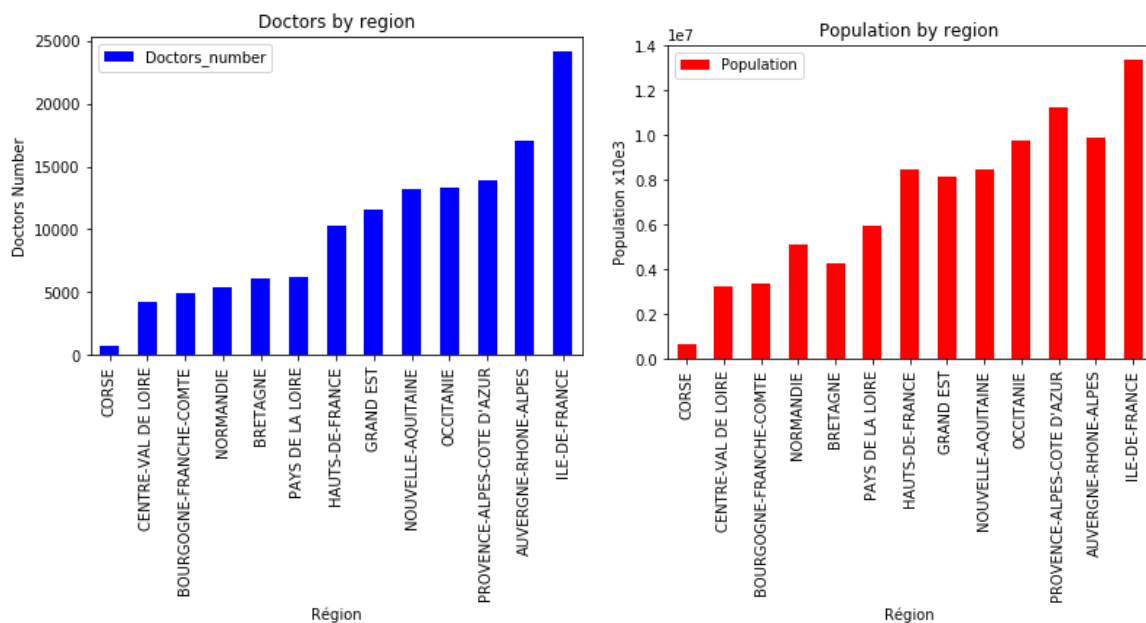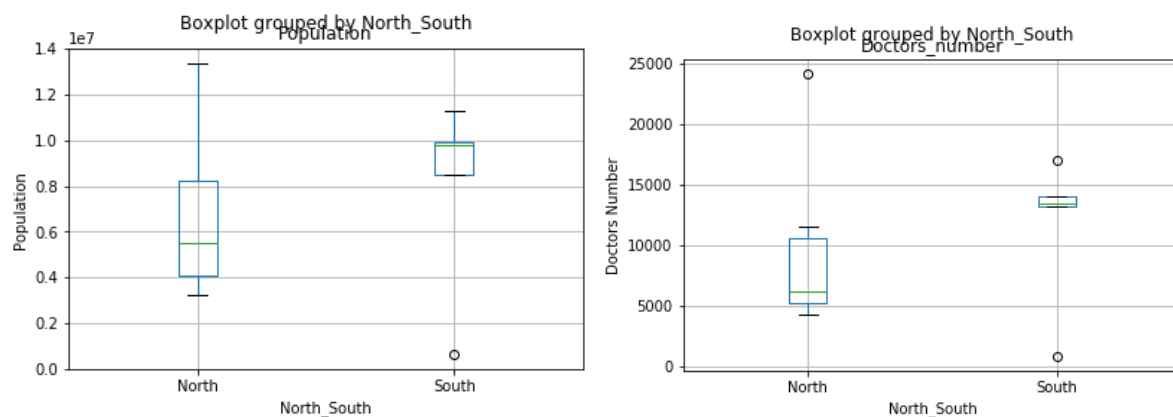# Capstone Project 1: Data Storytelling

The first plot shows the number of doctors for each region of the France. The values are presented in ascending number. We saw a very little number of doctors in Corse which can be explain by the fact that the Corse a little island near to the France. The biggest number of doctors is in Ile-de-France which the capital of the France.
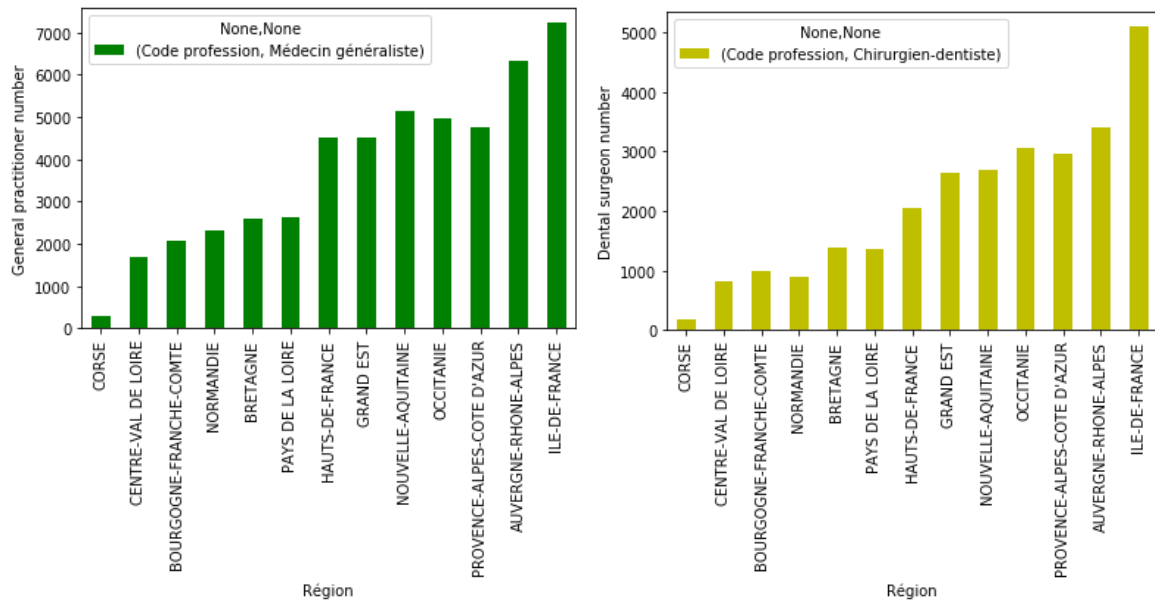
The second plot represents the population for each region of the France. Each region is presented in the same order than the previous plot to compare them. It seems that the population almost follows a similar distribution than the number of doctors.
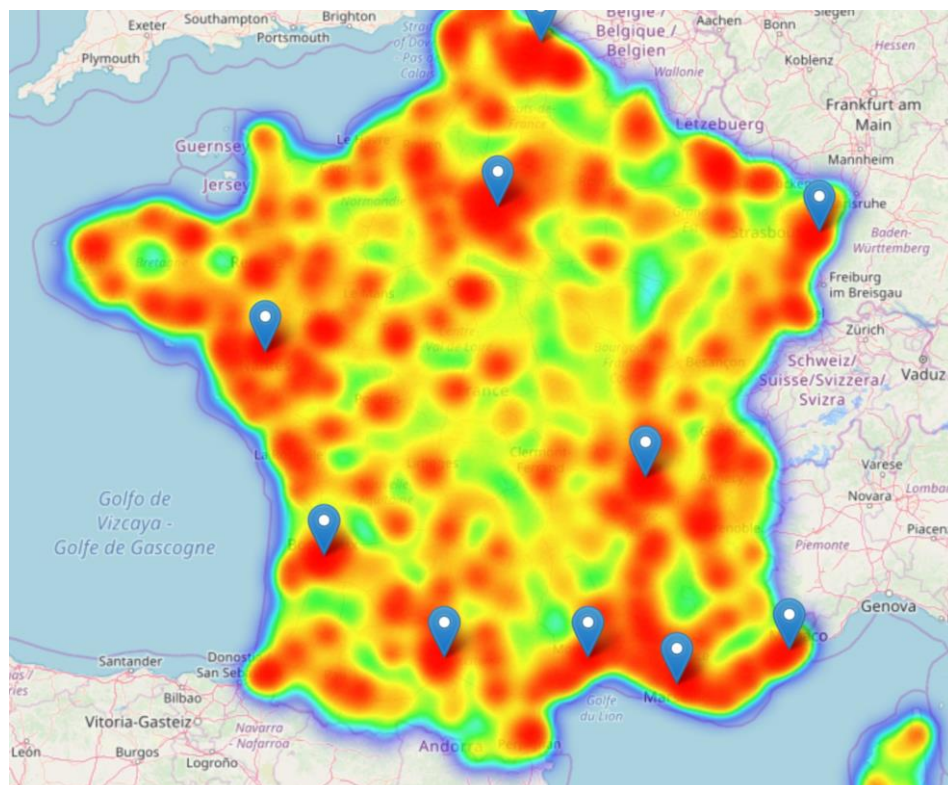
The following plots show the population (first plot) and the number of doctors (second plot) according to the location of the regions (in the north or in the south of the France). It seems there is a lot of more doctors in the regions located in the south of the France but there is also more population on the south of the country.
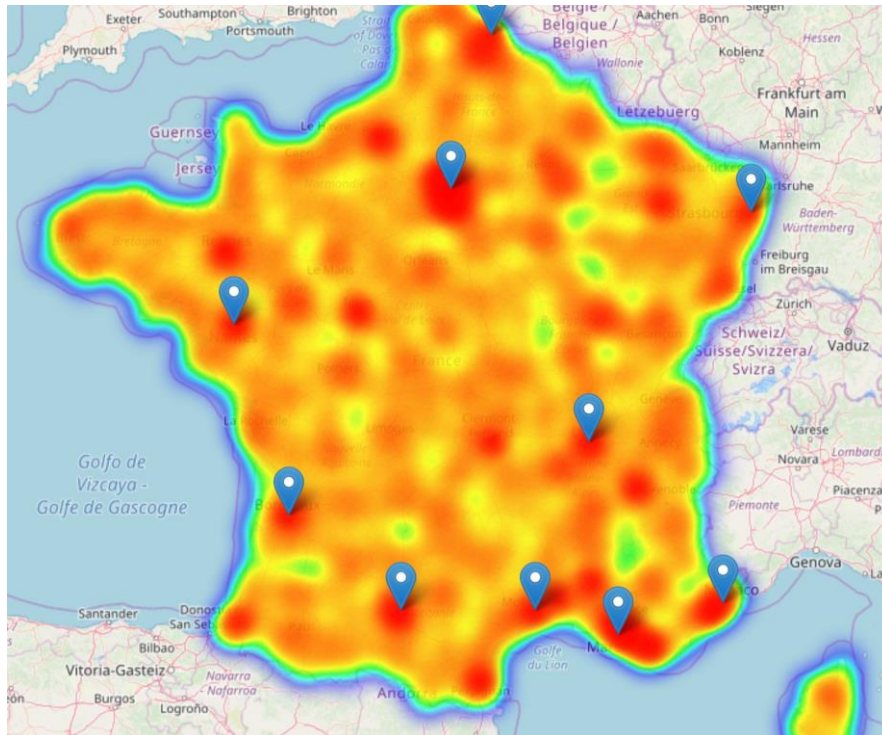
The following plots show the repartition of each general practitioners (first plot) and each dental surgeon (second plot), the two most numerous doctor specialties, for each region (presented in the same order than the previous plots). We can see they seem following the same repartition as the number of all doctors.
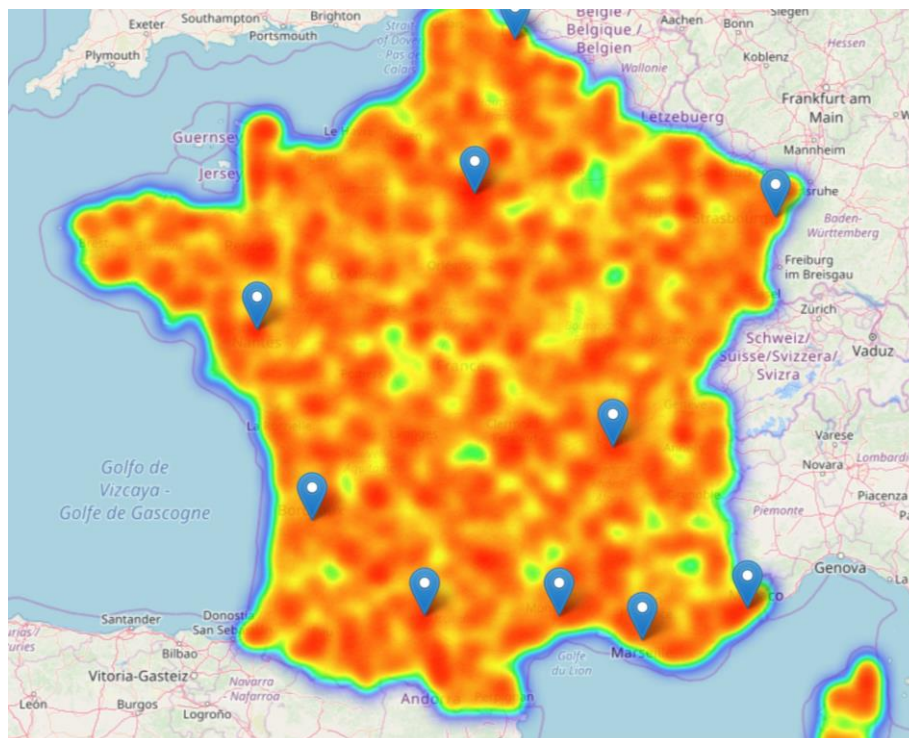

The next plot is a heatmap presenting the density of the population in France. The marker plots show the ten most populated cities in France (Paris, Lyon, Marseille, Toulouse, Bordeaux, Nantes, Strasbourg, Nice, Montpellier and Lille).
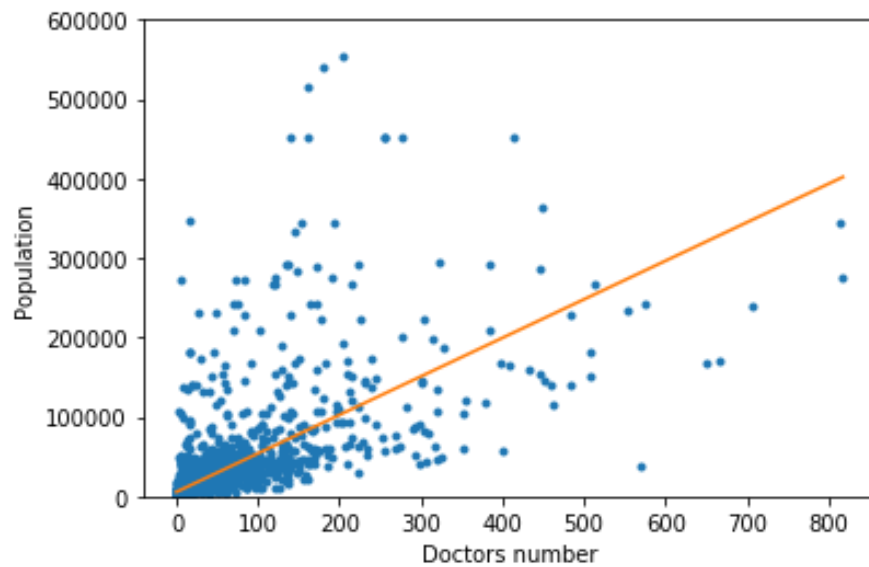
The following plot is a heat map showing the density of doctors in France. We can see there is a lot of doctors in big cities and around the Mediterranean Sea.

The next plot is also a heatmap representing the ratio between the number of doctors and the population in France. According to the heatmap, it seems to have a constant ratio across the France.

The last plot is a scatter plot showing the number of doctors according to the population in France. The orange straight line is the linear regression line. It seems to have a positive correlation between the population and the number of doctors in France. The number of doctors is increasing in the most populated areas of France.

⇨ **Despite differences between the regions of France, there seems to be a correlation between the number of doctors and the population.**