Chapter 1 Introduction to Macroeconomics CS FORECAS

What Macroeconomics Is About

- Macroeconomics: the study of structure and performance of national economies and government policies that affect economic performance
- Issues addressed by macroeconomists:
 - Long-run economic growth
 - Business cycles
 - Unemployment
 - Inflation
 - The international economy
 - Macroeconomic policy

Quick Intro to GNP and GDP

GNP – focused on nationality

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- Sum of value of finished (or final) goods and services (as opposed to intermediate outputs) produced by a country's economic agents (firms and households) during one year, regardless of whether production takes place within or outside the country.
- GDP geographically focused
 - Sum of value of finished (not intermediate) goods and services produced in a country during one year, regardless of whether foreigners or that country's economic agents are doing the production.
- Alternative definition of GDP (or GNP) national income
 - Instead of determining the size of the economy by counting up the value of all finished goods and services, one can estimate GDP by summing value added, industry/sector by industry/sector. The single industry's value-added is distributed as income to the suppliers of labor, capital, and other factors of production. Accordingly, the summation of all value added in an economy equals national income.

The Growth Rate – What it Means

$$growth rate = \frac{GDP_{2014} - GDP_{2013}}{GDP_{2013}}$$

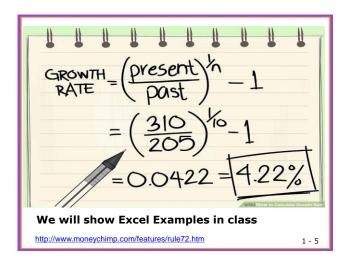
where \mbox{GDP}_{2014} is the GDP in 2014 and \mbox{GDP}_{2013} is the GDP in 2013

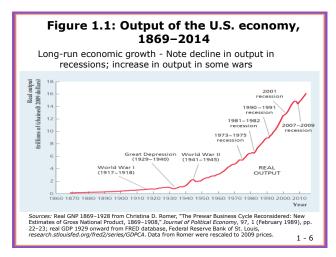
- If you know the growth rate and, for example, if the rate of growth between 2013 and 2014 is 1.3%, then to find the GDP in 2014, multiply the GDP in 2013 by 1.013.
- In order to figure out the GDP over a longer period of time, say between 2009 and 2014 (a period of 5 years):

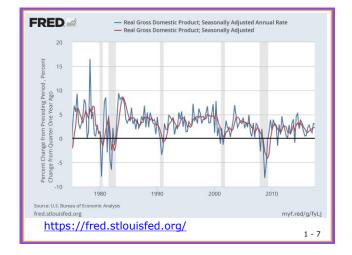
$$GDP_{2014} = GDP_{2009} \times (1.013)^5$$

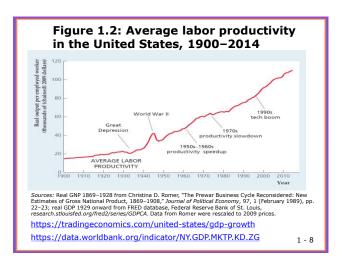
notice that the growth rate is the average annualized rate (exactly 1.3% growth probably doesn't occur every year; it is the average annual growth rate or more exactly, the rate that would generate the end year result if one growth rate had obtained for the entire

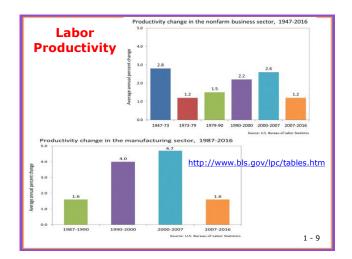
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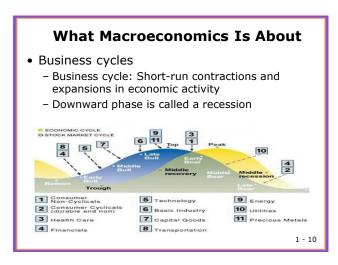


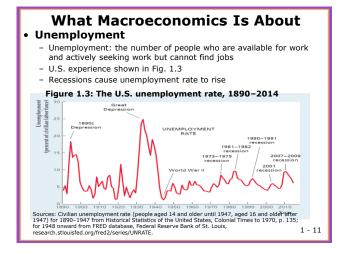


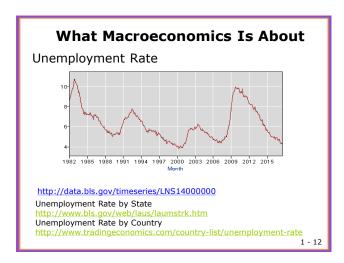




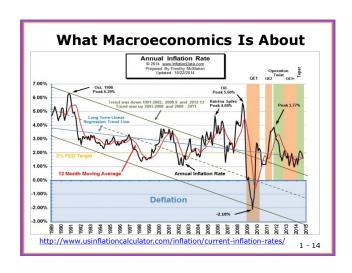


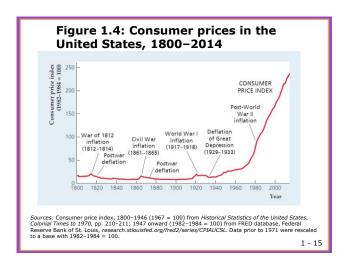






Inflation • Deflation: when prices of most goods and services decline • Inflation rate: the percentage increase in the level of prices · Hyperinflation: an extremely high rate of inflation What is disinflation? History of Hyperinflation lighest Inflation Belarus 1994 53.40 Peru 114.12 1921-24 Brazil Bulgaria China 77.33 278.72 398.73 84.32 1997 1947-49 1991-94 10 Congo(Za 11 France 12 Georgia 13 Germany 14 Greece 15 Hungary 1789-96 143.26 1993-96 62.50 196.72 29,525.71 11,288.00 82.18 58.82 1942-45 1923-24 1 - 13



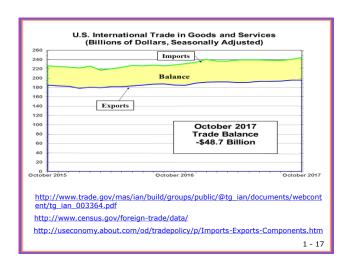


What Macroeconomics Is About

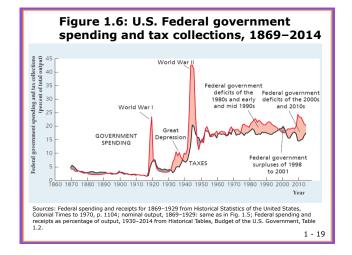
The international economy

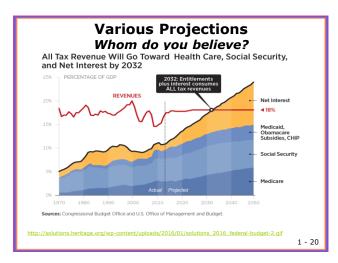
- Open vs. closed economies
 - Open economy: an economy that has extensive trading and financial relationships with other national economies
 - Closed economy: an economy that does not interact economically with the rest of the world
- Trade imbalances
 - Trade surplus: exports exceed imports
 - Trade deficit: imports exceed exports

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What Macroeconomics Is About Macroeconomic Policy • Fiscal policy: government spending and taxation - Effects of changes in federal budget - U.S. experience in Fig. 1.6 - Relation to trade deficit? • Monetary policy: growth of money supply; determined by central bank; the Fed in U.S. Government Policy Monetary Fiscal Interest Money Spend Tax Supply 1 - 18





Why Macroeconomists Disagree

- · Positive vs. normative analysis
 - Positive analysis: examines the economic consequences of a policy
- Normative analysis: determines whether a policy should be used.
- Solved Problem: Positive or Normative
 - A tax cut will raise interest rates.
 - Payroll taxes should not be cut unless capital gains taxes are cut also.
 - A reduction in the payroll tax would primarily benefit poor and middle-class workers.
 - Payroll taxes are too high.
 - A cut in the payroll tax would improve the President's popularity ratings.

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Why Macroeconomists Disagree

- Classicals vs. Keynesians
 - The classical approach
 - The economy works well on its own
 - The "invisible hand": the idea that if there are free markets and individuals conduct their economic affairs in their own best interests, the overall economy will work well
 - Wages and prices adjust rapidly to get to equilibrium
 - Equilibrium: a situation in which the quantities demanded and supplied are equal
 - Changes in wages and prices are signals that coordinate people's actions
 - Result: Government should have only a limited role in the economy

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Why Macroeconomists Disagree

- Classicals vs. Keynesians
 - The Keynesian approach
 - The Great Depression: Classical theory failed because high unemployment was persistent
 - Keynes: Persistent unemployment occurs because wages and prices adjust slowly, so markets remain out of equilibrium for long periods
 - Conclusion: Government should intervene to restore full employment
 - The evolution of the classical-Keynesian debate
 - Keynesians dominated from WWII to 1970
 - Stagflation led to a classical comeback in the 1970s
 - Last 30 years: excellent research with both approaches

What Are Society's Major Economic Problems Today?

Rank the importance to them of the following economic issues:

- (1) Unemployment
- (2) inflation
- (3) economic growth
- (4) stagnant incomes
- (5) the trade deficit
- (6) Social Security
- (7) the government budget
- (8) income inequality.

What are some other issues?

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