

## Final Goods, Value Added, & GDP

GDP = value of final goods produced = sum of value added at all stages of production.

The value of the final goods already includes the value of the intermediate goods, so including intermediate <u>and</u> final goods in GDP would be double-counting.

CHAPTER 2 The Data of Macroeconomic

CON 1004: Intermediate Macro Theor

### The Expenditure Components of GDP

Consumption (C)
Investment (I)
Government spending (G)
Net exports (NX)

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## Consumption (C)

Consumption: The value of all goods and services purchased by households (consumers), excluding new housing.

- Durable goods
- last a long time (ex: cars, home appliances)
- Nondurable goods
- last a short time (ex: food, clothing)
- Services
- work done for consumers (ex: dry cleaning, air travel)

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## U.S. consumption, 2006

	\$ billions	% of GDP
Consumption	\$9,268.9	70.0%
Durables	1,070.3	8.1
Nondurables	2,714.9	20.5
Services	5,483.7	41.4

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# Investment (I)

### Two Definitions:

- Definition 1: Spending on [the factor of production] capital.
- Definition 2: Spending on goods bought for future use.
- Neither of these definitions involves the buying/selling of financial assets.
  - Buying/selling of a stock involves a transfer of ownership of an existing physical asset.
  - Firms typically sell financial assets to raise funds, in order to purchase physical capital.

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# Investment (I)

### Types of investment

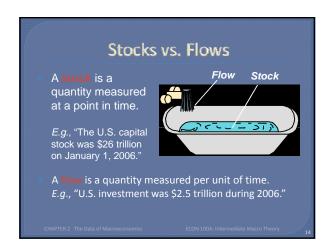
- Business Fixed Investment
- Spending on plant and equipment that firms will use to produce other goods & services.
- Residential Fixed Investment
  - Spending on housing units by consumers and landlords.
- Inventory Investment
- The change in the value of all firms' inventories.
- This is how we account for goods that are produced in one year, but sold in another.

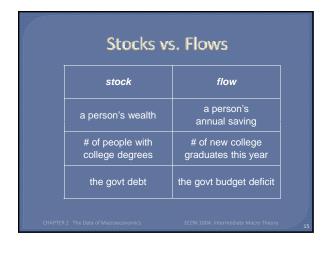
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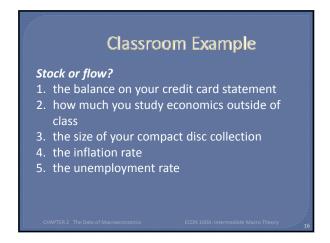
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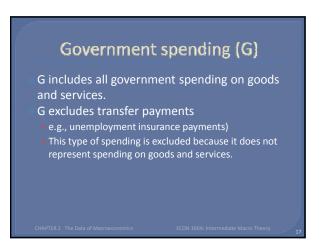
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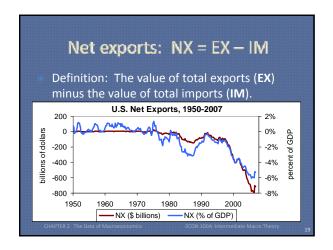


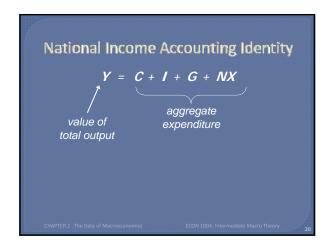


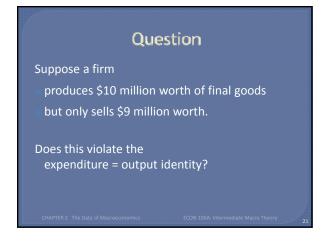




U.S. government spending, 2006		
	\$ billions	% of GDP
Govt spending	\$2,527.7	19.1%
Federal	926.6	7.0
Non-defense	305.6	2.3
Defense	621.0	4.7
State & local	1,601.1	12.1
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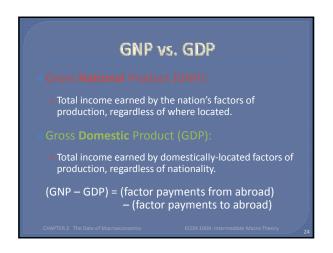




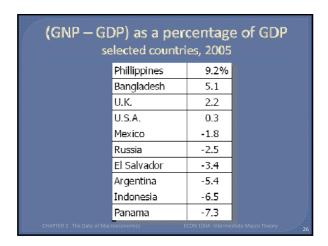






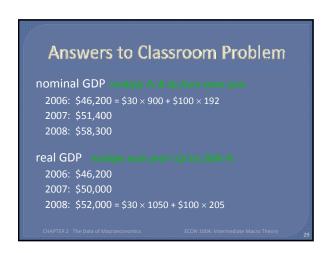








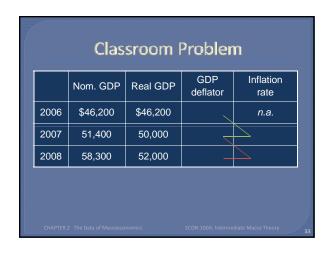


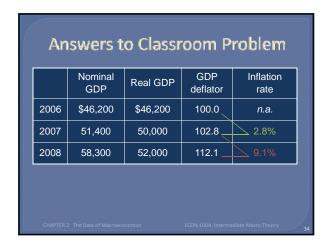


# Real GDP Controls for Inflation Changes in nominal GDP can be due to: changes in prices. changes in quantities of output produced. Changes in real GDP can only be due to changes in quantities, because real GDP is constructed using constant base-year prices.

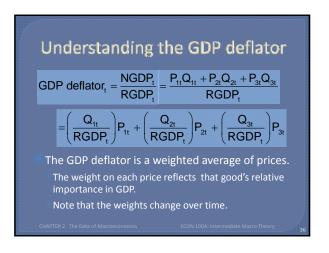


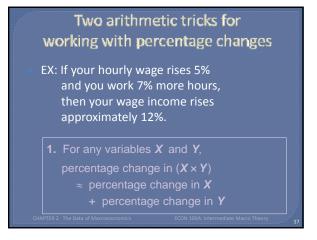
# GDP Deflator The inflation rate is the percentage increase in the overall level of prices. One measure of the price level is the GDP deflator, defined as GDP deflator = 100 × Nominal GDP Real GDP

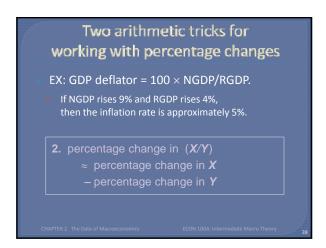




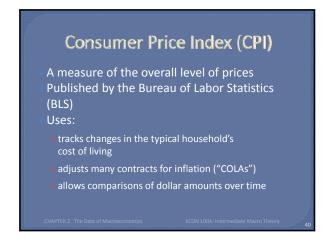


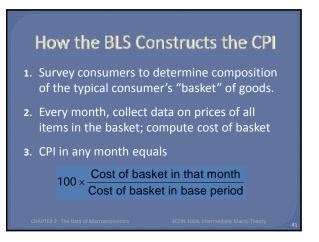


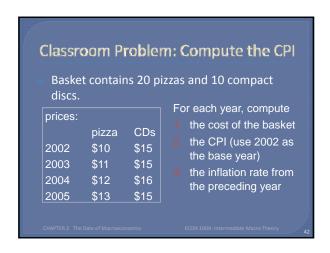


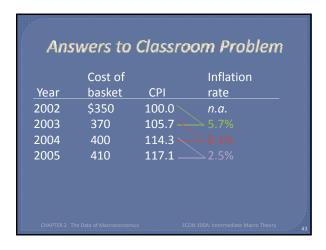


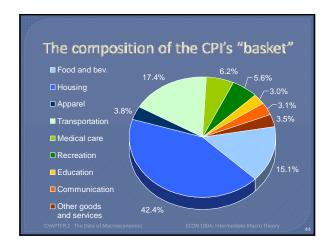


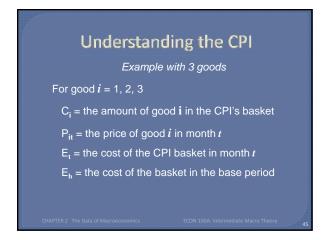


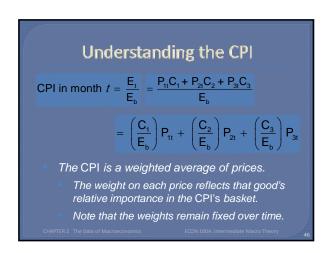


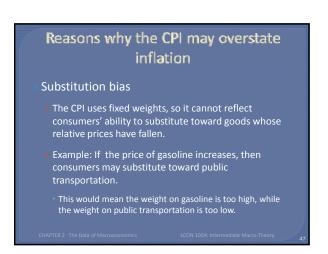




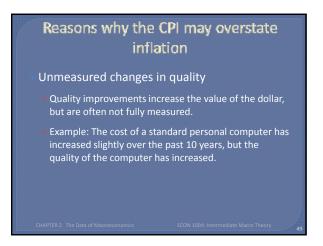








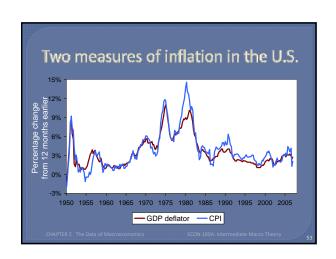
# Reasons why the CPI may overstate inflation Introduction of new goods The introduction of new goods makes consumers better off and, in effect, increases the real value of the dollar. But it does not reduce the CPI, because the CPI uses fixed weights.



# The Size of the CPI's Bias In 1995, a Senate-appointed panel of experts estimated that the CPI overstates inflation by about 1.1% per year. So the BLS made adjustments to reduce the bias. Now, the CPI's bias is probably under 1% per year.







# Categories of the Population Labor force (L = E + U) the amount of labor available for producing goods and services; all employed plus unemployed persons Employed (E): working at a paid job Unemployed (U): not employed but looking for a job Not in the labor force (NILF = POP – L): not employed, not looking for work

