

Advanced Macroeconomics I

Lecture 3 (6)

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Spring 2010

Empirical Evidence of Convergence

- Whether poor countries tend to grow faster than rich countries?
- Baumol (1986) examines convergence from 1870 to 1979 among the 16 industrialized countries

$$\ln \frac{y_{i,t}}{y_{i,0}} = a + b \ln y_{i,0} + e_i$$

$$a = 8.457$$

$$b = 0.995 \quad (0.094)$$

$$R^2 = 0.87$$

- $b = -1$ corresponds to perfect convergence: higher initial income on average lowers subsequent growth one-for-one, and so output per capita in 1979 is uncorrelated with its value in 1870
- DeLong (1988) criticizes: sample selection (only industrialized countries in the sample, while they were poor 100 years ago)





