

## **Design & Rationale:**

For this homework I've created 5 different visualizations on SF's tree, as each of them are listed on the subtitles of each visualization. I've picked up main categories like legal status, species, siteinfo and caretaker in order to tell a story from the SF trees. I've used mostly greenish colors to represent trees compared to the lightgray map background that represent the urban spaces.

Although I tried to make the map seem less cluttered by reducing the opacity and radius for each circle(which represents 1 tree per circle), the overall results doesn't seem plausible as it lacks interactive aspects like zoom-in functionalities. I tried to add legends that are semi-transparent to the background in order to let the audiences know what the visualization means, but this attempt has failed as well.

## **Tradeoffs & Drawbacks:**

For different categories for each SF tree on the map, it's highly unlikely to add legends for each map. For example, I've only labeled 3 out of 12 major legal categories of all the trees in SF. Although most of them are green(DPW Maintained), it would be difficult to label out all the outliers from the map.

This visualization has many rooms for improvements. Adding general statistical plots like barplots would be a better way to help the users understand different categories and portions for SF trees, like how many of them are private owned or resided on the curbsite.