Author	Tereza Iofciu	Agustin
Dataset Type	Table dataset	Spatial dataset
Data Type	Item	Positions
Attribute Name and Type	Country - categorical Land_Area_sqkm - ordinal Population_2020, Density, Med_Age, UrbanPop, WorldShare - quantitative	quantitative
Action	Search	Search
Mark	Aeras 2D	Points 0D for Data samples (city of country) Aera 2D for every country
Channel (Do not just list channels. Please describe the design of them.)	Size (2D size) Use the ratio of population and land area, that is, the country's population density, to establish a radius ratio between the outer circle and the inner circle, that is, the areas covered are different, that is, the sizes are different.	Color saturation Use different color depths to represent the population density at that point. The density (number) of points is also used to represent the density of urban distribution in the area, which visually represents the comparison of population density in different regions of different countries.
Interaction	Manipulate View (Navigate: Unconstrained vs constrained) Select how many countries to be shown	Manipulate View (Navigate: Unconstrained vs constrained) Zoom to show specific countries or areas

Limitation	The population density information of the displayed country is too general and not precise enough, and can only give a rough idea of the size. Displaying the country's population density shows little connection between countries, which makes people feel that they are discrete samples. The ranking is only the land area of the country.	Population density can vary significantly between regions, and using the color depth of points to represent this difference can make comparisons between regions difficult. At the same time, the geographical characteristics and population distribution of different regions will also affect the relationship between the color depth of the points and the actual population density. And its comparison is not as clear as the first visualization method.
Comparison	I prefer the Agustin, which uses different shades of color on a map to distinguish population density. It is more concrete and intuitive compared to the former, which visualizes data through proportional charts. You can get more detials about the world population, even in a country, you can get that there are different population density in different place.	