

Growth

Institutions Slides Econ 560

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Political Institutions and Human Capital

Lecture Note

Growth

Volatility of political institutions and human capital

The table shows the average within-country standard deviation of various measures of political institutions and human capital. Due to data availability, we measure human capital (vares of schooling) and the Polity IV variables of political institutions in 1960, 1965, 1970, 1975, 1980, 1985, 1990, 1995 and 2000. We measure the autocracy variable from Alvarez et al. (2000) for 1960, 1965, 1970, 1975, 1980, 1985 and 1990 only because their data ends at that point. All variables were normalized to vary between 0 and 1. All variables are defined in Appendix 1.

	Polity IV		Alvarez et al. (2000)	
Executive constraints (1960-2000)	Democracy (1960-2000)	Autocracy (1960-2000)	Autocracy (1960-1990)	Years of schooling (1960-2000)
	Average	within-country stan	dard deviation	
18.53%	17.52%	19.36%	18.86%	10.33%

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Persistence of Institutions and Human Capital

Lecture Note

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The table shows OLS regressions for the cross-section of countries. The specifications include a constant but we do not report the estimates in the table. Robust standard errors are shown in parentheses. All variables are defined in Appendix 1.

	Dependent variables:			
	Years of schooling (2000)	Executive constraints (2000)	Autocracy Polity IV (2000)	Democracy (2000)
Years of schooling (1960)	1.1773 ^a (0.0885)			
Executive constraints (1960)		0.2719 ^b (0.1246)		
Autocracy Polity IV (1960)			0.1810 ^c (0.0926)	
Democracy (1960)			-	0.3065 ^b (0.1341)
Observations	50	50	50	50
R ²	0.73	0.09	0.07	0.10

a=significant at 1 percent; b=significant at 5 percent; c=significant at 10 percent.

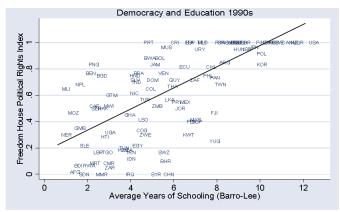
Figure: Persistence of institutions and human capital

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Democracy and Education

Lecture Note

Growth



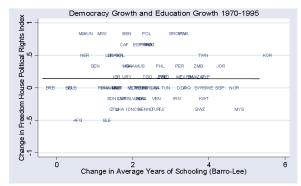
Freedom House Political Rights Index is normalized from 0 to 1 and is from Freedom House (2004). Average years of schooling in the adult population (25 years of age and older) is from Barro and Lee (2000). Values are averaged by country from 1990 to 1999.

Figure: Education and Democracy

Democracy Growth and Education Growth

Lecture Note

Growth



Freedom House Political Rights Index is normalized from 0 to 1 and is from Freedom House (2004). Average years of schooling in the adult population (25 years of age and older) is from Barro and Lee (2000). Changes are total differences between 1970 and 1995.

Figure: Democracy Growth and Education Growth

Fixed Effects Regression

Lecture Note

Growth

	Giaeser et al. (2004) Sample, 1965-2000 5-year data					
		5-ув	u data			
	Fixed Effects OL: (1)	S Fixed E fflects OLS (2)	Fixed Effects OLS (3)	Fixed Effects Of (4)		
Panel A: No Time Riflects			Change in Institut			
	Rose	Autocracy	Democracy	Autocracy		
Institutions, 1	-0.572	-0.547	-0.515	-0.864		
	(0.072)	(0.068)	(0.065)	(0.103)		
Education ₁₋₁	0.498	0.909	0.700	0.096		
	(0.119)	(0.179)	(0.180)	(0.071)		
Log GDP per Capita	0.038	-0.508	0.292	0.267		
	(0.403)	(0.630)	(0.606)	(0.202)		
R-squared Panal B: Including Time Billiots	0.33	0.32	0.30 Change in Institut	0.47		
rana D. Including Line Byecis	Znec.	детает гатаон п Ашостася	Denocracy	Autocracy		
Institutions.	-0.618	-0.616	-0.580	-0.897		
	(0.073)	(0.071)	(0.067)	(0.106)		
Education.	-0.163	-0.318	-0.432	-0.137		
	(0.192)	(0.267)	(0.298)	(0.126)		
Log GDP per Capita 51	0.168	-0.317	0.477	0.292		
	(0.360)	(0.550)	(0.561)	(0.192)		
Time Effects F-test	[0.01]	[0.00]	[0.00]	[0.08]		
R-rquared	0.39	0.40	0.37	0.50		
Panel C: Including Time Effects	Dependent Variable is Change in Institutions					
	Ever.	Autocracy	Denocracy	Autocracy		
Institutions ₅₋₁	-0.617	-0.615	-0.579	-0.891		
	(0.073)	(0.071)	(0.068)	(0.107)		
Education _{s-1}	-0.125	-0.389	-0.324	-0.088		
	(0.182)	(0.229)	(0.289)	(0.125)		
Time Effects F-test	[0.01]	[0.00]	[0.00]	[0.07]		
R-squared	0.39	0.40	0.37	0.49		
Observations	499	499	499	349		

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