

Essay of Narrative Visualization

The message:

Try to show the relationship between average life expectancy and Gdp per Capita, population of countries across five distinct years: 2020, 2015, 2010, 2005, 2000, grouped by region. The data came from WDI data, and was processed by Tableau.

Narrative Structure:

I am using Martini glass for each scene (each scene for a year). I showed the bubble chart for each scene, and then the reader could hover over the bubble to view explicit information of the country. Also, the reader can filter the chart by region listed by the chart.

Visual Structure:

Structure: For each scene the left side is my bubble chart, where the y-axis represents life expectancy and x-axis represents GDP. The right side is my labels for region and annotations of population size.

Highlight: The bubbles of countries from the same region are highlighted with the same color.

Transition: When transiting to different scenes, the structure remains the same. And the color for each country remains the same, so that readers would be easier to understand the connection.

Scenes:

There are five scenes in my visualization. One corresponding to the datas of one year. The scenes are not ordered because I want readers to be free to choose any years they want to know. And the default year shown is 2020.

Annotations:

I add an annotation to the lower right of my bubble chart. The annotation shows population's size to help readers see roughly the population of a country from the bubble chart. For example, they could see some countries have populations over 1000 M.

Parameters:

The first parameter is the Year, It is used to change between different scenes. For example, you could choose the year 2015 to see the scene of data of 2015.

The second parameter is the region. The bubble charts have different states determined by the region. Each state highlights the countries from that selected region.

Triggers:

Trigger1: The readers can choose years from a select button in the left upper region of the chart, then the scene would be the corresponding one. The default set is of the year 2020.

Trigger2: The readers can hover over the region labels to the right of the bubble charts to highlight the countries from the selected region. And when moving away, the charts will go back to the original chart of every scene.