Linked Views in D3

Ruben Timmermans

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1 Short recap

In the visualization of week 7 I wanted to visualize the population density and total population for each country on earth. This to enable us to create a better picture of the world population growth and how one could eventually solve this problem. The trivial infographic for this is a DATAMAP, obviously. When a country is clicked upon, a bar chart appears beneath the datamap containing information on the average income per capita of that country.

2 Development process

In order to create this interactive visualization I used d3.queue to load multiple JSON files to use later on. As soon as the loading process is completed the functions I wrote take control of the data to convert it from merely characters, strings or integers to an actual info-graphic. The first think you will notice about this info-graphic is that almost every aspect is a shade of red. The main reason I used multiple shades of red is that this has a beautiful warm-cold contrast with respect to the background. Unfortunately I was not able to fix some issues I encountered like the x-axis ticks problem. Although it might not bother the reader, it does bother me.
Due to short length of the data-set on average the income per capita, I chose to make a barchart which is interactively connected to the Datamap. The on click event will trigger the updateBarchart function which takes merely the needed information from a particular data-set and updates the bars and only the y axis from the Bar chart. Because: why update the x-axis if the time span is constant?
Another interactive element I wanted to include is switching between the data-set on population density and the data-set on the population. Therefore, I two buttons underneath the data-map which allows the user to switch between different data-sets. Furthermore, when switching between data-sets the values are automatically rescaled to the color-set.