Welcome to Econ 101:

Introduction to Microeconomics

INTRODUCTION

A Motivation

- You graduate.

- You graduate.

- You get a great job

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- You earn a lot of money

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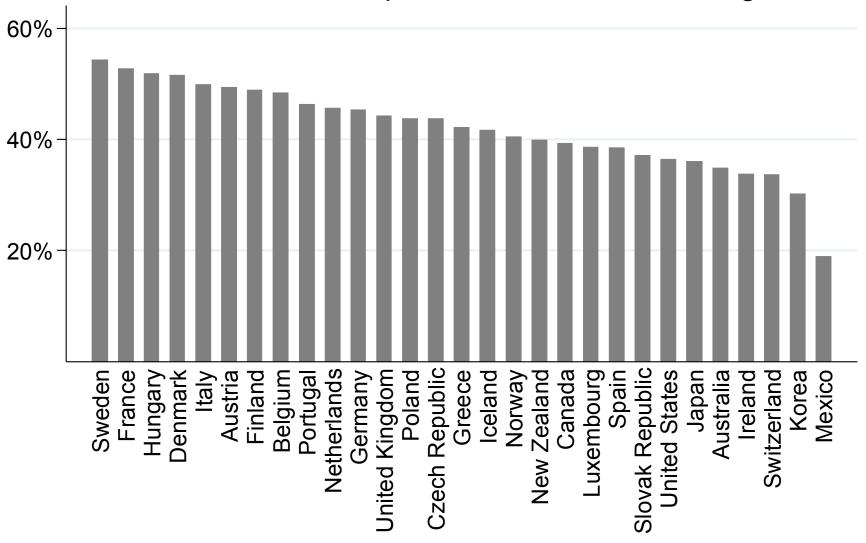
What are you going to do with all that money?



- You graduate.
- You get a great job
- You earn a lot of money

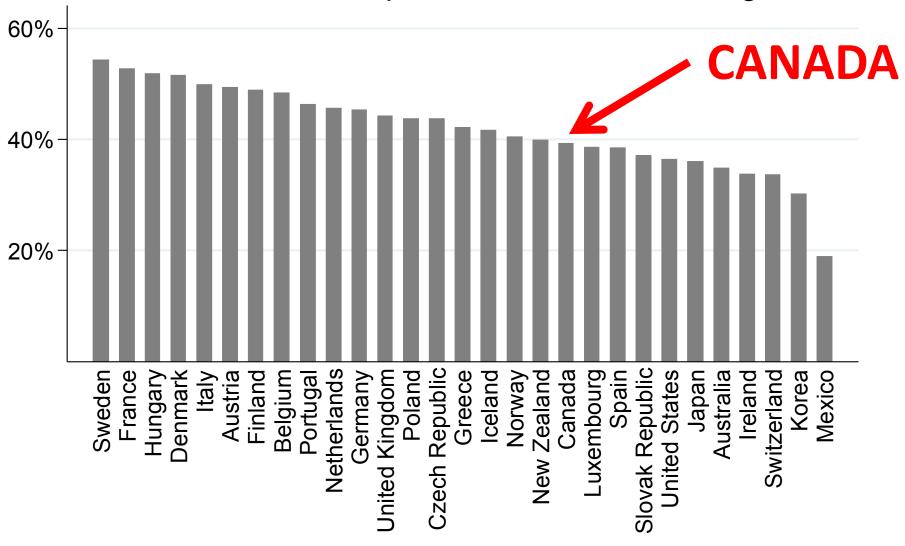
The forgotten question: Who gets to spend that money?

General Government Expenditures as a Percentage of GDP



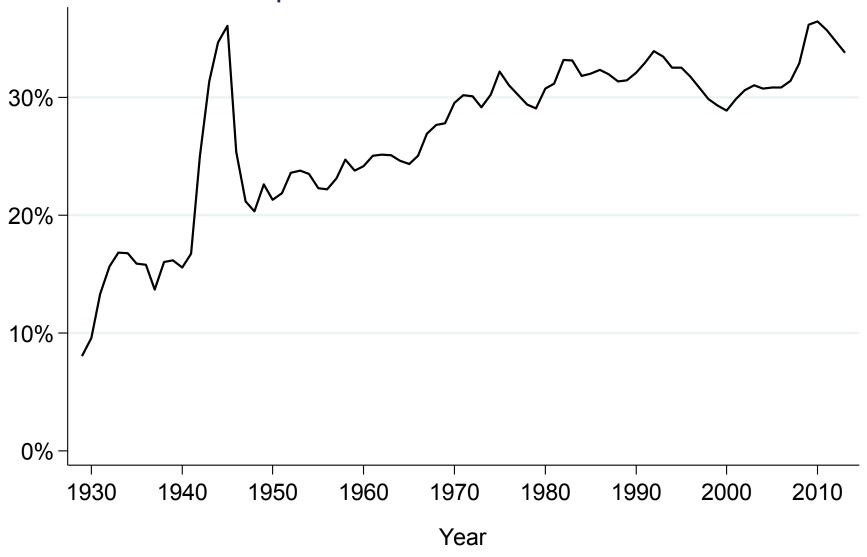
Source: OECD. Year: 2006.

General Government Expenditures as a Percentage of GDP



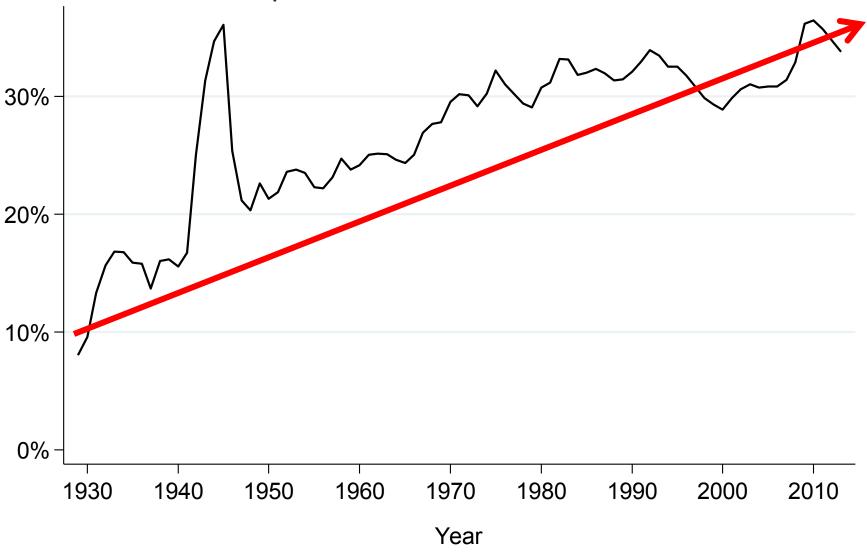
Source: OECD. Year: 2006.

Government Expenditures as a Share of GDP in the U.S.



Source: Bureau of Economic Analysis

Government Expenditures as a Share of GDP in the U.S.



Source: Bureau of Economic Analysis

Year 2019:

- You graduate.
- You get a great job
- You earn a lot of money

Who gets to spend that money?





Creative Commons image by Flickr user Thorsten Hansen



Government decides how 30-60% of resources are allocated.

Is this a good thing?

Why should <u>any</u> resources be allocated through collective decision making?

Or should government decide how 100% of resources are allocated?

For this course, the question

"How Big Should Government Be?"

forms the common motivating thread.

We will compare:

Allocations with gov't intervention

VS.

Allocations we get with voluntary trade.

In the process, we will learn the

key concepts and tools in economics.

What is "economics"?

Economics \equiv Analysis of allocation of scarce resources.

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Why "scarce"?

Without scarcity:

Everyone gets everything.

=> Everyone feels good!

Without scarcity:

Everyone gets everything.

=> Everyone feels good!

(No economists though.)

With scarcity:

The more apples you get,

the less apples others get.

and also:

The more apples we produce,

the less bananas we can produce.

and also:

The more apples we produce,

the less bananas we can produce.

Allocation involves "trade-offs".

Thus, with scarcity, we must decide:

- Who gets the apples?

Thus, with scarcity, we must decide:

- Who gets the apples?

- How many apples vs. bananas

to produce?

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Economists examine such resource allocation.

How should we decide:

- Who gets the apples?

- How many apples vs. bananas to

produce?

How should we decide:

- Who gets the apples?

- How many apples vs. bananas to

produce?

Which allocation mechanisms exist?

- Market Economy

- Market Economy

- Command Economy

- Market Economy

- Command Economy

No-Trade Economy

- Market Economy

- Command Economy

No-Trade Economy

Which system is the best?

We will first compare a market economy and a command economy.

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What do we need to learn to do that comparison?

1. Who gets what in a market economy

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- Consumer Choice

(WEEKS 1-2)

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- Consumer Choice

(WEEKS 1-2)

- Interaction through the Market

(WEEK 3)

2. Who gets what in a command economy

(WEEK 4)

3. How to measure and compare well-being in the two economic systems

(WEEK 4)

=> By WEEK 4 we have our first answer to the question

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"How Big Should Government Be?"

and we know many key economic concepts and tools.

WEEKS 5-12: more about the factors that determine

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"How Big Should Government Be?"

and we learn more key economic concepts and tools in the process.

"How Big Should Government Be?"

- Key economic policy question

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- Concepts can be uninteresting

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- Concepts can be uninteresting
- How to allocate resources is a central question in economics.

Summary:

- Key economic tools, concepts.

- A common motivating thread:

Introduction to Microeconomics

Class 1

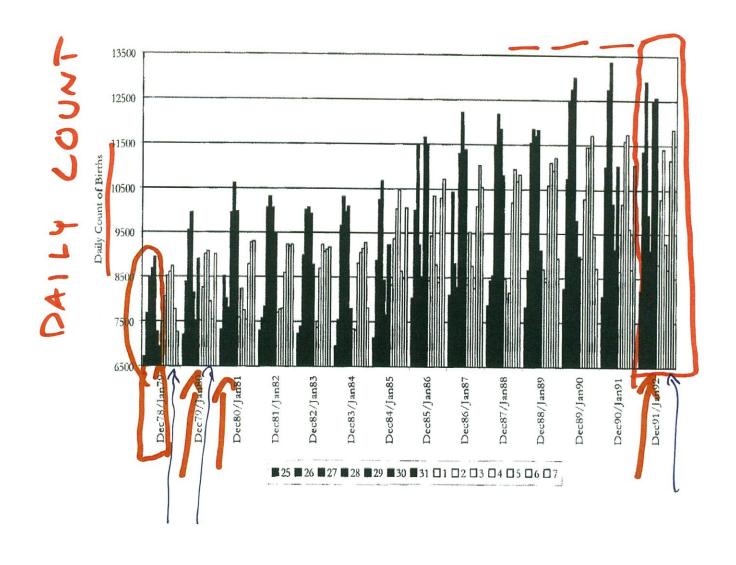
"Behavior is Optimization"

How do economists explain behavior?

Example 1:

Why a spike in births right before

new year?



Example 2:

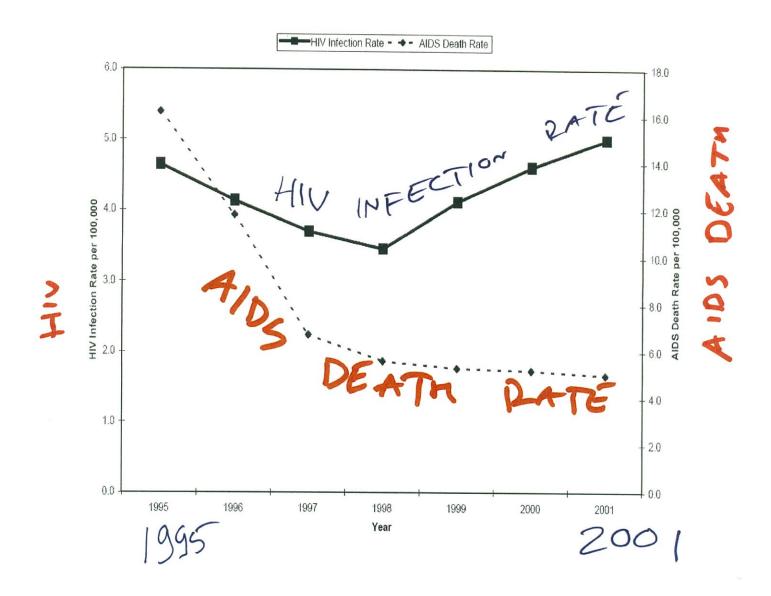
Why % of intercourse DECREASED,

and % of oral sex INCREASED?

Example 3:

Why AIDS death rate DOWN,

and HIV infection rate UP?



Example 4:

Mandatory seat belt laws:

=> What happened to the

number of accidents?

Economics: Behavior is optimization

 \sim comparison of costs and benefits

Economists analyze behavior of

Individuals, Families, Students, Universities, Firms, Nations, ...

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Individuals, Families, Students, Universities, Firms, Nations, ...

= "Economic Agents"

"Behavior is optimization"

=> Analysis involves "modelling"

agents' objectives

"Resources are scarce"

=> Analysis involves "modelling"

agents' constraints

To analyze the behavior of individuals and firms,

we will write and analyze "models" of their objectives and constraints.

Summary:

"Behavior is optimization"

More about this course

An introduction to microeconomic analysis of

- Behavior

- Interactions

- Economic policy

Two Course Objectives

Course Objective #1:

To learn key concepts and tools in economics.

Course Objective #2:

To learn economic rationales for gov't intervention in economic activity.

Course Materials

- Problem Sets (LEARN)
- Lectures
- Notes (LEARN)
- Slides (LEARN)

Problem Sets

- Weekly

- learn.uwaterloo.ca

- FRIEND or ENEMY?

Homework Aim #1:

Improve the Opportunity

to Master the Material

Homework Aim #2:

Provide Incentives to Study

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=> Some exam questions similar

Homework Aim #3:

Challenge Students

"If it's not challenging,

it's not worth your time."

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"If it's not challenging,

it's not worth your time."

=> Include very difficult questions

Conclusion:

Problem Sets are your FRIEND

Note: As an economist, I assume that you optimize.

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=> Homeworks are NOT handed in.

Note: Material is highly cumulative

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=> WEEKLY effort recommended

Notes and Slides

- Complement lectures

- on LEARN

No textbook; Optional textbooks include

Microeconomics by "Parkin and Baden" \$\$\$

Microeconomics by "Mankiw" \$\$\$

Microeconomics by "Krugman" \$\$\$

"The Economy" e-book by various authors, www.core-econ.org/the-economy, **FREE**

No textbook is necessary, but (if you have a lot of time in your hands), you can buy one to study on your own.

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But I doubt that is the best use of your time during the course.

Kahoot

- Possible to get "bonus points" that count toward final grade (see course outline)

Course Outline has more detail

- When are the exams?

- What is the weight of each exam?

- Are the exams cumulative?

- What if I miss an exam?

Summary 1: Economists:

"Behavior is optimization"

Summary 2: This course:

- Self-interest alone vs. econ policy

- Key econ concepts and tools

Summary 3: Problem Sets

- FRIEND

- WEEKLY effort