GDP per capita of countries

In this assessment, I use two main interactive charts for data visualisations. The data comes from The World Bank. On the open-data platform of The World Bank, we can download the data set which is including most countries in the world. I collected the dataset of countries' GDP per capita during the several years. And for this project, I am aiming to show the trends of GDP per capita changed between the years 2011 and 2019. What's more, I will focus on the data for the year 2019, we can order the sizes of GDP per capita by interactive charts.

The first interactive chart is the Bubbles chart which is using the Data Driven Documents (D3). On the core simulation, I want to place the different sizes of individual bubble from "center" to "outlier" by descending order, so I changed the parameter of "forceManyBody (). strength" to -100. I also adjusted the sizes and colors of individual bubble to make this visualization more artistic. We can observe that some countries have high levels of per capita GDP, for example, Luxembourg's GDP per head has reached about 114.7 thousand dollars and the GDP per head of Switzerland also has a high level of about 82 thousand dollars in 2019. According to the different sizes of bubble, we can check whether a country has a higher score on GDP per capita level than other ones in 2019.

And the second interactive chart called Dimple.js that comes from another popular library, JavaScript Chart Library. I have reset the styles of the x-axis and y-axis to make the line plot more suitable for this specified data. We can select a country which we are interested in by option selector. For example, we can pick the United States, it's easy to observe an increasing trend in GDP per head level. And if we want to acquire the information of the whole world by selecting the "world", we can see the economy growing slightly during those years. I also changed the lines' style to improve the visualization of this line chart.

We should make sure that the dataset transfers to interactive charts correctly, which means all data on ordinal CSV file should consistent with charts showing. And final work I did is to add concise titles that ensure the whole HTML page clear and easy for the reader to receive the information.