Main Topic

- Analyze public and private school distribution amongst Seattle neighborhoods and compare finding to cost of housing within intersecting neighborhoods.

Target Audience

- Urban planners, policy makers, parents

Study Area

- Urban planning, education equality, housing equality, allocation of city funding

Data Source and Format

- https://data-seattlecitygis.opendata.arcgis.com/datasets/b6de4b1fca644618a60c2a72cbdbbfe5_0/explore?location=47.640474%2C-122.317622%2C11.69 Private Schools
- https://data-seattlecitygis.opendata.arcgis.com/datasets/c31cbdbf093b48eaa4cec1fe6bb7c4f9_0/explore Public Schools
- https://data-seattlecitygis.opendata.arcgis.com/datasets/ac2d58e75faa46628a148939199b4f8d_0/explore Housing Costs
- https://data-seattlecitygis.opendata.arcgis.com/datasets/b4a142f592e94d39a3bf787f3c112c1d_0/explore?location=47.614251%2C-122.336918%2C11.03 Neighborhoods

  These data sources are available in a variety of formats, we will likely use the shapefiles so that we can join the data easily in QGIS.

Project Plan

Combine neighborhood shapefile data with our housing cost table to give it a spatial reference. Create an interactive web map that allows the user to analyze specific neighborhoods to view patterns in cost of housing and distribution of private and public schools. Add interactive widgets and/or mouse events to allow the user to perform these functions.

Map Design

We will likely show housing cost per neighborhood in a choropleth map as our polygon layers, and then private school and public school point data separately as a point map. Afterward, we can show some aggregation of the two where it highlights high COL areas that have lots of private schools or high COL areas that don't have lots of private schools. This would be best done as another choropleth map where it combines the number of private schools within the bounds of the neighborhood with the cost of living in the neighborhood. We could show how closely these two variables coincide

with each other for our line chart. We can give the user the ability to hide/show different layers, and when they click on a polygon or a point, give the user information about the feature, like its name, population (if a neighborhood), etc.

Draft Idea Sketch