# U.S. then, Europe now

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## Situation now in Europe

- 1. Monetary union (23 countries)
- 2. A European central bank (ECB)
- 3. Weak central government
- 4. Fiscal authority lies in 23 subordinate national governments

## Situation now in Europe

- 1. Weak center can't tax and spend much
- 2. Big debts from subordinate national governments
- 3. Deep discounts on some countries' debts
- 4. Obscure European policies toward bailouts and disciplines

# Questions facing Europe's voters

- 1. Who pays what?
- 2. Struggles about sovereignty
- 3. Struggles about generosity of welfare state(s)
- 4. What is Europe to be?

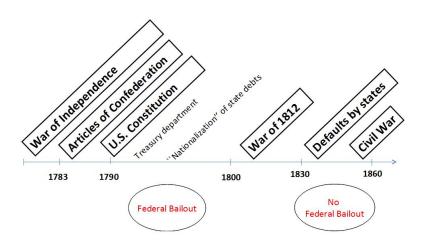
## We have been here before

- 1. Underlying economic and political issues
- 2. Design (or evolution?) of federal systems
- 3. A north American example

# Fundamental questions for Europe

- 1. Should governments **default** on their debts?
- 2. Should a central government bailout subordinate states?
- 3. Should a monetary union precede a fiscal union?
- 4. Should a fiscal union precede a monetary union?

### "United States Then" - Fiscal Timeline



## Outline

- ► Fiscal arithmetic
- Fiscal and monetary choices of U.S.
- ► The current situations in the U.S. and EU
- Lessons

### Model For Government Debt – Variables

- $g_t \sim$  government purchases.
- ▶  $T_t \sim \text{tax collections}$ .
- $s_t = T_t g_t \sim$  net-of-interest surplus.
- $R \sim \text{gross (risk-free)}$  interest rate.

## A Simple Model For Government Debt

- ▶ The value of the government debt is cumulated value of past deficits  $-s_{t-j}$ .
- ▶ The value of the government debt also equals the expected present value of future *surpluses*  $s_{t+j}$ .

# **Economic Theory**

- 1. What determines  $s_t$ ?
- 2. Economic Model
  - Environment
    - Agents
    - Actions
    - ► Information flows
    - ► Timing protocols
  - Optimizing behavior
  - Equilibrium

# **Economic Theory and Outcomes**

 ${\sf Environment} + {\sf Behavior} + {\sf Eqb}$ 

Prob. Dist. Over Outcomes

# **Economic Theory and Outcomes**

Economic Model

 ${\sf Environment} + {\sf Behavior} + {\sf Eqb}$ 

= Prob. Dist. Over Outcomes

# **Economic Theory and Outcomes**

Economic Model

$$Environment + Behavior + Eqb$$

= Prob. Dist. Over Outcomes

- Government, Voters, Creditors
- Fiscal and Monetary Policies, Voting and Portfolio Choices
- Political Institutions (Constitutions)

 $\{s_t\}$  , R

# 1781-1787: U.S. After War of Independence

### **Environment**

- Articles of Confederation
- Weak Continental Congress
- High debt from war
- $\bullet Uncoordinated \ trade/fiscal \ policies$

#### **Outcomes**

- Deep discounts on IOU's
- 14  $\{s_t\}$

### 1790's: The U.S. Constitution

### "New" Environment

- The U.S. Constitution
- Federal bailout of states
- Consolidation of trade/fiscal policies
- Exclusivity to tax

#### **Outcomes**

- No discounts on IOU's
- Increased liquidity
- Large federal tax revenue

Monetary arrangements as an afterthought.

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Reputation with creditors vs. reputation with states

## 1840's: Fiscal Crisis

- What kind of fiscal union?
  - Expenditure
  - ▶ Bond-issuance
  - Taxation
- ► Eleventh Amendment and Congress's refusal to bail out states
- ▶ Rewritten state constitutions with balanced budget provisions

## U.S. then

- Deep discounts on bonds
- Uncoordinated fiscal policies
- "Messy" monetary arrangements
- Large federal debt

### EU now

- Deep and varied discounts on member state bonds
- Uncoordinated fiscal policies
- Centralized monetary arrangements
- ▶ No "federal" debt

## Questions

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