

Transcript

An introduction to visualising development data (4)

PROFESSOR HANS ROSLING:

Have a look at this. Some examples of how you can present data about the countries of the world.

Here, a horizontal axis, babies per woman, all the way from 1 to 2 to 7 to 8. And here, a vertical axis that is lifespan, life expectancy, how many years a newborn can expect to live.

First, you decide which indicators you want to display. Then you can show each country as a bubble.

Here are all the countries. And these green ones is America, North and South. The yellow ones is Europe, East and West. And blue is Africa, north and south of the Sahara. And red is Asia. And we include Australia and New Zealand.

I often use colors to show the region, but you can use colors to show other things. And I let the bubbles size represent another indicator.

The size of the bubble show the size of the population. Look, the big ones over there is China and India, and Bangladesh is just behind.

Animating the bubbles shows how countries are changing and how fast they change.

Here is the data. I start Bangladesh. Indeed, life is getting longer and babies fewer. 6, 5, and life even longer, 4, 3, and they land now almost to 2. It's 2.2, and the lifespan is 70.

Animation works not just for one country, it can show all the countries of the world changing at the same time. And now, independence. And with independence, health is improving faster than it ever did in other countries here. And now starts the fast economic catch-up of China and other Latin American countries.

There are also other ways to show data, like using distribution shapes to show the variations within countries and regions.

And I take down all the countries in the Americas. And now you can see from the richest person to the poorest person. And the height here shows you how many there are on each income level. You can show distributions together. Here I stack them on top of each other. And you can also animate these shapes.

I start the word. And you can see that many people are born into poverty here, but Asia goes towards higher income and one billion goes out of extreme poverty this way, and the whole shape of the world changed.

I'll show you how to do all of this and much more on your own computer. You don't really need a holographic projector in a TV studio.

[APPLAUSE]