Project 2: Spatial Data Wrangling & Visualization

Start Assignment

- Due Oct 16 by 11:30pm
- Points 150
- Submitting a file upload

Goal: Combine multiple datasets, clean and join them, and create thematic maps.
Key Skills:

- Spatial joins and overlays
- Attribute filtering and aggregation
- Spatial weights as a starting point for analysis
- Choropleth mapping and advanced visualization

Student Freedom: Pick a topic that combines spatial and tabular data.

Example Ideas:

1. Combine demographic data with neighborhood boundaries to visualize population density.
2. Merge environmental data (e.g., air quality) with city zones to show pollution patterns.
3. Join land use data with zoning regulations to explore urban planning.

Special Notes:

This is a team project.

As stated on the **rubric (https://docs.google.com/forms/d/e/1FAIpQLSeVC9mxBsrsglsFx8LjipXXvJANKRTaYQYJOFq_pX4KtQmmtg/viewform)**, you must show evidence of your editing the product. To do this, turn in at least five different views generated. Along with each view, write a paragraph about what you think is going well, and what needs more attention. The final view you provide should address all of your 'self-criticism' of the project and be your strongest representation of the goal of the project; which is to weigh in significantly on your own hypothesis. This should all be within a Jupyter Notebook that you will turn in for evaluation.

Please review the **rubric (https://docs.google.com/forms/d/e/1FAIpQLSeVC9mxBsrsglsFx8LjipXXvJANKRTaYQYJOFq_pX4KtQmmtg/viewform)** carefully, it specifies in the clearest terms I can provide how you will be graded.