OpenStreetMap 101

17 June 2014
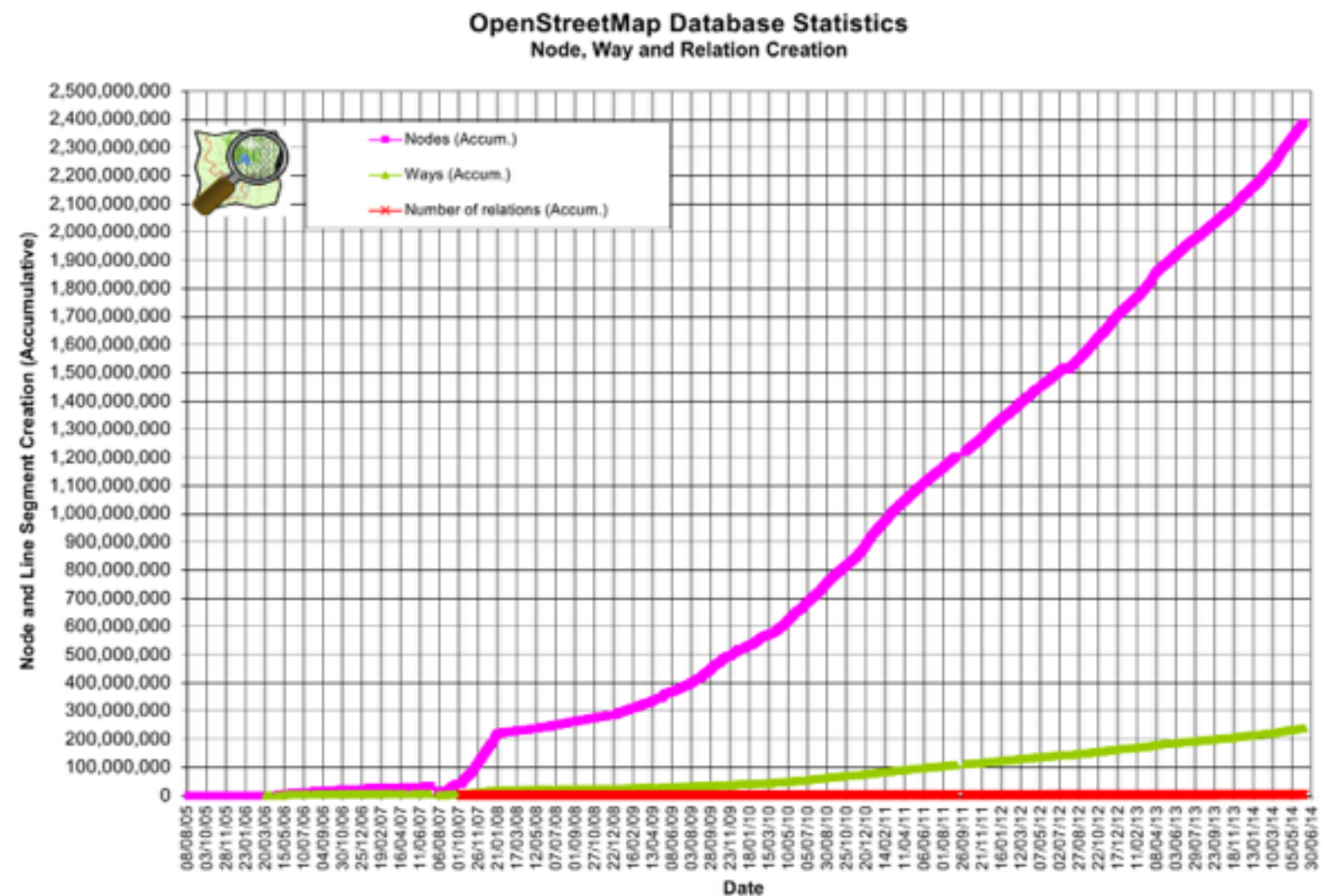
OpenStreetMap Overview

- History: Founded by Steve Coast in 2004

- "Wikipedia for maps"

- More than 1.6m users worldwide

- Number of features:

  - ~2.4b nodes

  - ~250m ways

OpenStreetMap Database Statistics
Node, Way and Relation Creation

- Nodes (Accum.)
- Ways (Accum.)
- Number of relations (Accum.)

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Why Use OpenStreetMap?

- Free, Open

- Detailed & Functional

- Interesting, fun

- Geography at a 1:1 Scale

- Community Development at a 1:1 Scale

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Ground Rules

- No copying from other maps!

- Use the wiki for tagging help

- Don't vandalize

- Don't add fictional features
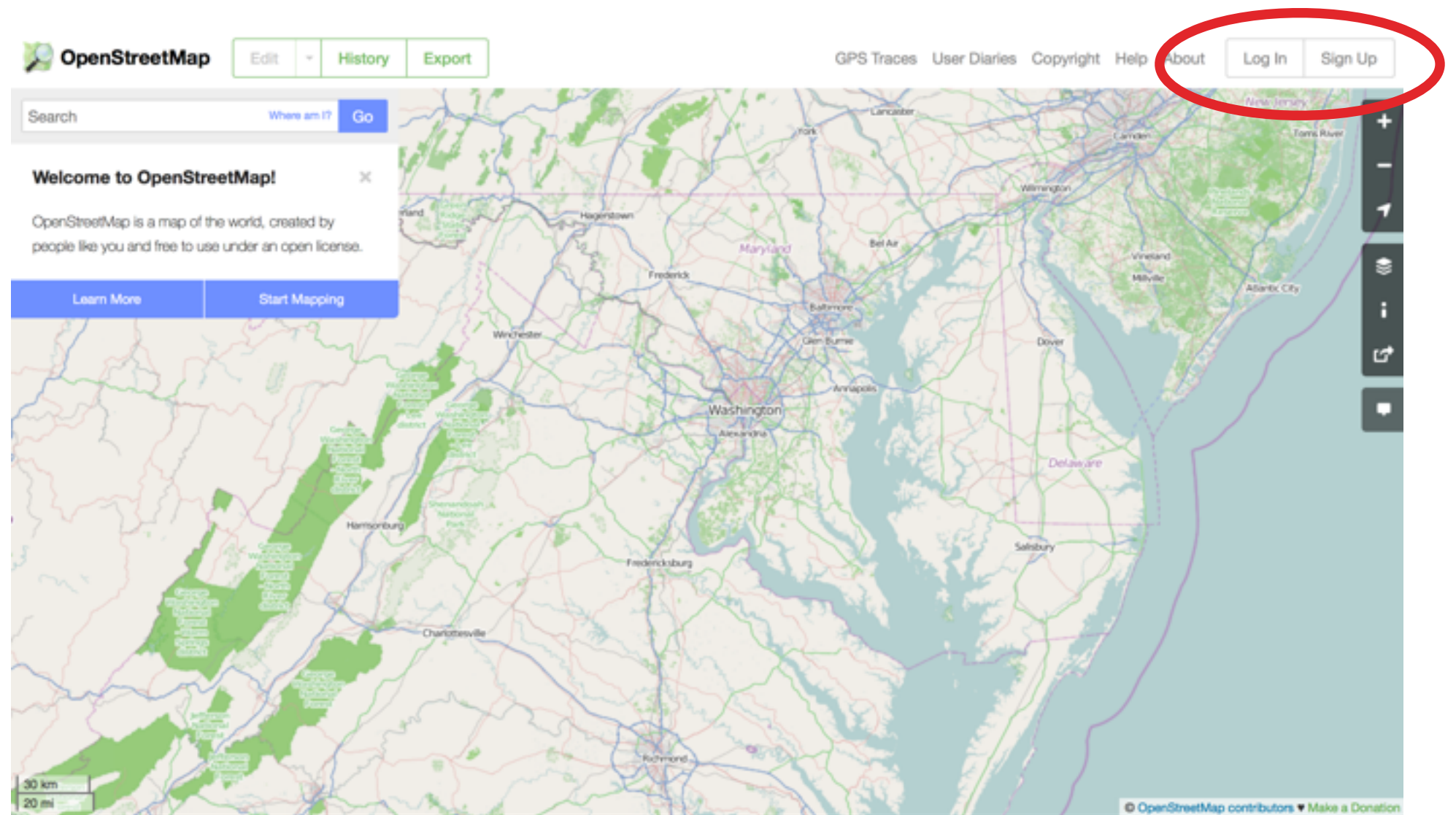
- **...and do not copy from other maps!**

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- **First Things First…**

  - Creating an Account

  - The wiki

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Creating an OpenStreetMap Account

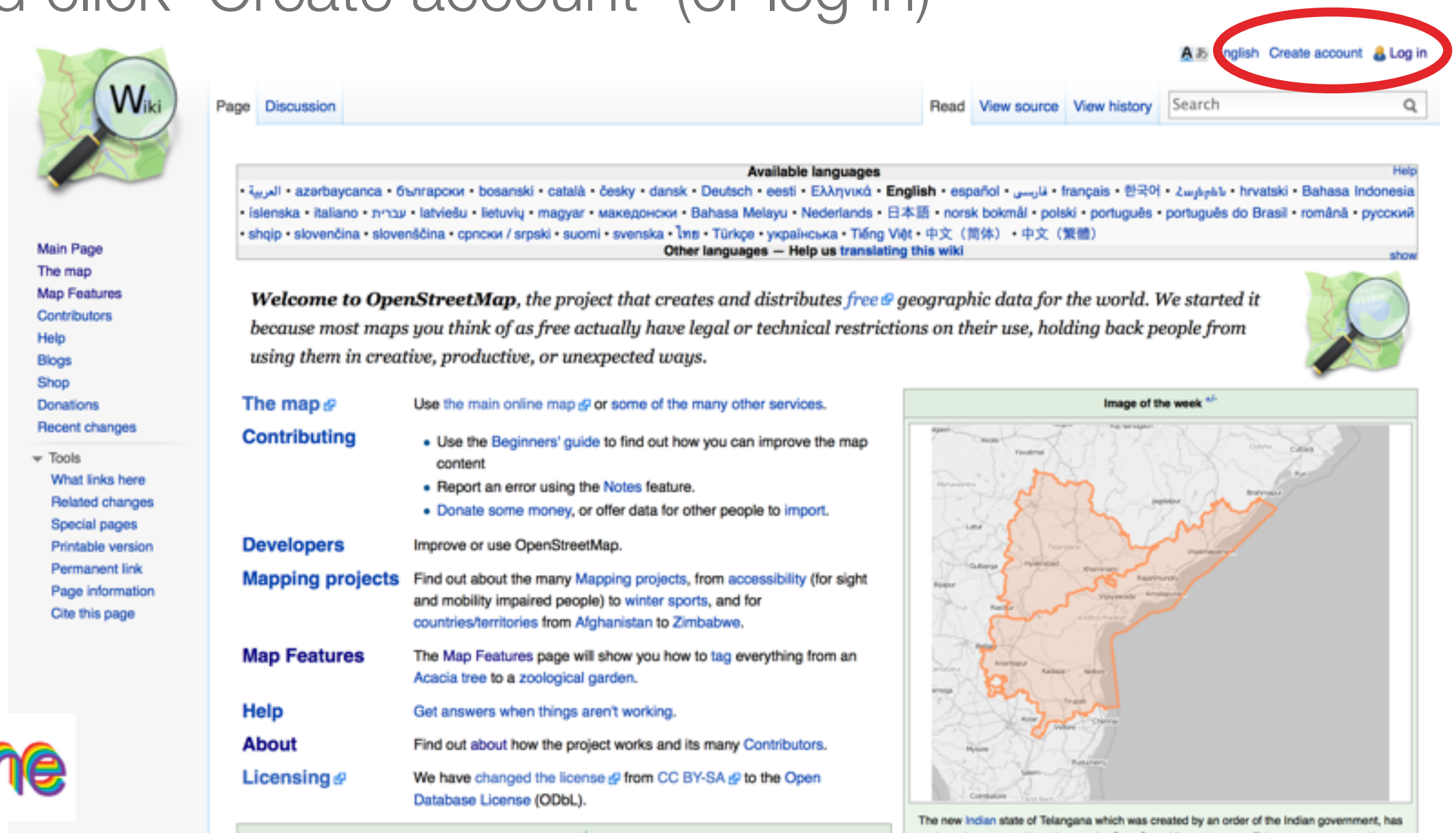- Create (or log in to) your OpenStreetMap Account

Create Your Profile

- Click 'My Settings'…

- …and fill in the blanks

You'll need help from time to time…

- …so navigate to the wiki (http://wiki.openstreetmap.org)

- … and click 'Create account' (or log in)

Editing Geographic Data

- Geographic data is organized into: Points, lines, & polygons

- The editing process: digitize a feature, then 'tag'

- 'Tags' are simply attributes of a feature

- Your first stop for tagging:

  - http://wiki.openstreetmap.org/wiki/Map_features

  - …or point to the wiki and type, 'features' in the search box

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Feature Types

- Geographic data is organized into points, lines, & polygons

- Point, or **node** feature (ATM, bench, tree, sign post)

- Polygons, or **closed ways** (building, parking lot, ball field, etc.)

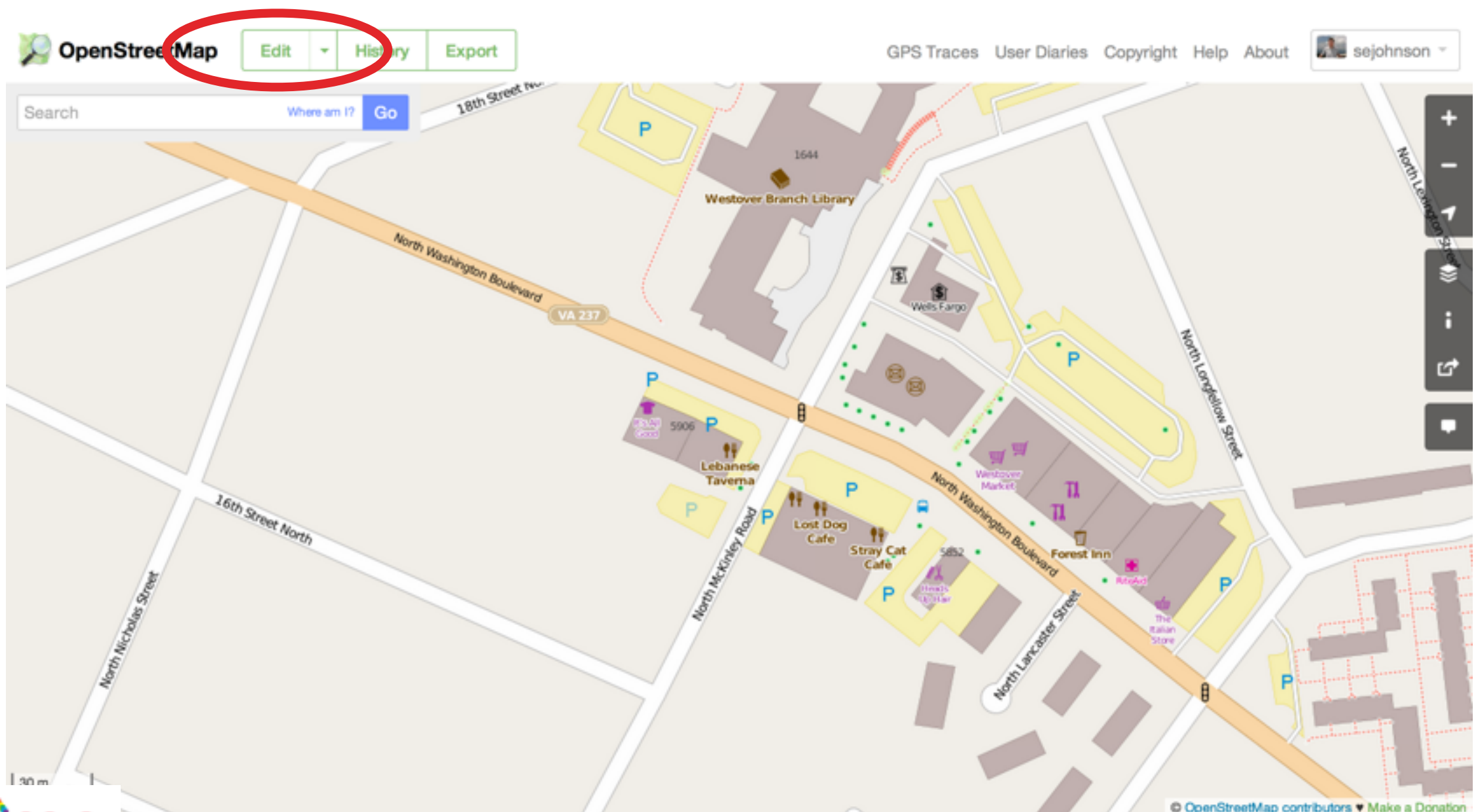- Linear, or **ways** (road, trail, footpath, river, etc.)

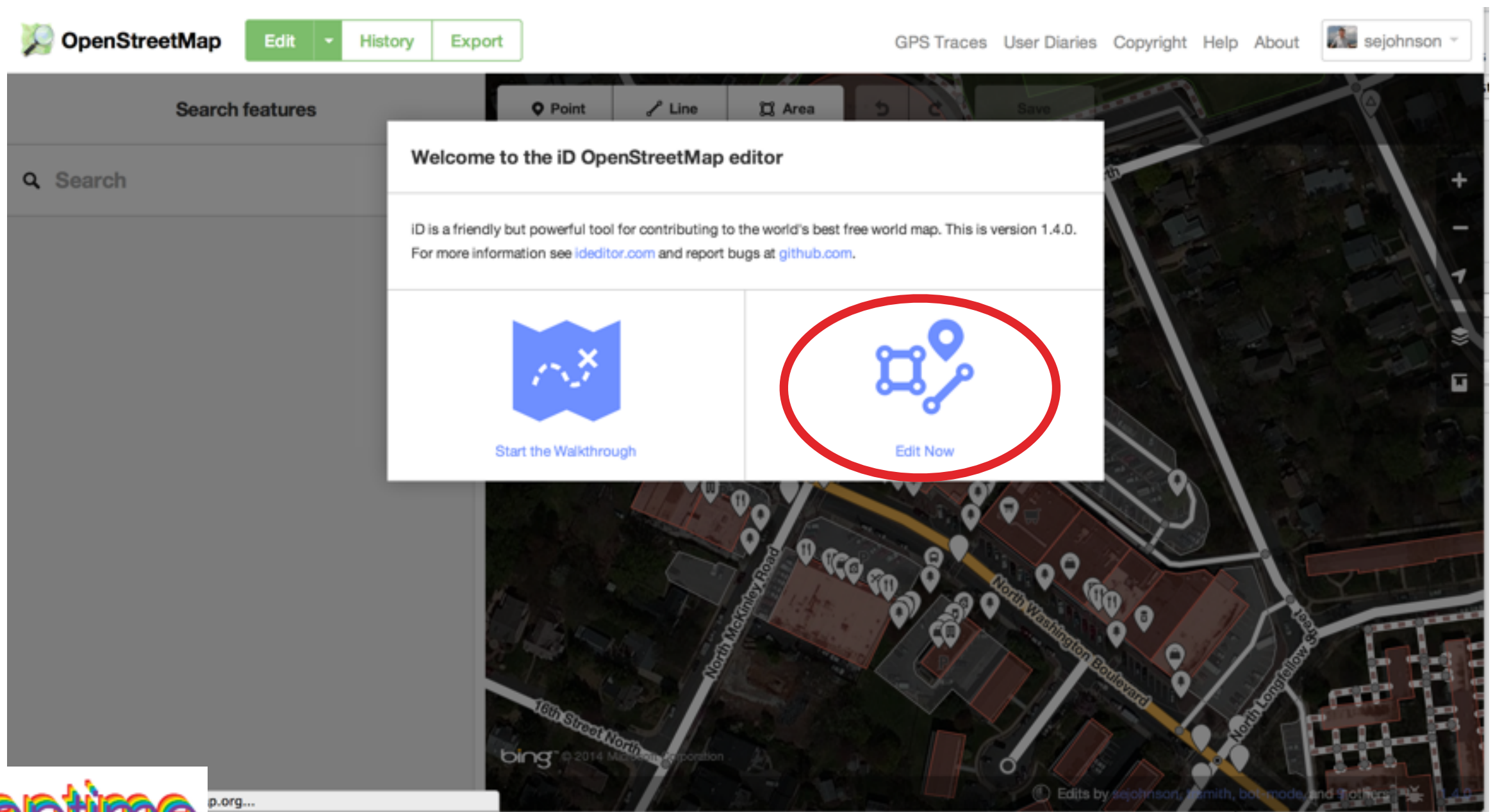#maptime

- **Getting Starting Editing…**

Starting the Editing Process

- Click 'Edit' to launch the iD editor

Starting the Editing Process

- Using iD editor

Editing Process

- iD editor features

Try Digitizing One of These Point Features…

- **Refer to 'Map Features' on the wiki for tagging help**

- ATM

- Bus/Transit Stop

- Traffic Signals
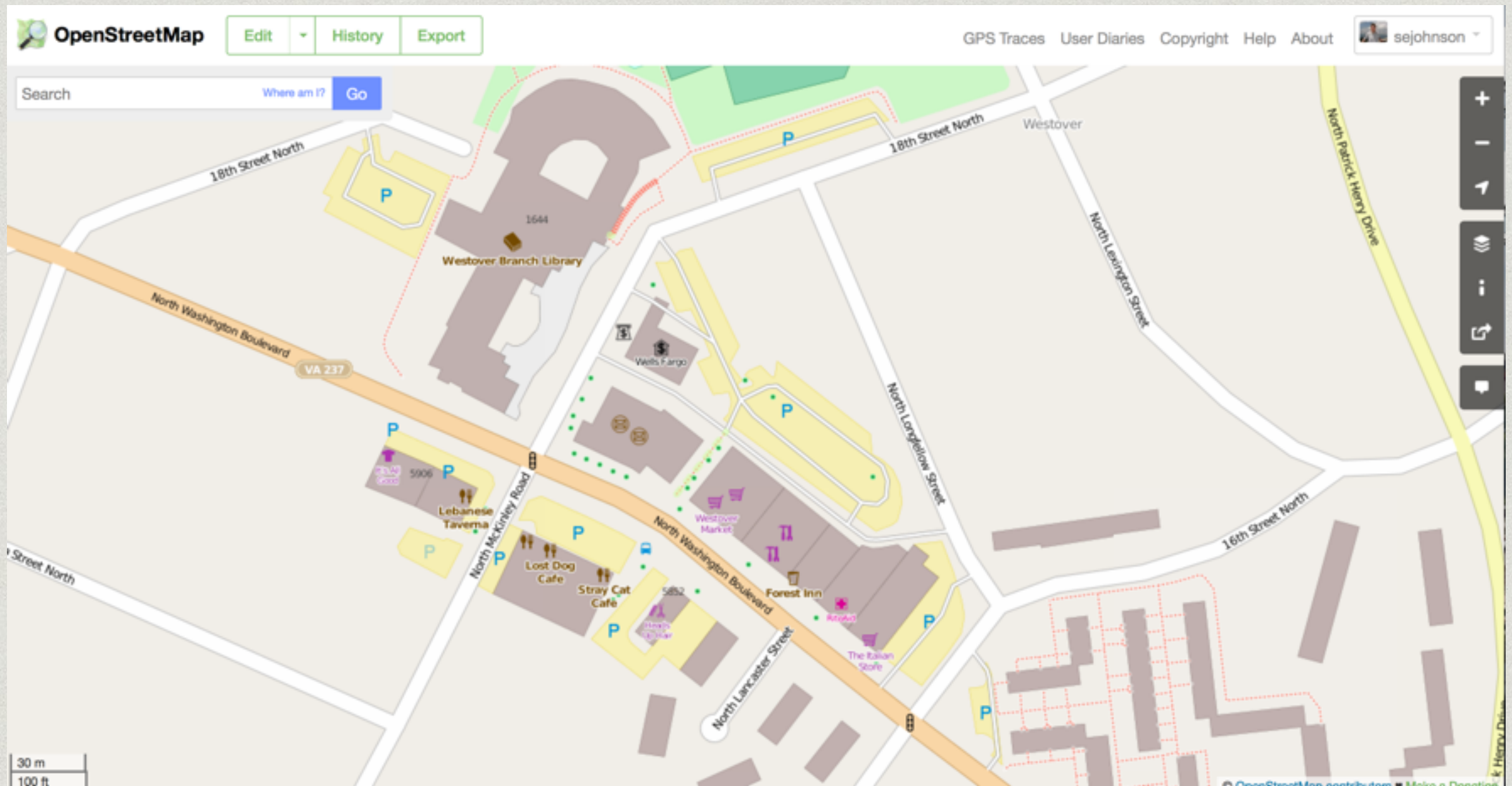
- Street Crosswalk

- Street Tree

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Try Digitizing One of These Linear Features…

- **Connectivity is important - 'snap' to adjoining features**

- Driveway

- Parking lot aisle

- Footpath

- Hiking Trail

- Bridge/Tunnel

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Try Digitizing One of These Polygon Features

- **Connectivity is important - make sure your polygons close**

- Your elementary/middle/high school

- Your neighborhood grocery/hardware store

- Your neighborhood bank, dry cleaners, etc.

- A parking lot

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Step 5. Admire Your Work

Thank You

- Steven Johnson

  - @geomantic

  - http://github.com/geomantic

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