World development indicators Which country will develop more

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April-May 2017





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- development = ?
- Invest =?

Raw dataset

Indicators (6 columns)

Country name Country code Indicator name Indicator code Year Value

Country (31 columns)

Country code Short name Table name Long name Alpha 2 code

Currency unit Special notes Region Indice group etc...

Country notes (3 columns)

Country code Series code Description

Series (20 columns)

Series code Topic Indicator name Short definition

Long definition Unit of measure Periodicity etc...

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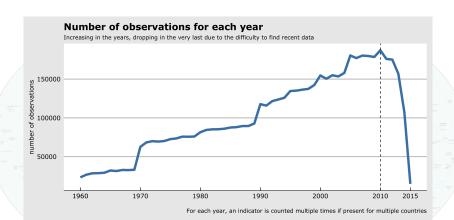
Examples of indicators

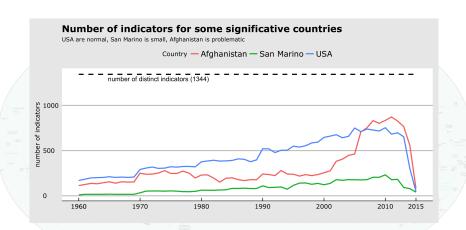
	CountryName [‡]	CountryCode [‡]	IndicatorName	IndicatorCode	Year [‡]	Value [‡]	
4934459	Italy	ITA	GDP per capita (current US\$)	NY.GDP.PCAP.CD	2010	3.587787e+04	
4934460	Italy ITA		GDP per capita growth (annual %)	NY.GDP.PCAP.KD.ZG	2010	1.398210e+00	
	:		:	:	:	:	
5617698	17698 Russian Federation RUS		Exports of goods and services (current US\$)	NE.EXP.GNFS.CD	2014	5.585801e+11	
5617692	Russian Federation	RUS	Exports of goods and services (% of GDP)	NE.EXP.GNFS.ZS	2014	3.002154e+01	

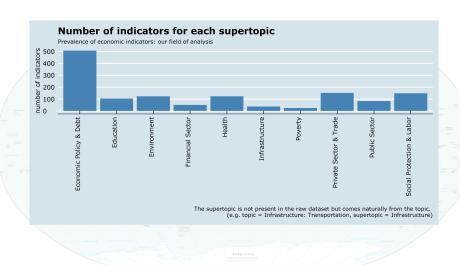
	Countrycode	Serieso	ode		Description									
1	ABW	EG.EG	r.PRIM.PP	.KD	Sources: Estimated	Statistics (2014								
2	ABW	EG.ELC	RNEW.Z	6	Sources: UN Energ									
	ABW	EG.FE	RNEW.Z	S	Sources: UN Energ	ources: UN Energy Statistics (2014)								
	ABW	SM.PO	SM.POI Countr		Name CountryC	ode [©] IndicatorNam	IndicatorName			IndicatorCode		° Year	Value	
5	ABW	SM.PO	5415624	Bulgaria	BGR	Portfolio equity	, net inflows (BoP, curren	t US\$)		BX.PE	F.TOTL.CD.WD	2013	-1.910000e+07	
6	ABW	SP.DY	5415625	Bulgaria	BGR	Portfolio invest	tment, bonds (PPG + PNC	i) (NFL	current	DT.NF	L.BOND.CD	2013	6.344960e+08	
7	ABW	SP.DY	5415626	Bulgaria	BGR	Portfolio Inves	tment, net (BoP, current L	IS\$)		BN.KL	T.PTXL.CD	2013	1.543552e+08	
8	ABW	SP.DY	5415627	Bulgaria	BGR	Poverty heado	ount ratio at national pove	rty line	(% of po	SI.PO	V.NAHC	2013	2.180000e+01	
9	ABW	SP.DY	5415628	Bulgaria	BGR	Power outages	s in firms in a typical mont	h (numl	er)	IC.EL	C.OUTG	2013	1.200000e+00	
10	ABW	SP.DY	5415629	Bulgaria	BGR	PPG, bilateral	(AMT, current US\$)			DT.AN	T.BLAT.CD	2013	6.899600e+07	
11	ABW	SP.DYP 5415630 Bulgaria E		BGR	BGR PPG, bilateral (DIS, current US\$)		DT.DI	DT.DIS.BLAT.CD	2013	9.600000e+04				
12	ABW	SP.DY	5415631	Bulgaria	BGR	PPG, bilateral	ateral (DOD, current US\$)			DT.DC	D.BLAT.CD	2013	4.888450e+08	
13	ABW	SP.DY	5415632	Bulgaria	BGR	PPG, bilateral	(INT, current US\$)	IS\$) DT.INT.BLAT.CD		T.BLAT.CD	2013	1.514000e+07		
14	ABW	SP.PO	5415633	Bulgaria	BGR	PPG, bilateral	(NTR, current US\$)			DT.NT	R.BLAT.CD	2013	-8.404000e+07	Nations World Population Prospects
		- 1	5415634	Bulgaria	BGR	PPG, bilateral	(TDS, current US\$)			DT.TD	S.BLAT.CD	2013	8.413600e+07	Nations World Population Prospects
		- 1	5415635	Bulgaria	BGR	PPG, bilateral	concessional (AMT, curre	nt US\$		DT.AM	MT.BLTC.CD	2013	6.631000e+07	Nations World Population Prospect
	5415636 5415637		5415636	Bulgaria	BGR	PPG, bilateral	concessional (DIS, currer	t US\$)		DT.DI	S.BLTC.CD	2013	9.600000e+04	1 Nations World Population Prospec
			Bulgaria	BGR	PPG, bilateral	concessional (DOD, curre	nt US\$		DT.DC	D.BLTC.CD	2013	4.736750e+08	Nations World Population Prospec Nations World Population Prospec	
		5415638 Bulgaria			BGR	PPG, bilateral	concessional (INT, curren	t US\$)		DT.IN	T.BLTC.CD	2013	1.410900e+07	and female life expectancy
	5415639 Bulgaria			Bulgaria	BGR	PPG, bilateral	concessional (NFL, curre	nt US\$)		DT.NF	L.BLTC.CD	2013	-6.621400e+07	Nations World Population Prospec
		5415640 Bulgaria			BGR	PPG, bilateral	concessional (NTR, curre	nt US\$		DT.NT	R.BLTC.CD	2013	-8.032300e+07	Nations World Population Prospec Nations World Population Prospec
		5415641 Bulga		Bulgaria	BGR	PPG, bilateral	concessional (TDS, curre	nt US\$)		DT.TE	S.BLTC.CD		8.041900e+07	d Nations World Population Prospect
								15	ABW		SP.POP.TOTL			ed Nations World Population Prospec
									ADO		SM.POP.TOTL			ed from data on foreign population. Fi
									ADO		SP.DYN.CBRT.IN		ita sources : Euro	
								18	ADO		SP.DYN.CDRT.IN	Da	ita sources : Euro	stat
									ADO		SP.DYN.TERT.IN	D	ita sources : Euro	etet

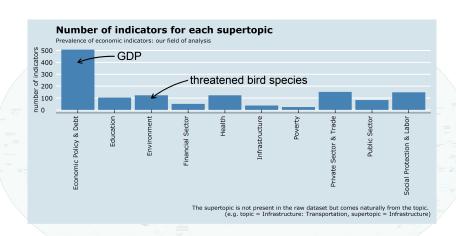
Looking at Indicators as a 3D matrix leads to some problems

- YEARS → not homogeneous
- COUNTRIES → small ones
- INDICATORS → too many to choose easily





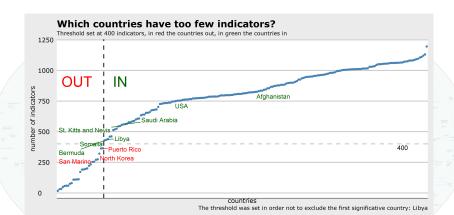




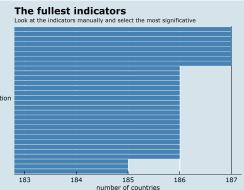
An intermediate goal:

Extract a full matrix with meaningful indicators to perform PCA

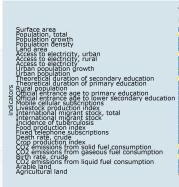


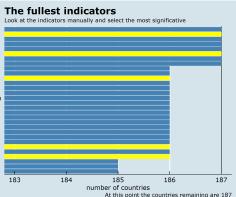






At this point the countries remaining are 187





Example 1

GDP per capita (current US\$) in 2013

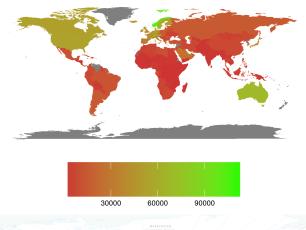


Рис.: GDP per capita, 2013

Example 2

Population ages 65 and above (% of total) in 2010

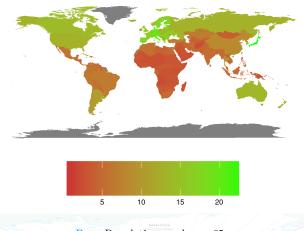


Рис.: Population aged over 65

Example 3

