Public Tree Map (publictreemap.org)

Every public tree is a civic resource, take as an example the city of Santa Monica provides a public dataset of about 35,000 public park and street trees(compiled from open datasets, digitized city records, and federal ecosystem services values). The goal of the project was to provide an interface, in the form of a website, that allows one to view, filter,and explore the Santa Monica datasets. In simple terms, Public Tree map is a personal companion for publicly-owned urban forests.

Project Structure and Milestones

The project was broken down into 2-core sections/teams; public-tree-map team which manages the front-end web application and the public-tree-map-data-pipeline team takes datasets provided by Santa Monica and converts it to usesable datasets for the front-end team.

The cleaning procedure involves processing the city data, fetching data from auxiliary sources, and combining it into a set of common data structures that is usable.

Over the lifetime of the project, the following milestones were achieved by the team for successful delivery of the project.

- Developed stakeholder relationships
- Created data pipeline (structured series of scripts) that transforms city data into a usable format.
- Setup of Google Cloud storage bucket to store all tree files and output files used to render map
- Setup of processes around pull requests and code review
- Setup of system on handling of missing species data
- Website hosting and setup

Partners

City of Santa Monica
Public Landscape Division

Contact: Public Tree Map
Github: https://github.com/Public-Tree-Map
HackforLA: hackforla.org/projects/public-tree-map

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