Topic 6 Business Cycles

Agenda

- Recap and motivating questions
- Business Cycles
 - What are they?
- The late 2000's recession
- What causes business cycles?
 - 4 broad theories
- Should policy makers try to stabilize the economy?

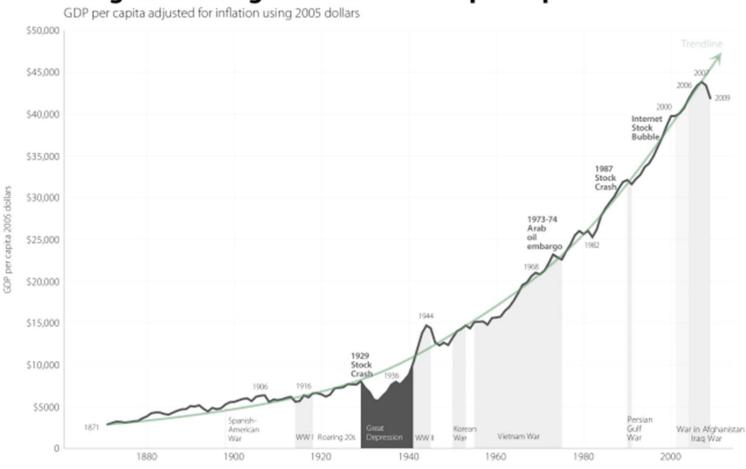
Recap from last 2 lectures

- Topic 4: Ingredients of economic growth
- Topic 5: Policies that increase growth
- In both topics, we mostly talked about long-run growth (i.e. shifting the LR-AS curve to the right)
- USA RGDP per capita growing at 2% on average per year. But growth hasn't been smooth... why not?

In other words...

- In general, our technology, human capital, and physical capital improve a little bit each year
- So why doesn't RGDP, income, and employment smoothly increase each year?

Long-term real growth in US GDP per capita 1871-2009



Other cool graphs <u>here</u>

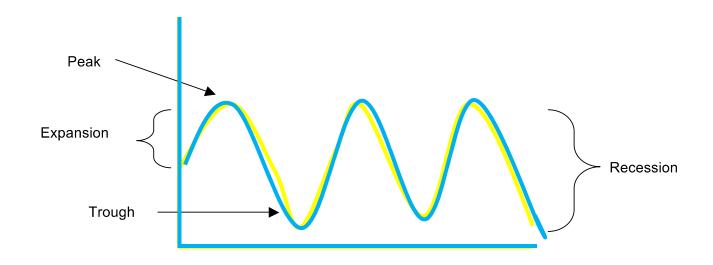
Data from MeasuringWorth.com

VisualizingEconomics.com

What are Business Cycles?

And what do they look like in the data?

What are business cycles?



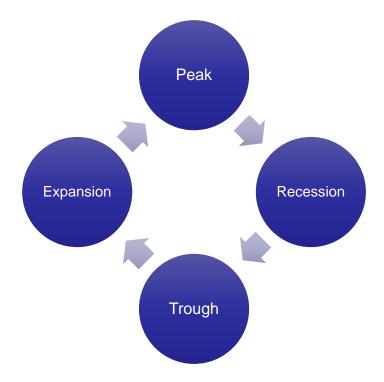
 Business cycle: The recurring increase and decreases in the level of economic activity over periods of years.

These cycles have different phases

- Expansion: Phase in the business cycle in which real GDP, income, and employment increase
- Recession: Phase of the business cycle in which real GDP, Income and employment decrease
- Depression: A severe recession

So what is one cycle?

One cycle consists of one time around:

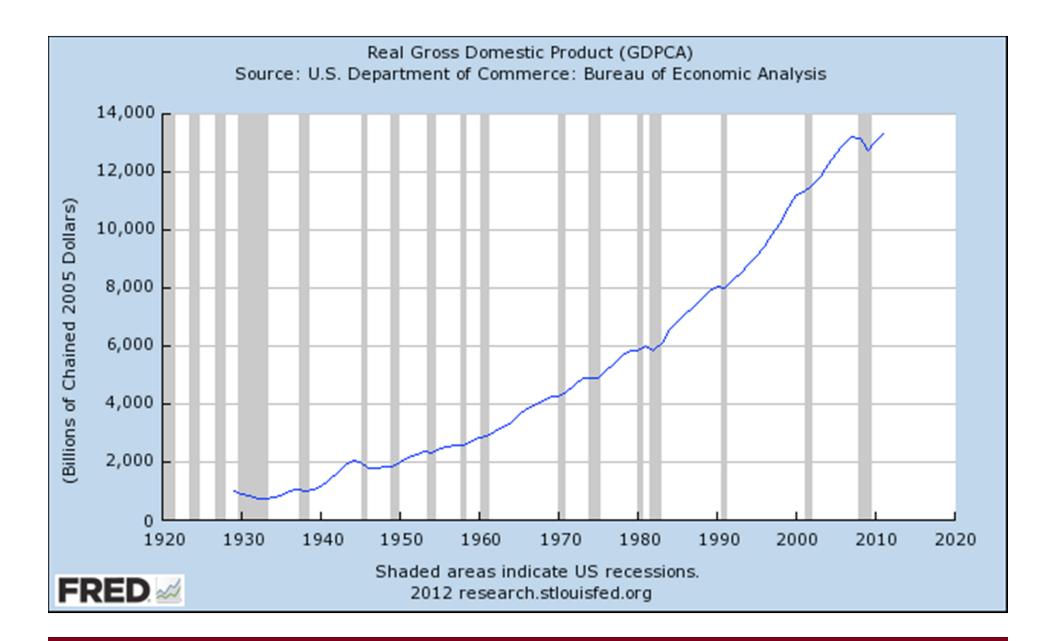


Let's look at the data

How can we spot these cycles?

 One idea: simply graph RGDP. Let's try that.

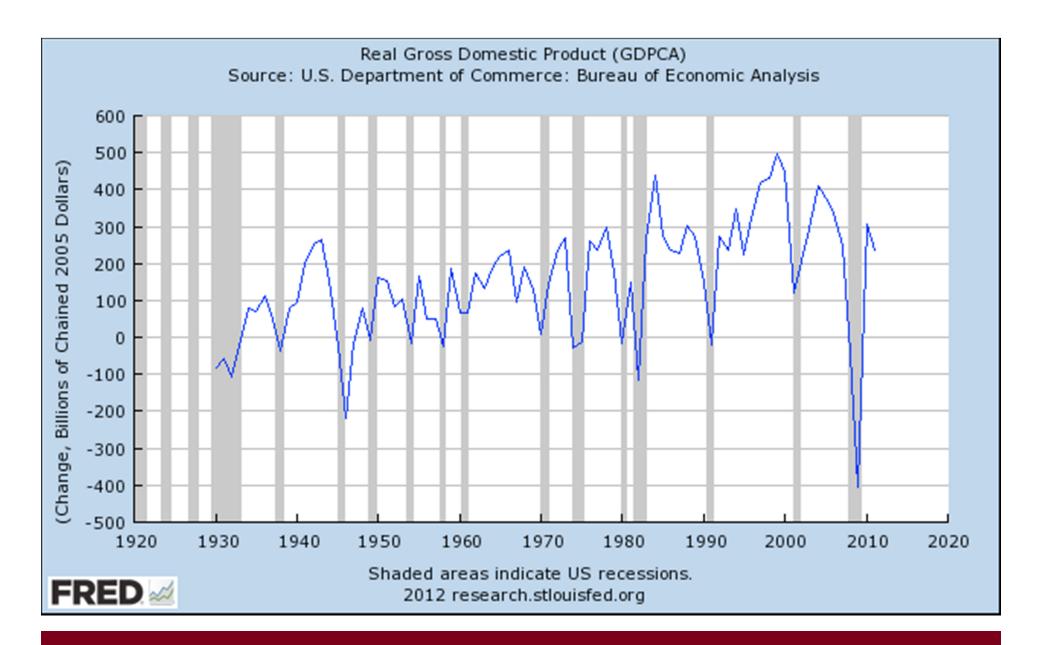
Causes

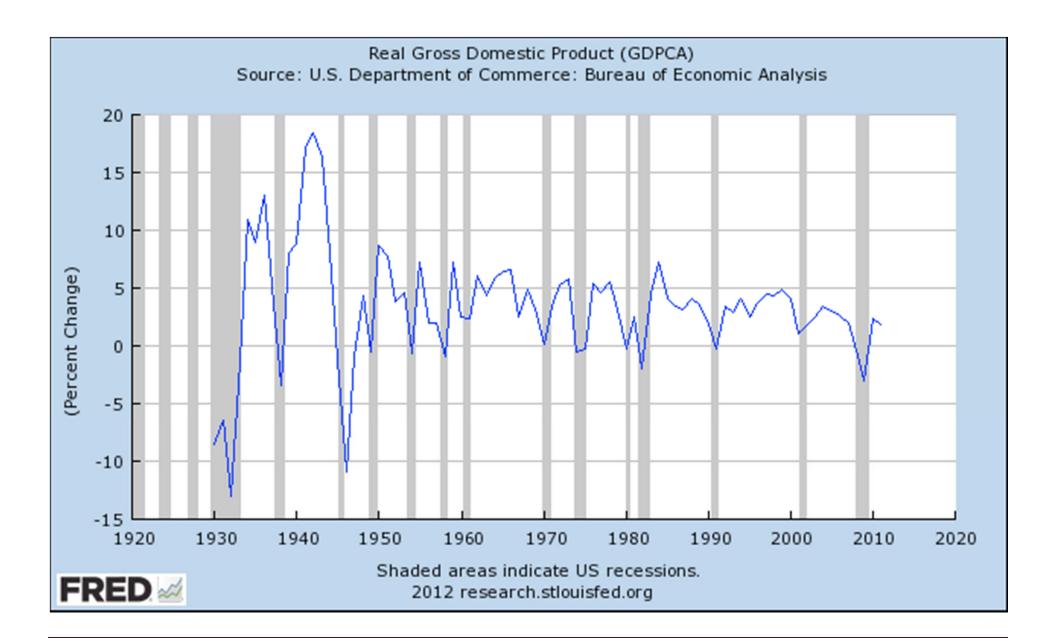


Let's look at the data

 You can kind of see them there, but how can we see it better?

Answer: Look at the change in RGDP





General Business Cycle Data Observations

- Cycles are irregular and unpredictable
- Most macroeconomic variables move together during the business cycle (i.e. GDP, unemployment, inventories all change; they depend on each other).
- As output falls, unemployment rises.
- For more graphs, check out <u>Federal</u> <u>Reserve Economic Data (FRED)</u>

The Late 2000's Recession

a.k.a. "the most recent recession," "The Great Recession," etc.

How bad was the recent recession?

Period	Duration, Months	Depth (Decline in Real Output)
1929-1933	43	-26.7% (Great Depression)
1937-1938	13	-18.2% (post-New Deal)
	A few more	in between
1953-1954	10	-2.6% (post-Korean-War-bubble)
1957-1958	8	-3.7% (budget-balancing)
1960-1961	10	-1.6% (tight monetary policy)
1969-1970	11	-0.6% (fiscal, monetary policy post Vietnam)
1973-1975	16	-3.2% (oil crisis, stock market crash))
1980	6	-2.2% (really tight monetary policy, energy crisis)
1981-1982	16	-2.7% (see previous. "double-dip" recession)
1990-1991	8	-1.4% (oil crisis, 80s debt accumulation)
2001	8	-0.3% (dot-com bust, fall in investment, Sept. 11)
Dec. 2007-Mar 2009	18	-5.1% (subprime mortgage crisis leading to global financial crisis; oil prices)

Causes

How bad was the recent recession? (continued)

- Answer: Bad, but not nearly as bad as the Great Depression.
- If we looked at unemployment this would be even more clear

- Another way to look at these recessions
- Complete list of recessions

Causes

Average of cycles	Peak to trough	Trough to peak	Trough to trough	Peak to Peak
1854-1919 (16 cycles)	21.6	26.6	48.2	48.9
1919-1945 (6 cycles)	18.2	35.0	53.2	53
1945-2009 (11 cycles)	11.1	58.4	69.5	68.5

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Recessions becoming less frequent

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Recessions shorter in duration

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Expansions lasting longer

What causes business cycles?

Or, why can't we just drive the car in a straight line?

What caused the recent recession?

- Subprime lending
- Cheap credit b/c of low interest rates
- Over-leveraging, Collateralized Debt Obligations (CDOs), Credit Default Swaps (CDSs)
- Lack of Government Legislation
- With this factors in mind video: http://vimeo.com/3261363

What causes recessions in general?

 Four main groups: (implication) because they disagree on the cause of macro fluctuations, they recommend different policies for smoothing out business cycles:

- 1. New Keynesians
- 2. Monetarists
- 3. RBC View
- 4. Coordination Failure group

Group 1: New Keynesians

- Cause: sticky wages/prices
- Example: If C, I, NX, or G unexpectedly falls, AD shifts left and GDP falls. New Keynesians see Investment swings as the largest source of instability
- Note: We have basically been taking the New Keynesian view in this class, by focusing so much on sticky wages/prices

Causes

Group 2: Monetarists

- Cause: Inappropriate government policy prevents us from staying at the NRO
- Example: Oil price increase. Without minimum wage laws, wages would naturally fall, so firms could keep same amount of labor and buy same amount of oil. Output would remain constant.
 - Instead firms must hire fewer workers, decrease output

Group 3: Real Business Cycles

- Cause: Shocks to real factors
- Fluctuations occur because of changes to "real things" – factors of production.
- Example: unexpected oil spill in the Gulf means a shortage of that natural resource. Not all the machines that need oil can run now. Output (RGDP) falls.
- Note: Groups 2 and 3 don't think wages/prices are that sticky

Group 4: Coordination Failure

- Cause: Self-fulfilling expectations
- Example: oil price increases. Consumers and firms expect price will stay high.
 Suppose it doesn't? Doesn't matter...
 - Firms expect consumers and other firms to decrease C and I, so they decrease output.
 - They lay off workers, who now spend less
 - Firm now needs to produce even fewer goods, so lays off more workers, etc.

Implications

- Just like Democrats and Republicans, economists fall into different groups too (not along exactly the same lines).
- Just like Democrats and Republicans, economists disagree on the cause, so they disagree on the solution. So news networks can always find some economist who says Plan X is bad.

Should policymakers try to stabilize the economy?

Yes they should

- Economies fluctuate: Households and firms get pessimistic. Households reduce spending; firms reduce production, lay off workers, unemployment rises, RGDP falls, confirming pessimism – wastes resources!
 - Note: Which group would make this argument?
- 2. Why suffer through booms and busts? Fiscal and monetary policy can counteract and reduce the severity.

No they shouldn't

1. Policy works with a long lag:

Causes

- Monetary Policy: Takes a while for interest rate changes to alter investment and thus AD (firms make spending plans far in advance)
- Fiscal Policy: Long political process governs changes in gov't spending and taxes

2. Hard to predict economic changes:

 If they are wrong, they are likely to make things worse (i.e. raise the peak or lower the

Key Ideas and Things To Think About

Note: This is NOT a study guide — i.e. do not limit yourself to these items when studying

Key Ideas

- Business cycles are irregular and unpredictable
- Economists disagree about the exact causes. Not clear how much sticky prices/wages are to blame
- Stabilizing is a great idea, as long as it works the way you want it to

Things To Think About

- You heard my general explanation of how the recent recession happened.
 How would the 4 different groups of economists explain the recession?
- When we come out of recessions, the rich get richer *faster* than the poor get richer. This increases inequality. Why might this be?