

OpenStreetMap 101

17 June 2014



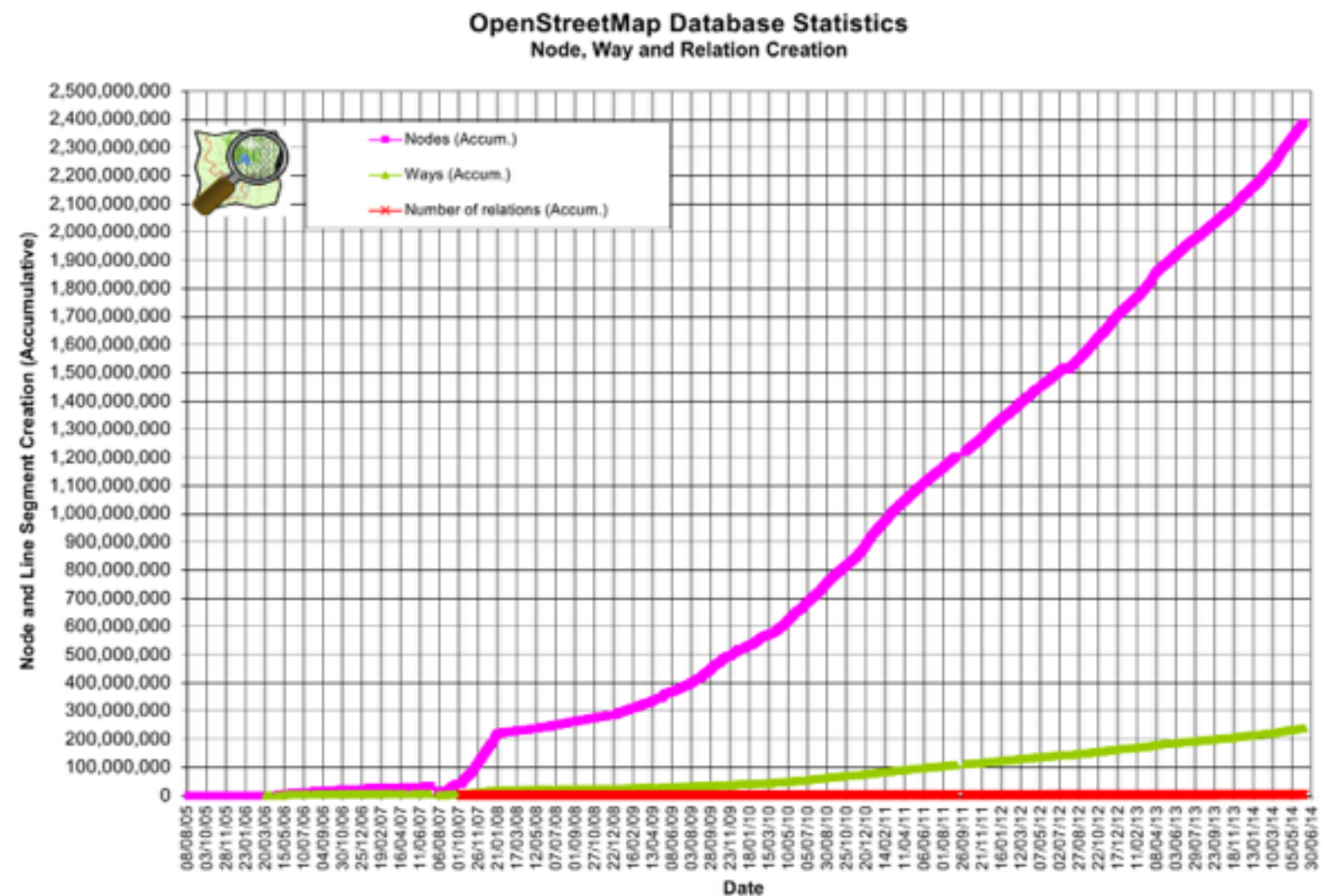
#maptime

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

#maptime



Why Use OpenStreetMap?

- Free, Open
- Detailed & Functional
- Interesting, fun
- Geography at a 1:1 Scale
- Community Development at a 1:1 Scale

#maptime



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!**

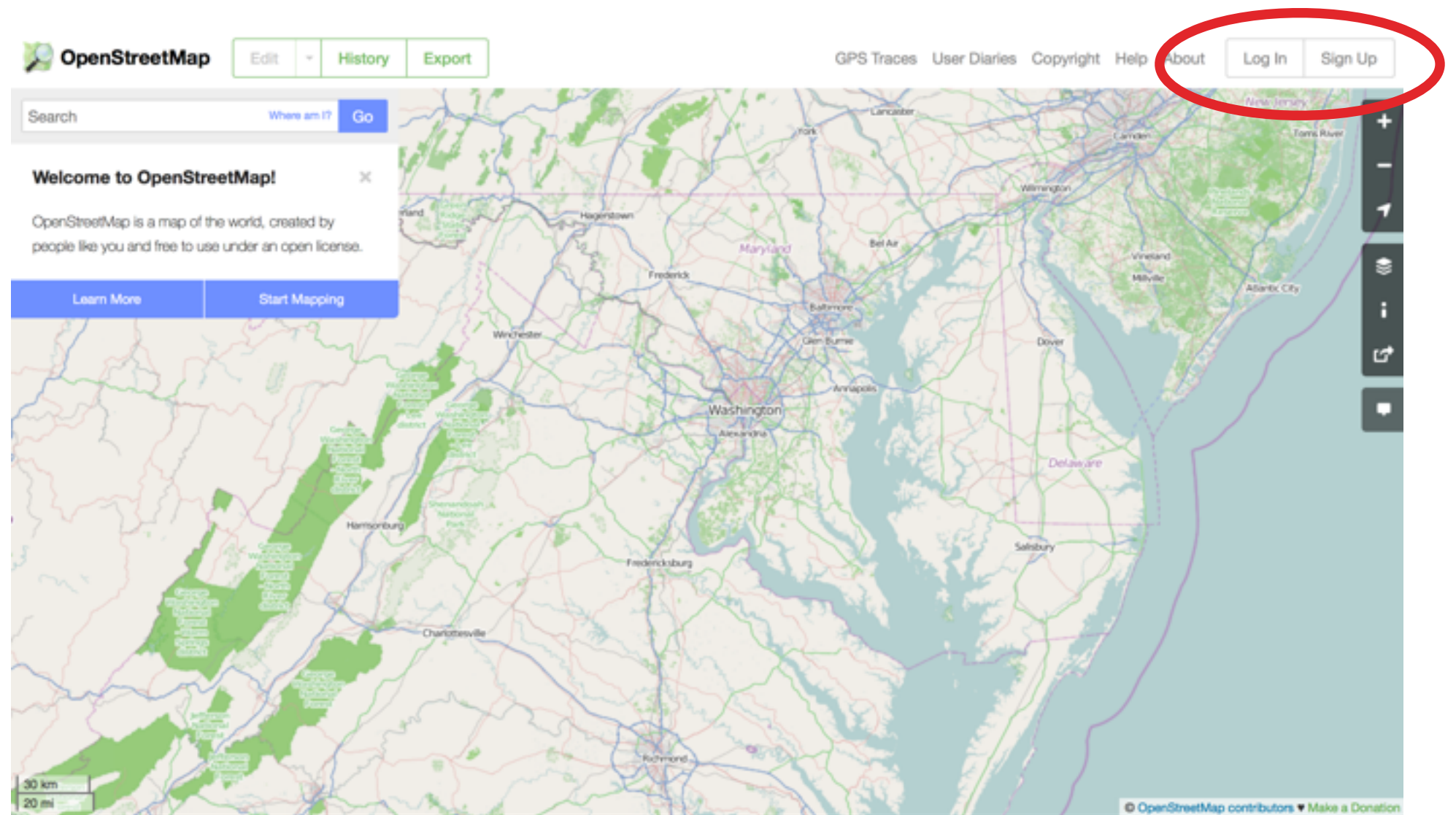


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- **First Things First...**
 - Creating an Account
 - The wiki



Creating an OpenStreetMap Account

- Create (or log in to) your OpenStreetMap Account



Create Your Profile

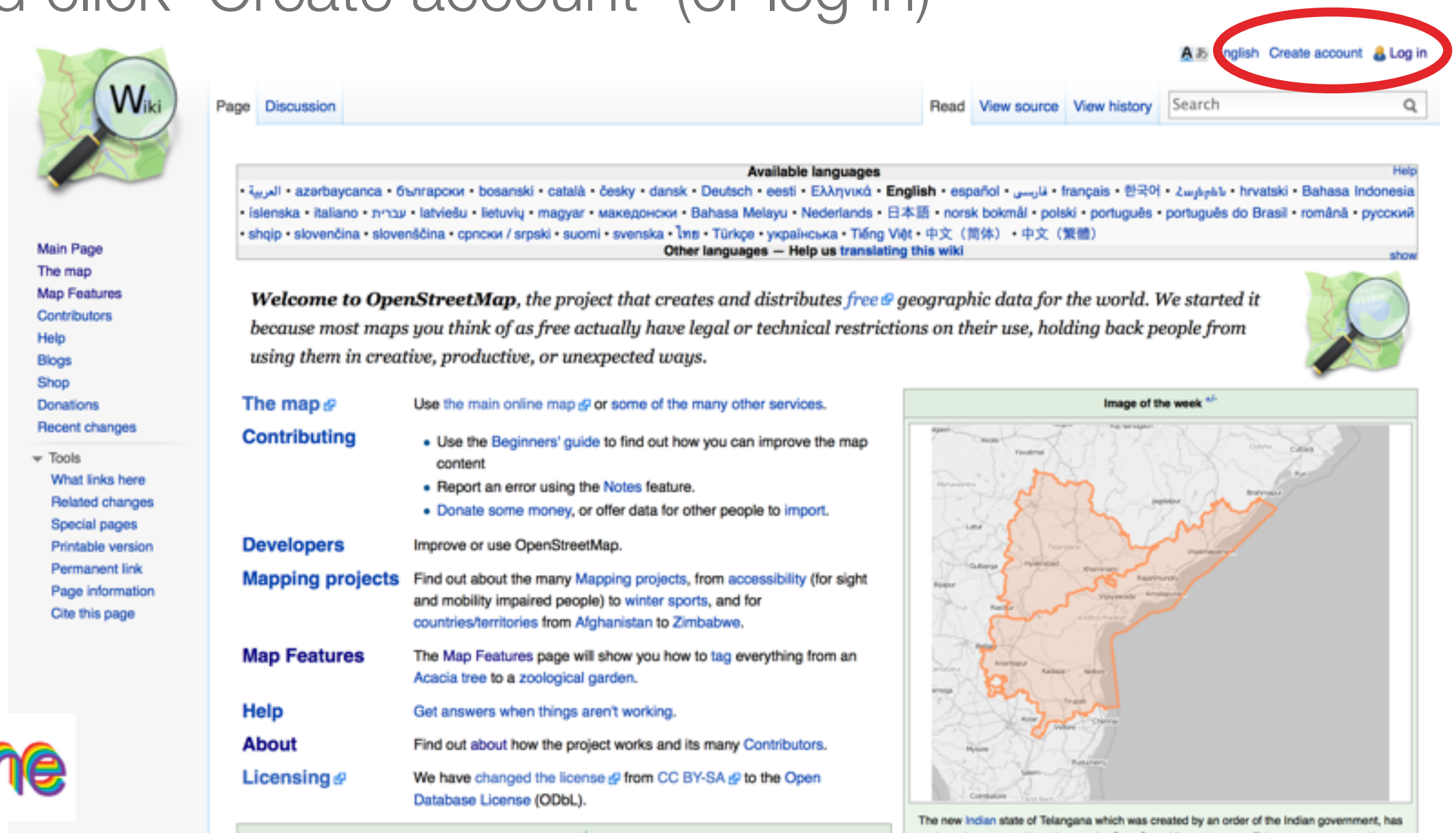
- Click 'My Settings' ...
- ...and fill in the blanks

The screenshot shows the OpenStreetMap user interface. At the top right, a user menu for 'sejohnson' is open, with 'My Settings' circled in red. A red arrow points from this menu item to the 'Display Name' field on the 'My settings' page. The 'My settings' page has a header with 'OpenStreetMap' and buttons for 'Edit', 'History', and 'Export'. Below the header, there are links for 'Return to profile' and 'oauth settings'. The form fields are as follows:

- Display Name:** sejohnson
- Current Email Address:** sejohnson8@gmail.com (never displayed publicly)
- New Email Address:** (never displayed publicly)
- Password:** (empty field)
- Confirm Password:** (empty field)
- OpenID:** (empty field) (what is this?)
- Public editing:** Enabled. Not anonymous and can edit data. (what is this?)
- Contributor Terms:** (empty field)

You'll need help from time to time...

- ...so navigate to the wiki (<http://wiki.openstreetmap.org>)
- ... and click 'Create account' (or log in)



The screenshot shows the OpenStreetMap Wiki homepage. In the top right corner, the 'Create account' link is circled in red. The page features a sidebar with navigation links, a main content area with a welcome message, and a section for 'Image of the week'.

Available languages

العربية • azərbaycanca • беларускі • bosanski • català • český • dansk • Deutsch • eesti • Ελληνικά • **English** • español • فارسی • français • 한국어 • گۆنئی آذربایجان • hrvatski • Bahasa Indonesia • íslenska • italiano • עברית • latviešu • lietuvų • magyar • македонски • Bahasa Melayu • Nederlands • 日本語 • norsk bokmål • polski • português • português do Brasil • română • русский • shqip • slovenčina • slovenščina • српски / srpski • suomi • svenska • ไทย • Türkçe • українська • Tiếng Việt • 中文（简体） • 中文（繁體）

Other languages — Help us translating this wiki

Welcome to OpenStreetMap, the project that creates and distributes *free* geographic data for the world. We started it because most maps you think of as free actually have legal or technical restrictions on their use, holding back people from using them in creative, productive, or unexpected ways.

The map Use the main online map or some of the many other services.

Contributing

- Use the [Beginners' guide](#) to find out how you can improve the map content
- Report an error using the [Notes](#) feature.
- [Donate some money](#), or offer data for other people to [import](#).

Developers Improve or use OpenStreetMap.

Mapping projects Find out about the many [Mapping projects](#), from [accessibility](#) (for sight and mobility impaired people) to winter sports, and for countries/territories from Afghanistan to Zimbabwe.

Map Features The Map Features page will show you how to [tag](#) everything from an Acacia tree to a zoological garden.

Help Get answers when things aren't working.

About Find out about how the project works and its many [Contributors](#).

Licensing We have changed the license from CC BY-SA to the [Open Database License \(ODbL\)](#).

Image of the week

The new Indian state of Telangana which was created by an order of the Indian government, has been incorporated into the map by OpenStreetMap contributors. Telangana was created by

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

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.)

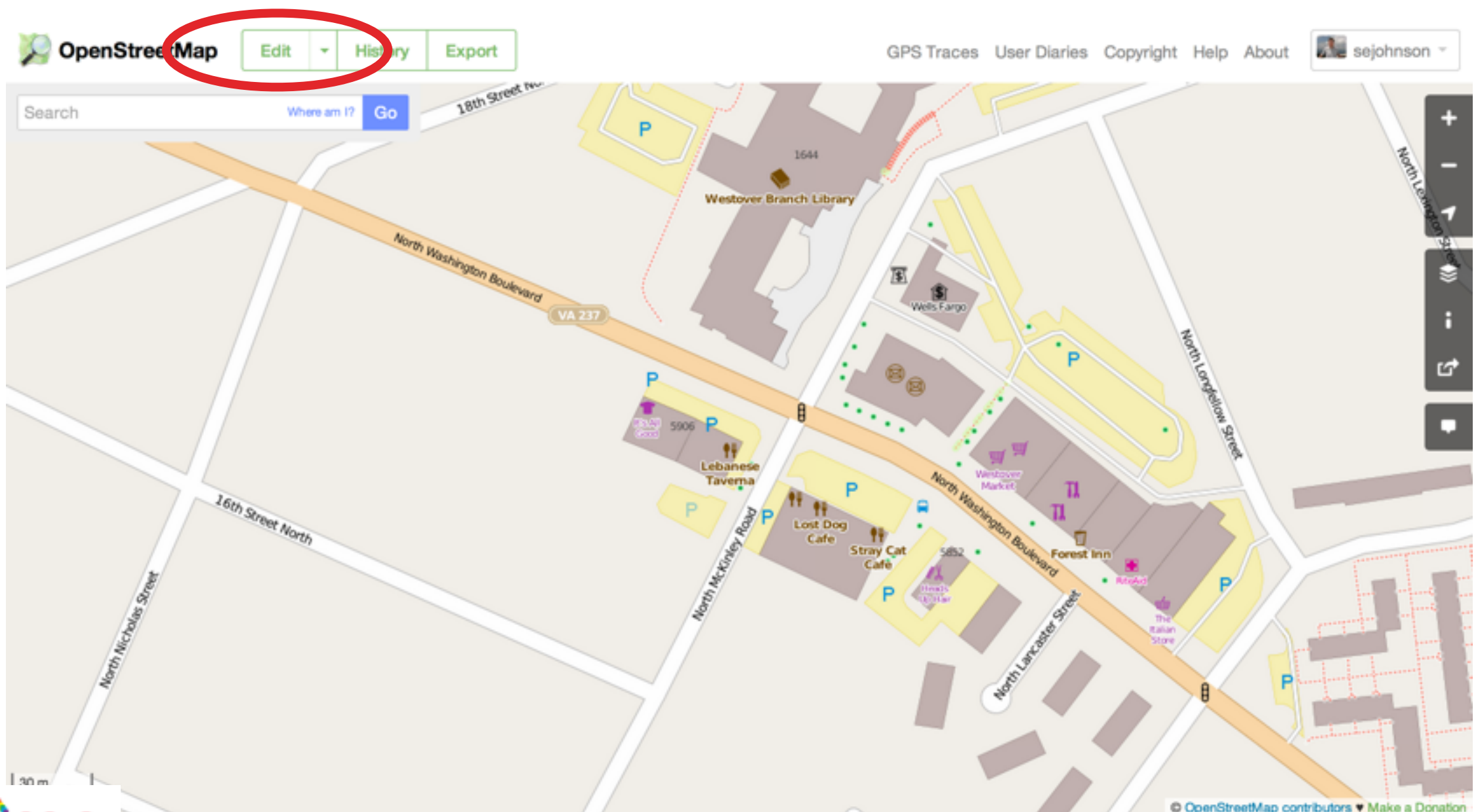


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- **Getting Starting Editing...**



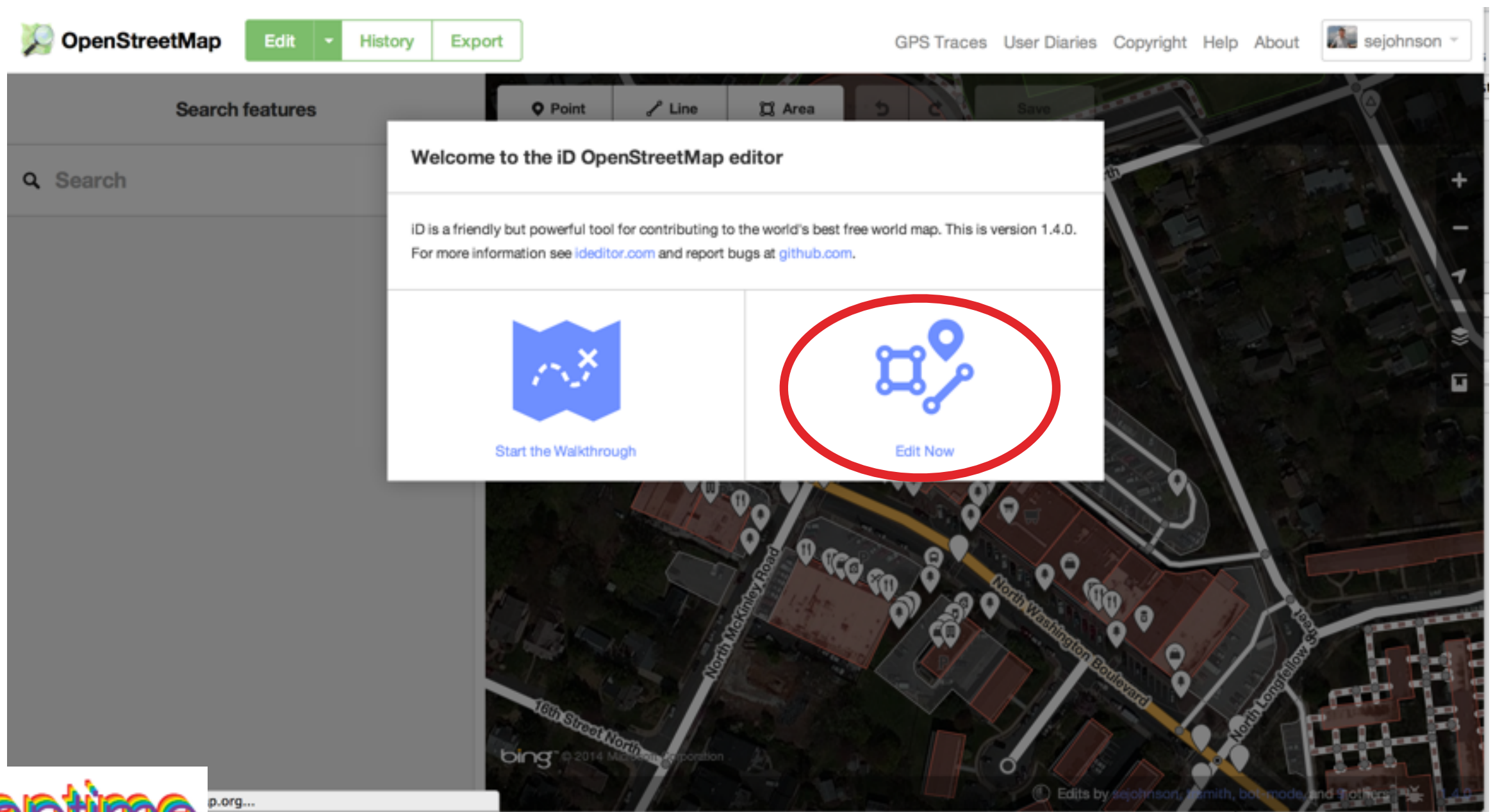
Starting the Editing Process

- Click 'Edit' to launch the iD editor



Starting the Editing Process

- Using iD editor



Editing Process

- iD editor features

The screenshot displays the OpenStreetMap iD editor interface. On the left, the 'Edit feature' sidebar is open, showing details for a 'Post Office' feature. The sidebar includes fields for Name, Operator, Collection Times, Building, and Address. The map on the right shows a satellite view of a neighborhood in Washington, D.C., with a red polygon outlining the 'Preston King Post Office'. The 'Save' button in the top right of the map area is circled in red. The 'Edit feature' button in the sidebar is also circled in red. Red arrows point to the 'Post Office' icon, the 'Name' field, and the 'Address' field. The map shows various landmarks and streets, including North Washington Boulevard and North Longfellow Street.

OpenStreetMap Edit History Export

GPS Traces User Diaries Copyright Help About sejohnson

Edit feature

Post Office

Name
Preston King Station

Operator
Unknown

Collection Times
Unknown

Building
☐

Address
5877 Washington Boulevard
Arlington 22205

Point Line Area Save 2

Preston King Post Office

North Washington Boulevard

Westover Market

Ayers Variety Store

Forest Inn

Grand Hunan

RiteAid

The Italian Store

Golden Valet Dry Cleaning & Laundry

Stray Cat Cafe

Fast Signs

bing © 2014 Microsoft Corporation

Edits by sejohnson, tramith, NetGIS, Scott, and 8 others 1.4.0

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

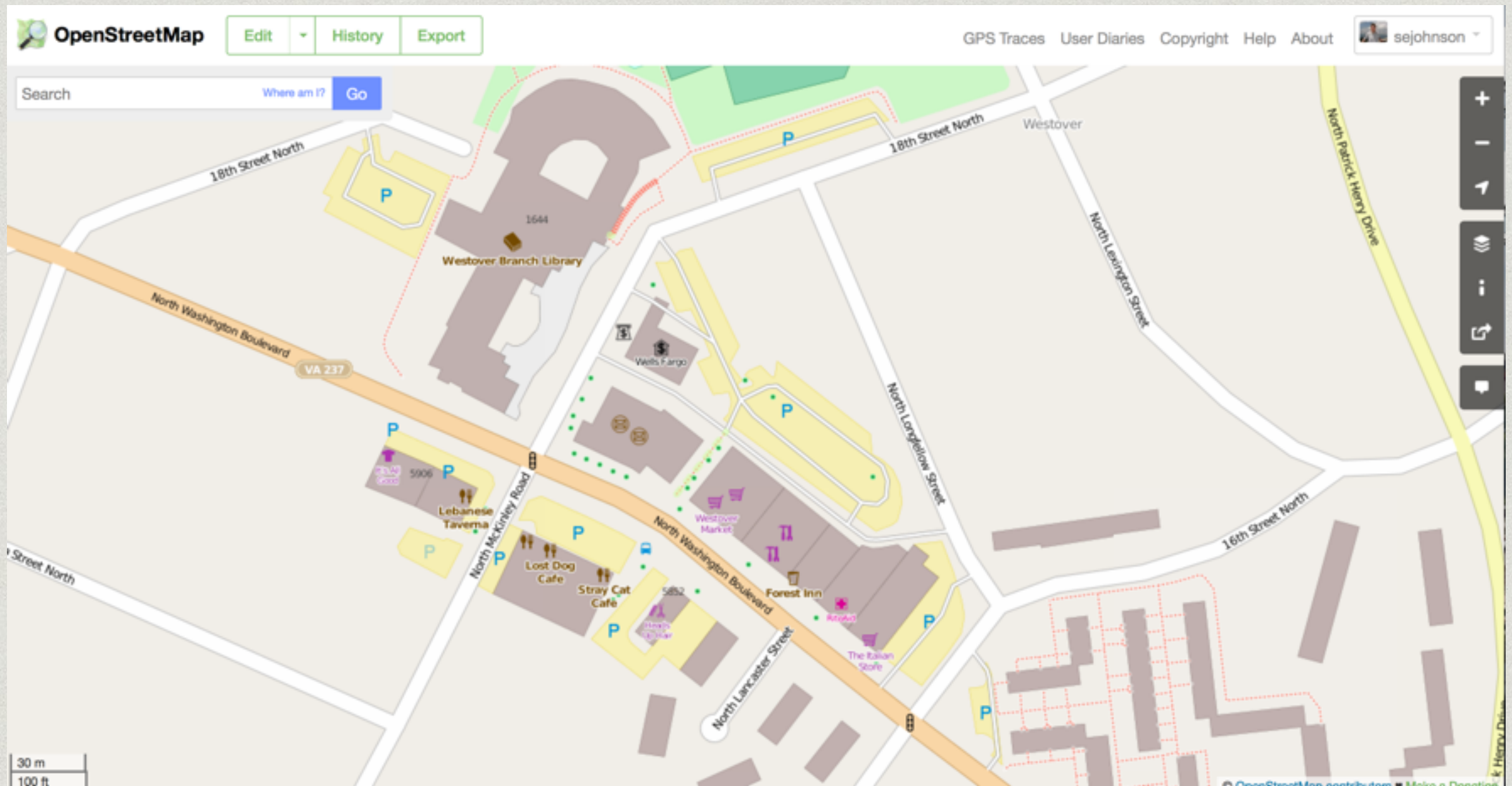
Try Digitizing One of These Linear Features...

- **Connectivity is important - 'snap' to adjoining features**
- Driveway
- Parking lot aisle
- Footpath
- Hiking Trail
- Bridge/Tunnel

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

Step 5. Admire Your Work



7 October 2012

Thank You

- Steven Johnson
- @geomantic
- <http://github.com/geomantic>

