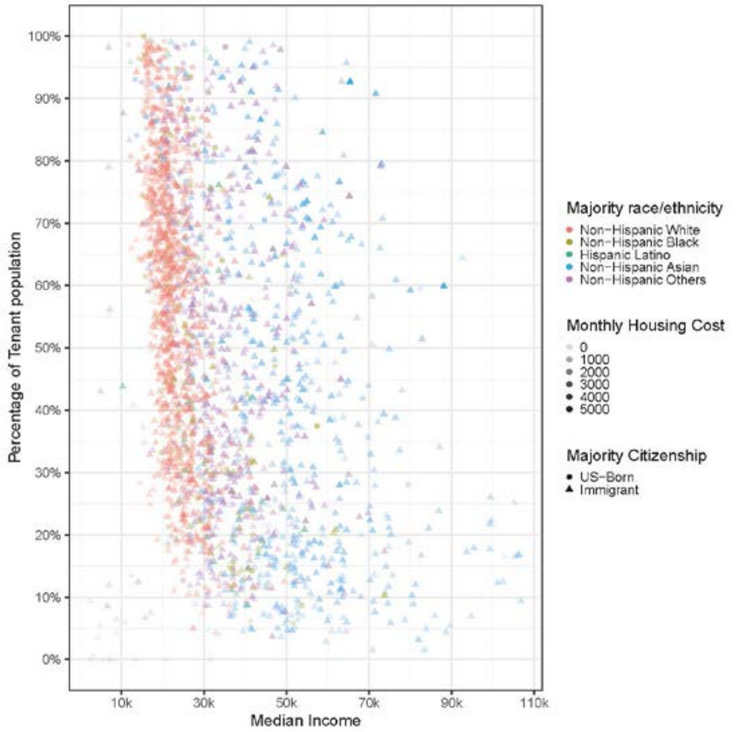
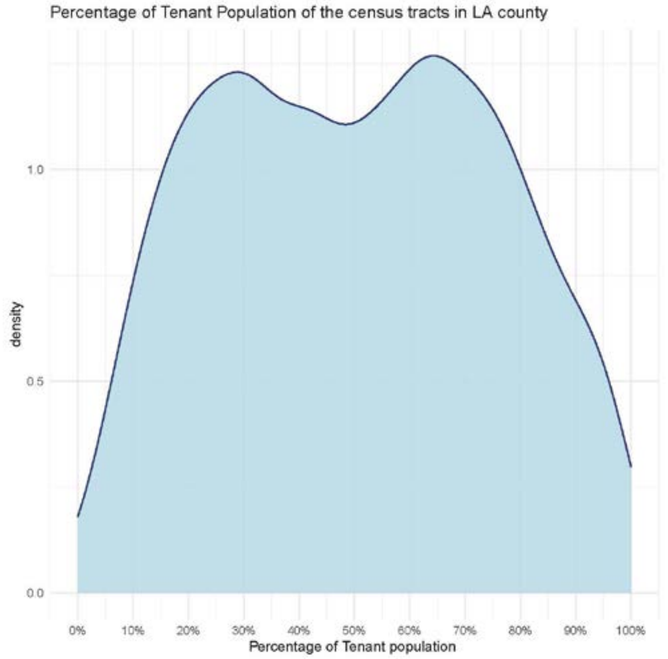
PORTFOLIO

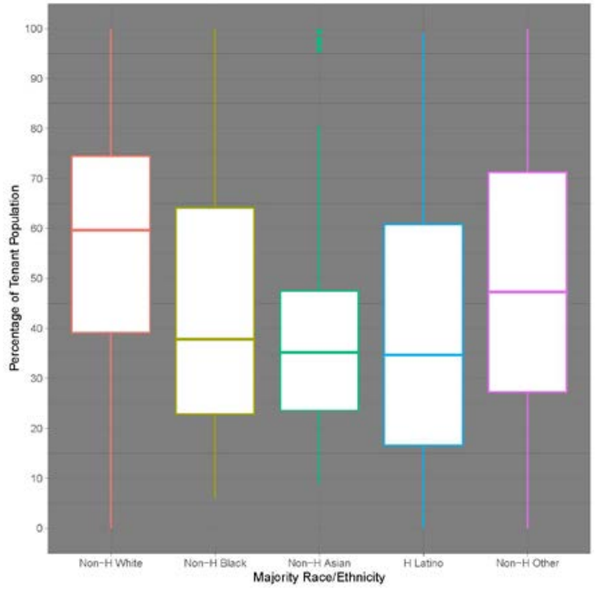
SPATIAL ANALYSIS AND BUILT ENVIRONMENT
FALL2020

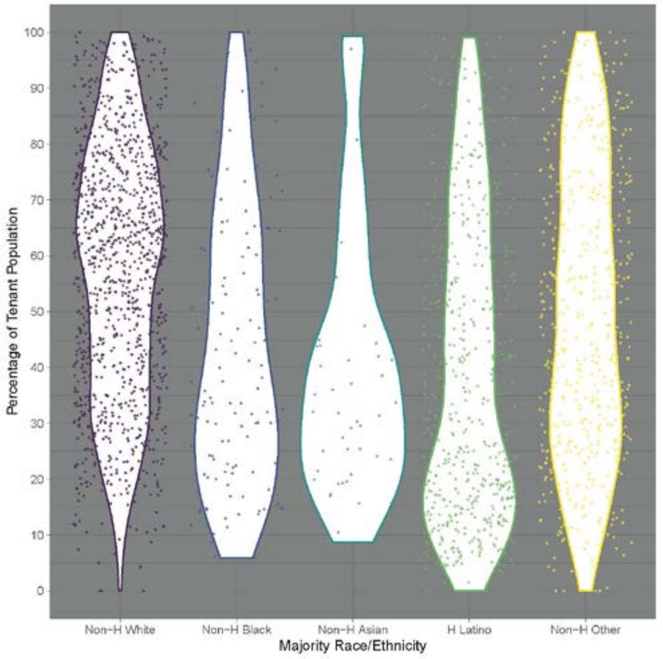
JIWON PARK, MUP '22
HARVARD GRADUATE SCHOOL OF DESIGN

Tract-level Characteristics of Los Angeles







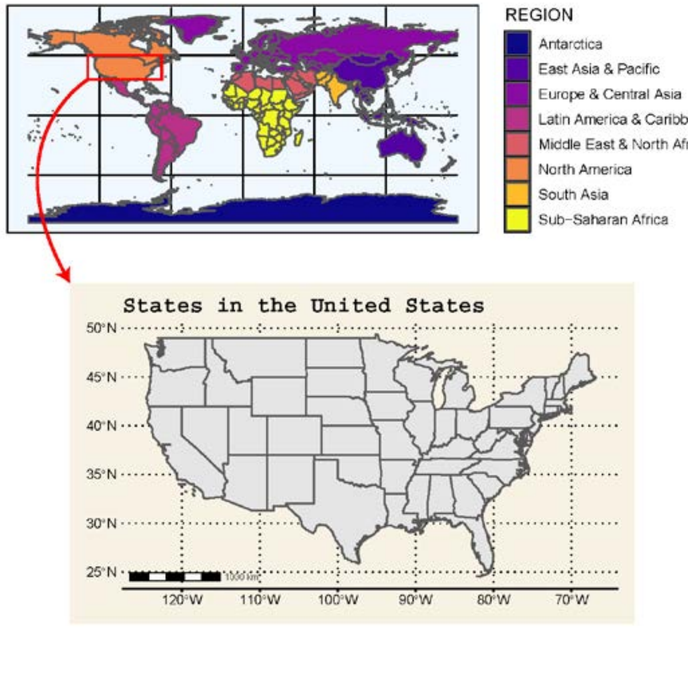


Different types of graphs showing the relationships between race/ethnicity, the ratio of tenant population, monthly housing cost, and majority citizenship at the tract-level in Los Angeles

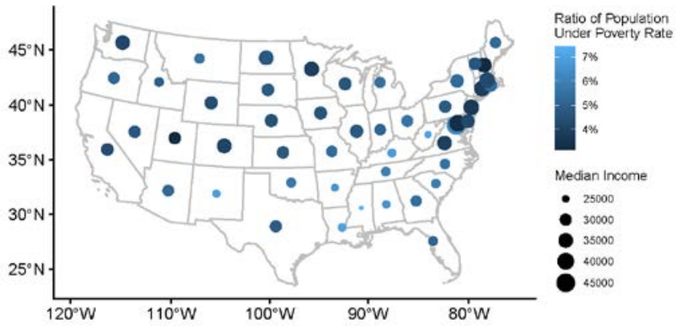
Software Used : R

State-level Variation in Poverty Rate and Median Income

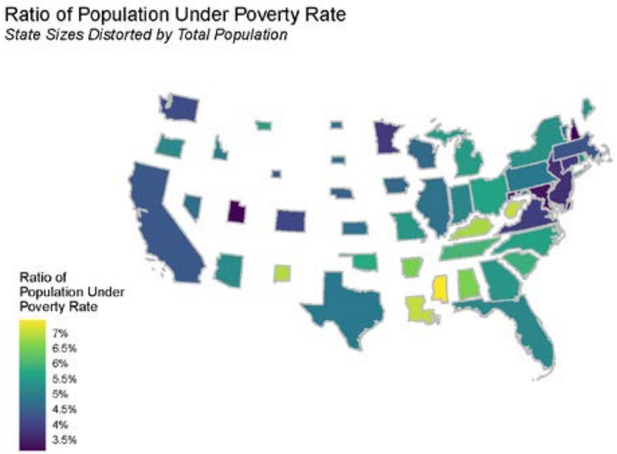
The World and the US Map



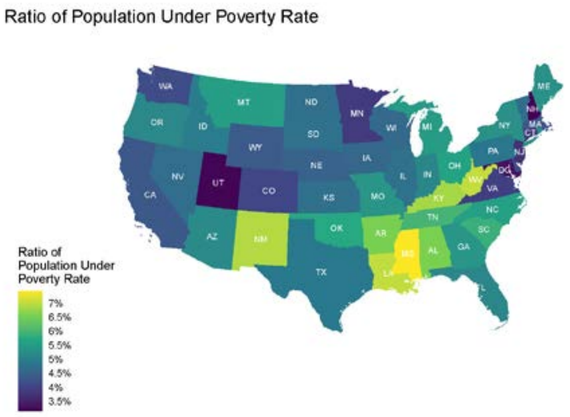
Proportional Symbol Map



Non-continuous Cartograms



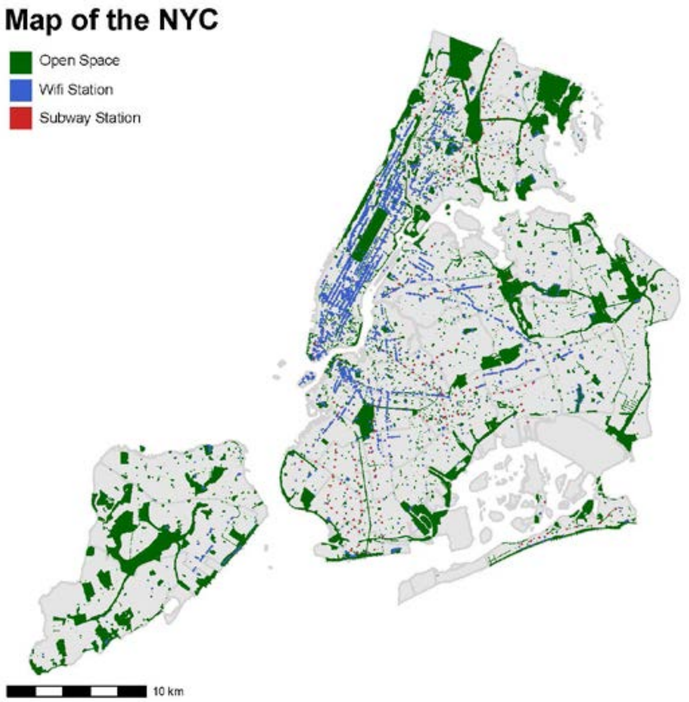
Choropleth Map

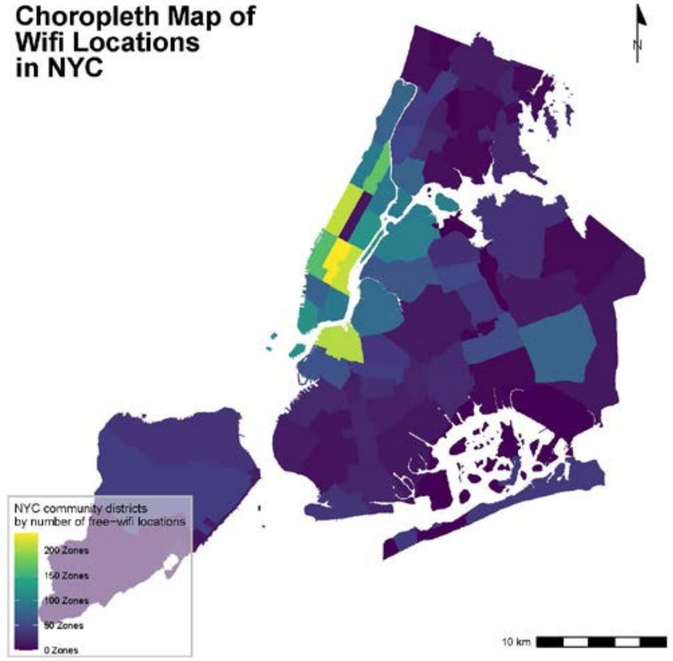


Different types of maps all produced in R showing the variation in poverty rate at the state-level, the distortion by median income, and the relationship between the two variables

Software Used : R, Adobe Illustrator (for adding titles)

Relationships between the Location of Wifi Zones and Subway Stations in NYC

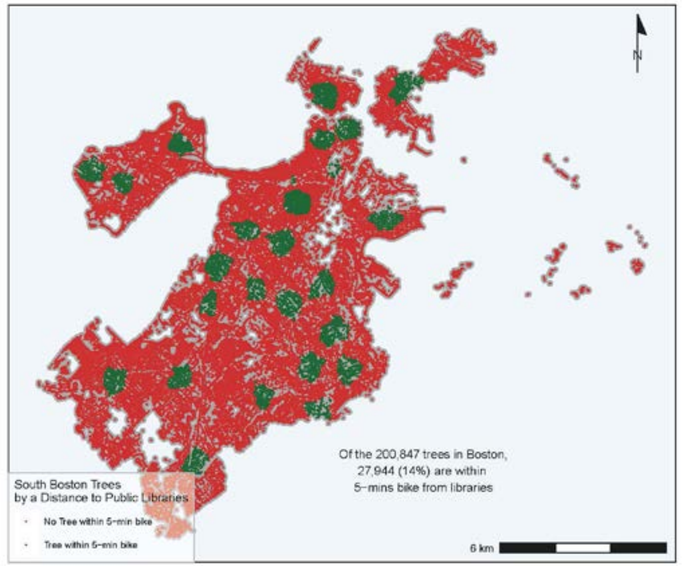


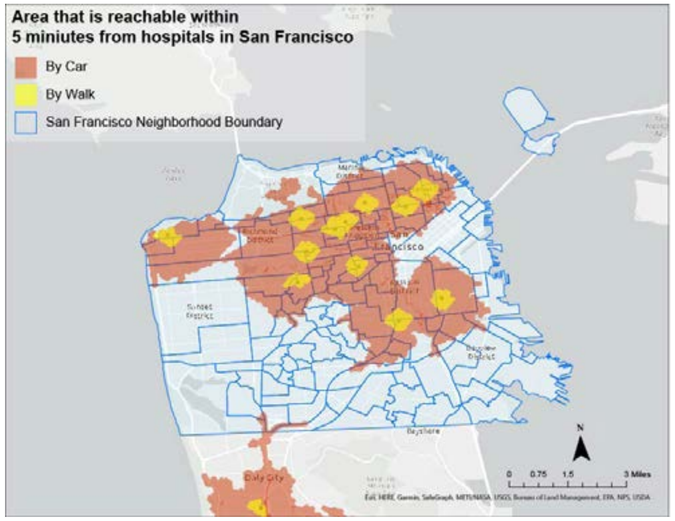


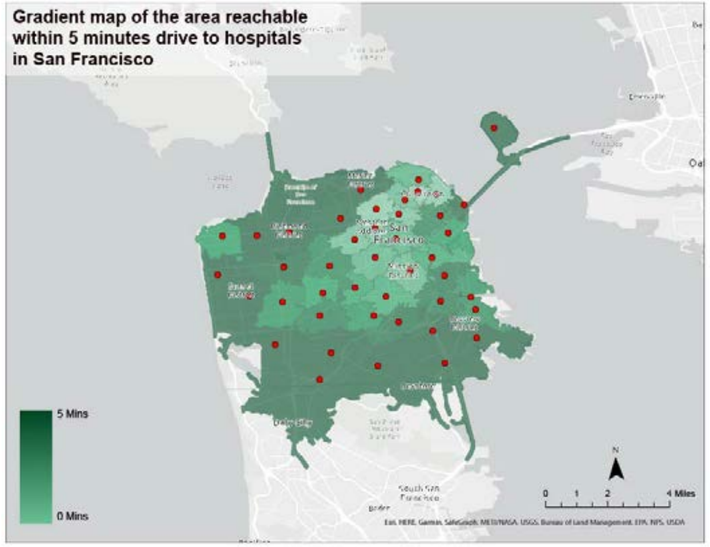
Maps all produced in R showing the level of variation in wifi zones by community districts and the relative distance to the subway stations in NYC

Software Used : R, Adobe Illustrator (for adding titles and legends for the top row)

Drive, Bike and Walk Time Isochrones in Boston and San Francisco



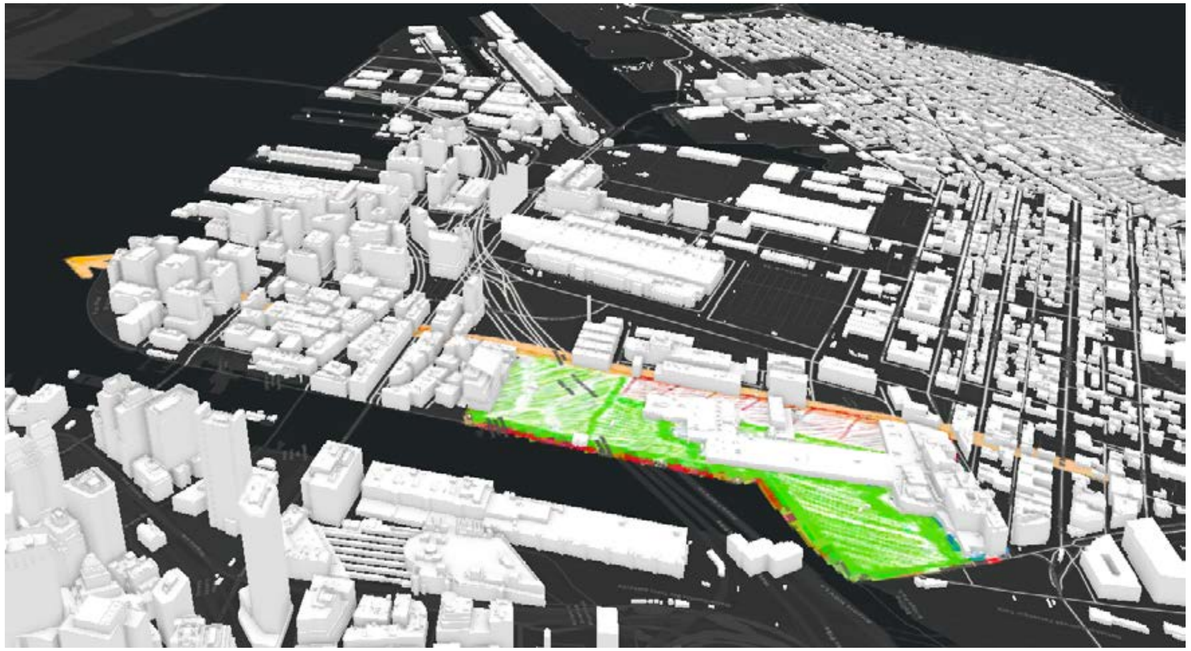


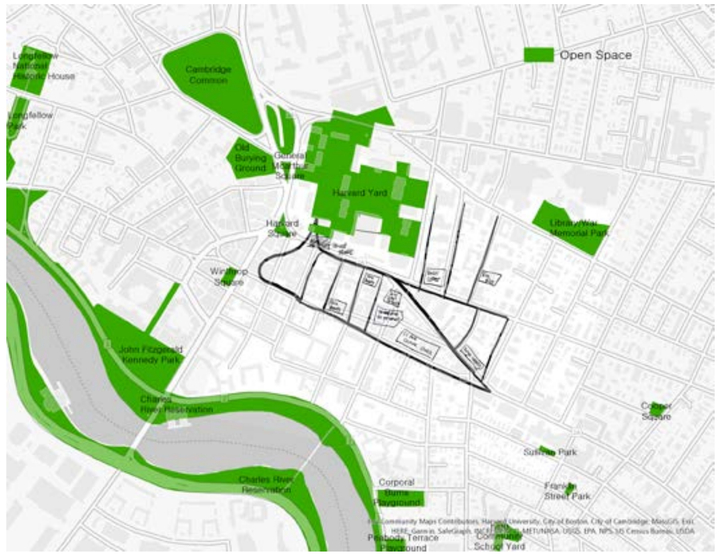


Maps produced in R *(the two in a top row)* and ArcGIS Pro *(the two in a bottom row)* of drive, bike and walk time isochrones from public library *(NYC)* and hospitals *(SF)* in two cities

Software Used : R, ArcGIS Pro

Georeferenced Hand-Drawn Illustrations for Gillette Square and Harvard Yard



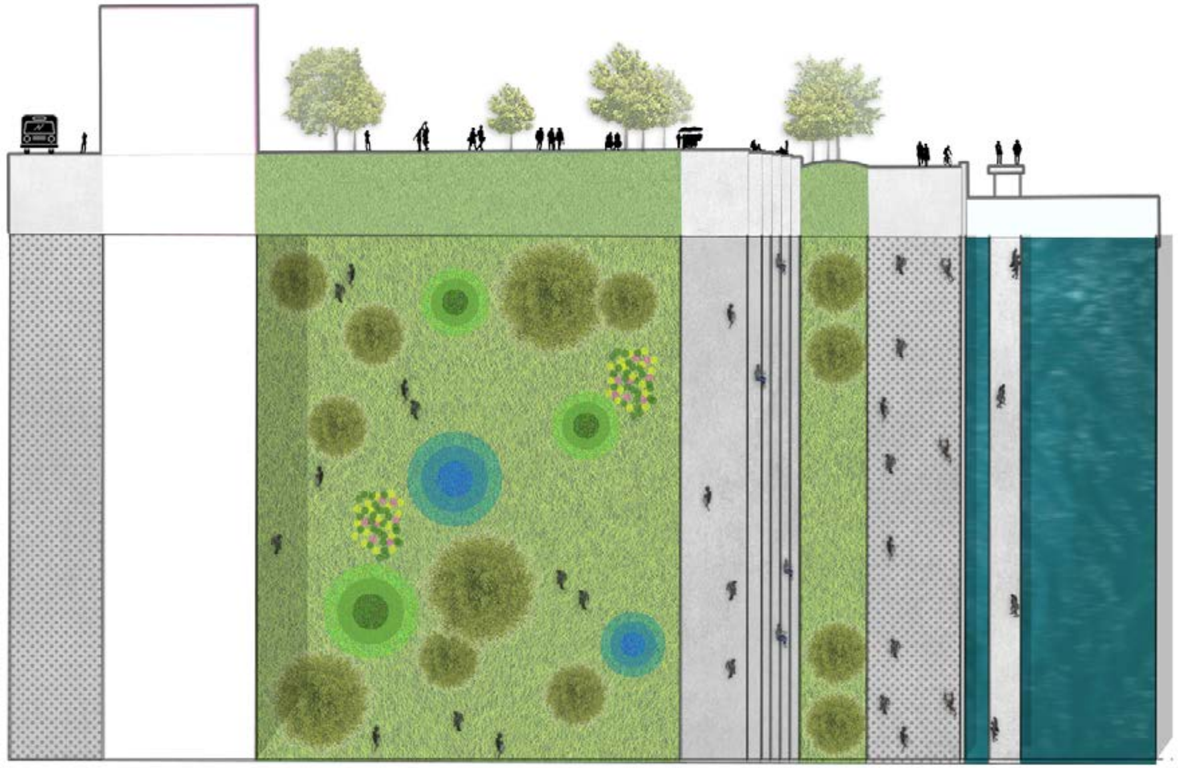


Hand-drawn alternative land use plan for the Gillette Square (South Boston) overlayed on both 3D and 2D maps and hand-drawn maps of important buildings near the Harvard Yard

Software Used : ArcGIS Pro

Collages

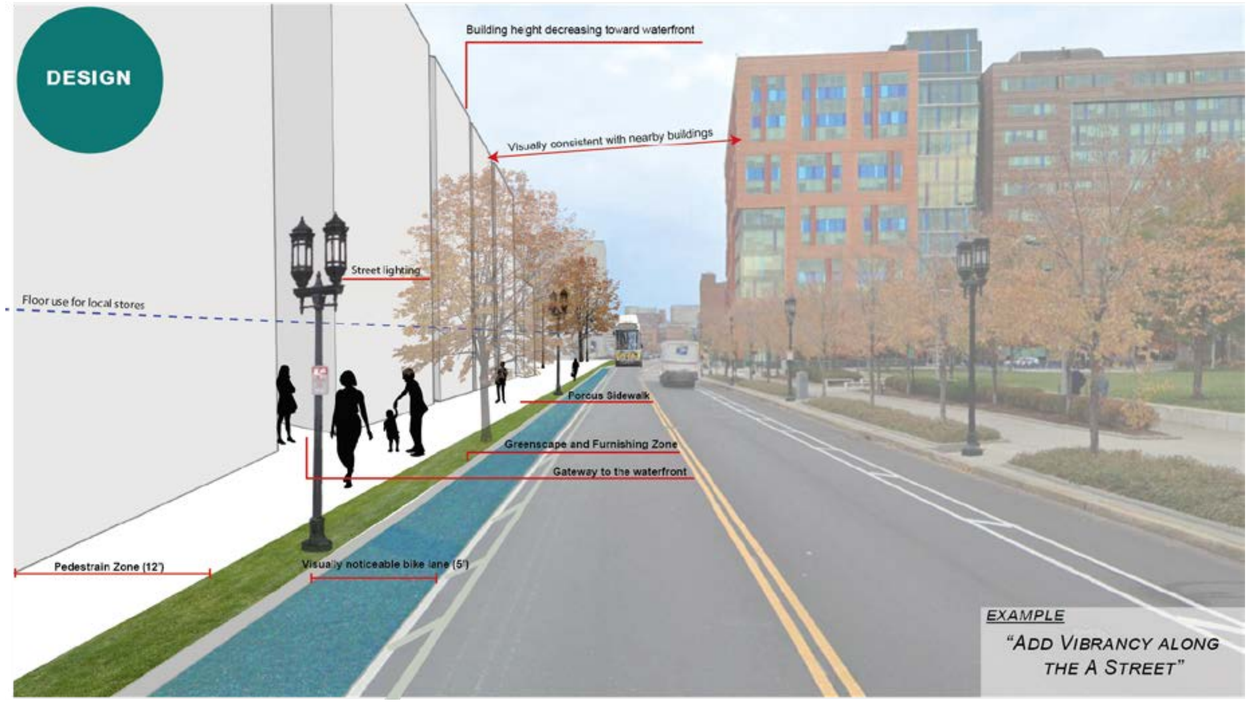
A visual description of a participatory charette
at the Gillette parking lot, South Boston



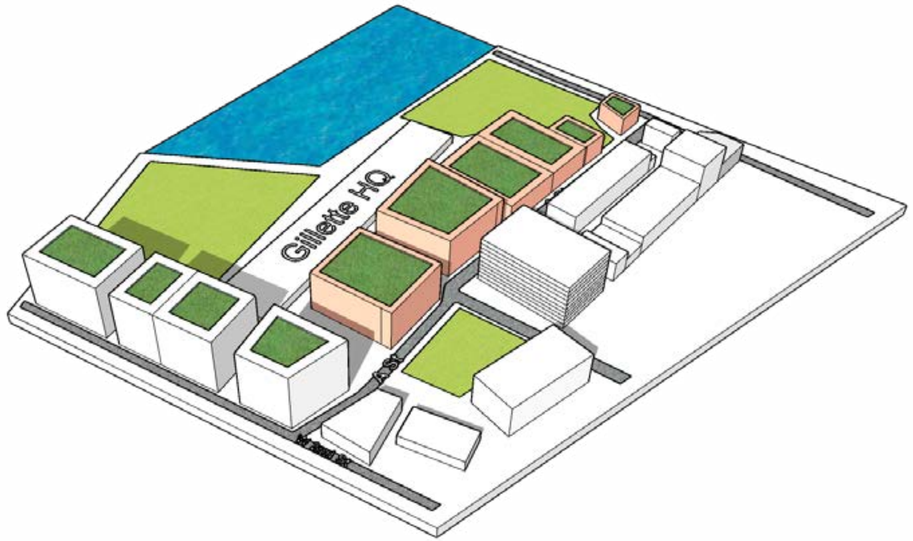
A section collage about waterfront development concept
at Fort Point Channel, South Boston

Software Used : SketchUp, Adobe Creative Suite (Photoshop, Illustrator)

3D Models



Potential Transformation of Gillette Square
along the A Street, South Boston

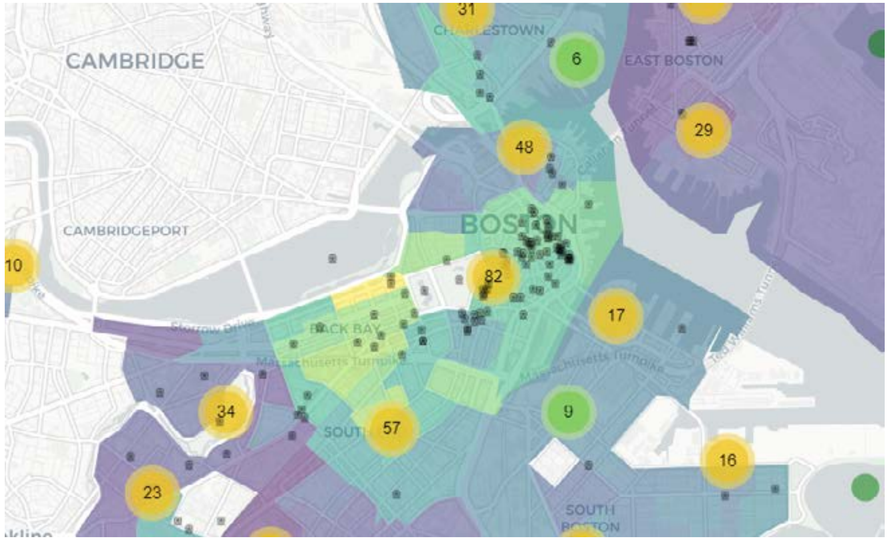


A Conceptual model showing alternative land use,
building height, and massing
at Gillette Square, South Boston

Software Used : SketchUp, Adobe Creative Suite (Photoshop, Illustrator)

Interactive Map of Parks, Home Value, and Landmarks in Boston

A whole picture of the interactive map



The number of parks changes interactively as you expand

LINK TO THE MAP

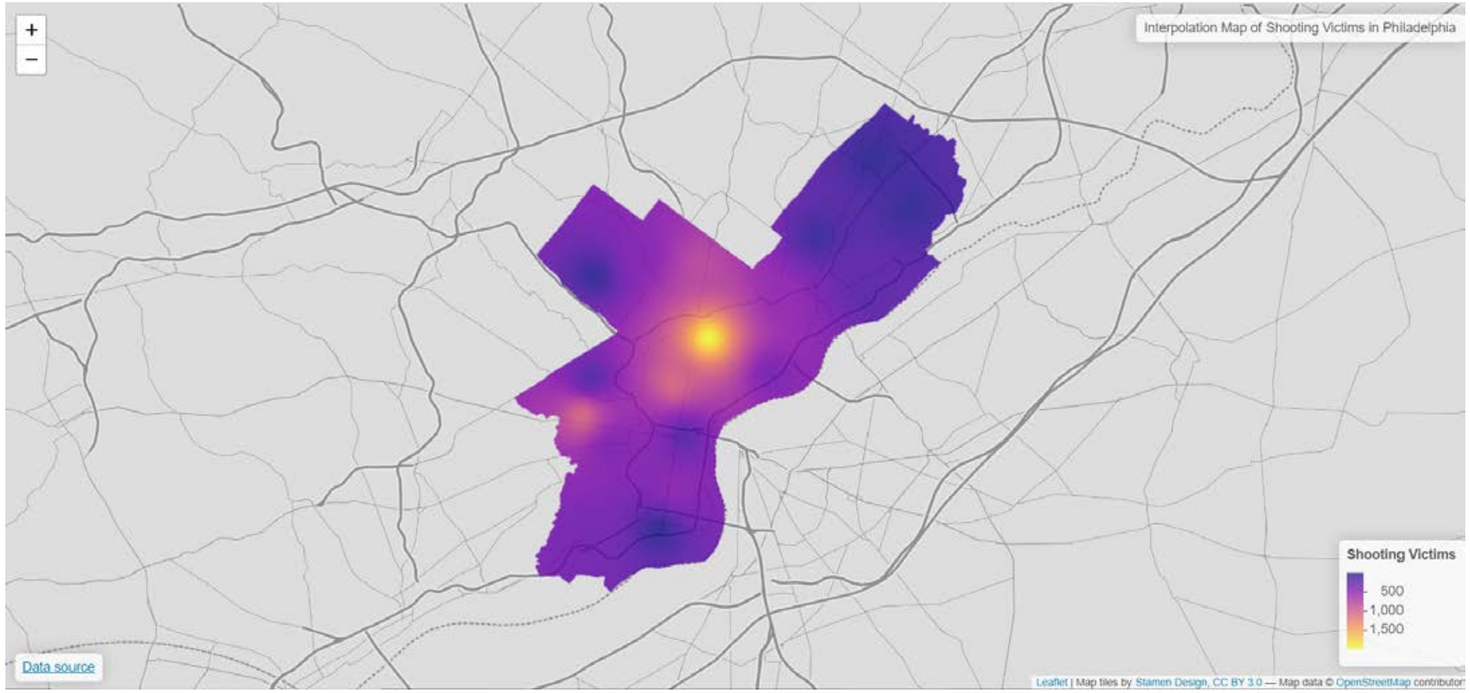
An interactive map that shows information about the parks (interactive number, ownership, name, zoning, area, neighborhood), median home value, and the locations of official landmarks in Boston

Software Used : R

Select which information to show up by toggling on and off

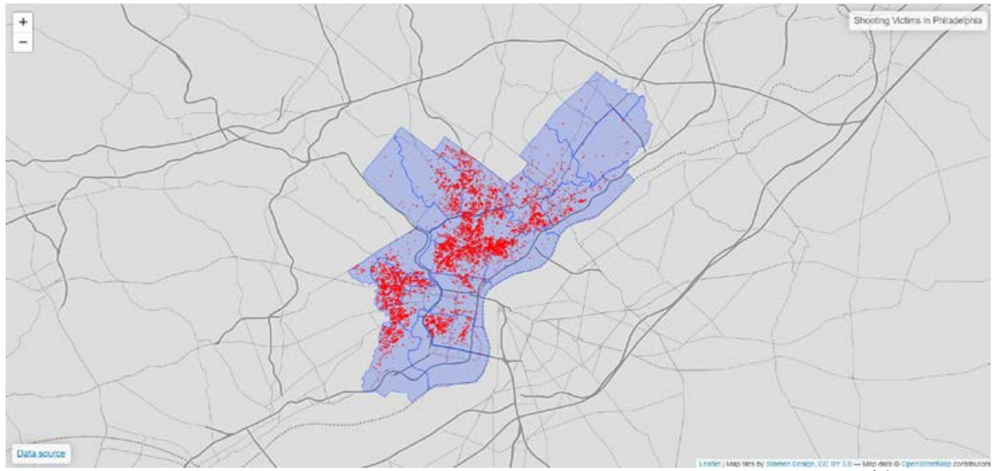
Interactive Interpolation Map of Shooting Victims in Philadelphia

LINK TO THE MAP

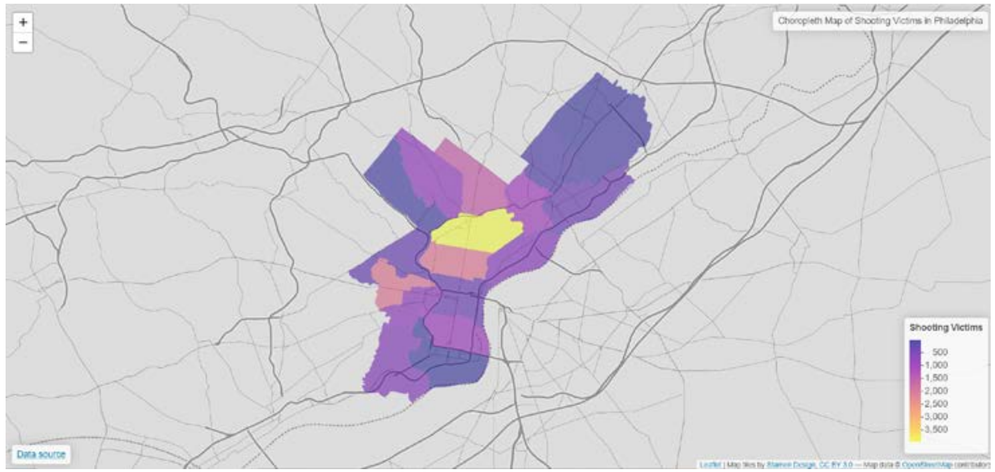


An Interpolation Map of Shooting Victims in Philly

LINK TO THE MAP



A Dot Map of Shooting Victims



A Choropleth Map of Shooting Victims by Neighborhood

LINK TO THE MAP

Three different types of maps showing the locations of shooting victims reported (including the police officer-involved shooting), the number of victims in each planning district, and the interpolation of the data points in Philadelphia

Software Used : R