Tableau Iron Viz: Student Edition – Data Set Information

The 22'/'23 Iron Viz: Student Edition theme is Education. The data sets come from the World Bank and Our World in Data.

In this document

Data Set background & detail information

- **Education: Global Education Statistics (Zip File: IV_2022_2_Education.csv)**
- **Full data set includes:** 1 dimension; 25 measures; 47,027 total records
- The full data set represents educational statistics & figures by country and year, from multiple data sources (shown below)

Data Source	Fields
World Bank! Education Dataset - World Bank (2015)	Entity, Year, Total government expenditure on education, Share of education in government expenditure, Expenditure on primary as % of government expenditure on education
Expected Years of Schooling - UNDP (2018)	Entity, Year, Expected Years of Schooling (years)
Global Data Set on Education Quality	Entity, Year, Average harmonised learning outcome score, Share of students achieving the minimum threshold, Share of students achieving the intermediate threshold, Share of students achieving the advanced threshold
Years of Schooling - based on Lee Lee (2016)	Entity, Year, Average Total Years of Schooling for Adult Population
Educational Outcomes - Hanushek and Woessmann (2012)	Entity, Year, Average test score in math and science, primary through end of secondary school, Average test score in math and science, only lower secondary, Share of students reaching basic literacy (based on average test scores in math and science, primary through end of secondary s, Share of top-performing students (based on average test scores in math and science, primary through end of secondary school)
Cross-Country literacy rates - World Bank, CIA World Factbook	Entity, Year, Literacy rate (CIA Factbook)

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- **Gapminder: Global Demographics Data Set (Zip File: IV_2022_1_Demographics.csv)**
- **Full data set includes:** 2 dimensions; 7 measures; 20,017 total records
- The full data set represents educational statistics & figures by country and year, from multiple data sources (shown below)

Data Source	Fields Used
Total population - Gapminder, UN Population Division	Entity, Year, Total population (Gapminder, UN Population Division)
Life expectancy (Gapminder, UN, IHME)	Entity, Year, Life expectancy - interpolated, Life expectancy - non-interpolated
OWID country to WHO regions	Entity, Year, OWID country to WHO regions
Fertility rate (Complete Gapminder, v12) (2017)	Entity, Year, Fertility rate (Complete Gapminder, v12) (2017)
Maddison Project Database 2018 (Bolt et al. (2018))	Entity, Year, Real GDP per capita in 2011US$, 2011 benchmark (Maddison Project Database (2018)), Total real GDP in 2011US$, 2011 benchmark (Maddison Project Database (2018))

How data was prepped
Education Data
- Data sets joined by Entity and Year
- Limited other changes

Demographic Data
- Data sets joined by Entity and Year
- Limited Changes

Required Citations

Citation:

Education Data
The World Bank: Global Education Statistics.
Expected Years of Schooling - UNDP (2018). United Nations Development Programme (UNDP) Human Development Reports (HDR), which combines data from: UNESCO Institute for Statistics (2018); ICF Macro Demographic and Health Surveys; UNICEF Multiple Indicator Cluster Surveys; and OECD (2017a).
Global Data Set on Education Quality (1965-2015) - Altinok, Angrist, and Patrinos (2018). "Altinok, Nadir; Angrist, Noam; Patrinos, Harry Anthony. 2018. Global Data Set on Education Quality (1965-2015). Policy Research Working Paper;No. 8314. World Bank,

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Years of Schooling - based on Lee-Lee (2016), Barro-Lee (2018) and UNDP (2018) Barro, Robert and Jong-Wha Lee, 2013, "A New Data Set of Educational Attainment in the World, 1950-2010." Journal of Development Economics, vol 104, pp.184-198.

Educational Outcomes – Hanushek and Woessmann (2012) – Do better school lead to more growth? Cognitive skills, economic outcomes, and causation. In Journal of Economic Growth, 17, 267–321.

Demographic Data

Total population - Gapminder, UN Population Division. Gapminder based on Maddison & UN (source url: http://gapm.io/dpop)

Life Expectancy (Gapminder, UN, IHME). Version 12 (source url: (https://www.gapminder.org/data/documentation/gd004/)

OWID Country to WHO regions

Fertility rate (Complete Gapminder, v12) Additional Documentation & Methodology from Gapminder

Maddison Project Database 2018 (Bolt et al. (2018)) Full Citation: Maddison Project Database, version 2018. Bolt, Jutta, Robert Inklaar, Herman de Jong and Jan Luiten van Zanden (2018), "Rebasing 'Maddison': new income comparisons and the shape of long-run economic development", Maddison Project Working paper 10

Notes

Citations can be revealed using Show/Hide button.

Neither The World Bank nor the Our World in Data logos may not be used on your vizzes.