Lesson Plan: Urban Planning

Lesson 1: History of the City and Planning Foundations

Lesson Goal: Introduce the idea of city design and how it play a role in shaping the long term outcome of communities.

- Begin with initial city plans of LA
- https://urbanla.weebly.com/history-of-planning.html
- Began with the problem of dramatic population and real estate market growth
- moved to solutions such as zoning and physical development
- 1906: Charles Robinson proposal
- Full city plan started to come together in 1964 when the Statistical Profile for Los Angeles was released.
- Proposed regional centers and transit blue print was created by analyzing population density on a map(data visualization)
- Identify how data (or lack thereof) informed early city planning decisions.
- not dealing with any real data yet but talking about all of these examples as ideas of what data can be, not necessarily just observations in a spreadsheet.

Skills learned:

Lesson 2: Transportation and Infrastrcuture

Lesson Goal: Look at communting, traffic, and transit data -> connect to accessibilty, socioeconomic status and other demographical markers.

- potentially look at traffic collision data
- Looking at pre made data visualizations to start introducing this idea/concept
  - **Crossing Guard Assignment:**https://controllerdata.lacity.org/dataset/Transportation-Crossing-Guard-Assignments-FY19-/mehf-ag3r
  - **Traffic Signals Repaired:** https://controllerdata.lacity.org/d/riis-xa76

- **Parking Citation Data:** Potentially look at location and number of citations analyze based on country and economic development.

Skills goal: begin working in tidy verse learning to summarise data and calculate new variables

- work wih mathlink cubes in an activity on tidyverse data verbs.

LA Open Data: https://data.lacity.org/browse?sortBy=relevance&page=1&pageSize=20

Lesson 3: Enviromental Equity and Green Spaces

- Looking at Tree Equity Score Interactive map
- Tree equity score data/ tree canopy meansures vs.demographic measures
- Mconville: imposing structure on categorical variables
  - restructuring ggplot graph using levels
  - using `fct()` functions
  - data wrangling using dates

Lesson 4:

Lesson 5:

Lesson 6:

Lesson 7:

Lesson 8: