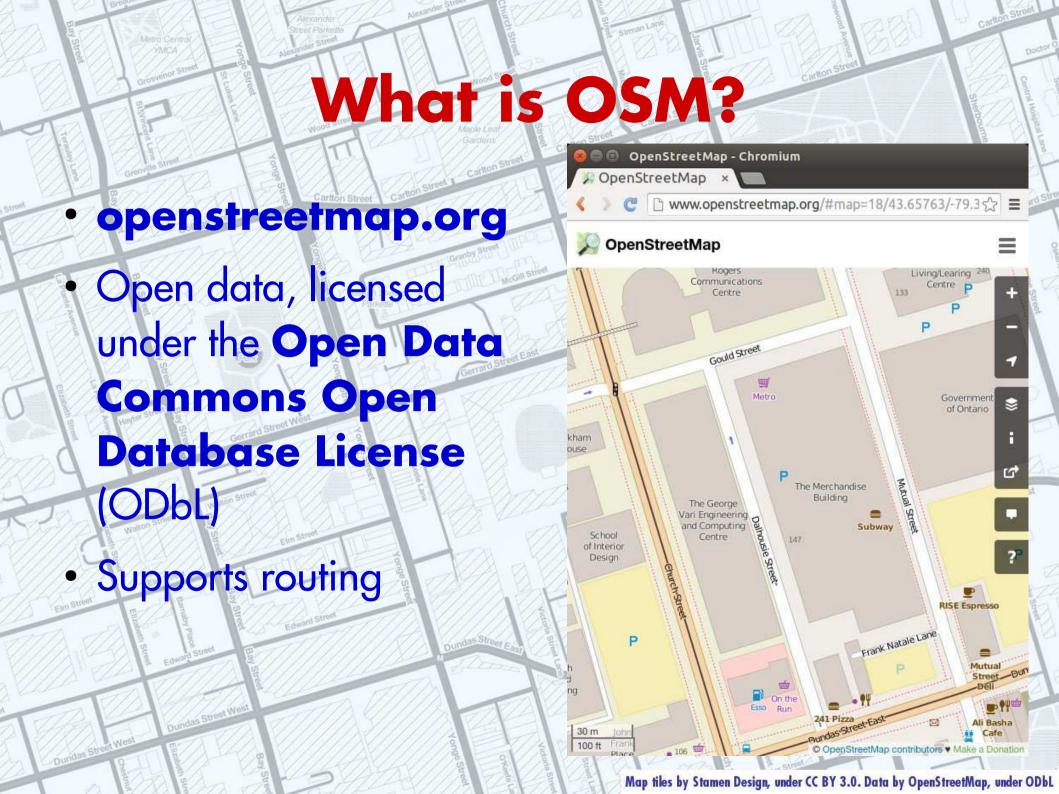




- How the servers are set up
- The joys of spatial databases
- How to map
- Why it's okay to use Google*/Bing/Nokia maps anyway.
 - *: well, except for Google Map Maker ...

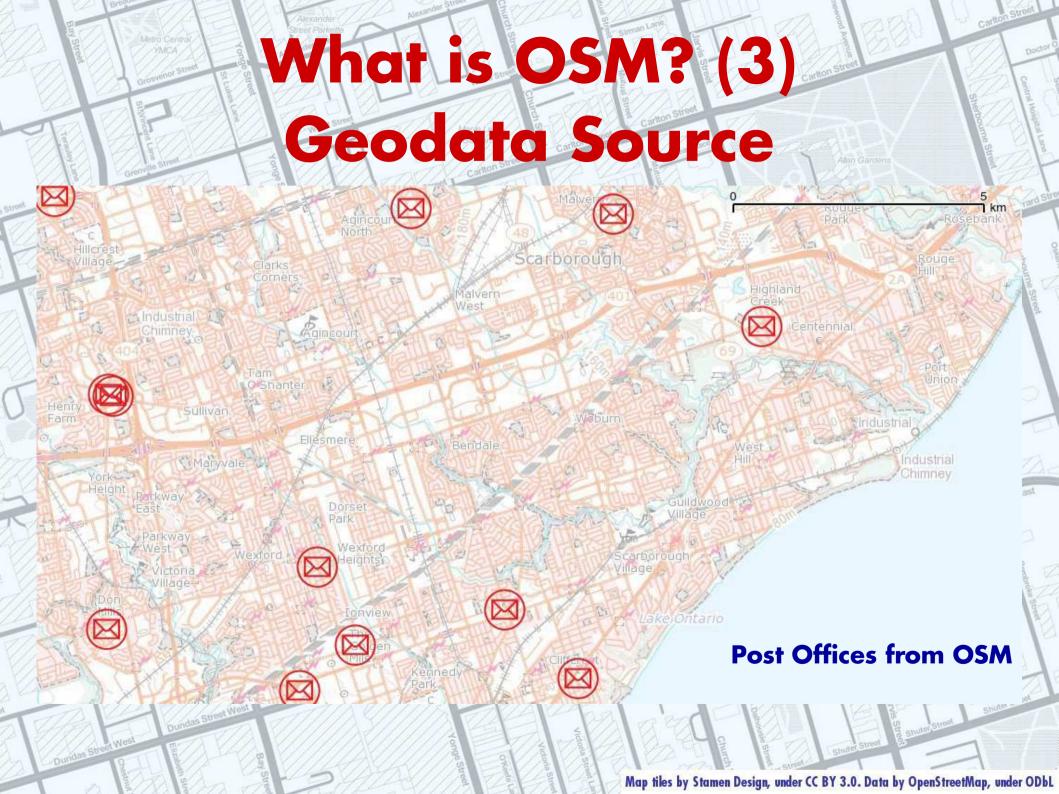
Instead, let's talk about ...

- How OpenStreetMap ("OSM") got started
- How you can use it and contribute to it
- How we managed to change OSM's licence with only a tiny bit of drama
- How OSM changed Open Data
- How the community works
- What OSM does really well ... and not so well



A Major Collage Carton Street A major Description Carton Street A major Description Carton Street A major Description Carton Carton Street A major Description Carton Carton Carton Street A major Description Carton C

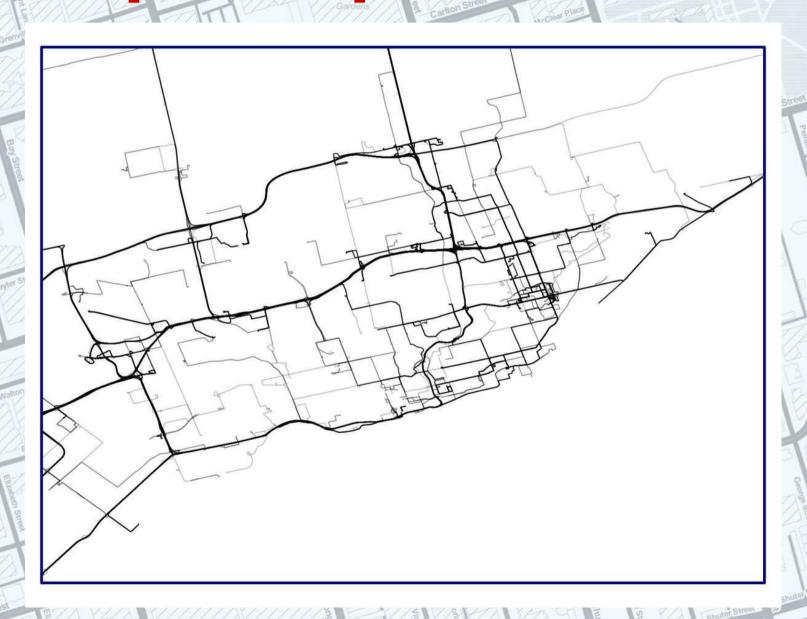








Amap from just GPS tracks?





- Registered Users: over 2,000,000
- Nodes: hit 2³² nodes in February 2013
- Changes: more than 30,000,000 change sets
- GPS Track Point Uploads: > 4.6 billion

https://wiki.openstreetmap.org/wiki/Stats







A bit about Licences

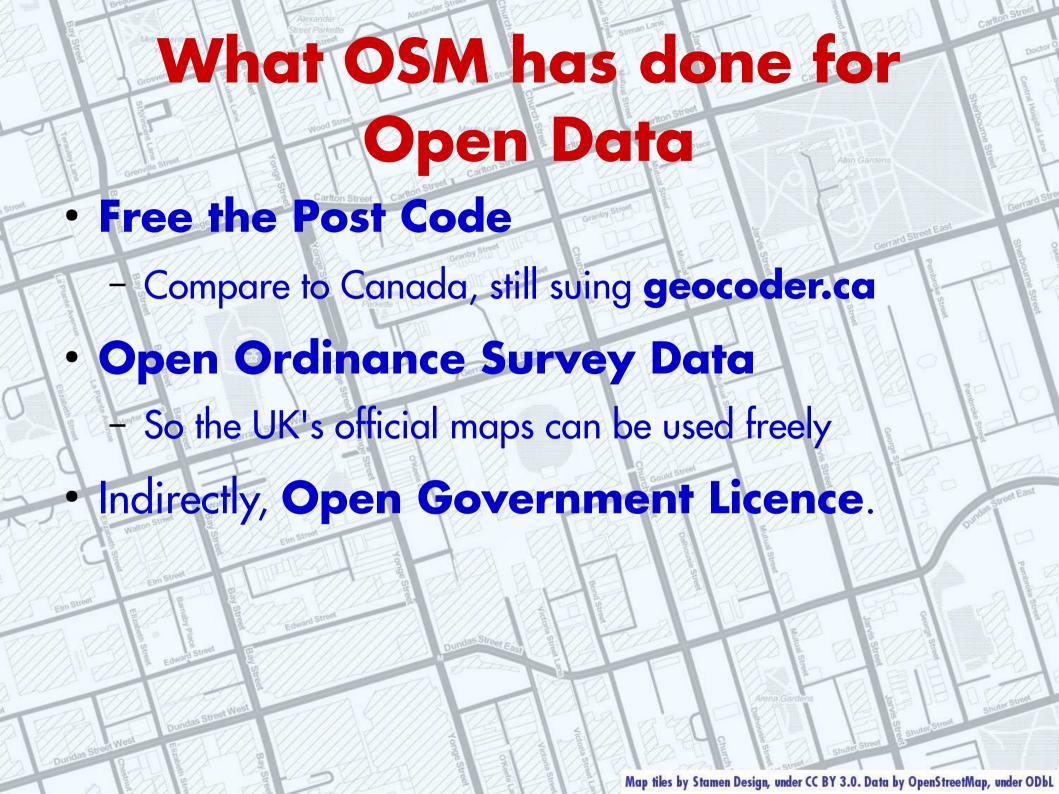
- All OSM data is licensed to the OSM Foundation.
- Original licence: CC-BY-SA 2.0
 - Didn't protect data, only creative works
 - Made overlaying your data on OSM maps difficult
- New licence: OdbL
 - Specifically for data
 - Allows overlaying, but any mixing must be share-alike

Licence Change Drama

- The fateful day: 2012-09-12.
- Phased in slowly from mid-2010
- Contributors who didn't agree restricted from editing, and eventually, data replaced or removed
- Huuuuuuuuuge pitched battles on the mailing lists
- At least two "Truly Open" competitors proposed
- End Result: ~1% data loss ... and no competitors.

Why not use amon street La

- Public Domain: not applicable in many countries, too easy to take without giving back
- One of the CC-* data licences: didn't exist in 2012
- A No Share-Alike licence: much loved by the plz free data make us \$\$\$ 'disruptive' crowd
- It's not like we couldn't change the licence again, guys ... uh, where's everyone gone...?





It dil depends what you mean by Community Community

- Railfans, public transit geeks, cyclists, physical ability activists, pylon spotters, restaurant lovers, gravespotters, power nerds, recreational boaters ... all are part of the OSM community.
- How can a community be so spread out and diverse in interest still be considered a <u>community</u>?
- All want a better map, and all can do so (mostly)
 without treading on toes.

WYNIGH OSMACIOES WELL Wood Street Wood Street Wood Street Wood Street Wood Street Alan Gardens

#1046 Nepal Earthquake, 2015, Severely damaged housing areas and IDP Informal camps, Kadichaur

131 4%

THIS TASK IS FOR MORE EXPERIENCED MAPPERS

- Author: HOT / Kathmandu Living Labs volunteers
- Requesting organization: Nepal Government, International Response community
- Priority: Urgent
- Imagery: DigitalGlobe, 2015-05-03

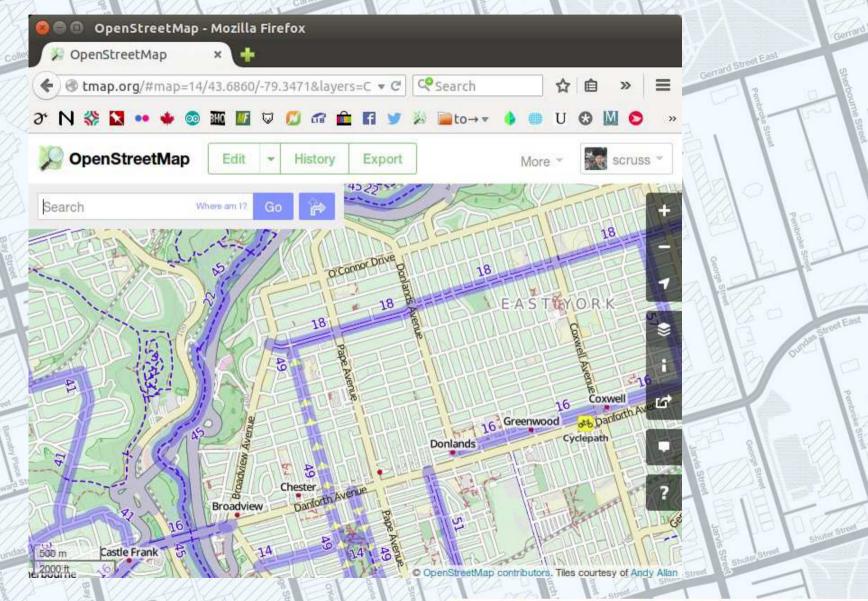
The objective is to help with aid delivery and search & rescue efforts by identifying earthquake damaged buildings and displaced populations.

Objects to trace

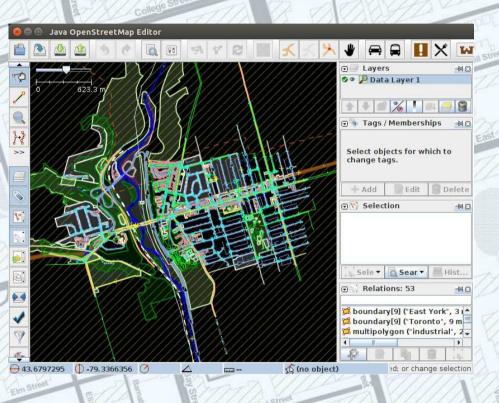
- Report severely damaged housing areas landuse=brownfield
- IDP informal camps

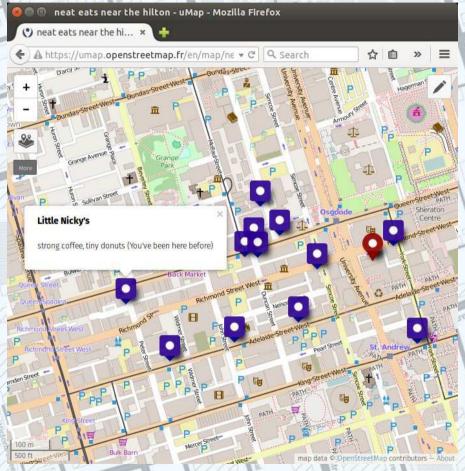
Created by PierZen - Updated less than a minute ago - Priority: urgent

Wyhat Osmadoes well (2): Custom Views Alan Gardens



What Osmoloes well 3: Software ecosystem



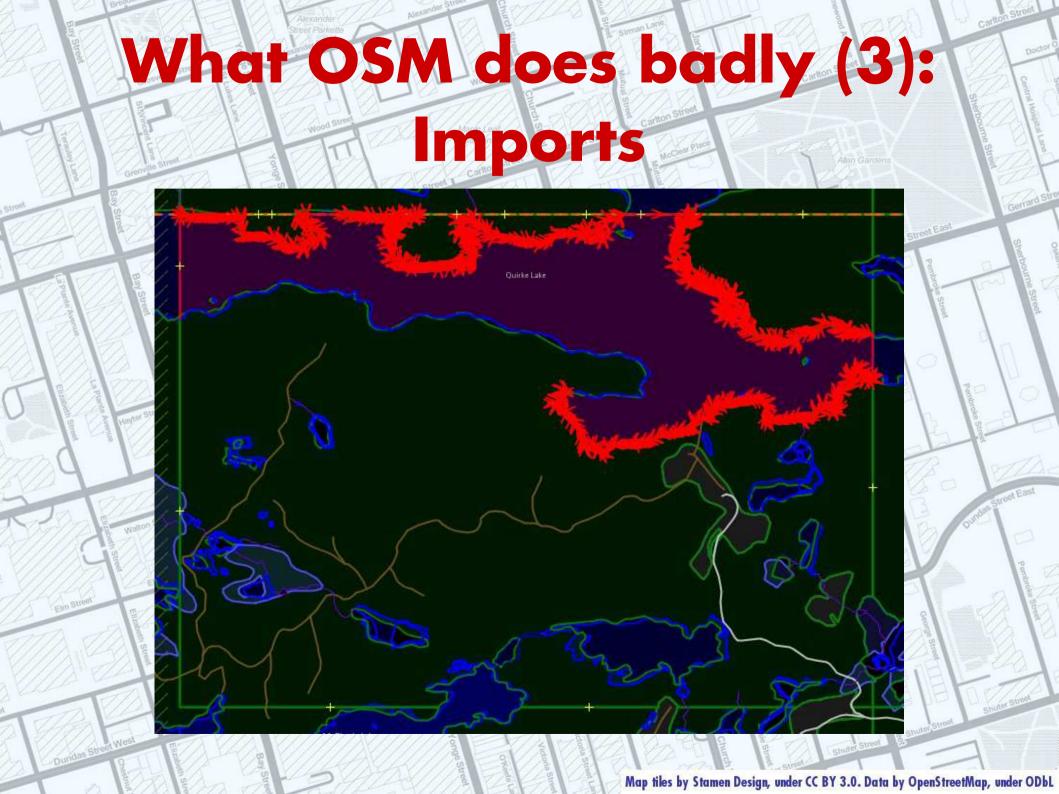






- Most mappers are blokes
- Many tend to be higher income, gadget/tech types
- Some map remote areas, but often only desktop/imports
- Few represent minority groups









- · Toronto animation: Geofabrik, geofabrik.de
- Almost everything else:
 - © OpenStreetMap Contributors

Thanks: Richard Weait, Toronto OSM Meetup Group, and ntntm ...

Stewart C. Russell scruss@scruss.com @scruss

2015-05, WTFPL