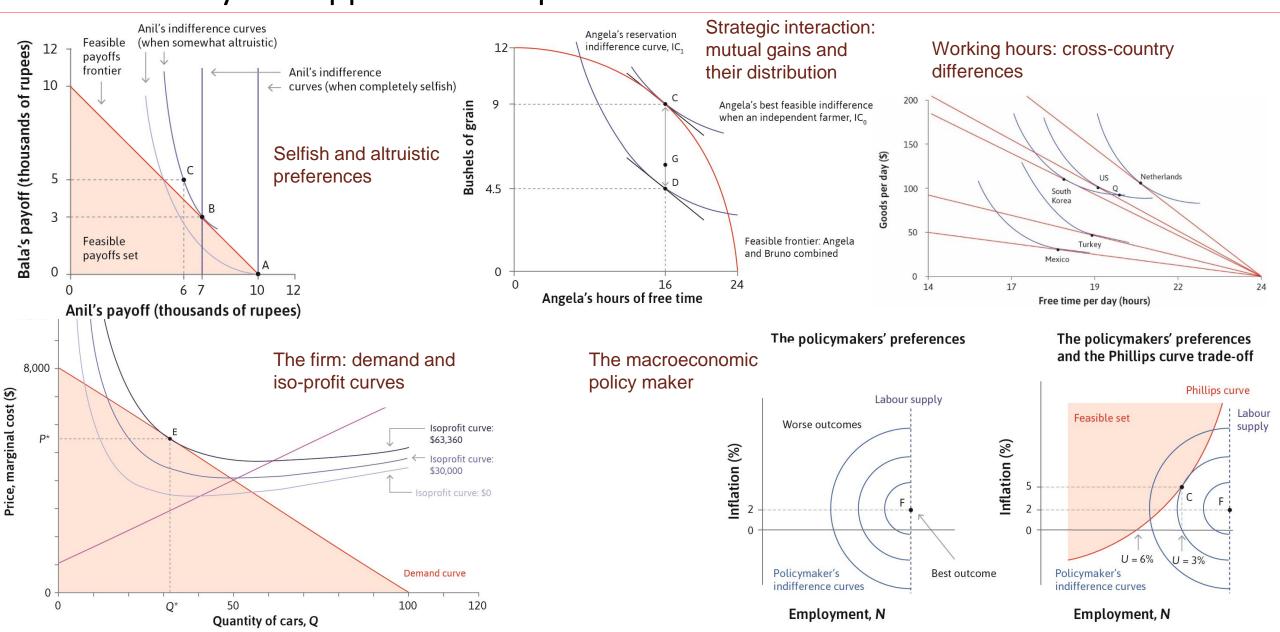
Figure 22.9 Choice of taxes under less and more competitive conditions.

Figure 7.7 The profit-maximizing choice of price and quantity for LP Spanish-language

Does it work? Student outcomes



Why does it work? Teaching the tools of economics – feasible sets and preferences – motivated by and applied to real problems in the world



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5. New skills – data handling, coding, visualization, interpretation, communication

Use real data, analyze real problems using spreadsheets and R – no pre-requisites needed

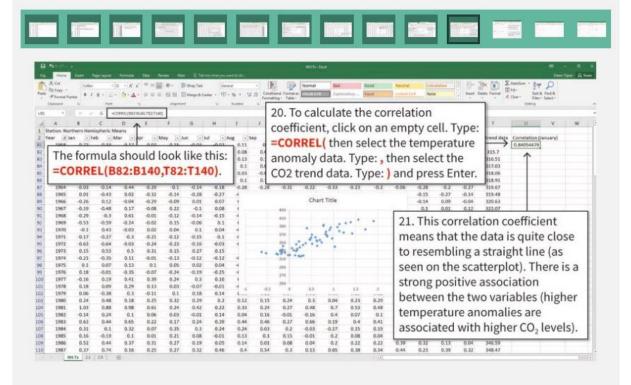


Project	Topic
1	Measuring climate change
2	Collecting and analysing data from experiments
3	Assessing the effect of a sugar tax
4	Measuring wellbeing
5	Measuring economic inequality
6	Measuring management practices
7	Supply and demand
8	Measuring the non-monetary cost of unemployment
9	Credit-excluded households in a developing country
10	Characteristics of banking systems around the world
11	Measuring the WTP for climate change abatement
12	Government policies and popularity

Key feature #2: Interactive learning

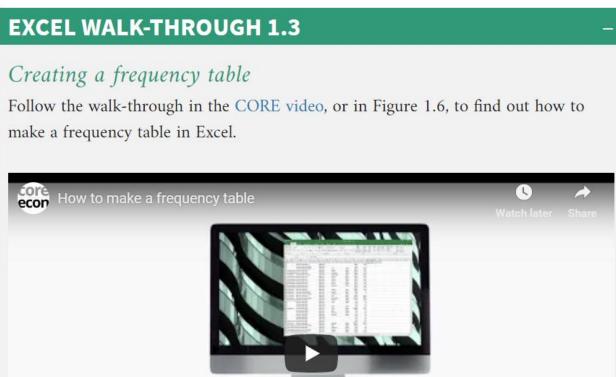
Doing Economics: Walk-throughs





Calculate and interpret the correlation coefficient

The correlation coefficient tells us how close the data is to resembling a straight line on a scatterplot. The correlation coefficient ranges from -1 to -1. A coefficient of 1 or -1 means that the data is a straight line (there is a perfect linear relationship between the two variables) while a coefficient of 0 means that the data do not resemble a straight



Excel walk-through

How to make a frequency table

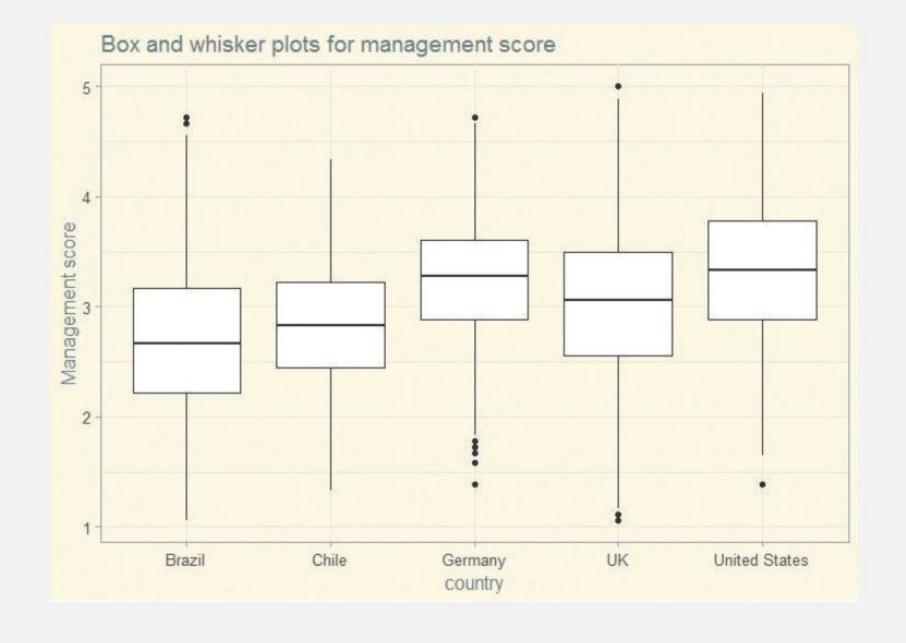


Figure 6.8 Box and whisker plots for a selection of countries.

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