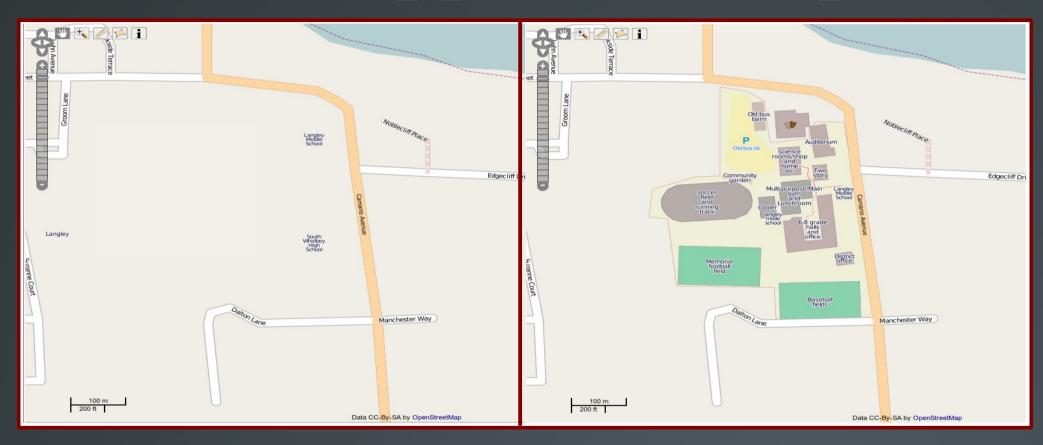
GIS Apprenticeship



School: South Whidbey Middle School

Student: Will Simms

Organization: Z-Pulley Inc.

Mentor: Aaron Racicot

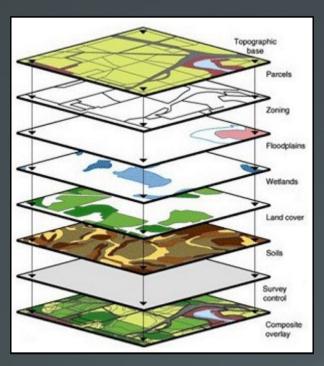


What is GIS?

Geographic

nformation

Systems





Key concepts learned

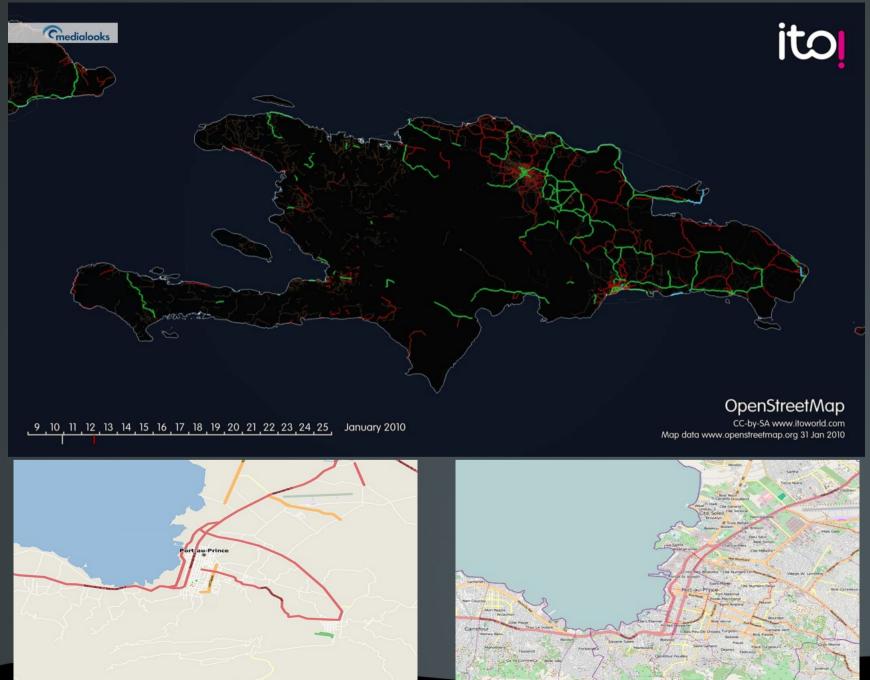
- 1) OSM (open street map)
- 2) GPS Mapping
- 3) Rasters and Vectors
- 4) Making presentations
- 5) Why should we be doing this?

OSM

- Free and open map of the world
- Anyone can edit, like wikipedia
- Engages local community
- Learned how to edit
 - Digitize over rasters (images)
 - Digitize over vectors (GPS traces)
- Areas of focus
 - South Whidbey Schools & Parks

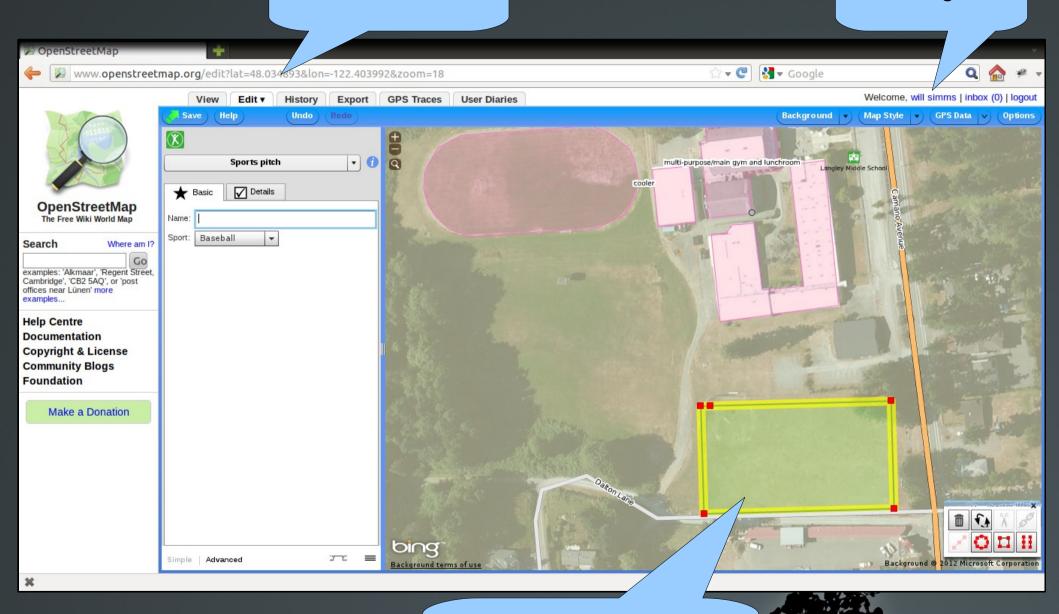


Why is OSM so important?



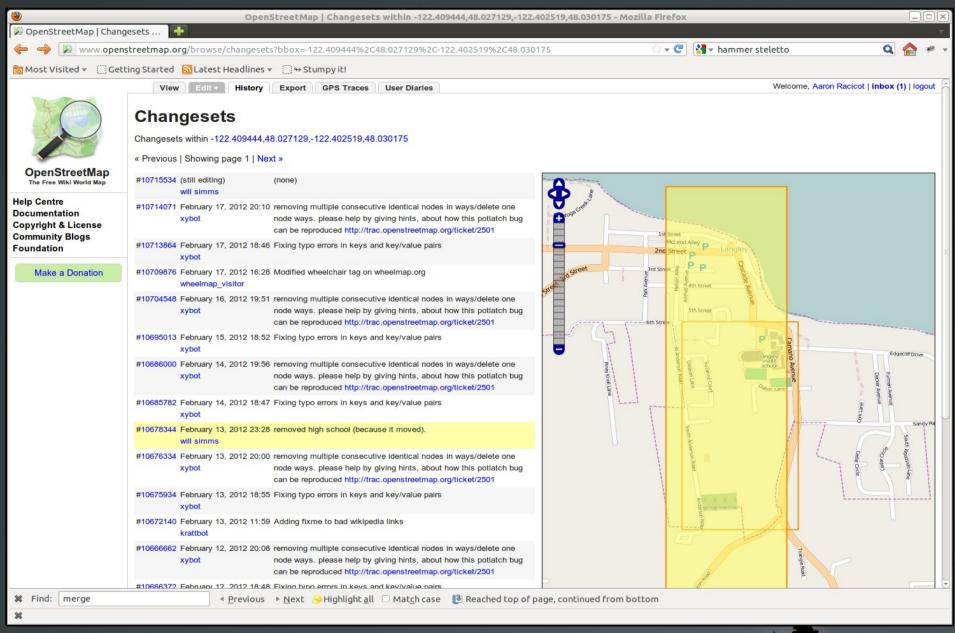
All done in a browser

Will Logs In



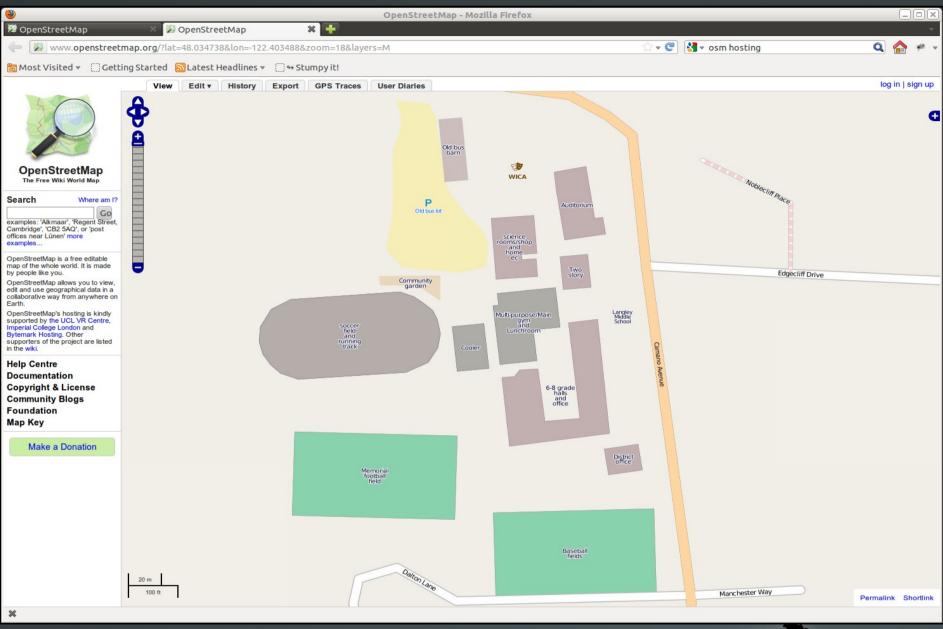
Edit data based on images





Edits come in from all over the world...



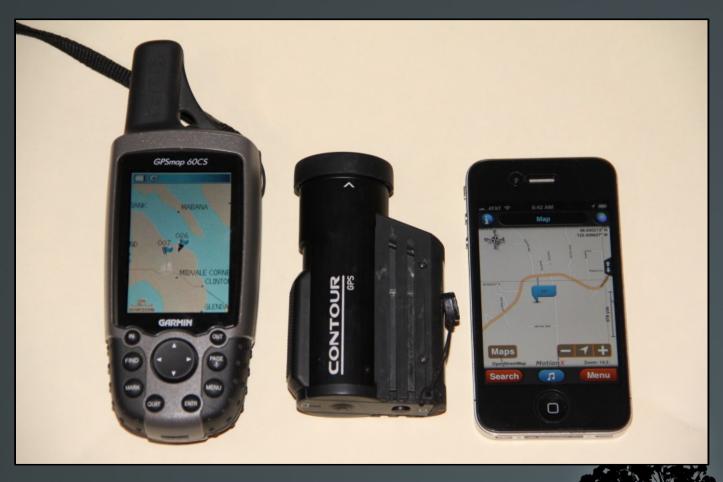


2nd Day and already mapping up a storm!



GPS Mapping

Which do YOU think would be best GPS?



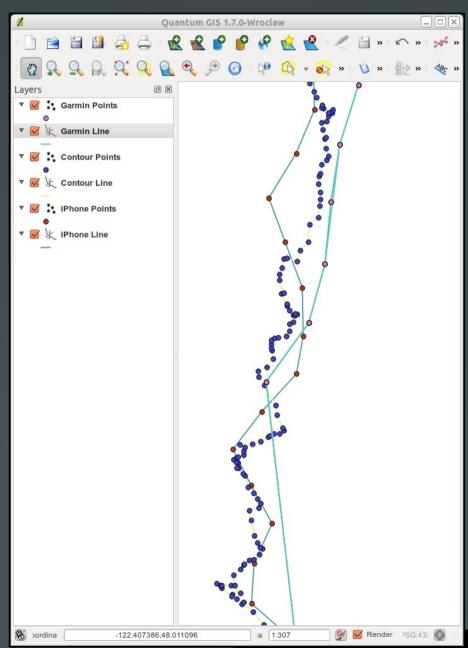
Sample time

Sample time is how often a GPS takes a point.

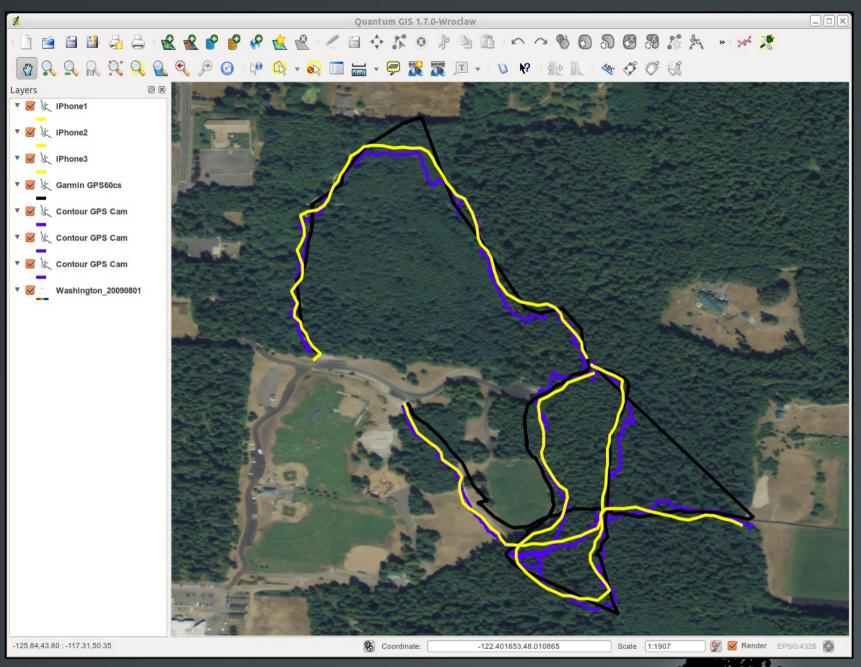
We learned that if you want better/more detailed results you need to have a faster sample time.

When we went to the woods we had a sample times up to 4 times a second, so our traces were really accurate.

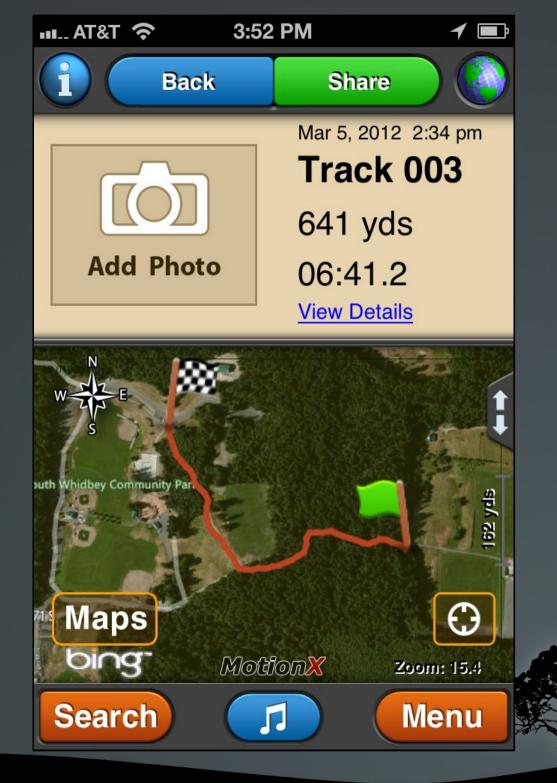
(Exept for the fancy Garmin.) :)

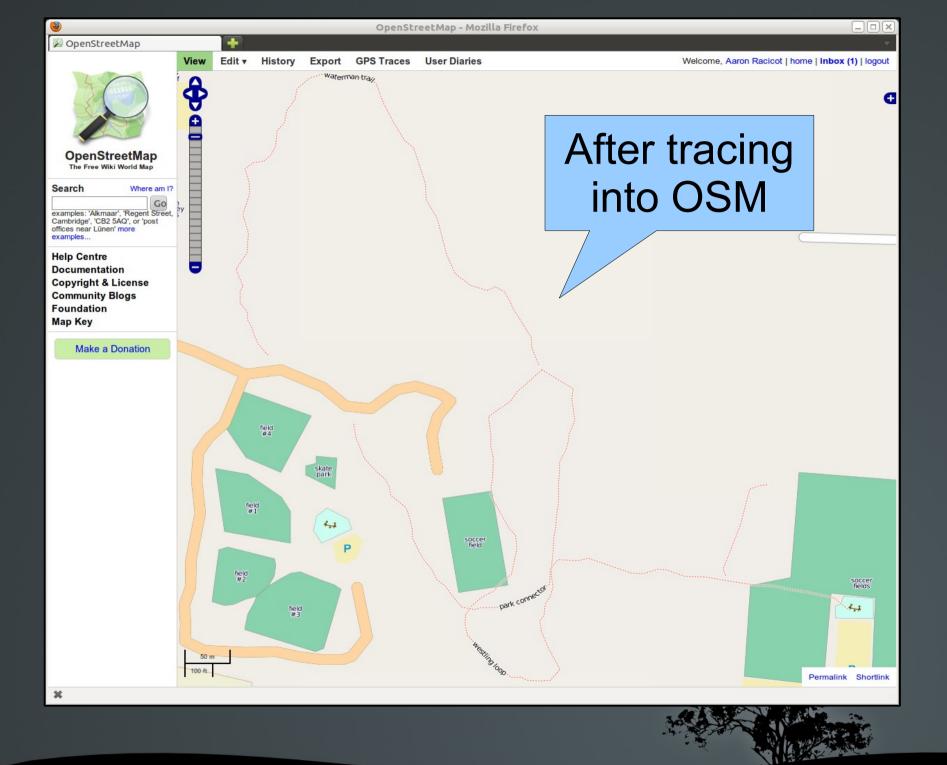












Rasters and Vectors

- Rasters are gridded images
 - Like the images used in OSM
 - Made up of many pixels
 - Pixels are made up of three base colors (RGB)
- Vectors are points, lines and polygons.
 - Like the traces we added to OSM
 - Also like the GPS traces we gathered

Making Presentations

Hello!:) Are you watching?



Why should we be mapping?

- 1) Help people
- 2) The city/government needs the data.
- 3) The public also needs the maps for directions or trails in the woods
- 4) It is also a chance to learn about the local area and shops.
- 5) It's fun to do



What still needs to be mapped

- Work with Langley to map resources
- More trails (original data for parks are gone)
- Buildings and businesses for rest of south end of Whidbey
- Habitats (whale sightings etc.)
- Updating bad data or new features (new roads etc)
- Work with school district on things like bus routing

