The Current U.S. Recession

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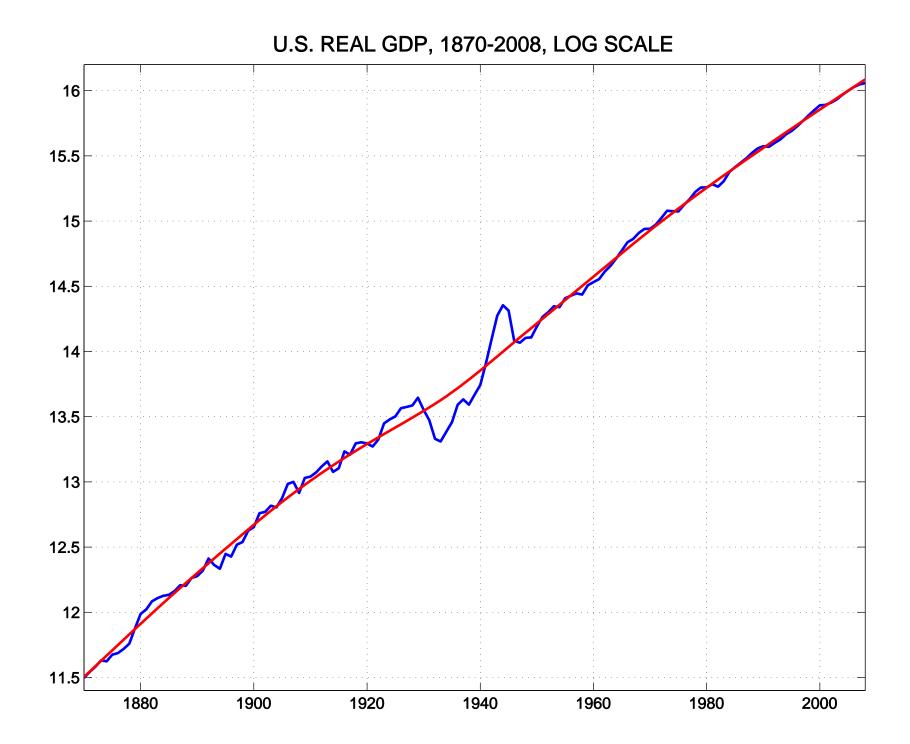
Minneapolis

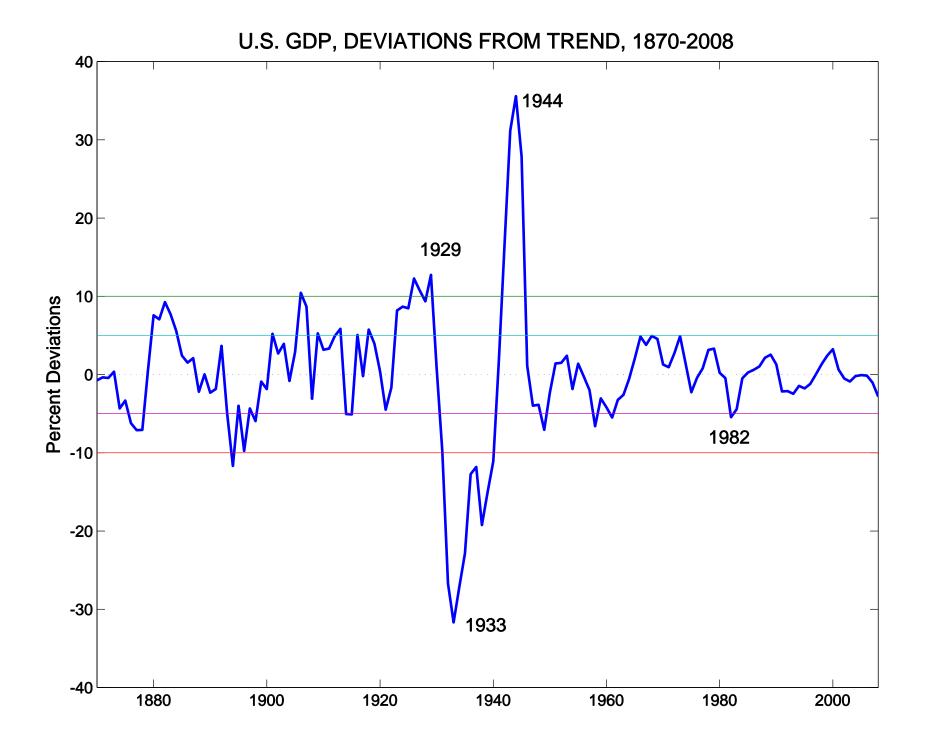
November 10, 2009

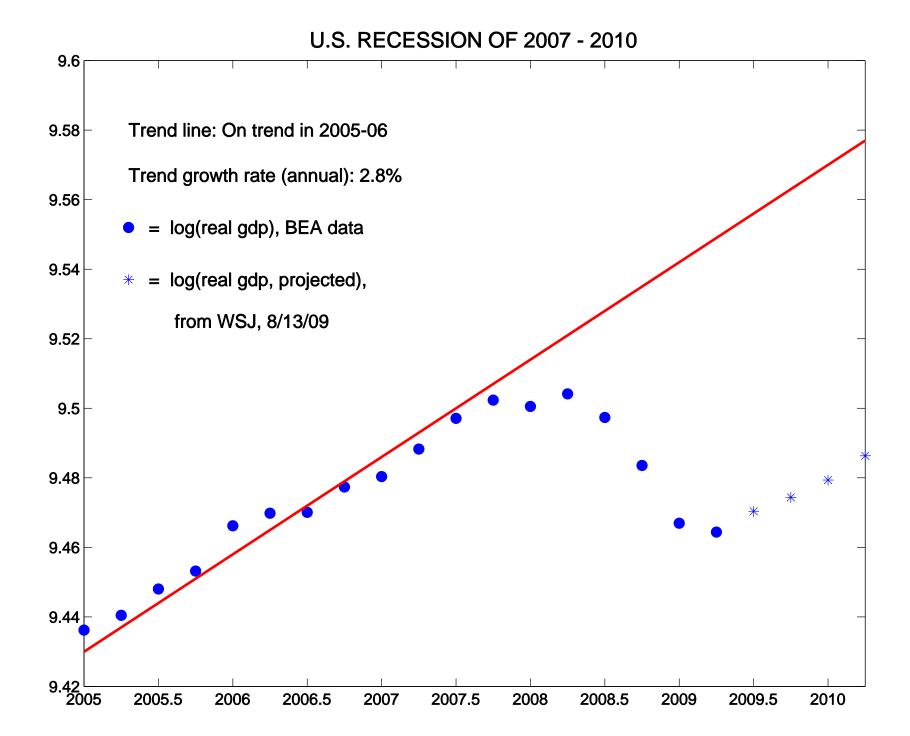
PLAN OF TALK

- 1 Background material: U .S. economy
- 2 A theoretical framework
- **3** Contraction of 1929-1933: analysis
- 4 Panic of 2008: analysis

1 U.S. Economy: Essential Background







- 2 Theoretical framework
 - "Normal" recession or liquidity crisis?
 - How identify, respond to financial crisis?

$$Mv = Py$$

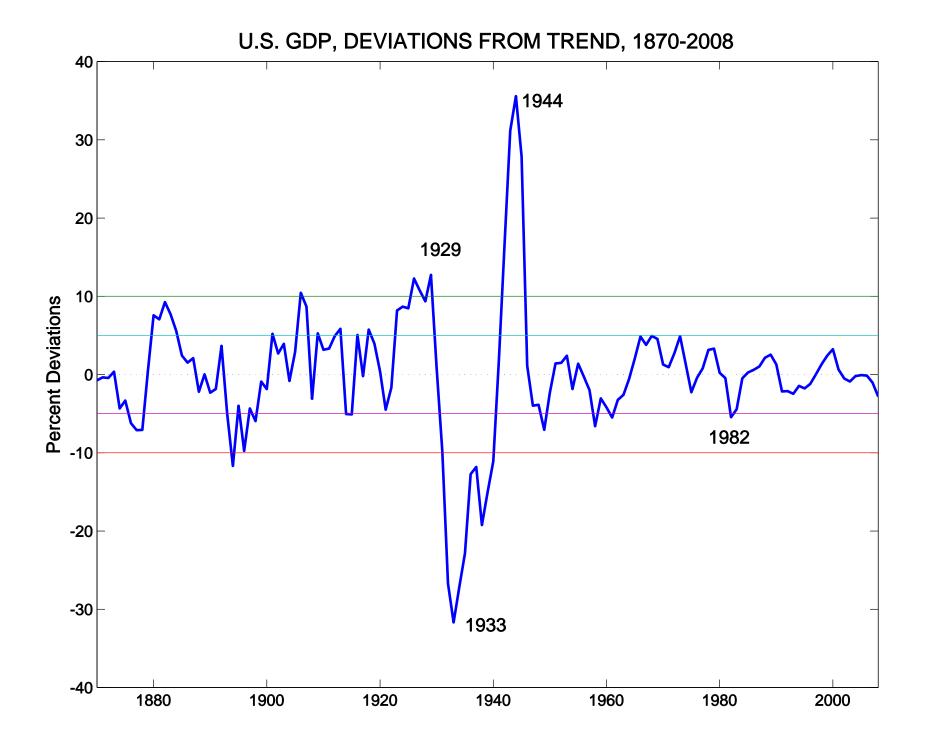
$$\$ \times \left(\frac{1}{t}\right) = \left(\frac{\$}{\mathsf{apple}}\right) \times \left(\frac{\mathsf{apples}}{t}\right)$$

- Liquidity crisis? Sudden fall in Mv; induces fall in Py
- Which one? P or y?

3 Contraction of 1929-1933

Milton Friedman and Anna J. Schwartz,

A Monetary History of the United States



CONTRACTION OF 1929 - 1933

Year-to-year Percent Changes

Year ending	Real GDP	Price level	Bank deposits	Reserves
1929	5.9	2	-1.4	-3.1
1930	-9.3	-4	-4.7	4.3
1931	-8.0	-8.8	-20.6	-5.9
1932	-14.1	-9	-11.3	2.2
1933	-2.1	-2.6	-11.6	7.8
1934	7.4	7.7	16	35.8

- Cumulating these changes, real output fell 34% from 29 peak to 33 trough
- Price level fell 24%
- Add these to get a 58% decline in spending on goods and services in this 4 year period

....or dollar value of Mv and of Py

- Which: M or v?
- Which: P or y?

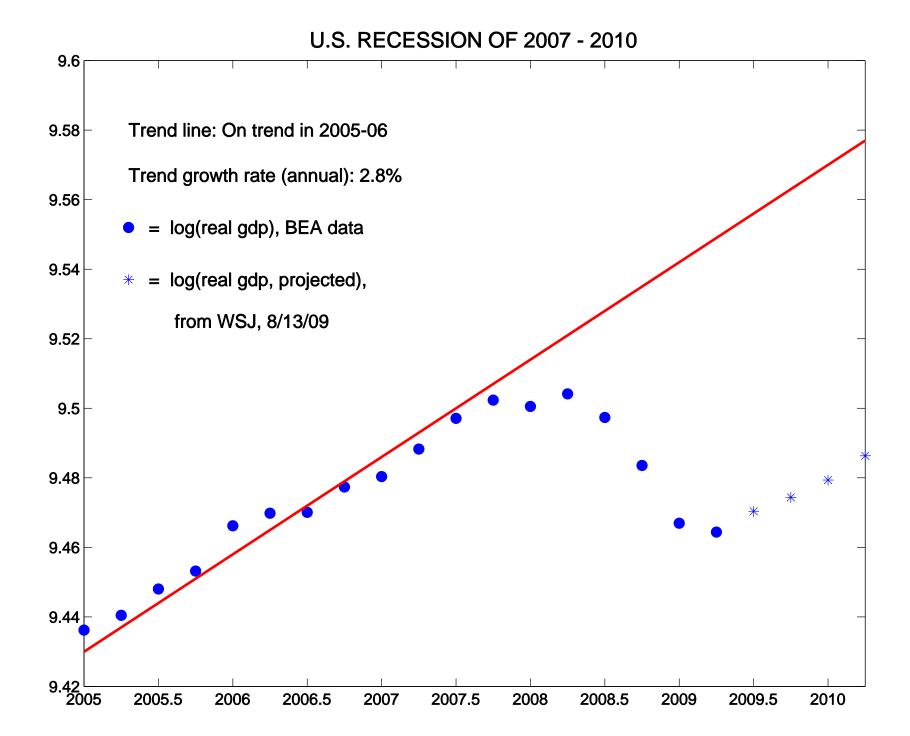
In 1929: $\frac{\text{bank deposits}}{\text{GDP}} \cong 0.5$

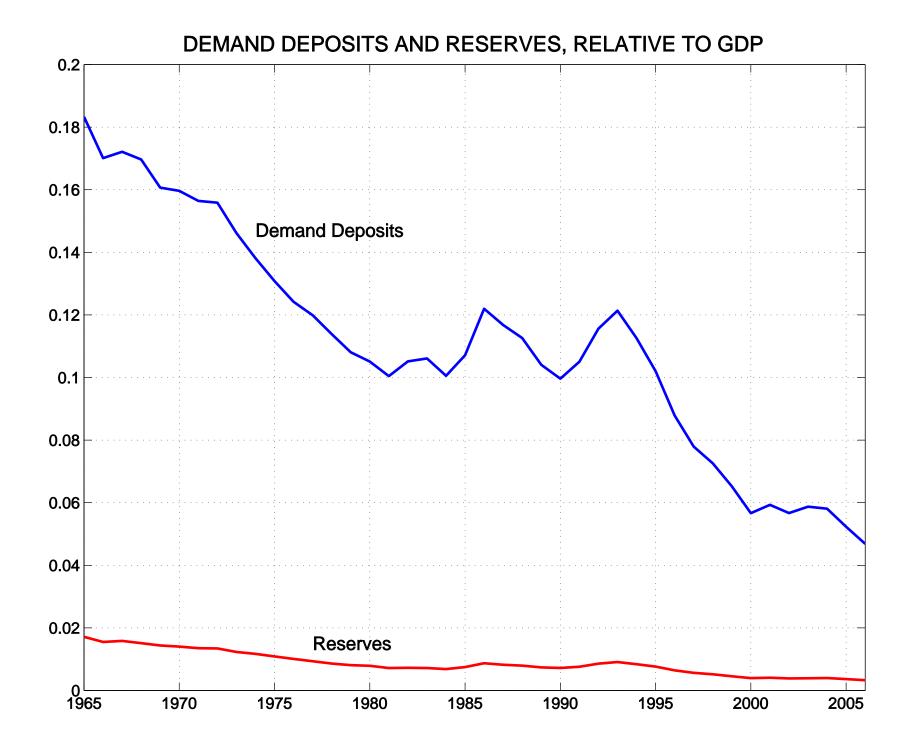
In 1933:
$$\frac{\text{bank deposits}}{\text{GDP}} \cong 0.5$$

- What could have been done?
- Look at reserves!

4 Panic of 2008

- Repeat of 1930?
- Differences and similarities





- In 1930, the Federal Reserve stood by and watched as spending and production declined
- In 2008, the Federal Reserve did exactly the opposite
- In August, 2008, there were \$45 billion of reserves in the banking system
- By the end of the year, there were \$821 b.
- By August, 2009 there were \$856 b.