Geoinformation Technology – Ex 1 Interactive Maps – Andrea Mantegna

In this exercise I focus on the creation of an **interactive map** using **Jupyter Notebook** and accessing the data with a **cloud-based method,** in two ways: the first layer comes from a **WFS** from **https://www.opendata.dk/city-of-copenhagen** in format of *GeoJson* and represent the **Tree Basin** coverage of the city; the second layer is a *shapefile format* representing the **Land Use** and it has been uploaded in a Google Drive cloud. The libraries that have been used to perform geospatial interpolation, generate graphs, and display the results are **Folium** and **Seaborn** along the other common one such as **geopandas, matplotlib, request** and **gdown**. The scope of the exercise is to learn how to generate interactive map in Jupyter Notebook by taking as study case the correlation between **tree distribution** and **land use.**

*WeTransfer URL for the **ipynb** file:*
https://wetransfer.com/downloads/d9ee50fec32235d0d590710ff0d66eeb20240405074132/e80ad63ebd17161673b19eb01ecba5622024040507415 5/6ba9b8

I tried to ask my classmates to open it with Jupyter Notebook and it might have some problem but if you try with Visual Studio Code it works smoothly. I am currently trying to fix it for Jupyter.

URL for JupyterLab Notebook Assignment:
http://localhost:8888/lab/tree/Documenti%20PC/_University/_Aalborg/_Survery%20and%20Planning/_1GeoInformationTechnology/_Assignment/1/GIT_Assignment1_Mantegna.ipynb

Appendix here are a few examples of the results.