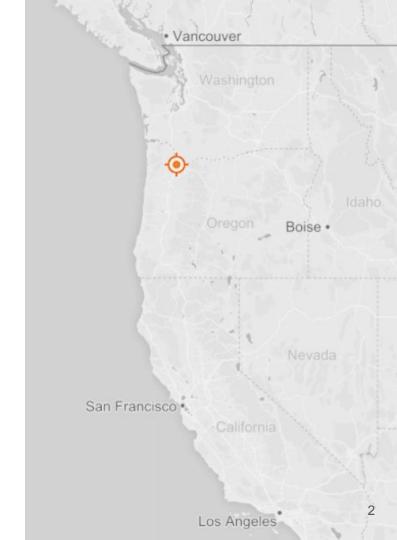
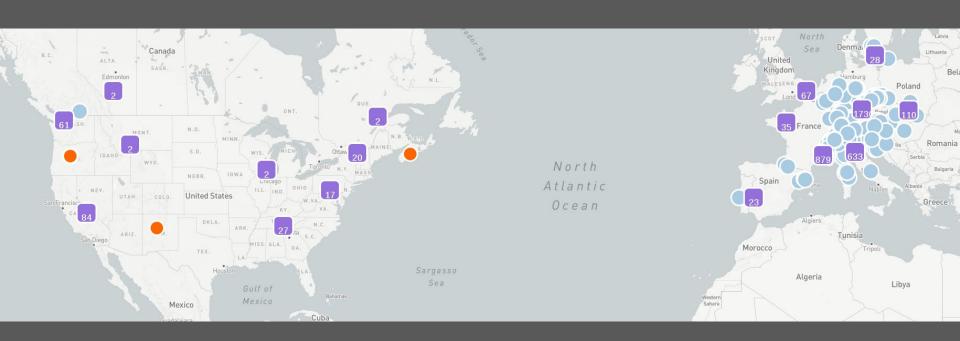


Viet Nguyen

Portland, Oregon

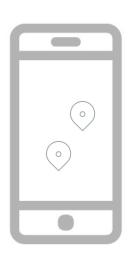
LatLng: 45.532,-122.674





OSM TagInfo [sport=climbing] **11,524** objects

Goals for the "rock climbing app"



Tasks

Aggregate climbing data from various climbing websites

Search & Filter

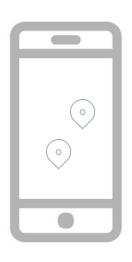
Open Data

Simplify data entry to OpenStreetMap

Climbing-specific API, bulk downloading of data

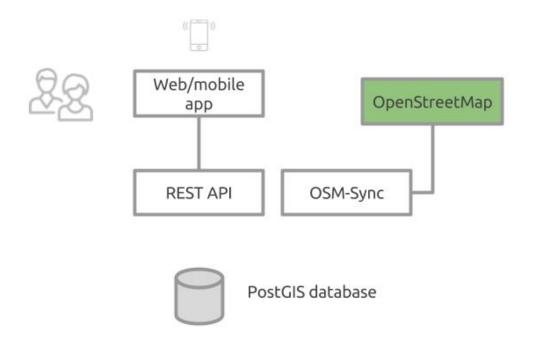


Challenges and Lesson learned



Technical

Community Outreach



Web app: Leaflet, React.js

Rest API: Flask, SQLAlchemy

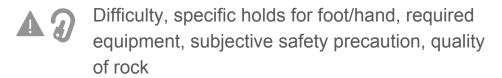
PostGIS database

Mobile app: TBD

What is climbing data or "Beta"?

If rock climbing routes are
Git repos, "beta" is the
README.md file





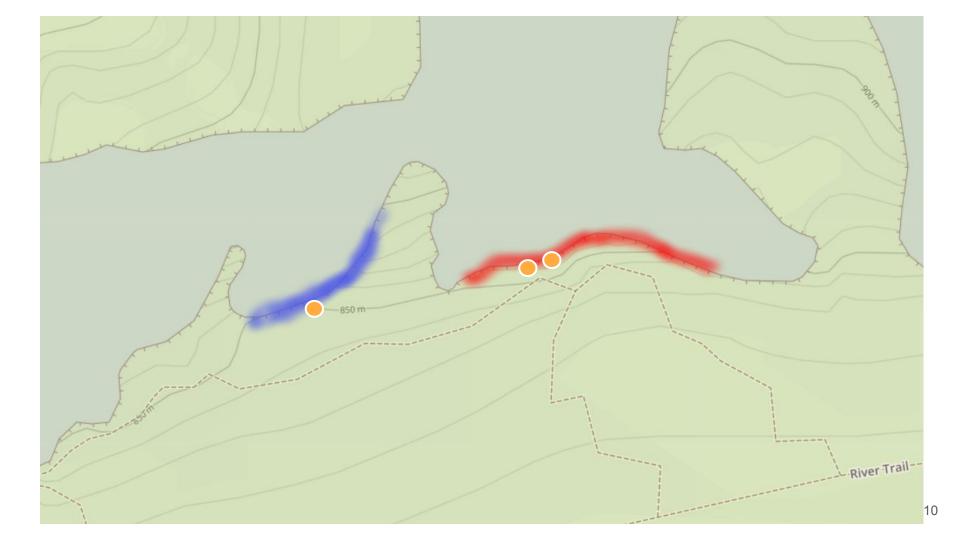


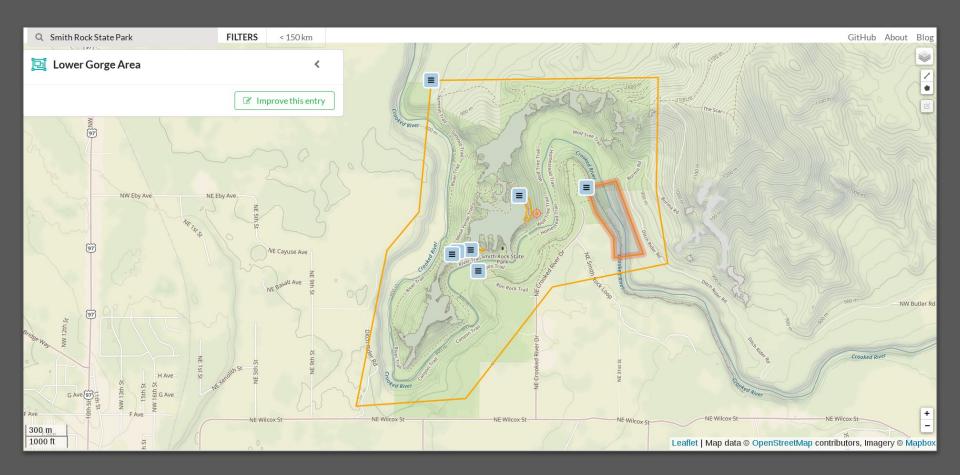
Personal anecdotes, forums

Technical Challenge #1

How to model climbing routes, walls, sectors in OpenStreetMap?







Areas/sectors overview of Smith Rock, Oregon, USA

Model climbing data in OpenStreetMap

Climb Sector/Area Wall Node, a point with latitude Way, an ordered list of Closed Way?? and longitude nodes **Relation:** logical grouping of nodes, ways and/or other

relations



Non-technical Challenge #1: Community Outreach

Open data is still a new concept in the climbing community

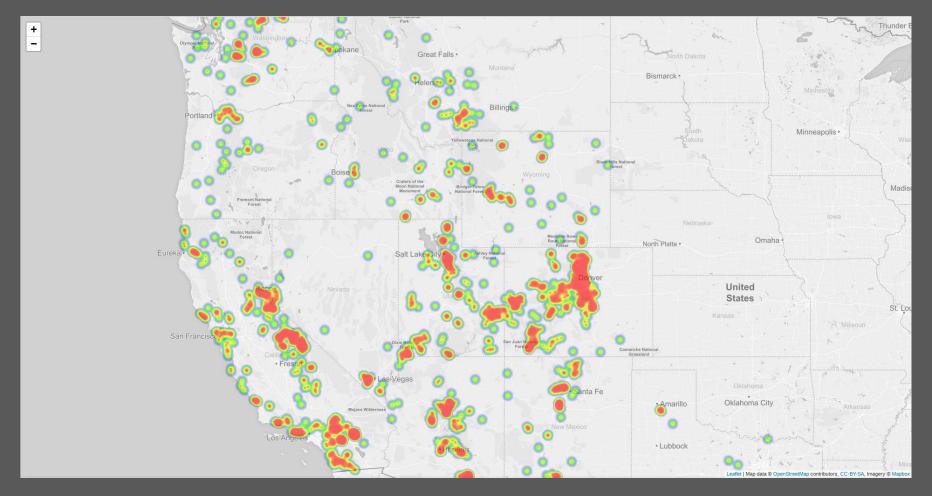
Manny Rangel developing a new route in Arizona





How to get people to contribute?

- 1. Simplify data entry and editing
- 2. Seed OSM with correct data



Heat map of climbing walls in western USA. Data from MountainProject.com.



OpenBeta Initiative

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Attribution

Cell Phone by Yorlmar Campos from the Noun Project
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