Aggregate Supply and Aggregate Demand

Econ 120: Global Macroeconomics

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- Specific Goals
 - Be able to explain GDP fluctuations when the price level is also flexible.
 - Explain how real GDP and the price level are related in the short run.
- Learning Objectives
 - LO5: Use the model of aggregate demand and supply to evaluate the short-run and long-run impacts of fiscal and monetary policy on production, employment, and the price level.
 - GELO1: Students will be able to use mathematical and logical methods to solve problems.
 - GELO2: Students will be able to construct and use models to analyze, explain, or predict phenomena.

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	Aggregate demand Aggregate supply Equilibrium	Goals	
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• Chapter 12

Downward sloping Determinants of AE

Aggregate Demand

- Aggregate demand: schedule or curve that shows the quantities of real GDP that buyers collectively desire to purchase at each price level.
- Aggregate demand is downward sloping but not for the same reason the demand curve for a single product is downward sloping.
- Recall demand curves for single goods slope downward because of the substitution effect and the income effect.

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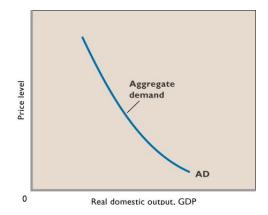
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- **Real balances effect**: when the price level increases, the purchasing power of the consumers' accumulated savings balances decreases.
 - With a lower real savings balance, consumers decrease consumption.
- Foreign purchases effect: When the price level rises relative to the price level in foreign countries, the foreign demand for U.S. products decreases. Similarly, the demand for imports increases.
 - This causes exports to fall and imports to rise.

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Downward sloping Determinants of AD

- When something *besides the price level* affects the AD, this causes the AD curve to shift.
- The following affect *consumption* and therefore shift AD.
 - Consumer wealth: financial assets such as savings accounts, stocks, and bonds, and physical assets that consumers can borrow against like houses and land.
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 - Household indebtedness: if household debt increases, AD shifts to the left.
 - Taxes: Increase in taxes decreases consumption, AD shifts to the left.
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Downward sloping Determinants of AD

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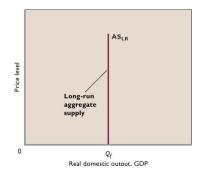
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Long run AS Short run AS Determinants of AS

Long run aggregate supply

Long run aggregate supply:

in the long run the economy uses all factors of production efficiently, therefore long run aggregate supply is a vertical line at **potential GDP**



Long run AS Short run AS Determinants of AS

Short run aggregate supply

- In the short run, factor markets are slow to adjust. Wages are slow to adjust and there may unemployment or even excess employment.
- Therefore in the short run, the aggregate supply curve is upward sloping.
 - Increases in the price level without increasing wages create larger profits for firms, creates incentive to produce more.

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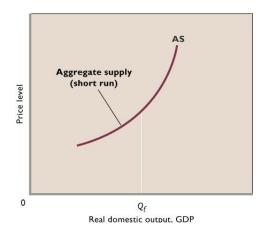
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- When something *besides the price level* affects AS, this shifts AS.
- Prices of factors of production: when the price of labor, capital, or land increase, this shifts AS to the left.
- Exchange rate: if the value of the U.S. currency decreases, this increases the cost of importing foreign factors of production.
- Technology: an increase in technology shifts AS to the right.
- Business taxes can affect output decisions of firms and shift AS.
- Other government regulation.

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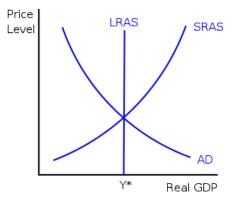
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In equilibrium, real GDP and the price level are determined by the intersection of AS and AD $\,$



Inflation

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- **Demand pull inflation**: when increases in demand cause inflation.
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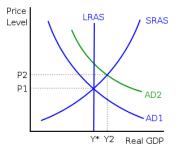
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Inflation Long-run equilibrium

Demand pull inflation

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- Demand pull inflation begins when AD increases.
- Causes real GDP to increase and the price level to rise.
- Recall: inflationary gap: when aggregate expenditures is equal to real GDP above potential GDP.

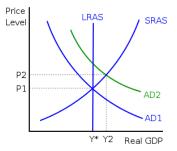


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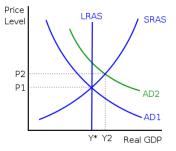
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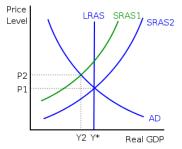
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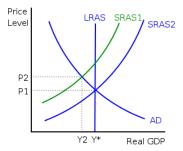
- Cost-push inflation begins when an increase in production cost shifts SRAS to the left.
- Causes real GDP to fall and price level to rise.
- Stagflation: when there is unemployment and high inflation at the same time.



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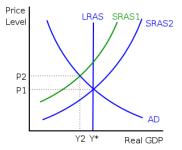
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- Suppose AD shifts to the right.
- Firms will be able to sell more goods. Firms hire more labor and produce more goods.
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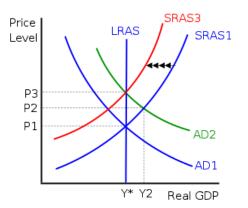
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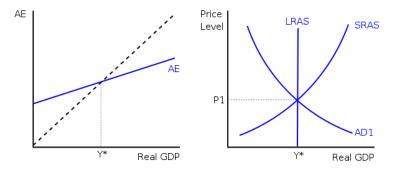
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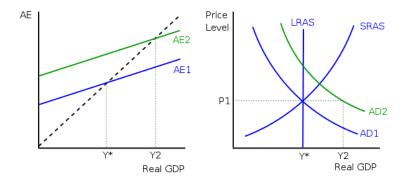
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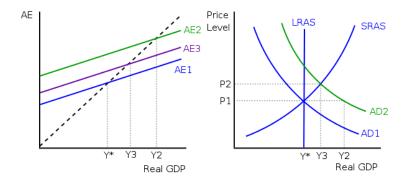
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