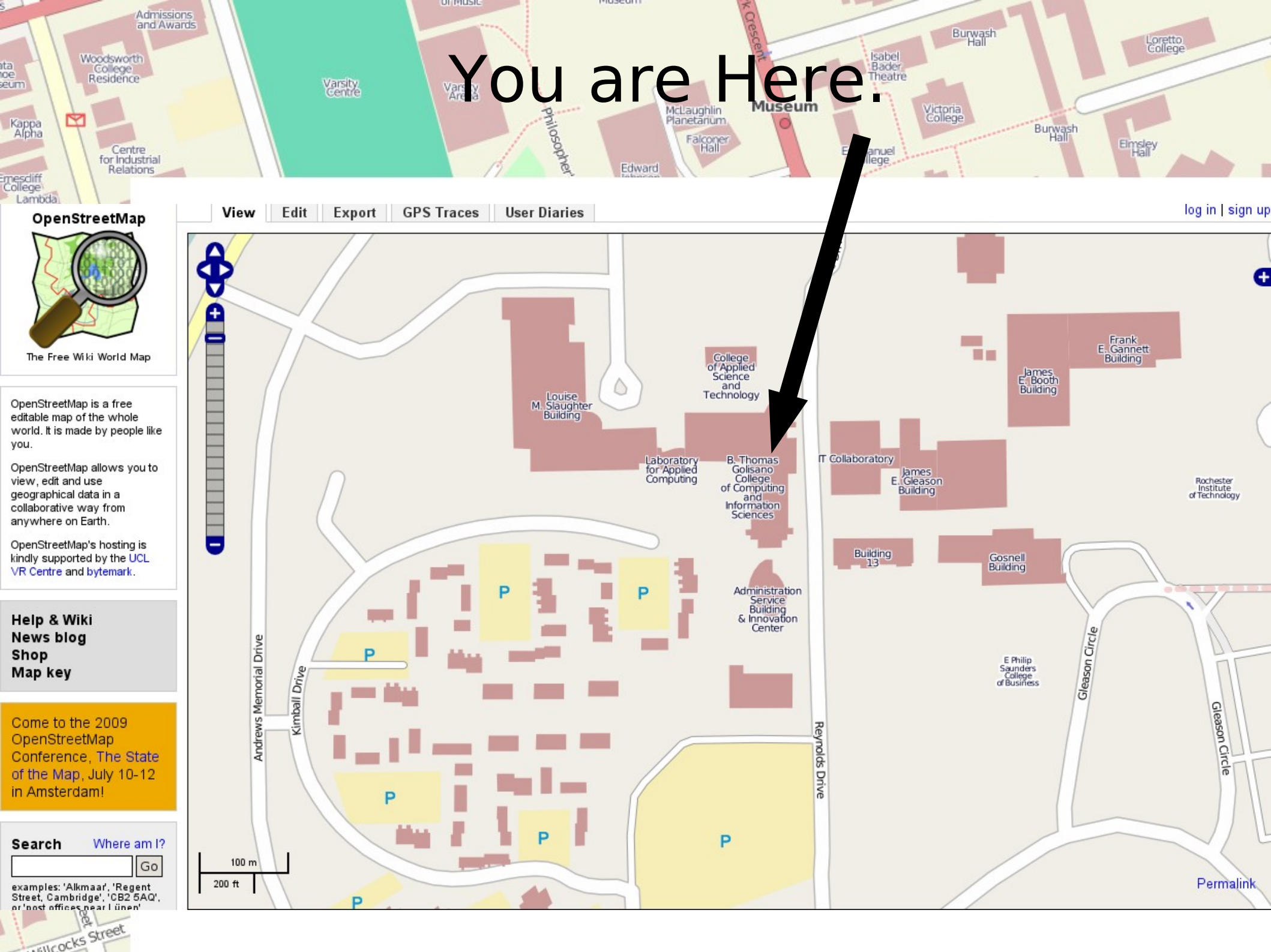
You are Here.
Admissions and Awards
Woodsworth College Residence
Varsity Centre
Varsity Arena
Philosopher
McLaughlin Planetarium
Museum
Falconer Hall
Edward
Burwash Hall
Isabel Bader Theatre
Victoria College
Loretto College
Elmsley Hall
Kappa Alpha
Centre for Industrial Relations
Ernescliff College
Lambda
OpenStreetMap
The Free Wiki World Map
View
Edit
Export
GPS Traces
User Diaries
log in | sign up
OpenStreetMap is a free editable map of the whole world. It is made by people like you.
OpenStreetMap allows you to view, edit and use geographical data in a collaborative way from anywhere on Earth.
OpenStreetMap's hosting is kindly supported by the UCL VR Centre and bytemark.
Help & Wiki
News blog
Shop
Map key
Come to the 2009 OpenStreetMap Conference, The State of the Map, July 10-12 in Amsterdam!
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Where am I?
Go
examples: 'Alkmaar', 'Regent Street, Cambridge', 'CB2 5AQ', or 'post offices near Lünen'
Louise M. Slaughter Building
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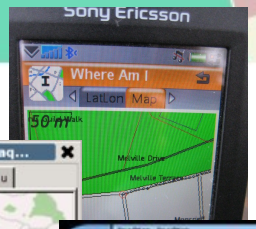
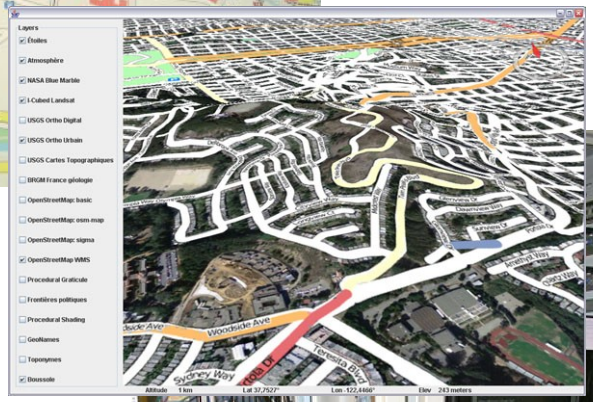
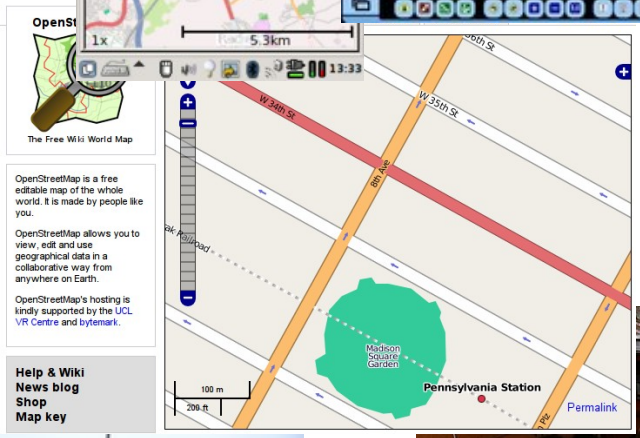
Laboratory for Applied Computing
B. Thomas Golisano College of Computing and Information Sciences
IT Collaboratory
James E. Gleason Building
Frank E. Gannett Building
James E. Booth Building
Rochester Institute of Technology
Building 13
Gosnell Building
Administration Service Building & Innovation Center
E Philip Saunders College of Business
Andrews Memorial Drive
Kimball Drive
Reynolds Drive
Gleason Circle
Gleason Circle
P
100 m
200 ft
Permalink

Jump to the end.

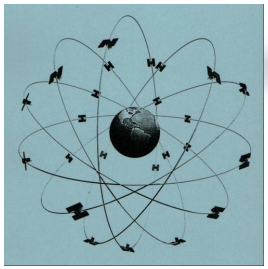


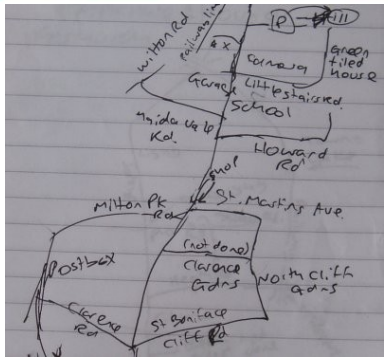


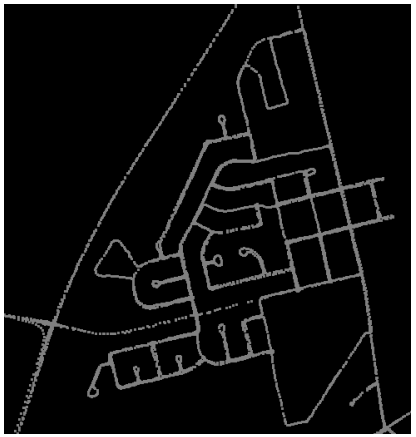


What you can do with OSM.

Jump to the end.



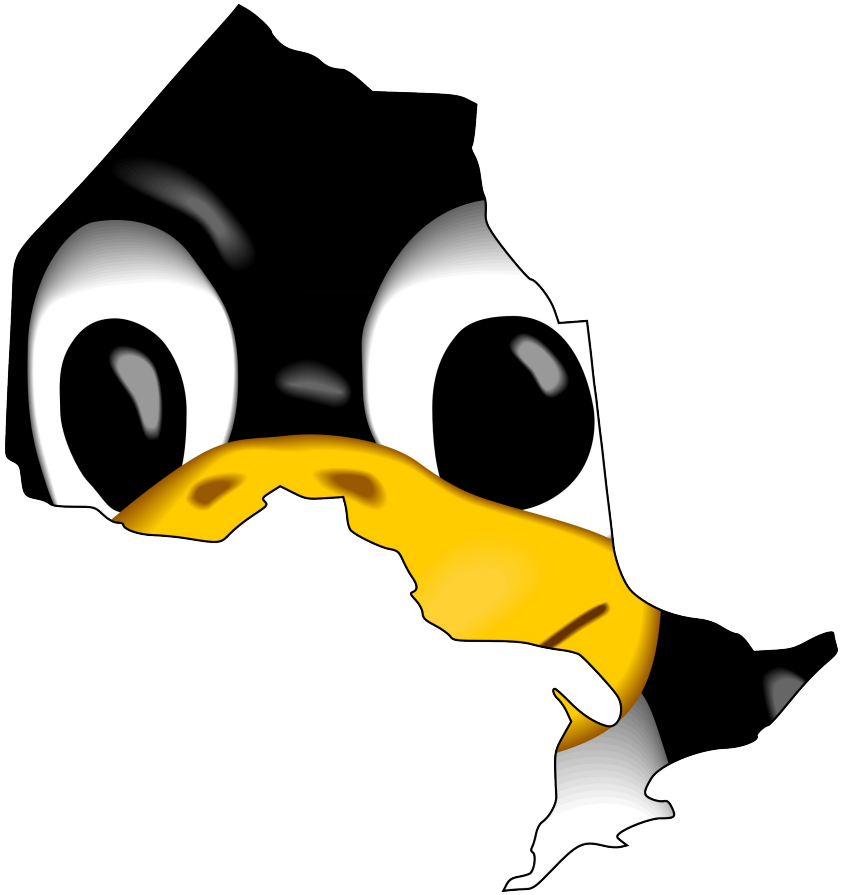




...and how you can do it.

Ontario [GNU] Linux Fest 2009

Saturday 24 October 2009



http://onlinux.ca/

Introduction to OSM | Presentation cc-by Richard Weait http://weait.com

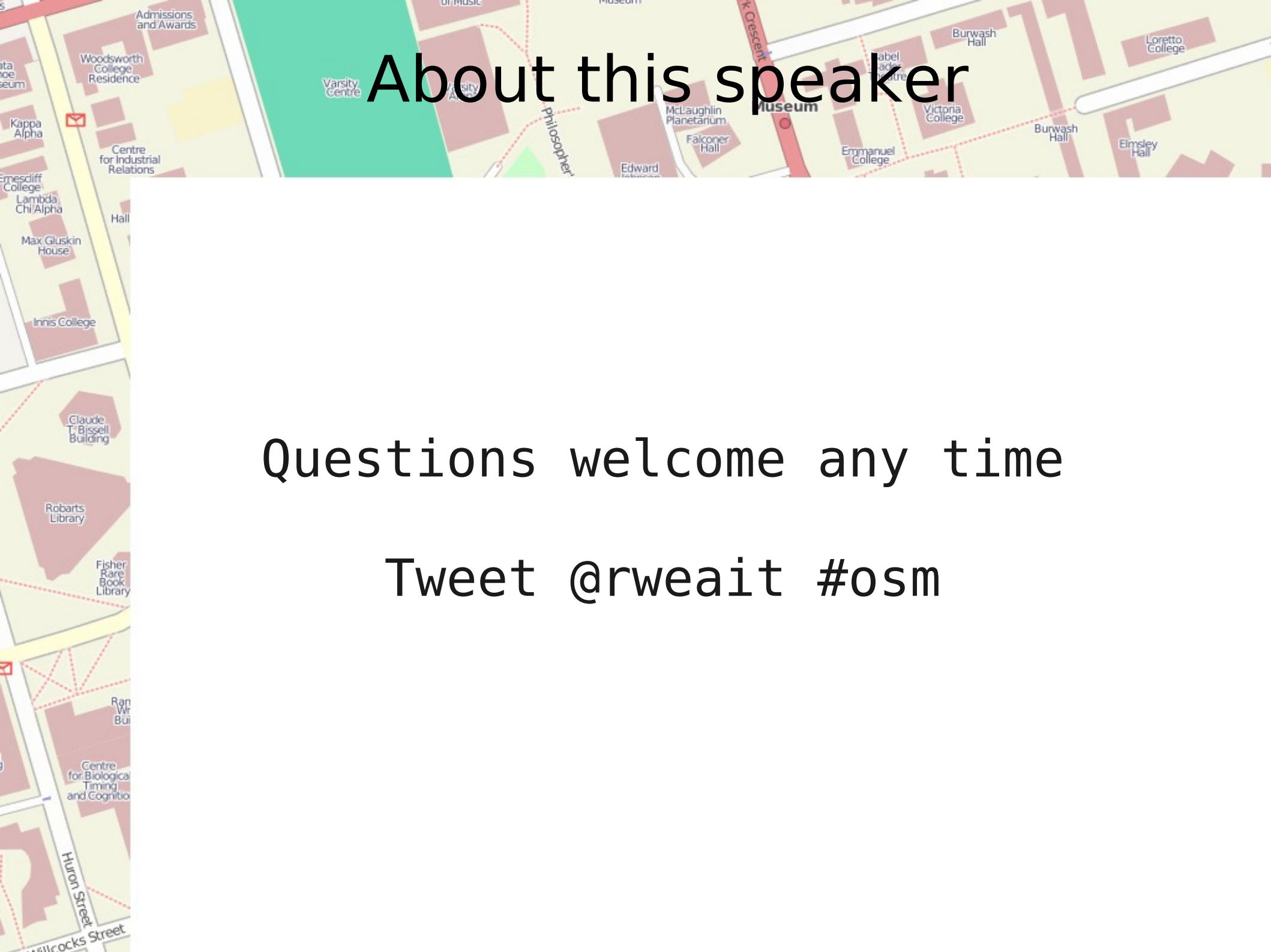
Richard Weait | OSM Map Data cc-by-sa http://OpenStreetMap.org/

Introduction to OpenStreetMap

My Goal

Your Goal

Any current OSM users?

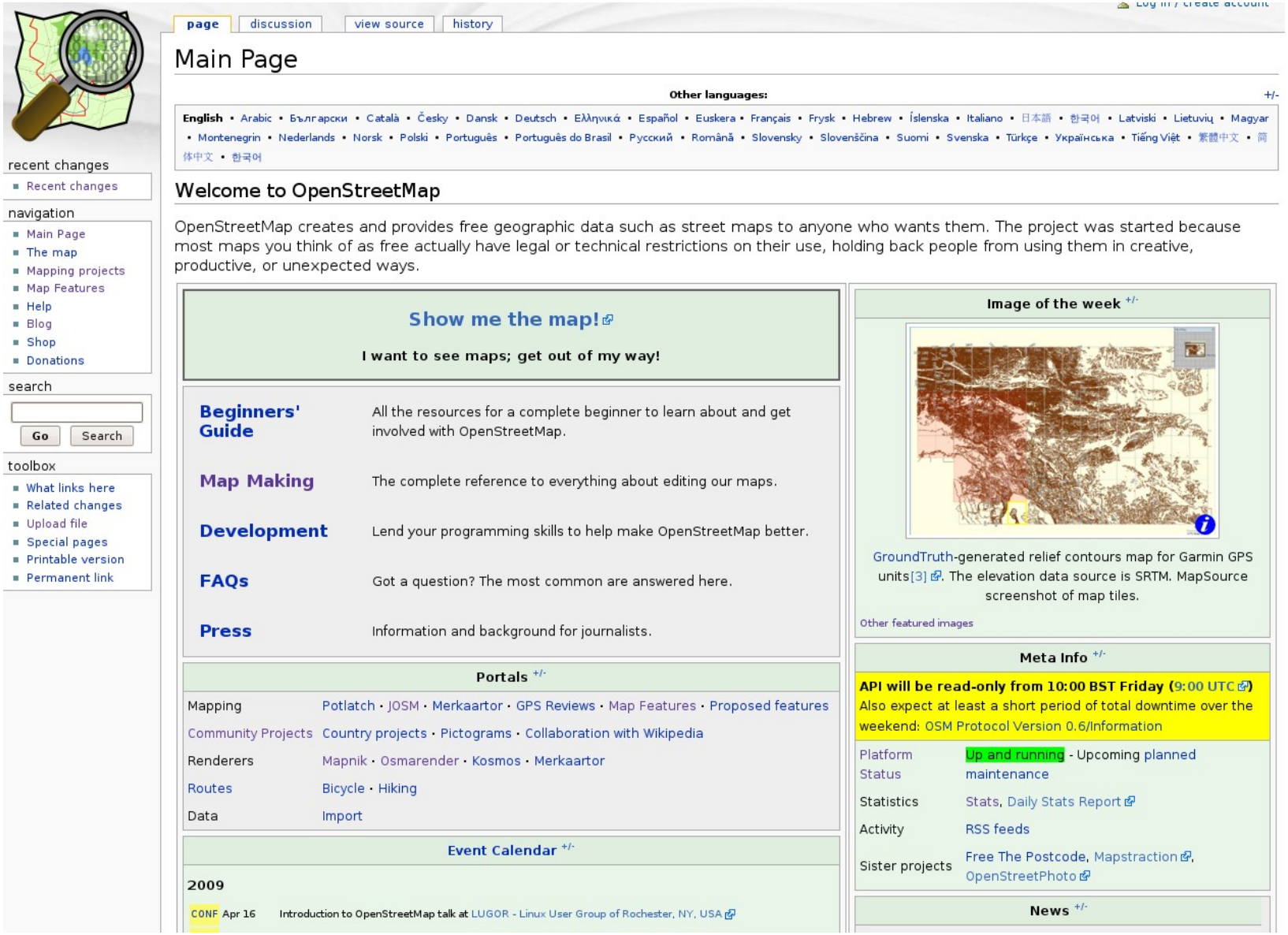


About this speaker

Questions welcome any time

Tweet @rweait #osm

News: API upgrade this weekend.



page | discussion | view source | history

Main Page

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- Recent changes

navigation
- Main Page
- The map
- Mapping projects
- Map Features
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- Shop
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Go | Search

toolbox
- What links here
- Related changes
- Upload file
- Special pages
- Printable version
- Permanent link

Welcome to OpenStreetMap

OpenStreetMap creates and provides free geographic data such as street maps to anyone who wants them. The project was started 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.

Show me the map!

I want to see maps; get out of my way!

Beginners' Guide	All the resources for a complete beginner to learn about and get involved with OpenStreetMap.
Map Making	The complete reference to everything about editing our maps.
Development	Lend your programming skills to help make OpenStreetMap better.
FAQs	Got a question? The most common are answered here.
Press	Information and background for journalists.

Portals +/-

Mapping	Potlatch · JOSM · Merkaartor · GPS Reviews · Map Features · Proposed features
Community Projects	Country projects · Pictograms · Collaboration with Wikipedia
Renderers	Mapnik · Osmarender · Kosmos · Merkaartor
Routes	Bicycle · Hiking
Data	Import

Event Calendar +/-

2009

CONF Apr 16 Introduction to OpenStreetMap talk at LUGOR - Linux User Group of Rochester, NY, USA

Image of the week +/-

GroundTruth-generated relief contours map for Garmin GPS units[3]. The elevation data source is SRTM. MapSource screenshot of map tiles.

Other featured images

Meta Info +/-

API will be read-only from 10:00 BST Friday (9:00 UTC)
Also expect at least a short period of total downtime over the weekend: OSM Protocol Version 0.6/Information

Platform Status	Up and running - Upcoming planned maintenance
Statistics	Stats, Daily Stats Report
Activity	RSS feeds
Sister projects	Free The Postcode, Mapstraction, OpenStreetPhoto

News +/-

Agenda

- **Maps**
- What is OpenStreetMap?
- But doesn't ____.com do that already?
- OSM advantages
- How to have fun with OSM.

So what?
Why do we care about maps?
Admissions and Awards
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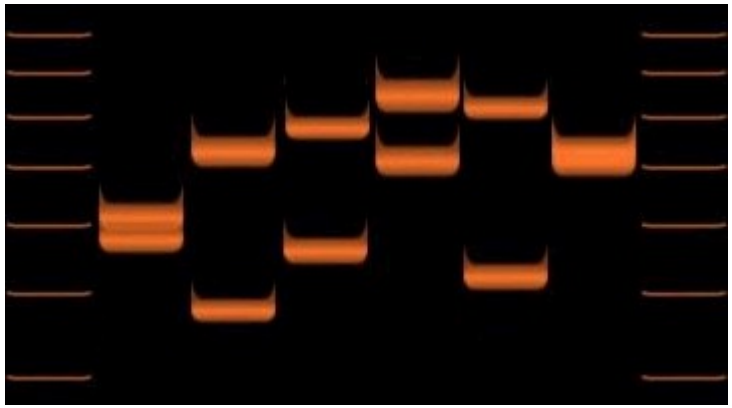
Varsity Arena
Museum
McLaughlin Planetarium
Falconer Hall
Edward
Burwash Hall
Isabel Bader Theatre
Victoria College
Emmanuel College
Loretto College
Elmsley Hall
Kappa Alpha
Centre for Industrial Relations
Lambda Chi Alpha
Max Gluskin House
Innis College
Claude T. Bissell Building
Robarts Library
Fisher Rare Book Library
Centre for Biological Timing and Cognitio
Huron Street
Willcocks Street

Map of the genome?

VNTR allelic variation



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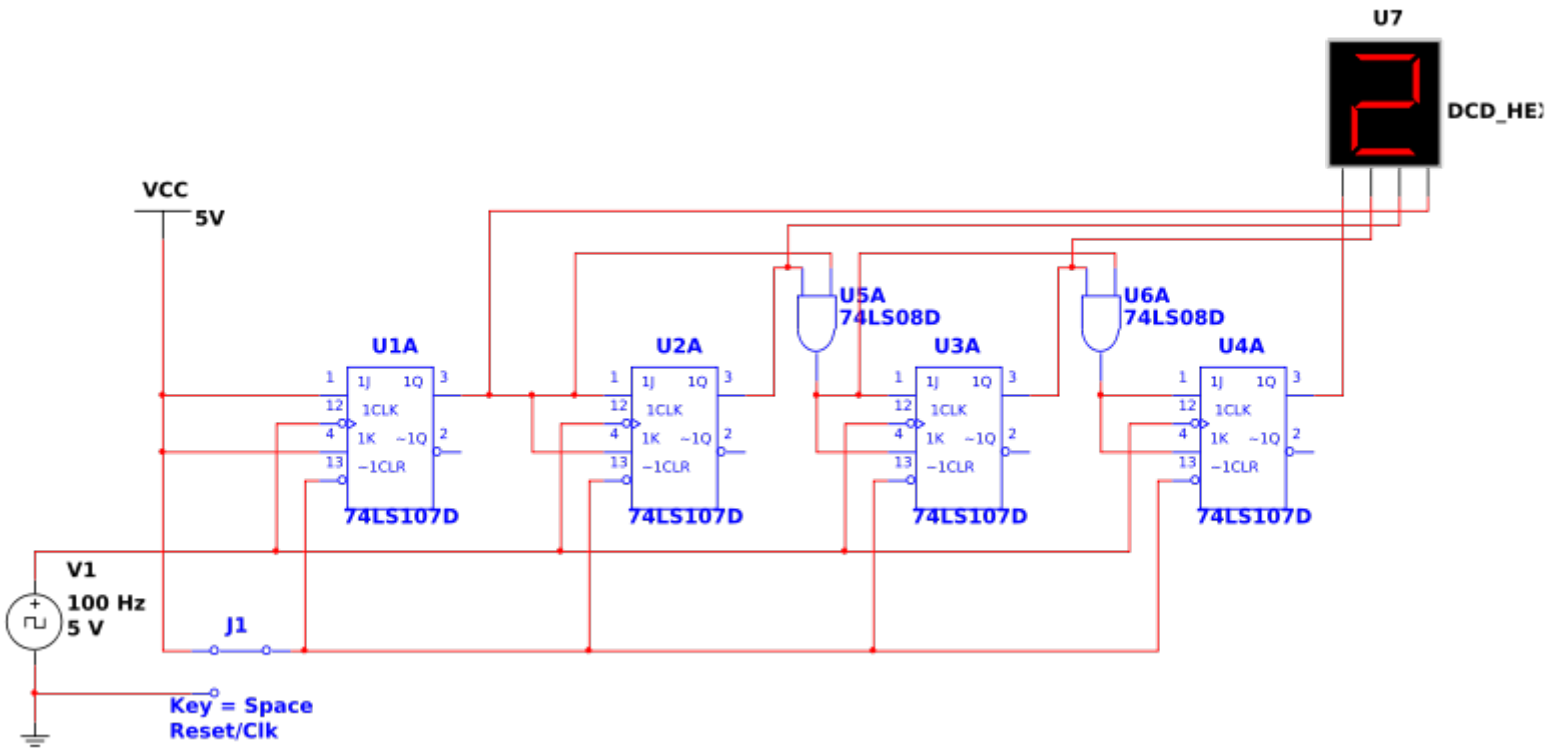
Circuit diagram?



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Recognize this map?

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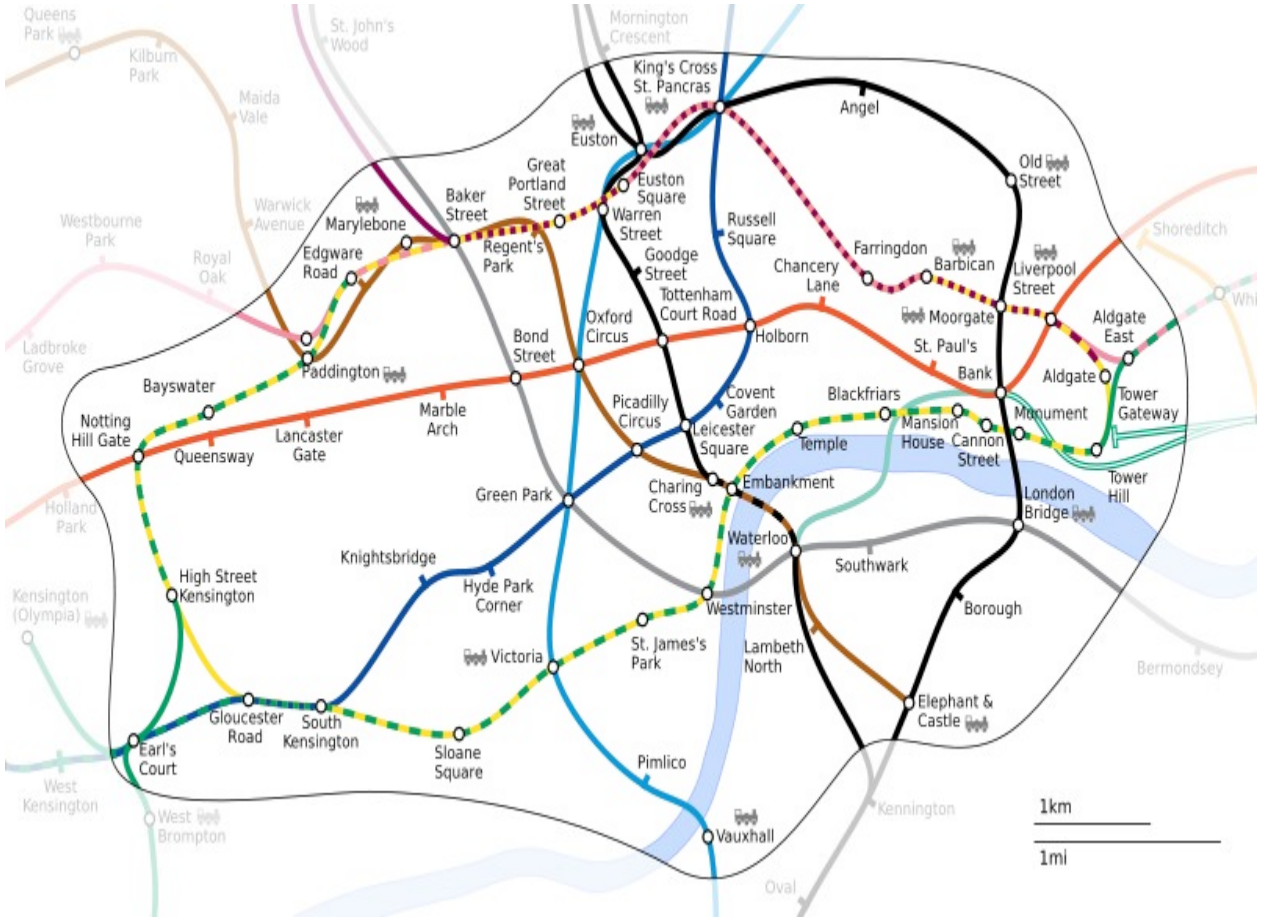
Cartogram



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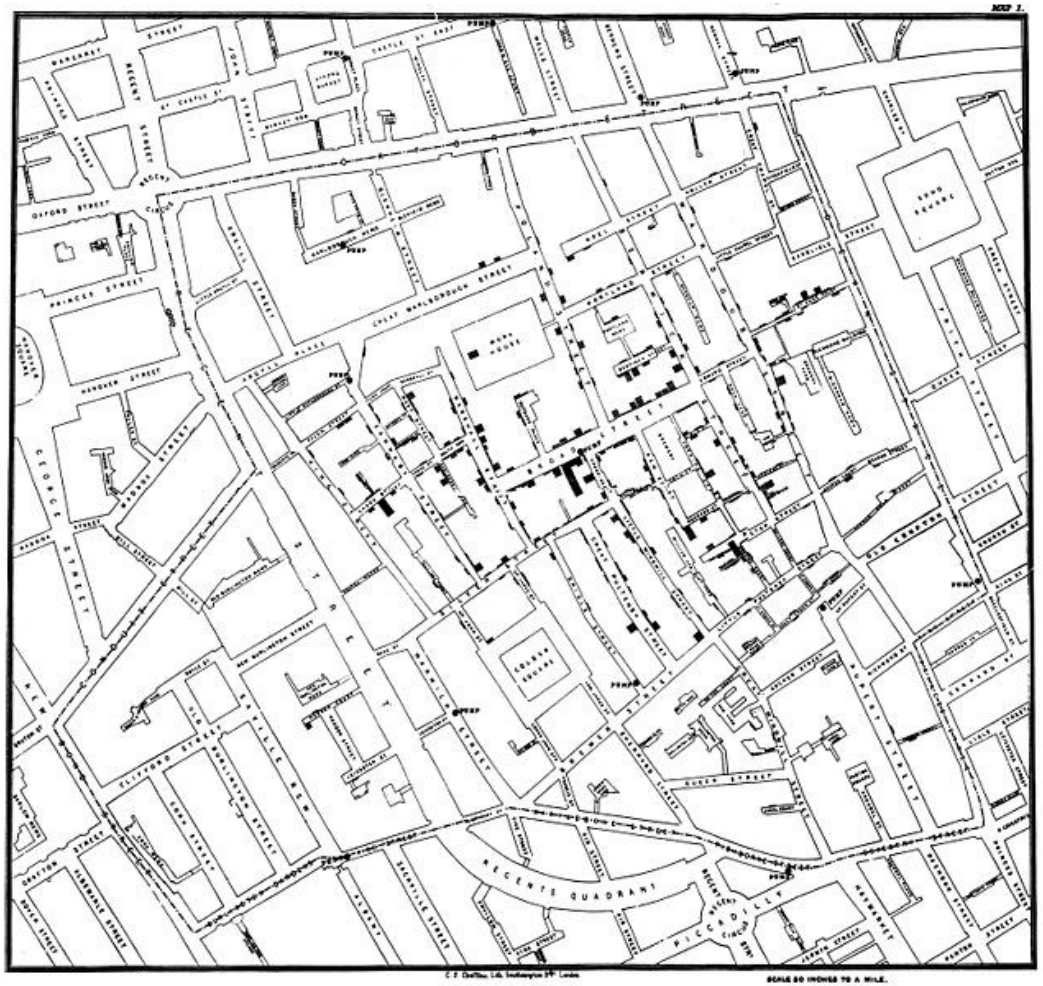
Cholera



Dr. John Snow, London, 1843

International trade

Public Domain
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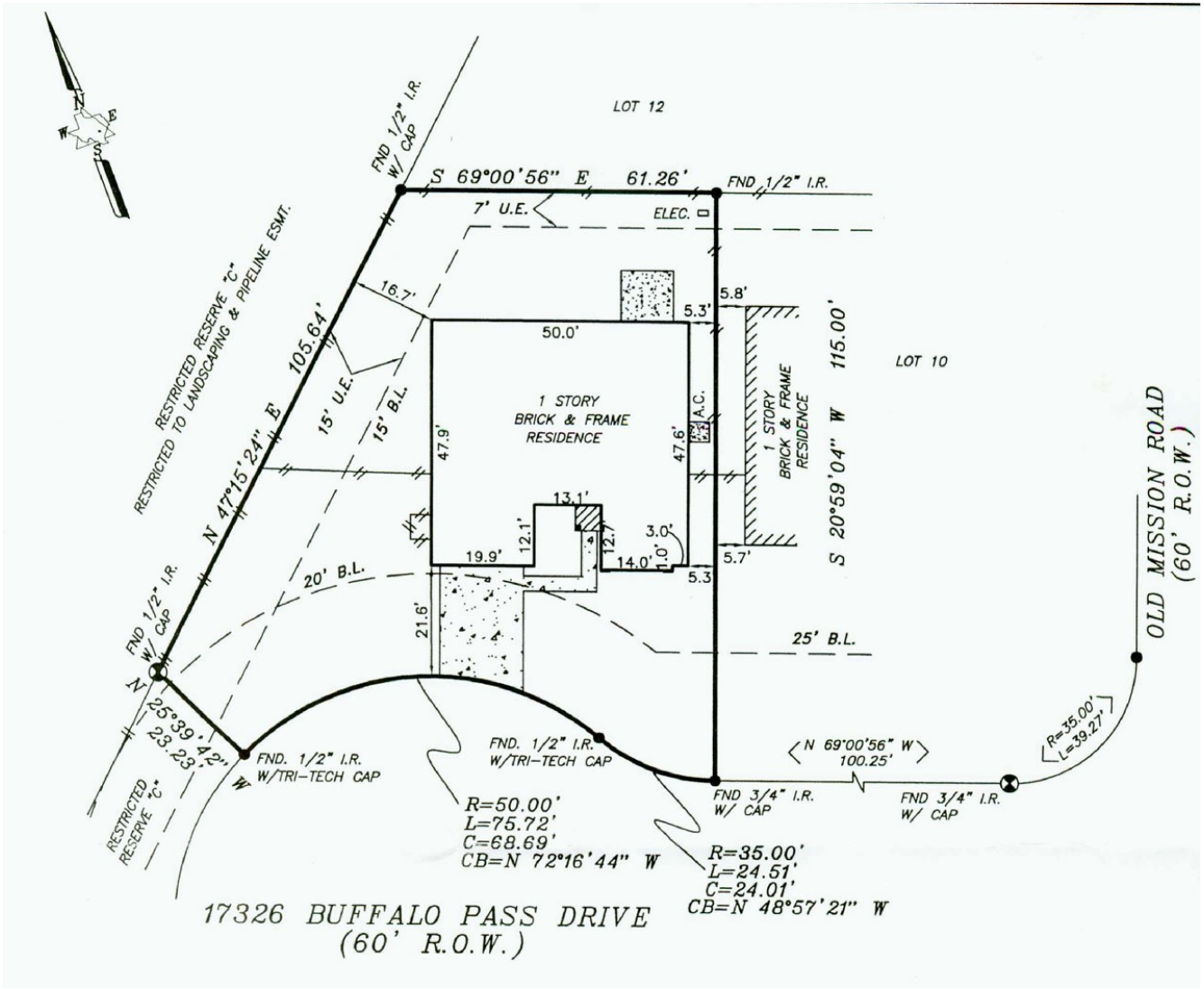
Ownership



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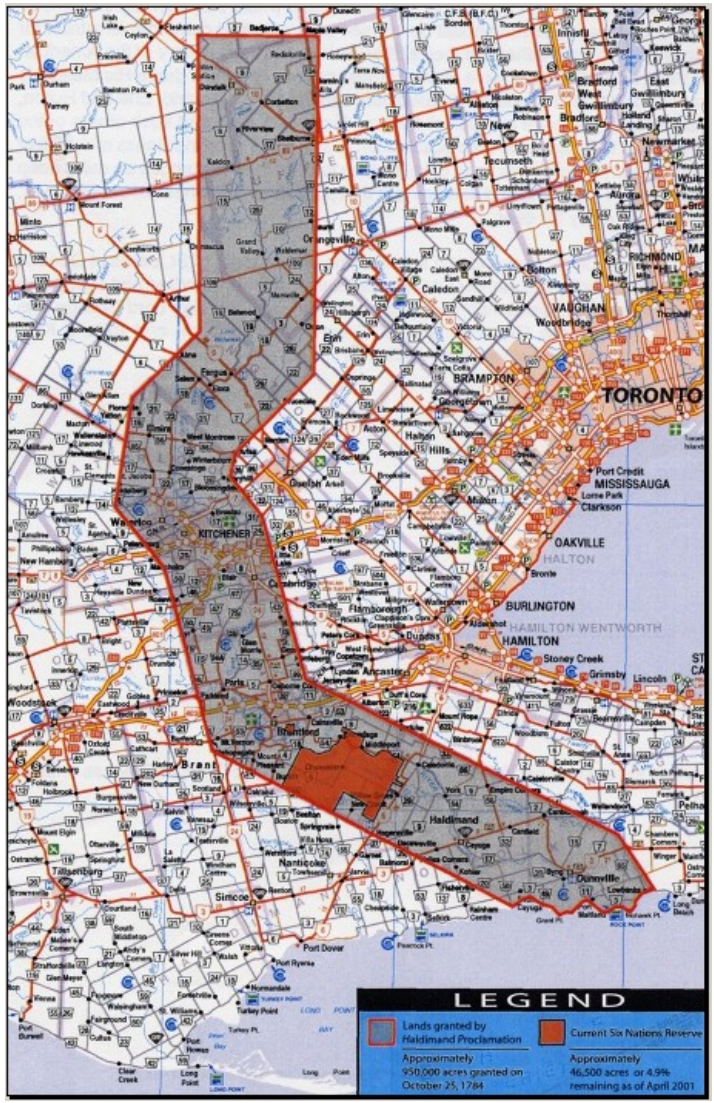
Haldimand Tract



Copyright
http://www.sixnations.ca/LandsResources/HaldProc.htm

Agenda

- Maps
- **What is OpenStreetMap?**
- But doesn't ____.com do that already?
- OSM advantages
- How to have fun with OSM.

OpenStreetMap is ...

"OpenStreetMap is a project aimed squarely at creating and providing free geographic data such as street maps to anyone who wants them."

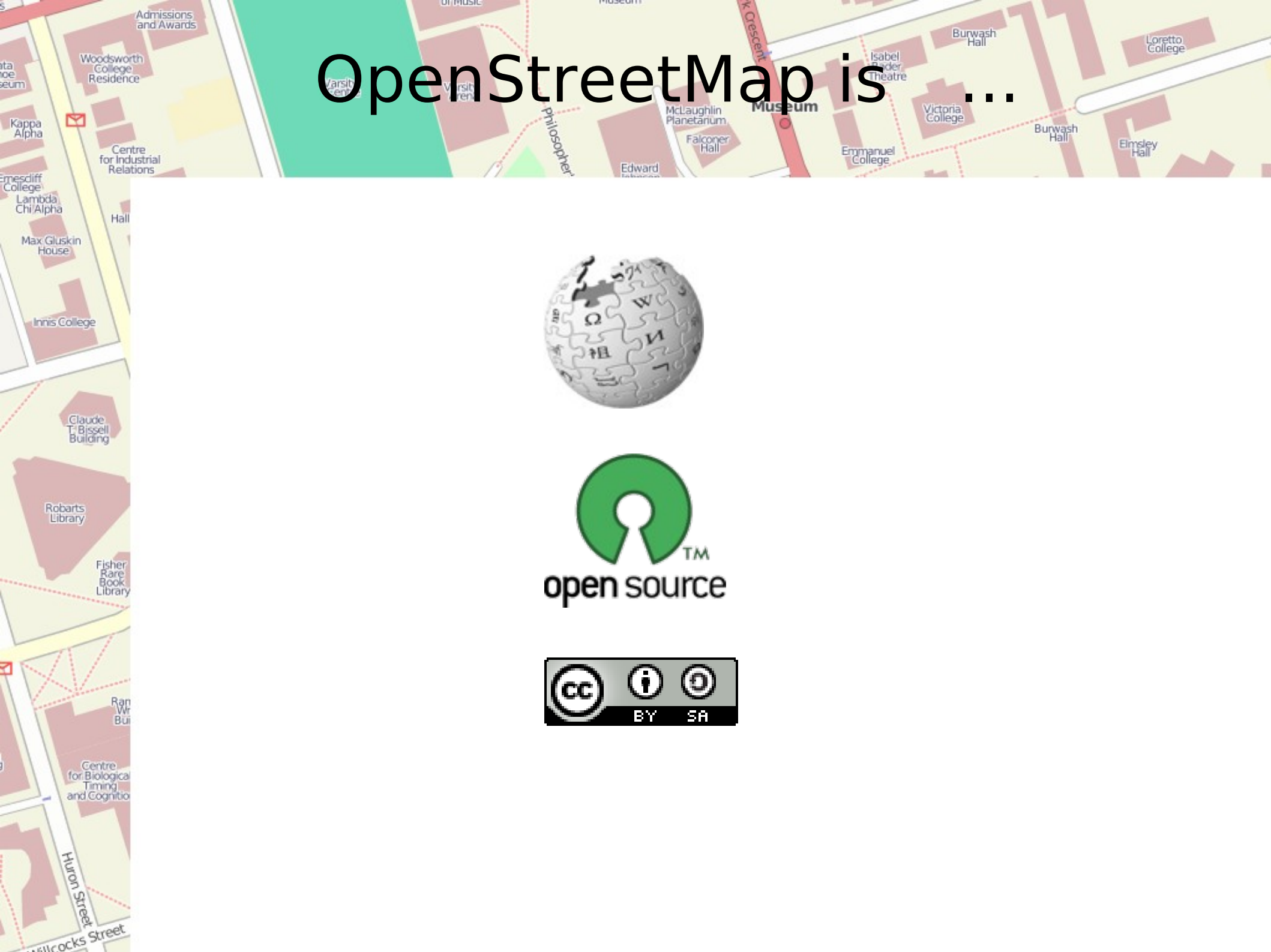
-- www.openstreetmap.org

OpenStreetMap is ...

"The project was started 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."

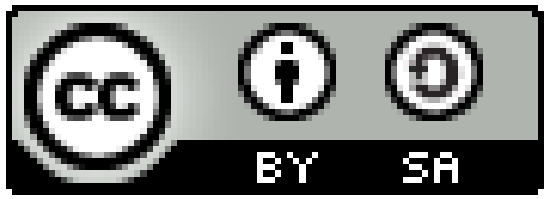
-- www.openstreetmap.org

OpenStreetMap is ...



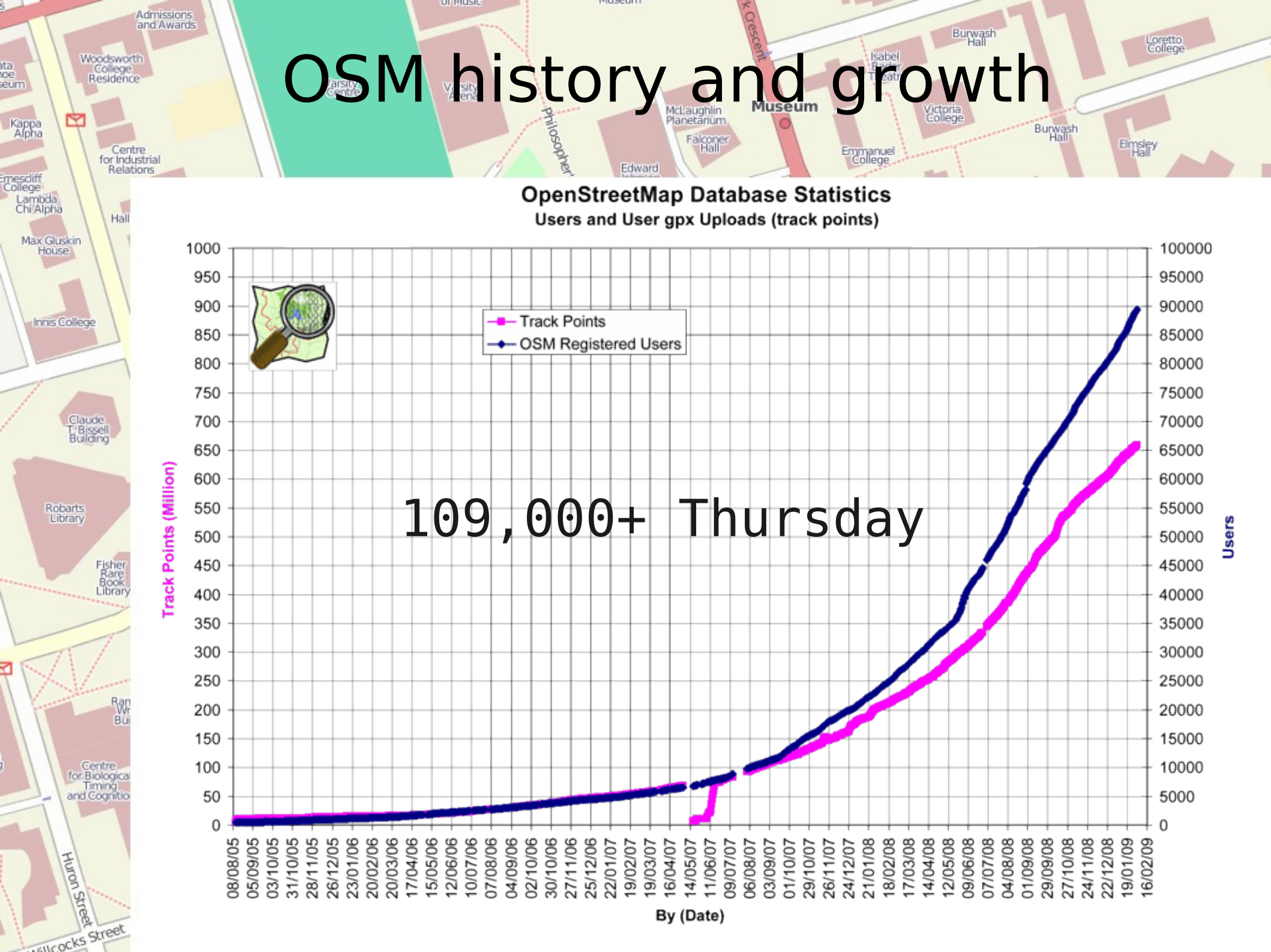
Four freedoms of Free Software

Data license



→ **ODbL**

OSM history and growth



OSM data summary (simplified)

Some stats from Planet as at 17 June 2008				
Amenity	**Count**		**Highway**	**km**
parking	69,040		residential	12031060
fuel	28,158		secondary	1536188
place_of_worship	18,176		primary	1094060
school	18,104		service	831537
pub	13,822		track	691015
post_box	13,192		unclassified	682544
restaurant	11,267		motorway	515899
telephone	6,954		tertiary	479555
recycling	5,827		trunk	395494
parking;fuel	4,375		footway	151715
post_office	4,208		motorway_link	86938
fast_food	4,202		cycleway	68499
pharmacy	3,992		pedestrian	13373
bank	3,846		trunk_link	9098
hospital	3,417		unsurfaced	8652
library	3,253		bridleway	7345
kindergarten	2,686			
fire_station	2,628		**Place**	**Count**
cafe	2,545		hamlet	209,472
toilets	2,485		village	157,417
police	2,261		town	22,457
atm	1,902		suburb	17,318
public_building	1,889		city	3,651

General:

Average length of a way is **1.222km**

Total length of all ways is **22,410,744km**

OpenStreetMap
We make beautiful maps.
And we give them away.
Admissions and Awards
Woodsworth College Residence
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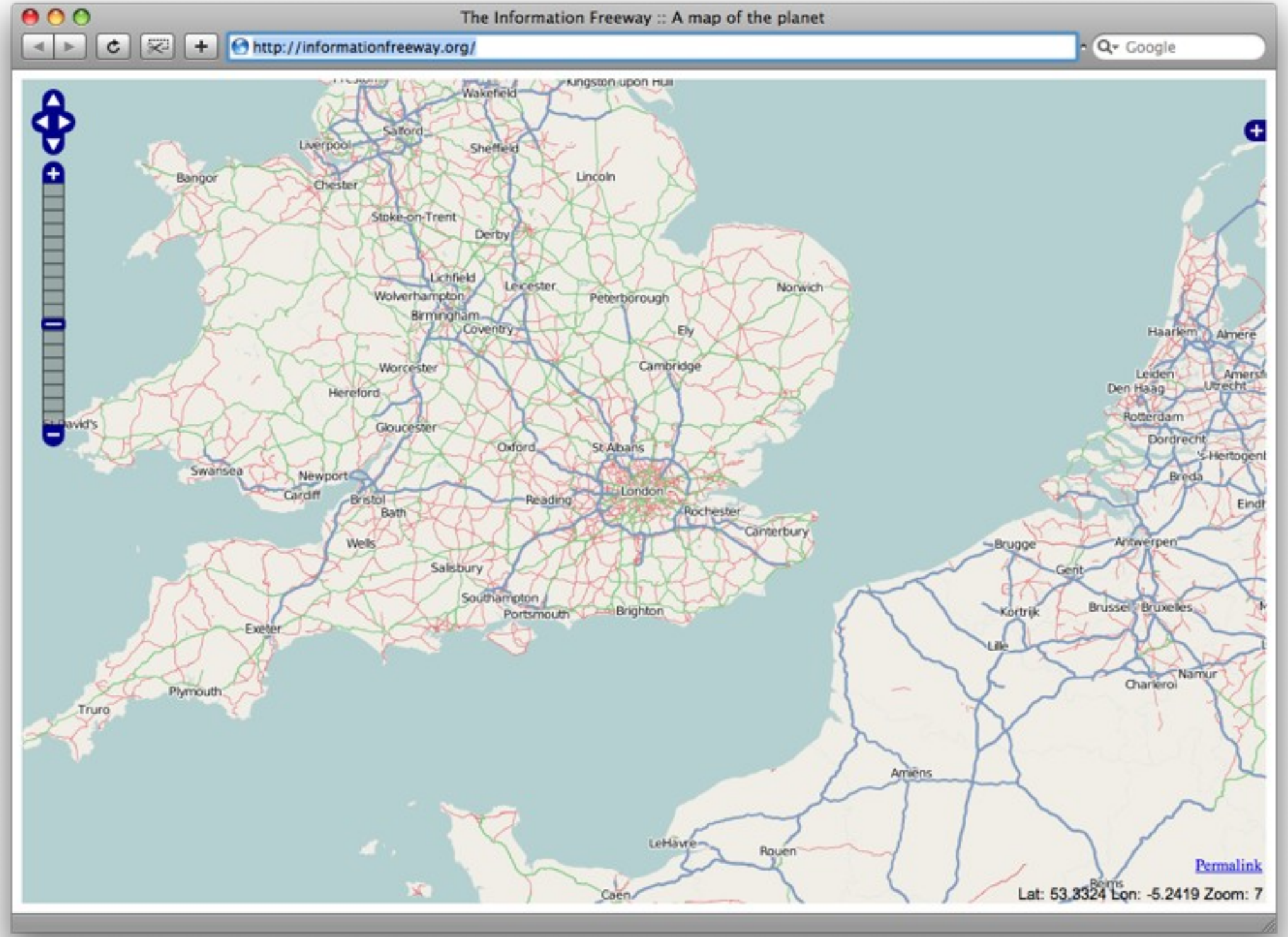
Museum
Burwash Hall
Loretto College
Victoria College
Emmanuel College
Kappa Alpha
Centre for Industrial Relations
Lambda Chi Alpha
Max Gluskin House
Innis College
Claude T. Bissell Building
Robarts Library
Fisher Rare Book Library
Huron Street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Stoke-on-Trent
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Lichfield
Leicester
Wolverhampton
Peterborough
Norwich
Birmingham
Coventry
Ely
Haarlem
Almere
Worcester
Cambridge
Leiden
Den Haag
Utrecht
Hereford
Rotterdam
Gloucester
Dordrecht
Oxford
St Albans
Swansea
Newport
Cardiff
Bristol
Reading
London
Breda
Bath
Rochester
Canterbury
Wells
Brugge
Antwerpen
Salisbury
Gent
Southampton
Portsmouth
Brighton
Kortrijk
Brussel
Bruxelles
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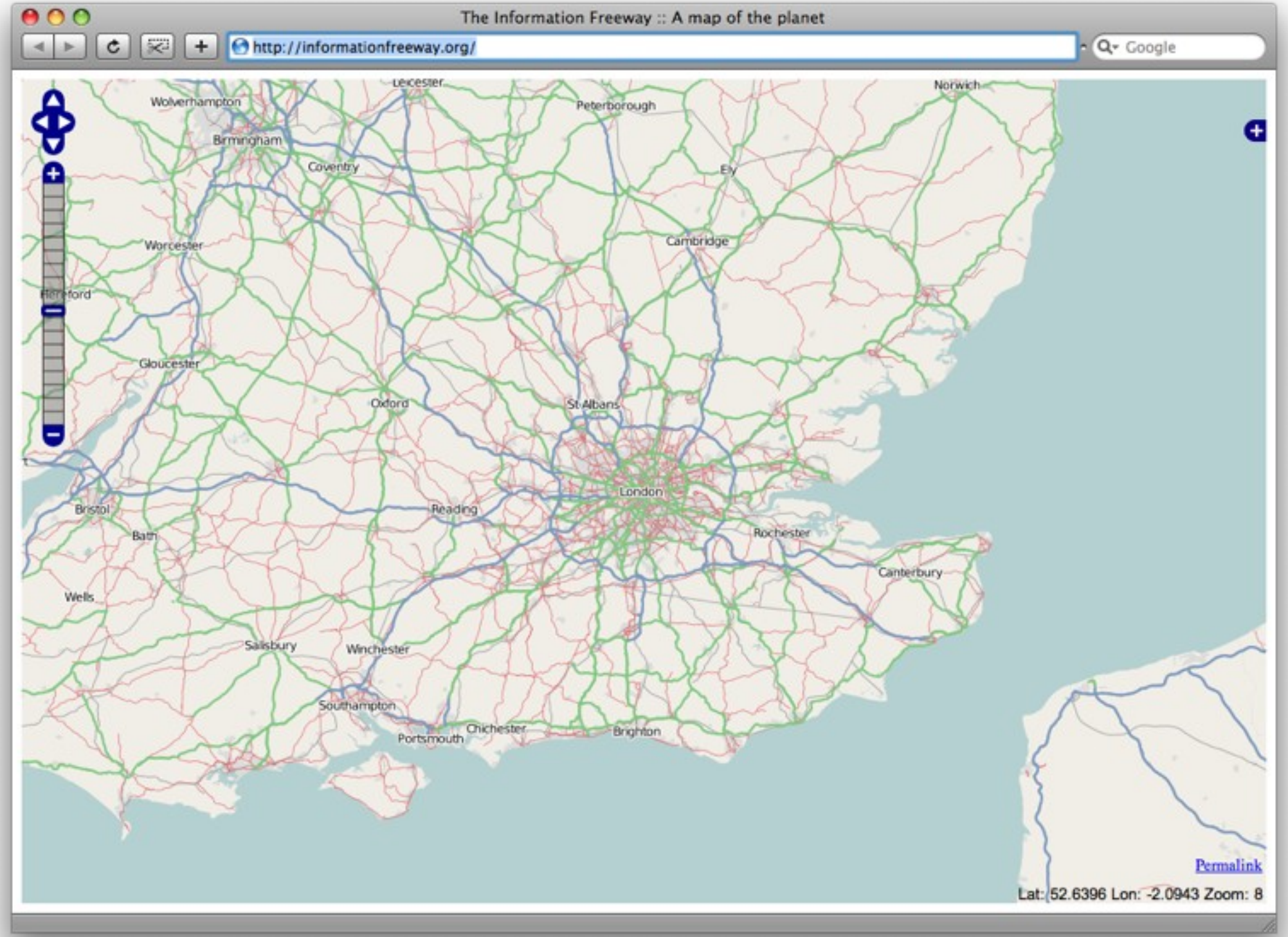
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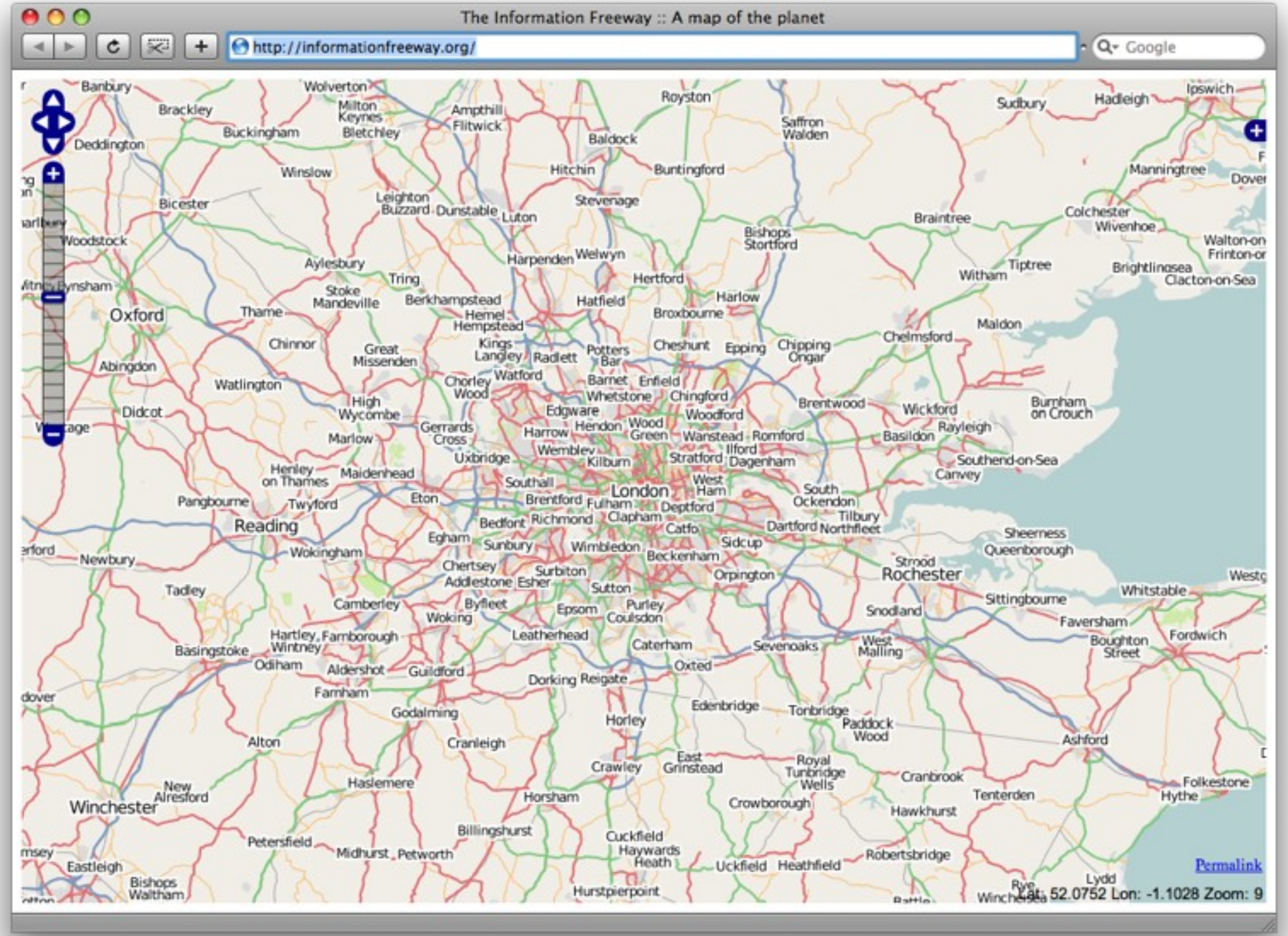
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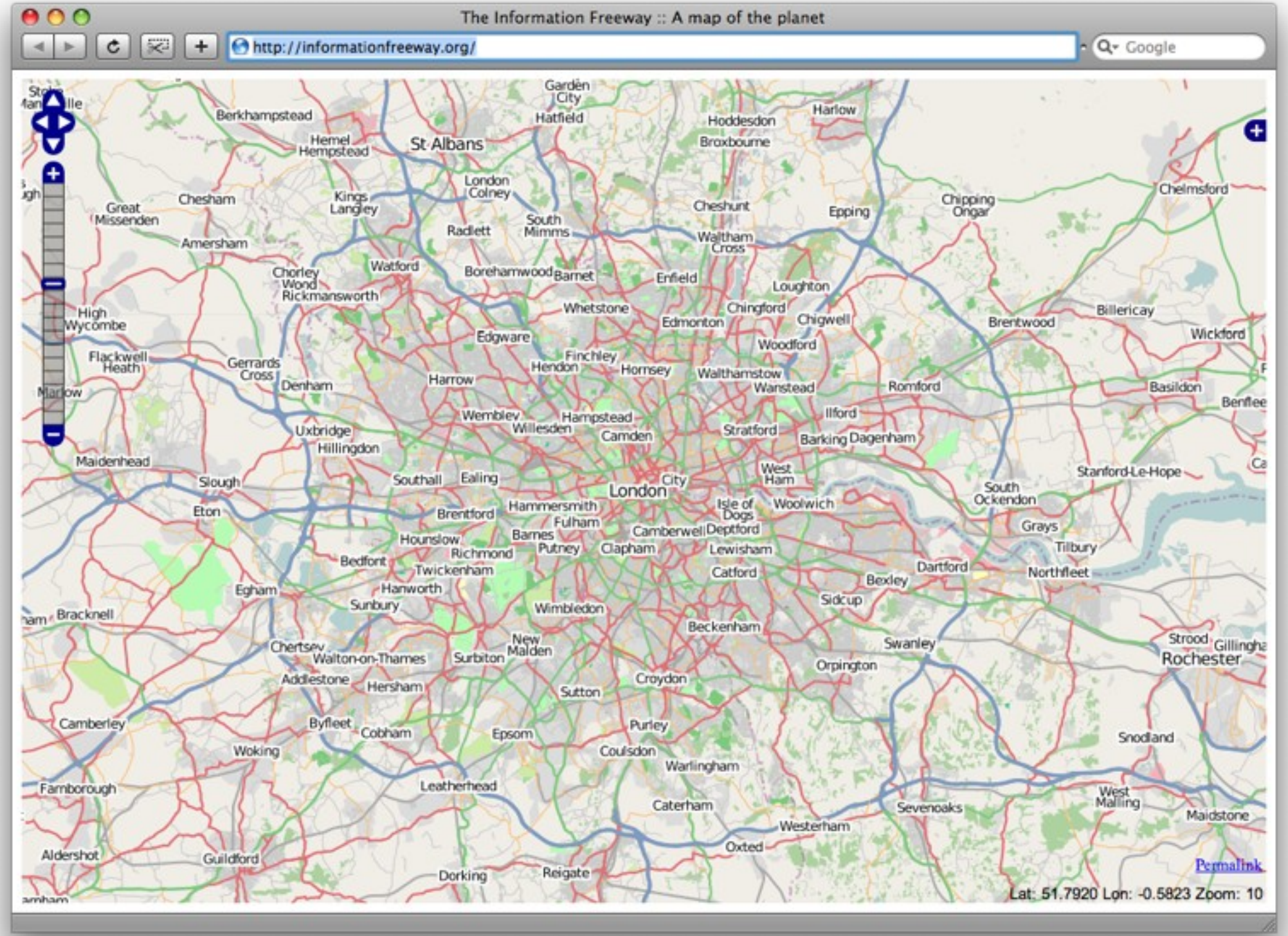
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Great Missenden
Amersham
Radlett
South Mimms
Cheshunt
Epping
Chipping Ongar
Chelmsford
Waltham Cross
Watford
Borehamwood
Barnet
Enfield
Loughton
Chorley Wood
Rickmansworth
Whetstone
Chingford
Chigwell
Billericay
Brentwood
Wickford
High Wycombe
Edmonton
Edgware
Woodford
Flackwell Heath
Gerrards Cross
Finchley
Hendon
Hornsey
Walthamstow
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Basildon
Marlow
Wembley
Hampstead
Willesden
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Stratford
Ilford
Barking
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Uxbridge
Hillingdon
Maidenhead
Slough
Southall
Ealing
West Ham
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South Ockendon
Eton
Hammersmith
Isle of Dogs
Woolwich
Brentford
Fulham
Camberwell
Deptford
Grays
Hounslow
Barnes
Putney
Clapham
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Tilbury
Richmond
Bedfont
Twickenham
Catford
Dartford
Northfleet
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Sunbury
Wimbledon
Bracknell
Beckenham
Chertsey
New Malden
Swanley
Strood
Rochester
Walton-on-Thames
Surbiton
Orpington
Addlestone
Hersham
Croydon
Sutton
Camberley
Byfleet
Cobham
Epsom
Purley
Snodland
Woking
Coulsdon
Warlingham
Farnborough
Leatherhead
Caterham
Sevenoaks
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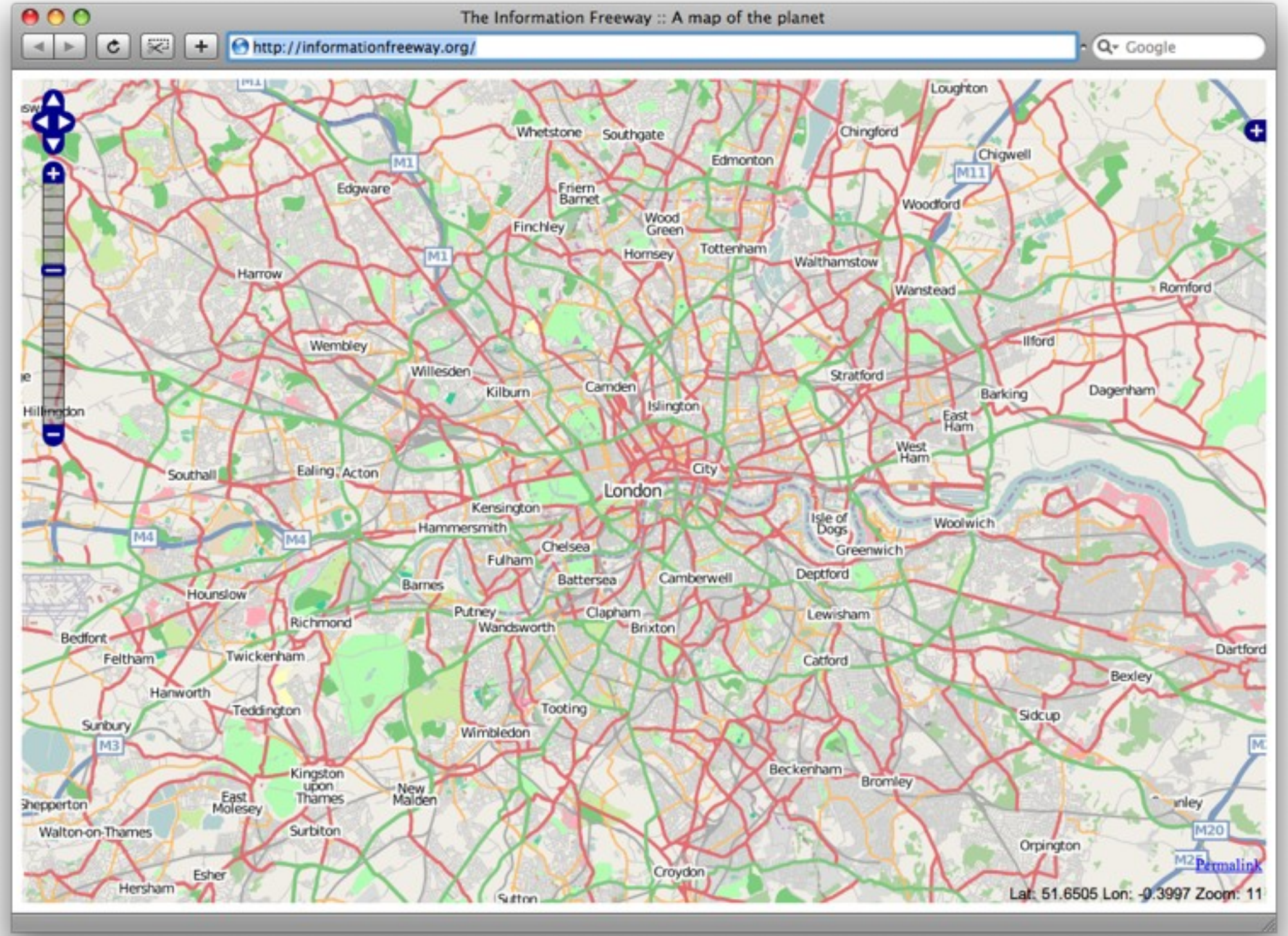
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Edgware
Friern Barnet
Woodford
Finchley
Wood Green
Tottenham
Hornsey
Walthamstow
Harrow
Wanstead
Romford
Wembley
Ilford
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Southall
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Acton
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Hammersmith
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Chelsea
Greenwich
Fulham
Deptford
Battersea
Camberwell
Barnes
Hounslow
Putney
Clapham
Lewisham
Richmond
Wandsworth
Brixton
Bedfont
Dartford
Feltham
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Bexley
Hanworth
Teddington
Tooting
Sidcup
Sunbury
M3
Wimbledon
Kingston upon Thames
Beckenham
Bromley
New Malden
East Molesey
Shepperton
Walton-on-Thames
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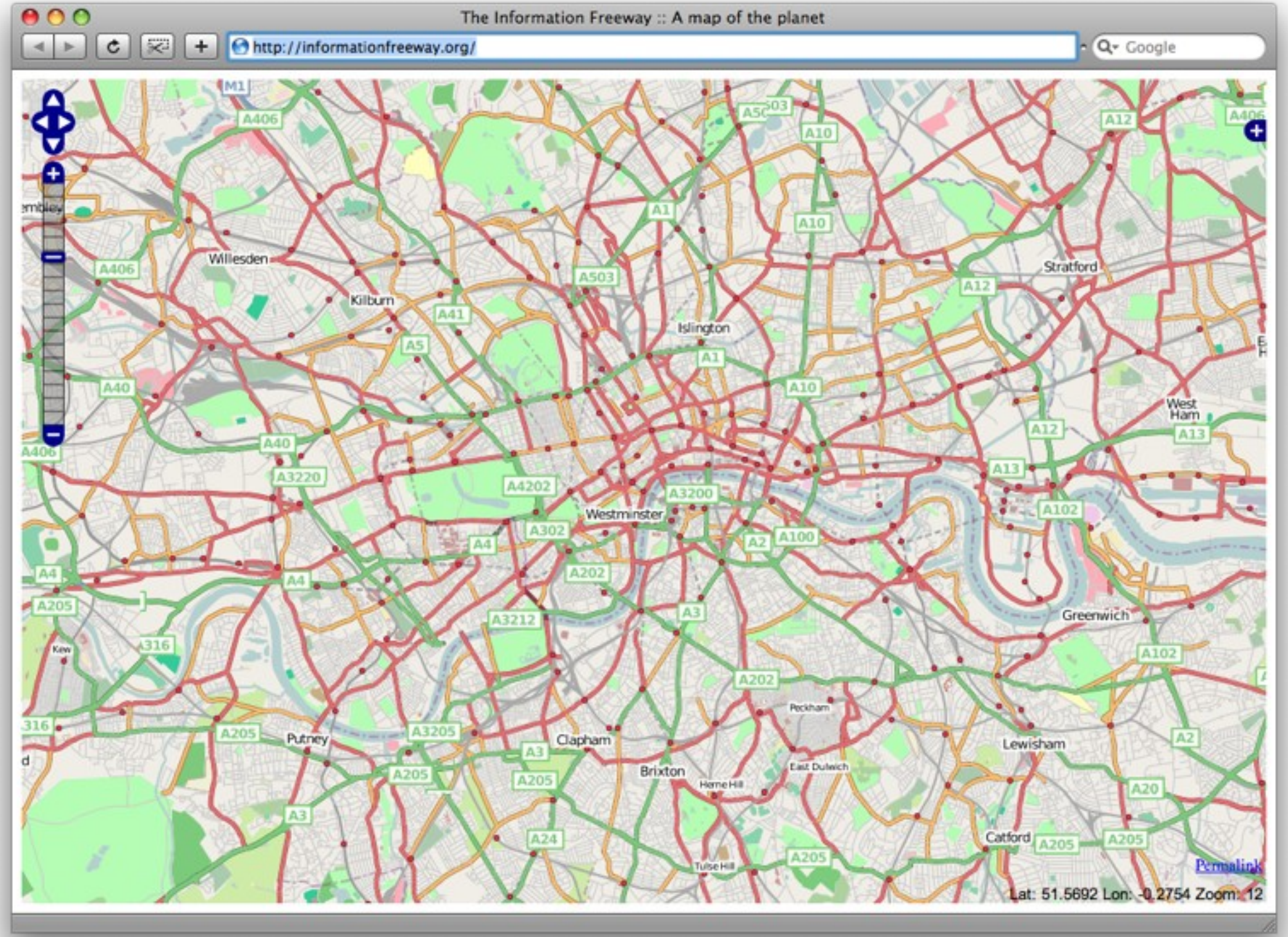
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Herne Hill
Tulse Hill
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Catford
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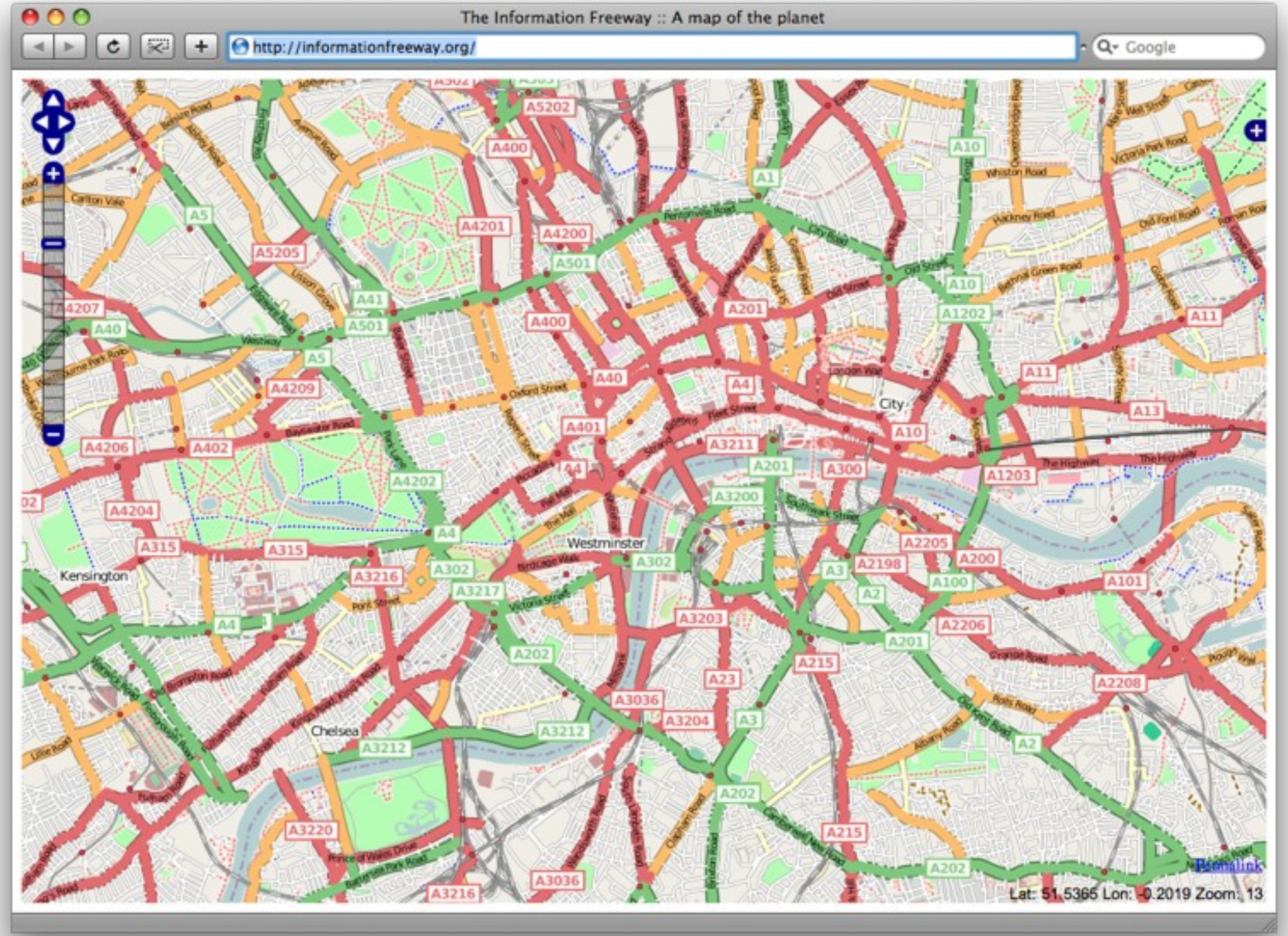
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Westminster
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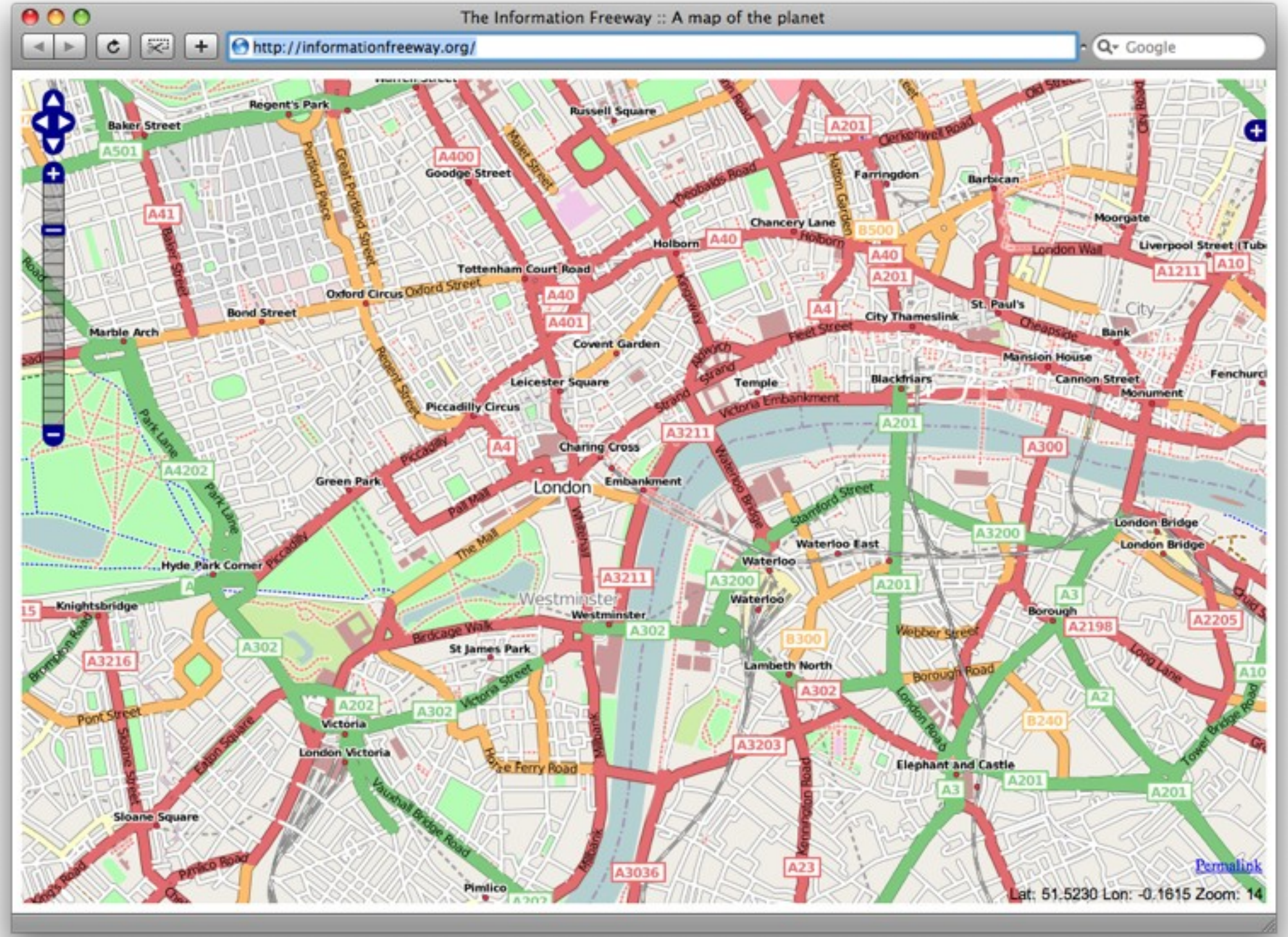
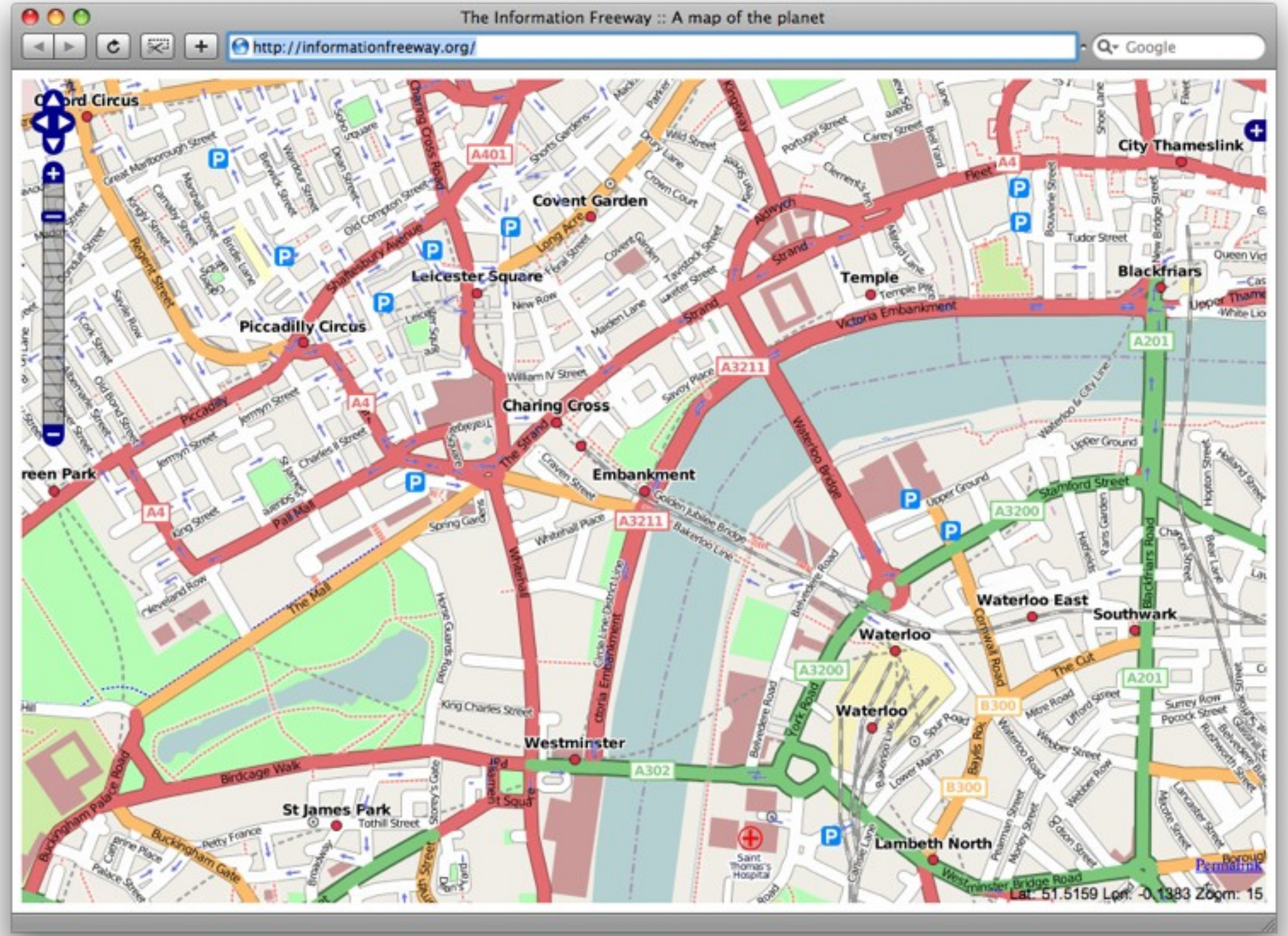
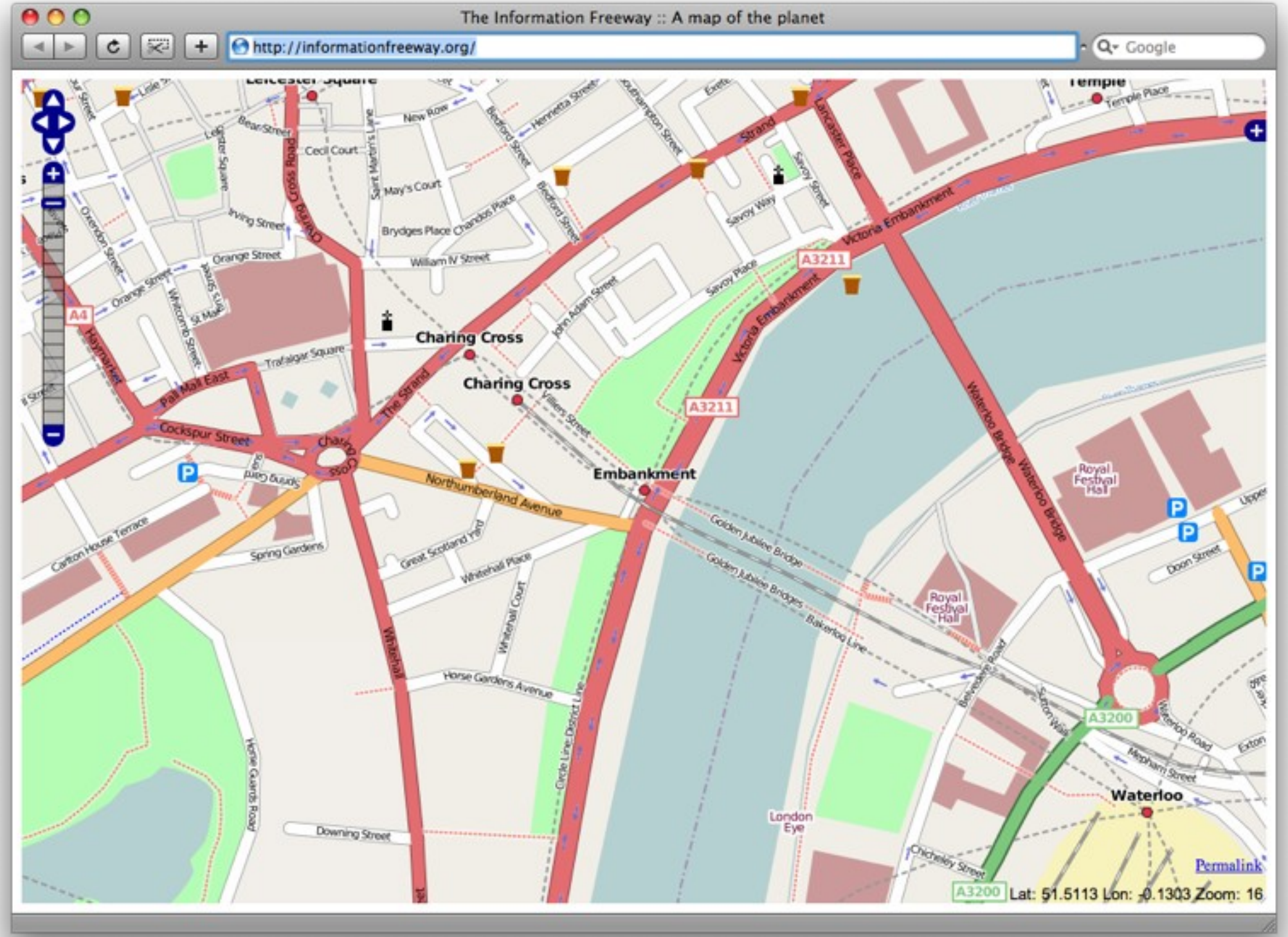
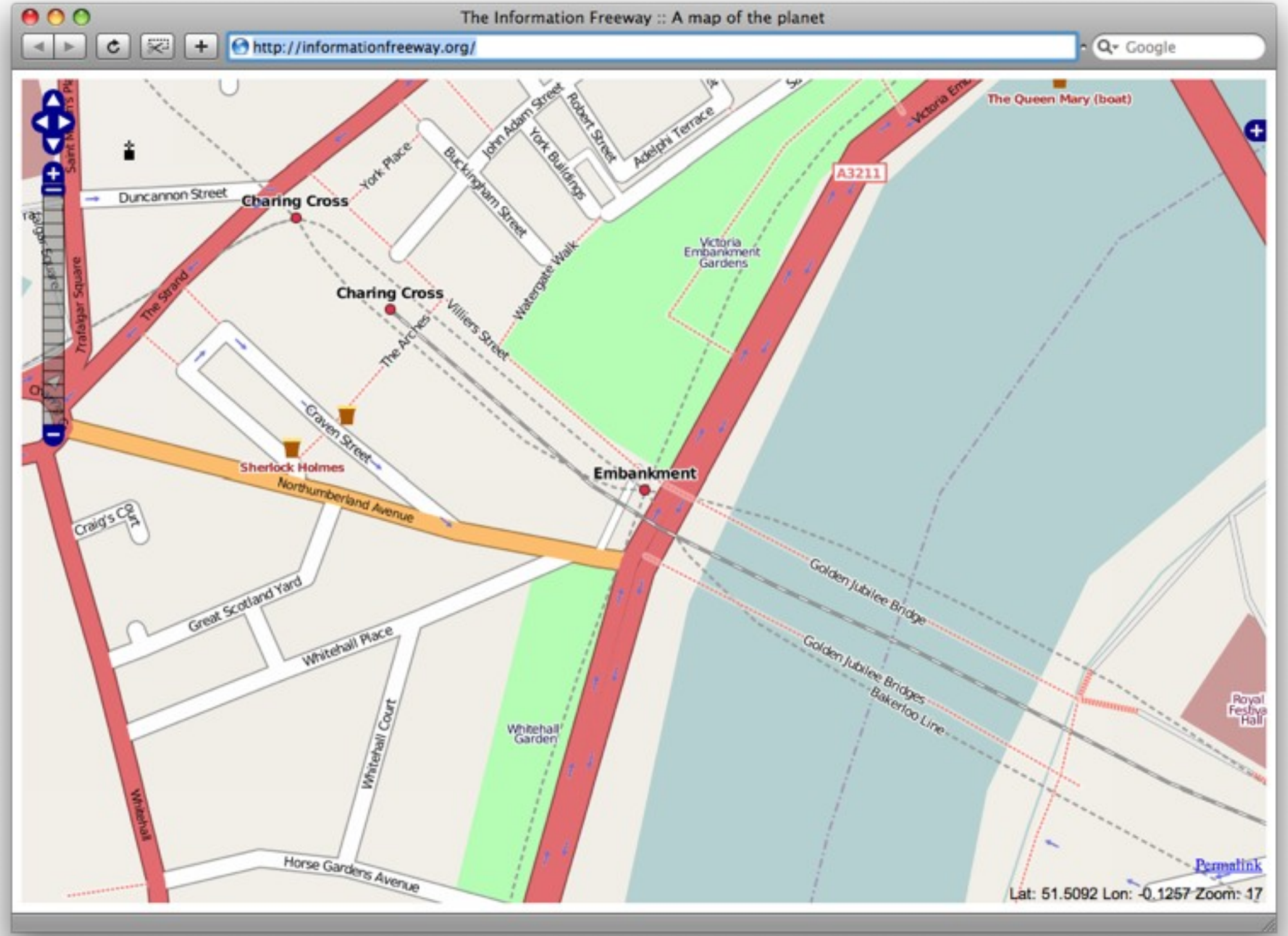
City
Lat: 51.5365 Lon: -0.2019 Zoom: 13

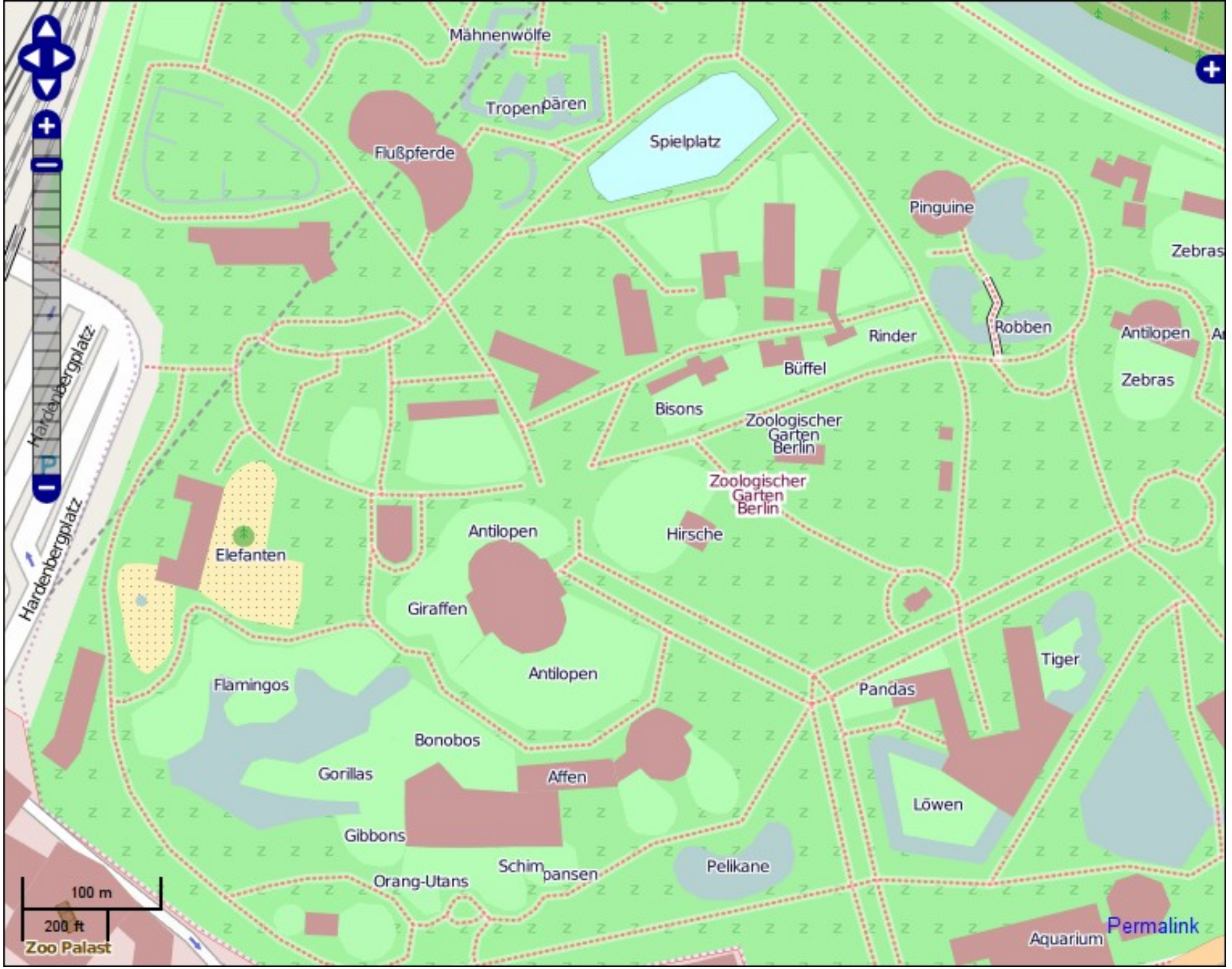

The Information Freeway :: A map of the planet
http://informationfreeway.org/
Google
Regent's Park
Baker Street
Russell Square
Goodge Street
Farringdon
Barbican
Moorgate
Chancery Lane
Holborn
Tottenham Court Road
Oxford Circus
Oxford Street
Bond Street
Marble Arch
Covent Garden
Leicester Square
Piccadilly Circus
Charing Cross
Embankment
Temple
Blackfriars
City Thameslink
St. Paul's
Bank
Mansion House
Cannon Street
Monument
Liverpool Street
London Wall
Fleet Street
Victoria Embankment
Green Park
London
Hyde Park Corner
Knightsbridge
Westminster
St James Park
Waterloo East
Waterloo
Lambeth North
Borough
London Bridge
Elephant and Castle
Victoria
London Victoria
Sloane Square
Pimlico
Permalink
Lat: 51.5230 Lon: -0.1615 Zoom: 14


The Information Freeway :: A map of the planet
http://informationfreeway.org/
Google
Oxford Circus
Covent Garden
Leicester Square
Piccadilly Circus
Charing Cross
Embankment
Temple
City Thameslink
Blackfriars
Waterloo East
Southwark
Waterloo
Westminster
St James Park
Lambeth North
A401
A4
A3211
A201
A3200
A302
B300
Lat: 51.5159 Lon: -0.1383 Zoom: 15


The Information Freeway :: A map of the planet
http://informationfreeway.org/
Google
Charing Cross
Charing Cross
Embankment
Waterloo
Victoria Embankment
Victoria Embankment
Waterloo Bridge
Waterloo Bridge
Lancaster Place
Strand
The Strand
Charing Cross Road
Cockspur Street
Pall Mall East
Haymarket
Northumberland Avenue
Whitehall
Whitehall Place
Whitehall Court
Great Scotland Yard
Horse Gardens Avenue
Horse Guards Road
Downing Street
Spring Gardens
Carlton House Terrace
Trafalgar Square
Orange Street
Irving Street
Bear Street
Cecil Court
New Row
May's Court
Brydges Place
Chandos Place
William IV Street
Savoy Place
Savoy Way
Savoy Street
John Adam Street
Villiers Street
Golden Jubilee Bridge
Golden Jubilee Bridges
Bakerloo Line
Circle Line District Line
Belvedere Road
Sutton Walk
Waterloo Road
Mepham Street
Chicheley Street
Doon Street
Royal Festival Hall
Royal Festival Hall
London Eye
Temple
Temple Place
Lancaster Square
Oxendon Street
Whitcomb Street
St Martin's Lane
Saint Martin's Lane
Bedford Street
Hennetta Street
Southampton Street
Exeter
A4
A3211
A3211
A3200
A3200
Permalink
Lat: 51.5113 Lon: -0.1303 Zoom: 16


The Information Freeway :: A map of the planet
http://informationfreeway.org/
Google
Duncannon Street
Charing Cross
York Place
Buckingham Street
John Adam Street
Robert Street
Adelphi Terrace
York Buildings
Victoria Embankment Gardens
Watergate Walk
The Queen Mary (boat)
A3211
Victoria Em
Trafalgar Square
The Strand
Charing Cross
The Arches
Villiers Street
Craven Street
Sherlock Holmes
Northumberland Avenue
Embankment
Craig's Court
Great Scotland Yard
Whitehall Place
Whitehall Court
Whitehall
Whitehall Garden
Horse Guards Avenue
Golden Jubilee Bridge
Golden Jubilee Bridges
Bakerloo Line
Royal Festiva Hall
Permalink
Lat: 51.5092 Lon: -0.1257 Zoom: 17

http://openstreetmap.org/?lat=52.511&lon=13.399&zoom=11&layers=B000FTF



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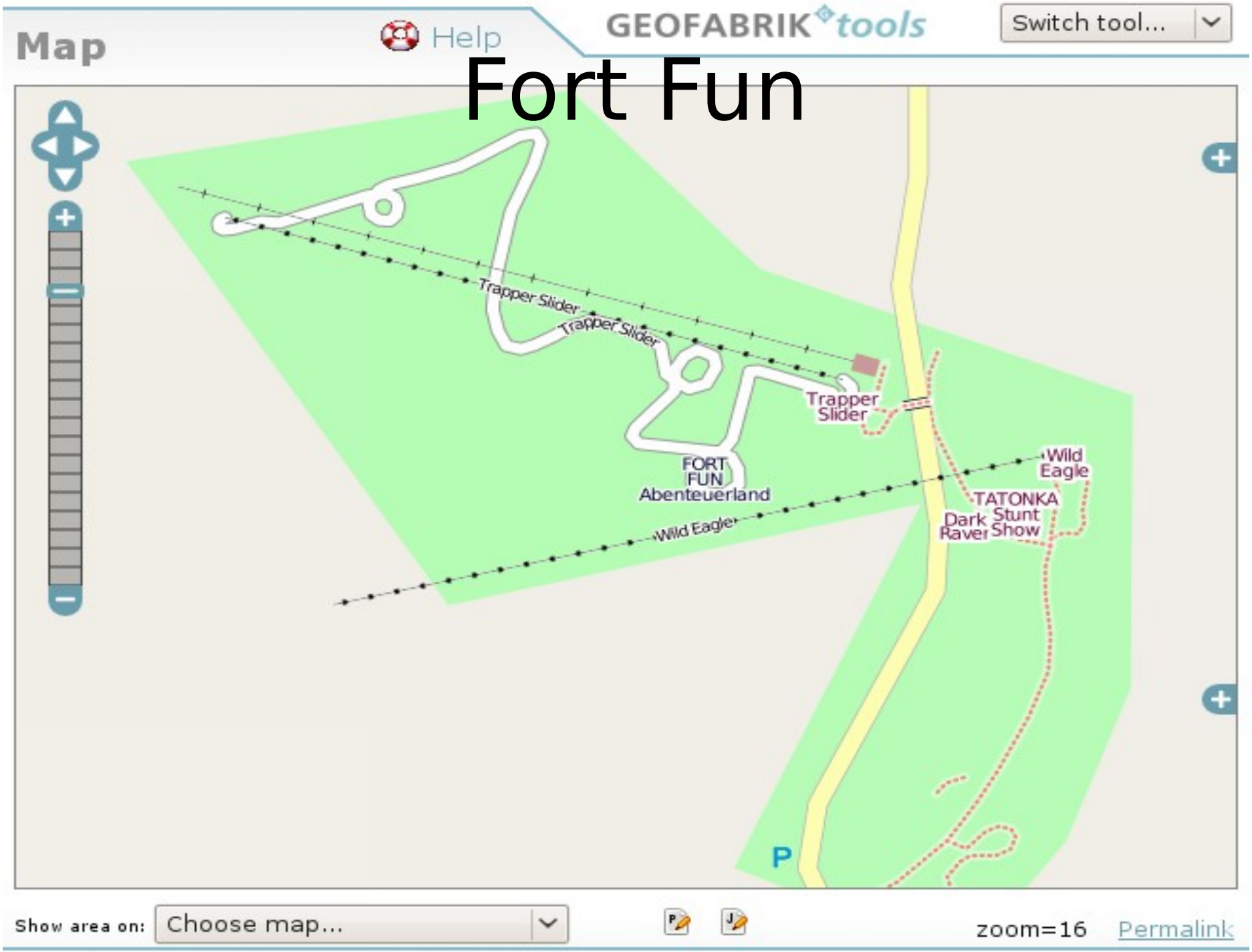
Fort Fun



http://tools.geofabrik.de/map/?type=Mapnik&lon=8.43681&lat=51.31206&zoom=16

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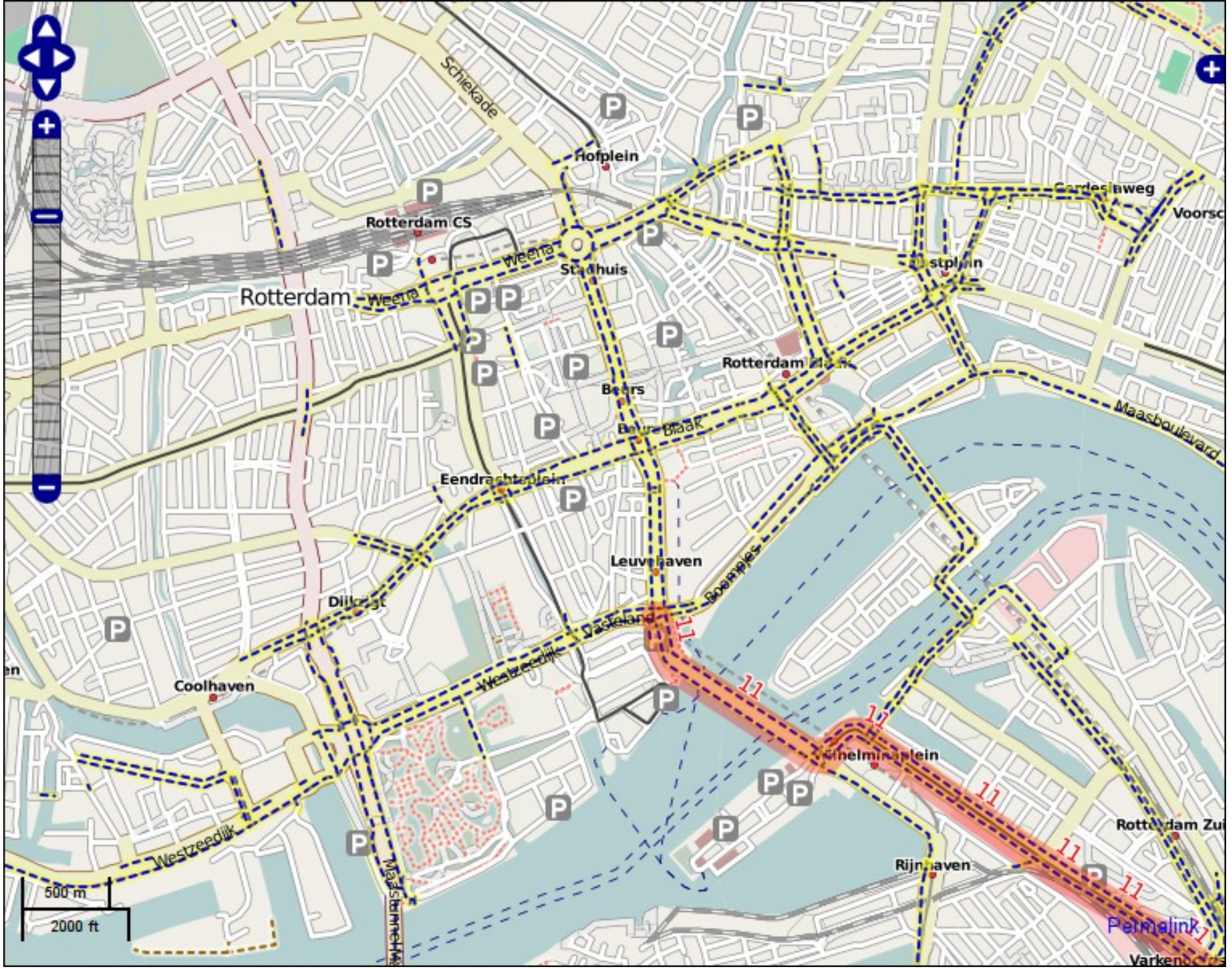

http://openstreetmap.org/?lat=52.50826&lon=13.33935&zoom=17&layers=B000FTF

http://wiki.openstreetmap.org/wiki/Image:Osm_putney_cycle.jpg

Fedora and gpsDrive

http://wiki.openstreetmap.org/wiki/Image:Car-Monitor-CID650.jpg

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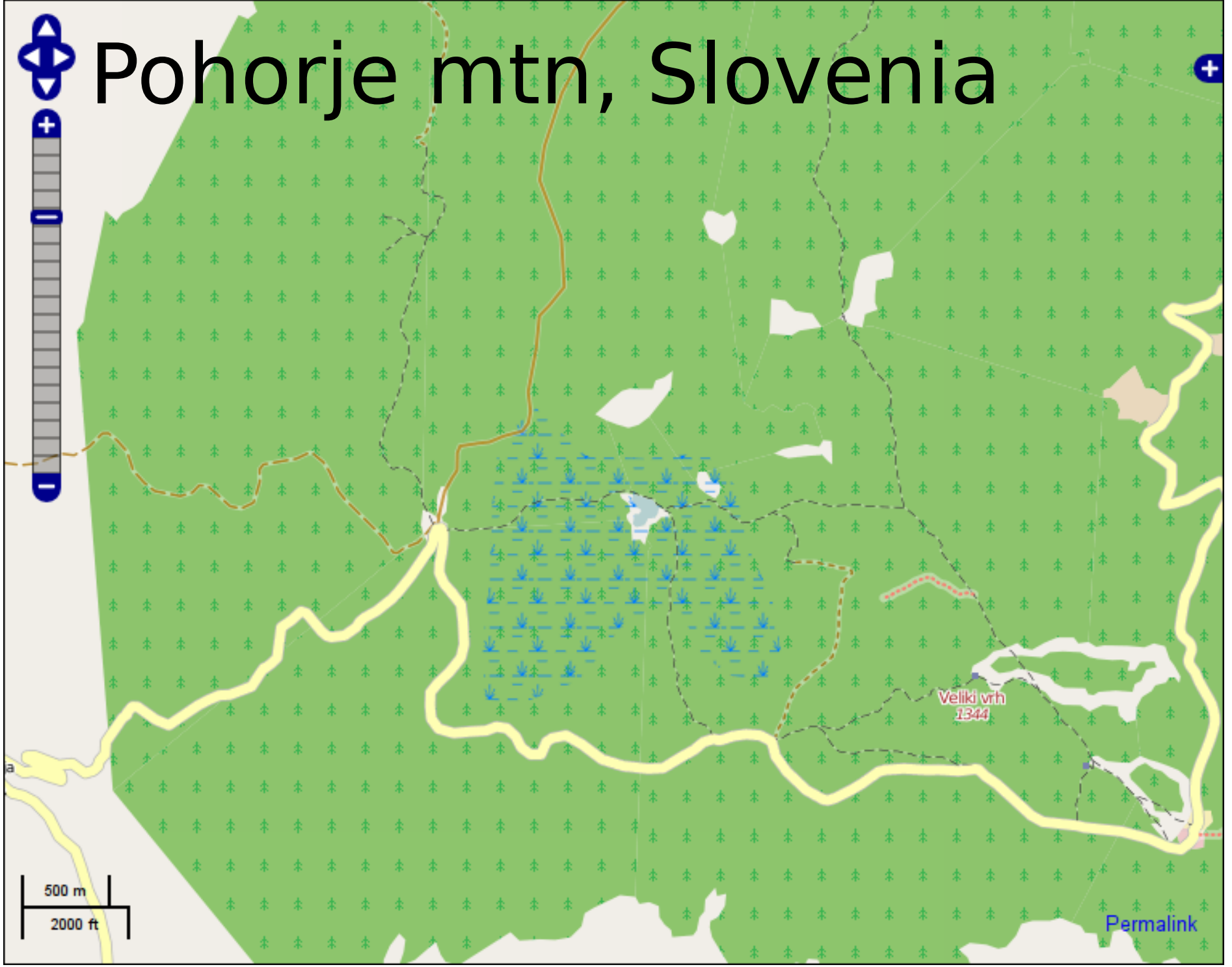

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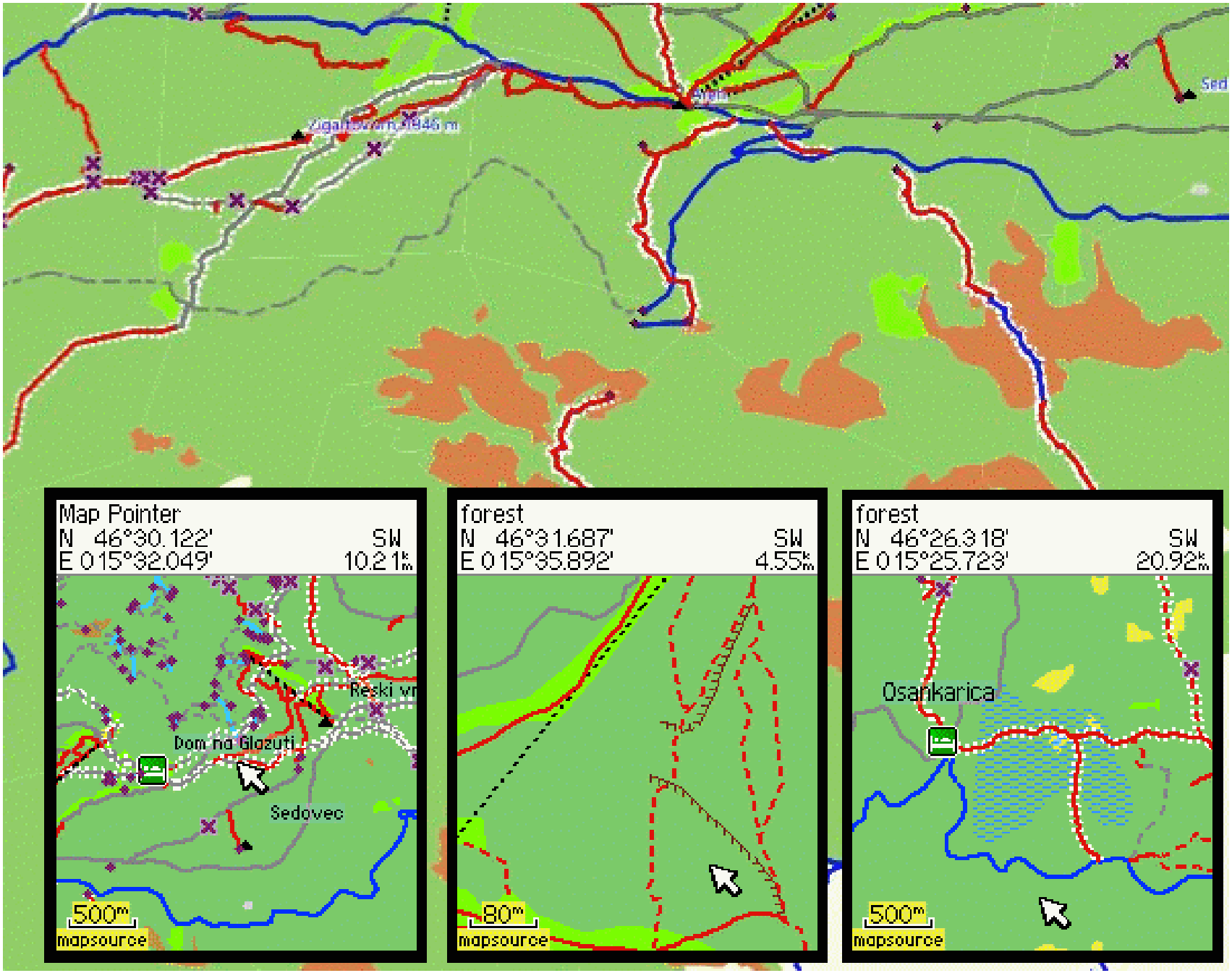
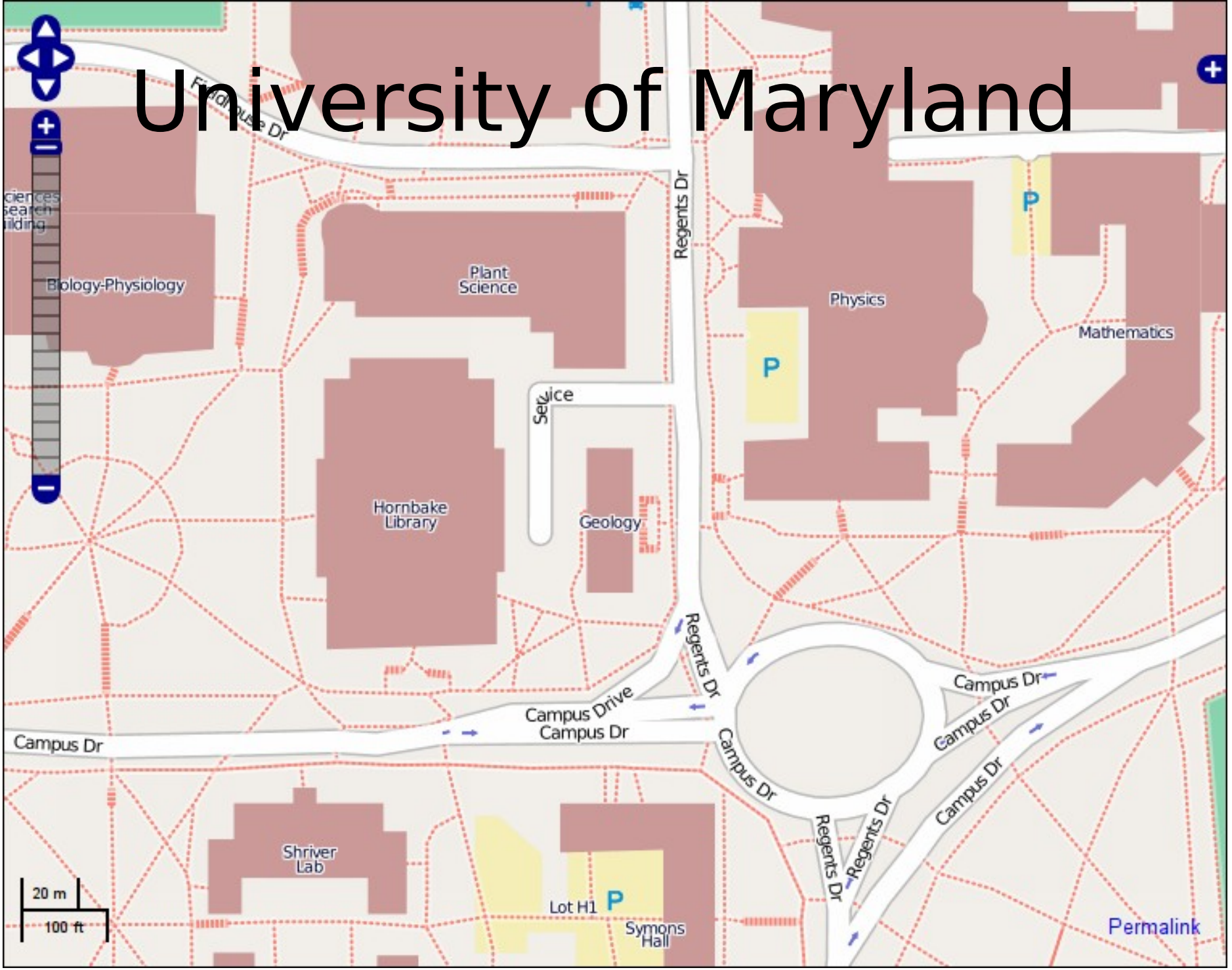


http://wiki.openstreetmap.org/images/d/de/GroundTruth_Collage.png

University of Maryland



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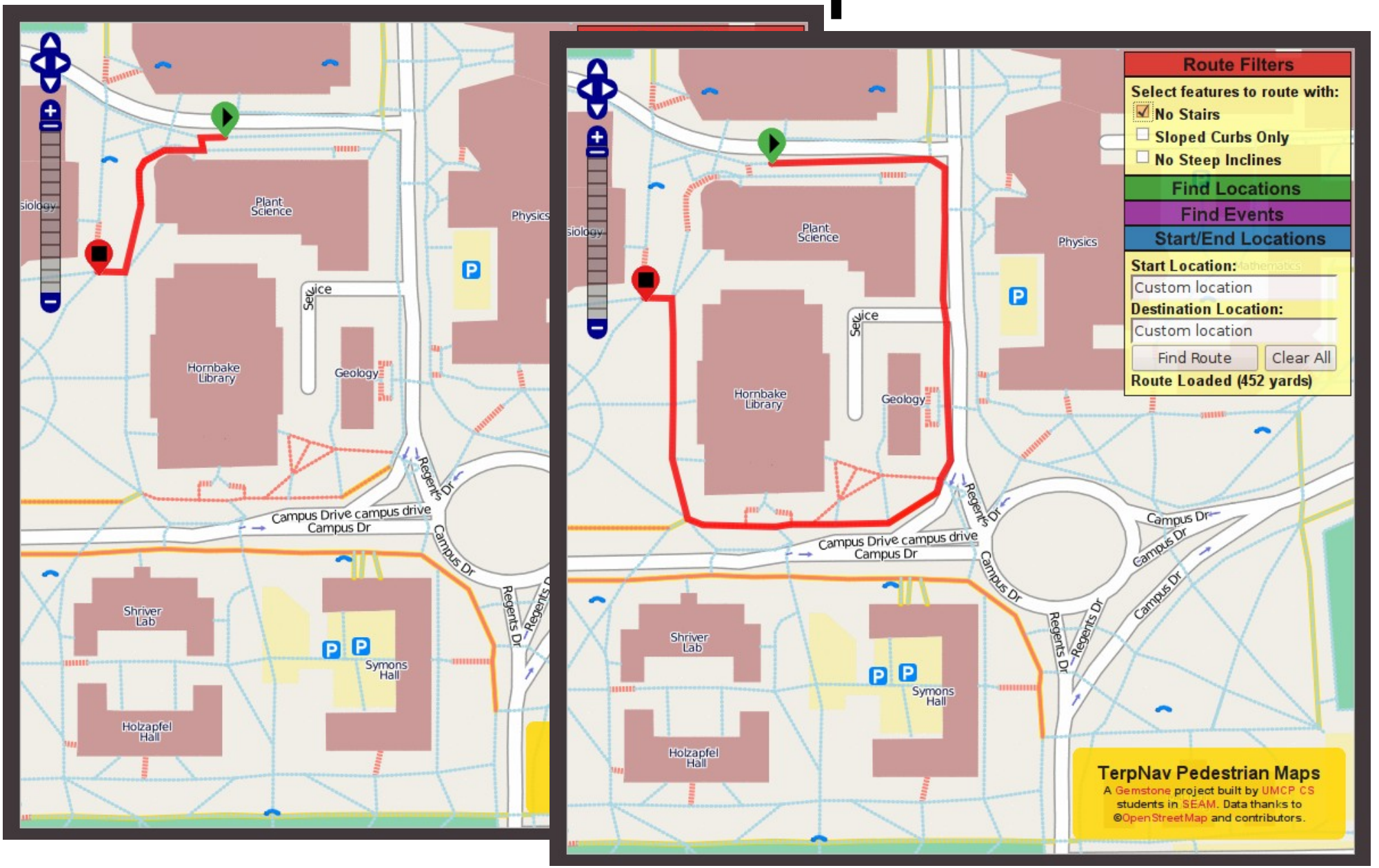
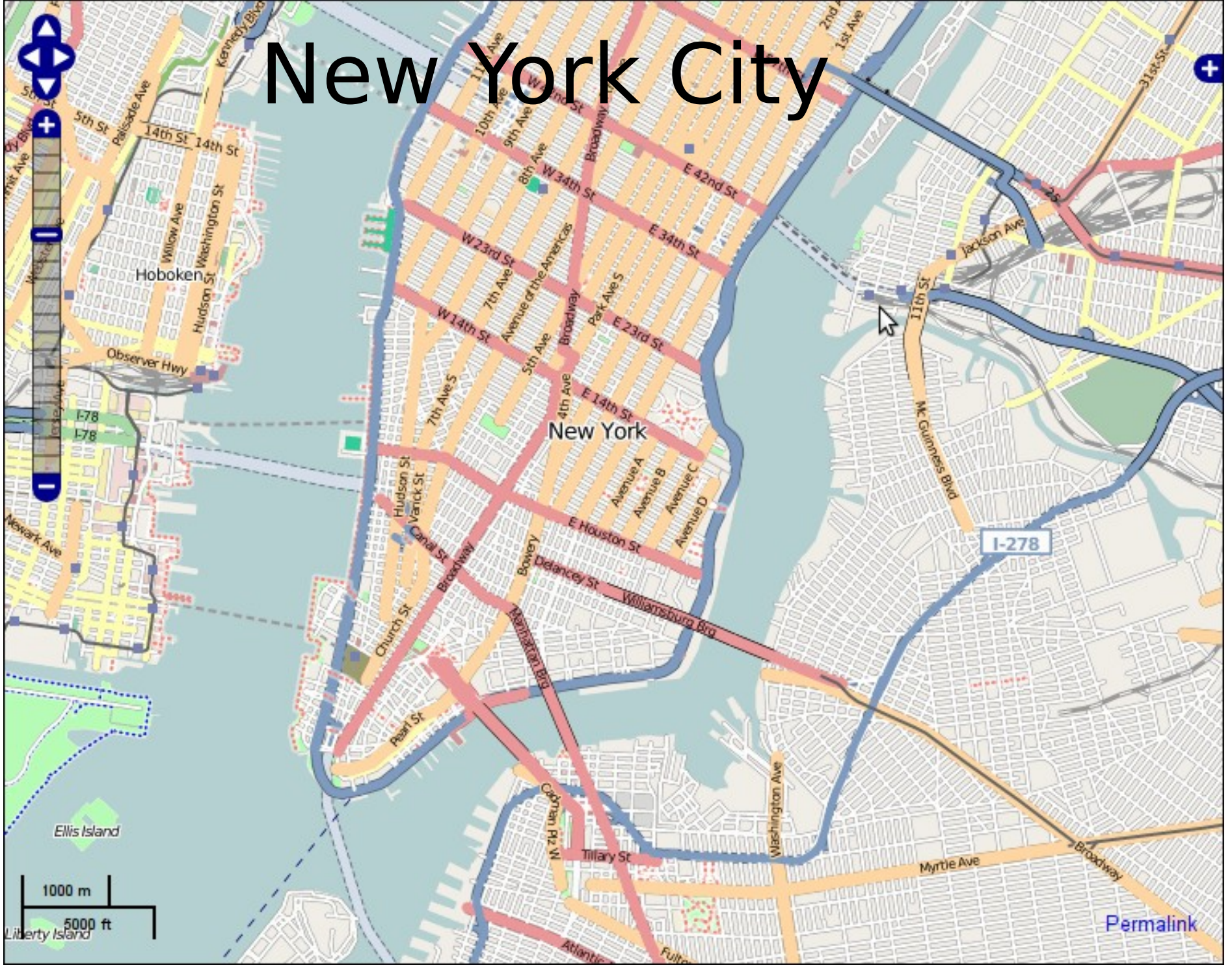
UMD - TerpNav



http://seamster.cs.umd.edu:8090/map/index.html#



http://openstreetmap.org/?lat=40.7264&lon=-73.9849&zoom=13&layers=B000FTF

San Francisco

http://openstreetmap.org/?lat=37.7703&lon=-122.4241&zoom=12&layers=B000FTF

Cyprus

http://openstreetmap.org/?lat=35.152&lon=33.411&zoom=10&layers=B000FTF

Baghdad, Iraq

http://openstreetmap.org/?lat=33.2674&lon=44.4109&zoom=13&layers=B000FTF

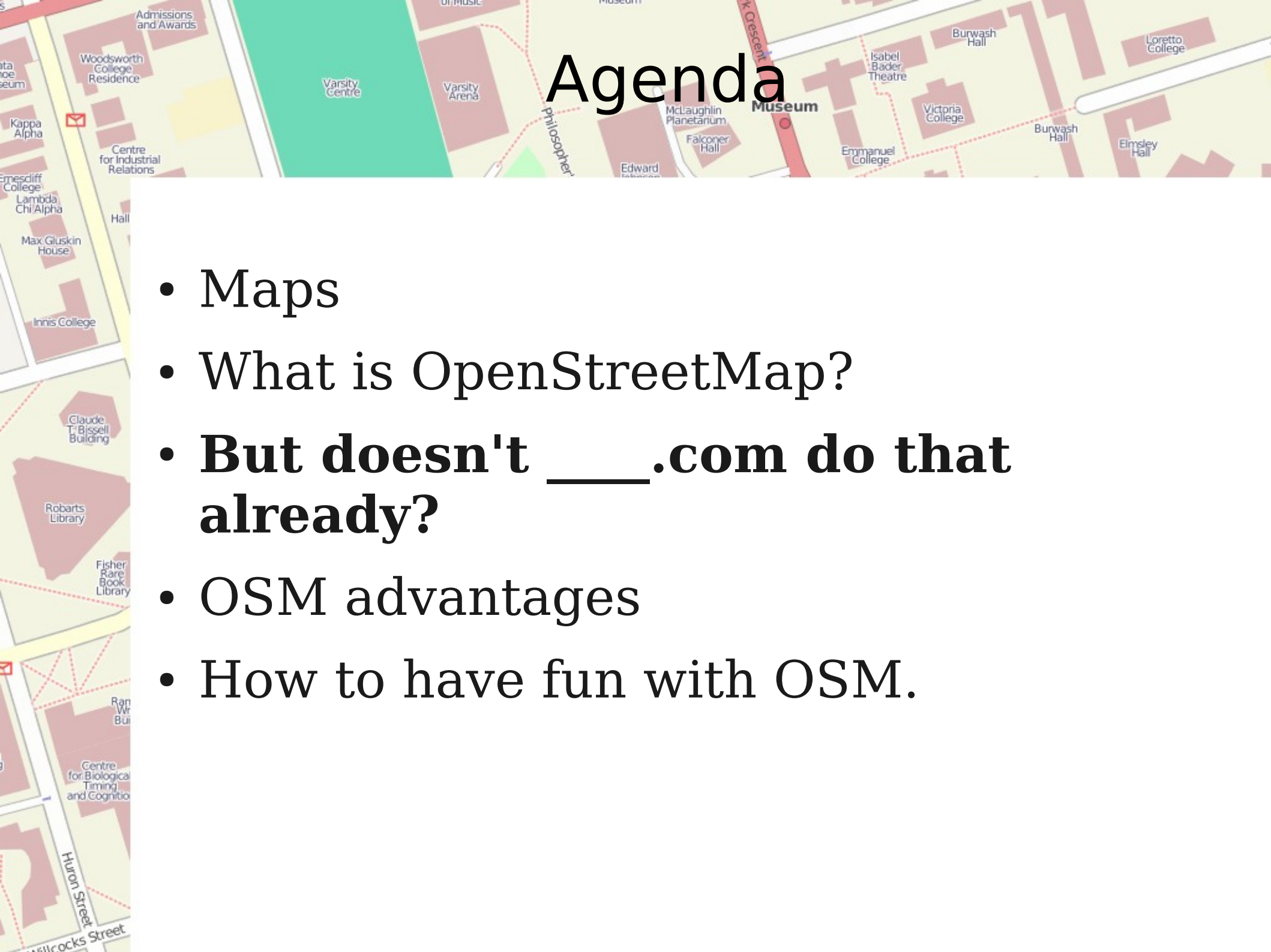
Kinshasa, DRC

http://openstreetmap.org/?lat=-4.3346&lon=15.3105&zoom=13&layers=B000FTF

Gaza City

http://openstreetmap.org/?lat=31.5161&lon=34.4737&zoom=13&layers=B000FTF

And even more...



Agenda

- Maps
- What is OpenStreetMap?
- **But doesn't ____.com do that already?**
- OSM advantages
- How to have fun with OSM.

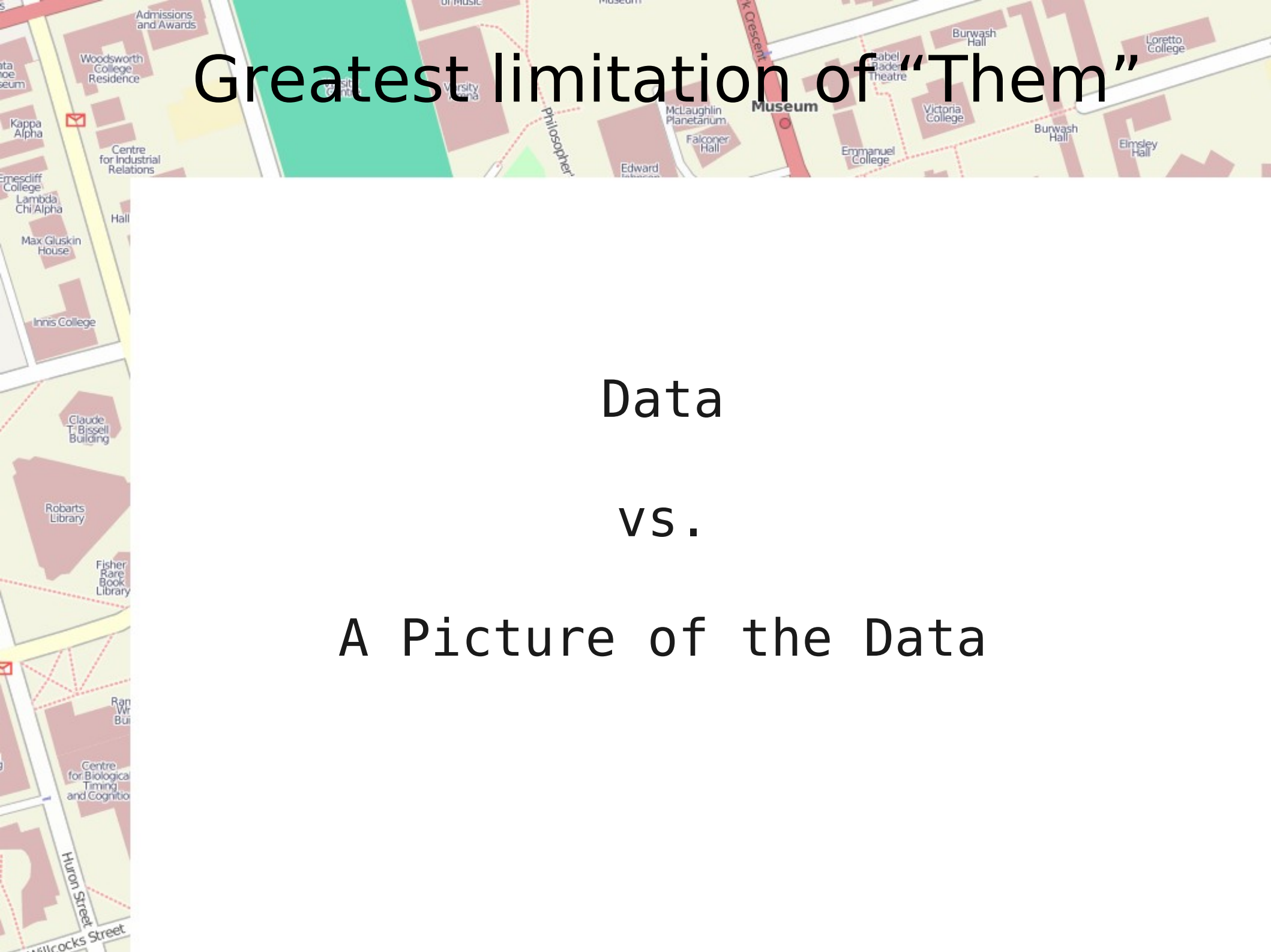
Commercial online maps

Google maps
Yahoo maps
Mapquest
Mapblast

They are all good, but they have limitations.

Photo Copyright R.Weait

Greatest limitation of “Them”



Data

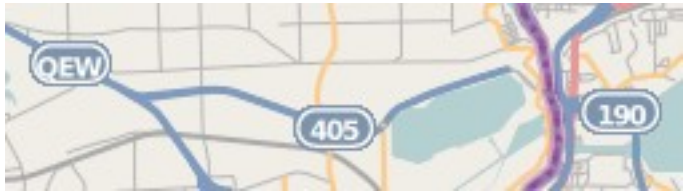
vs.

A Picture of the Data

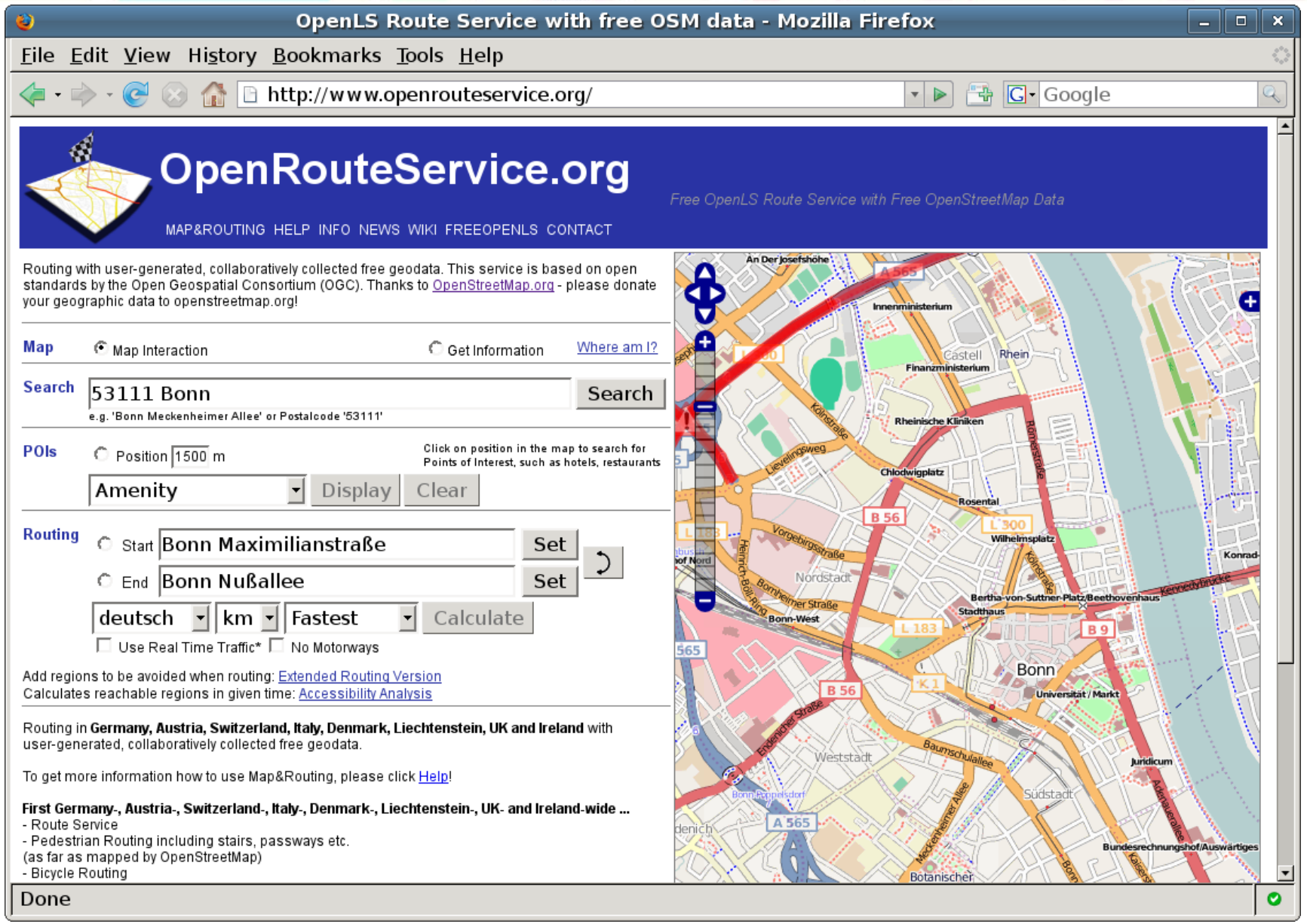
Pubs with free WiFi

http://www.flickr.com/photos/gravitystorm/2772146828/in/photostream/

Highway shields

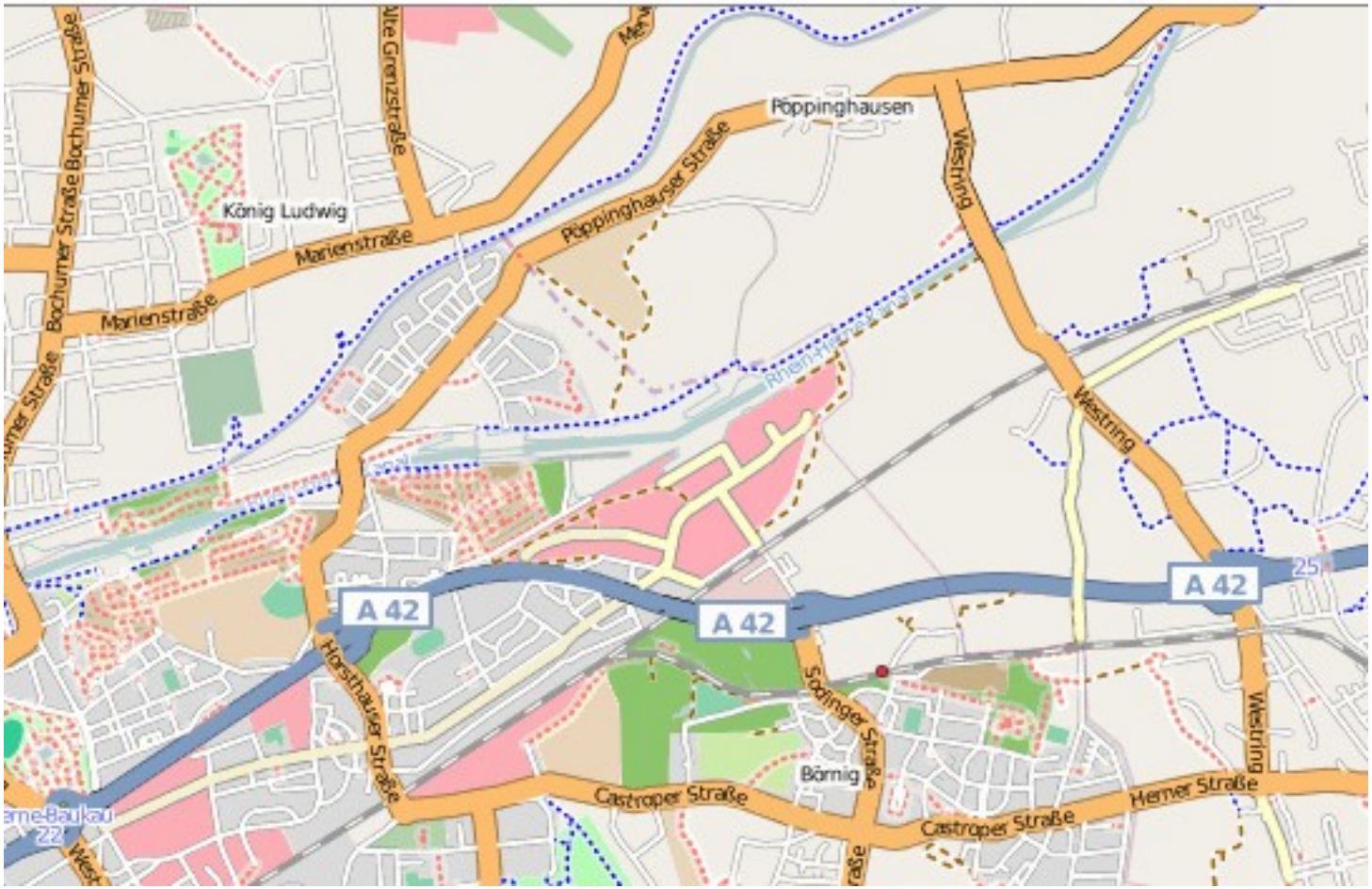


OpenRouteService.org

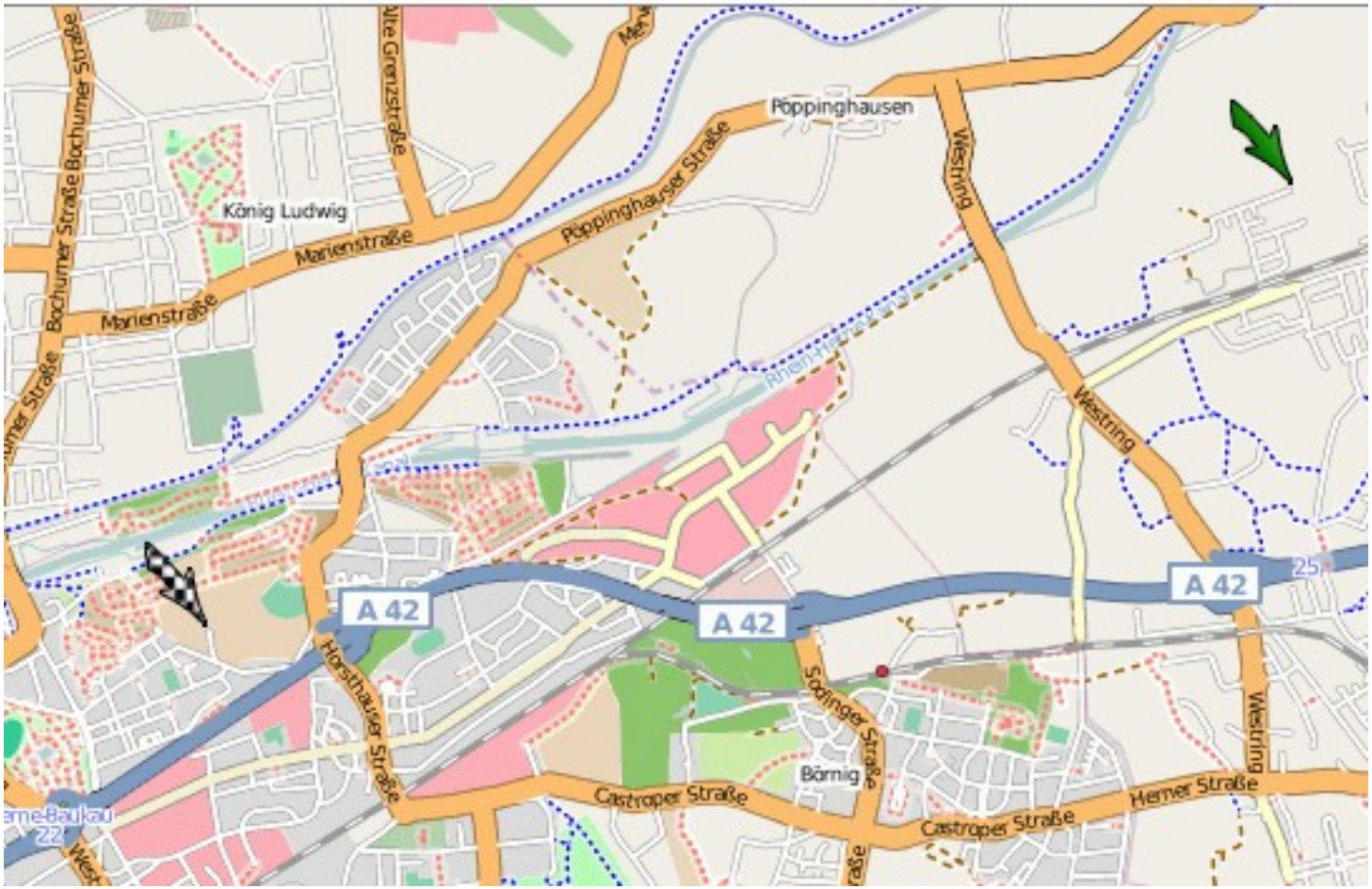


University of Bonn, Germany

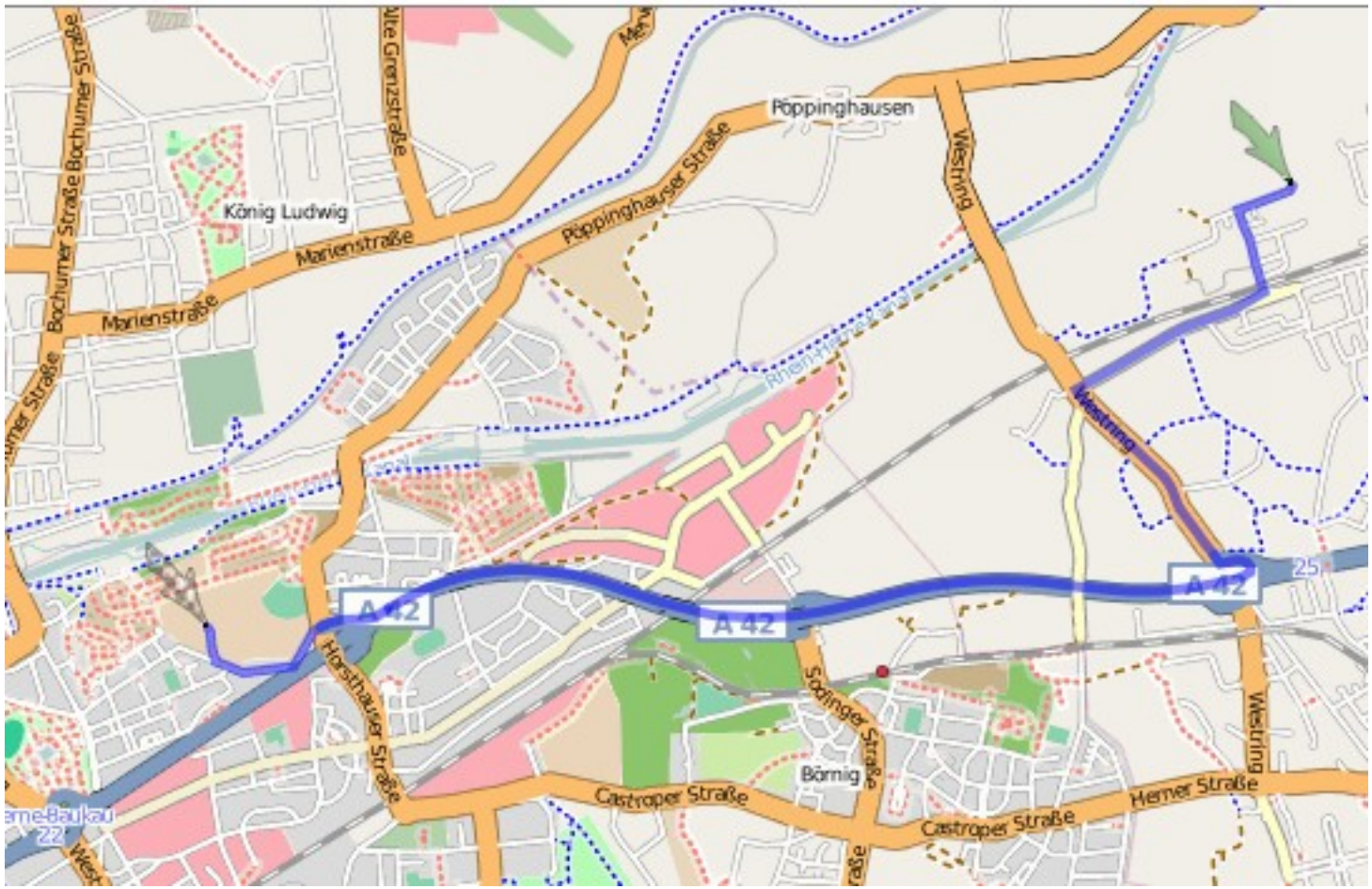
OSM map tiles and data



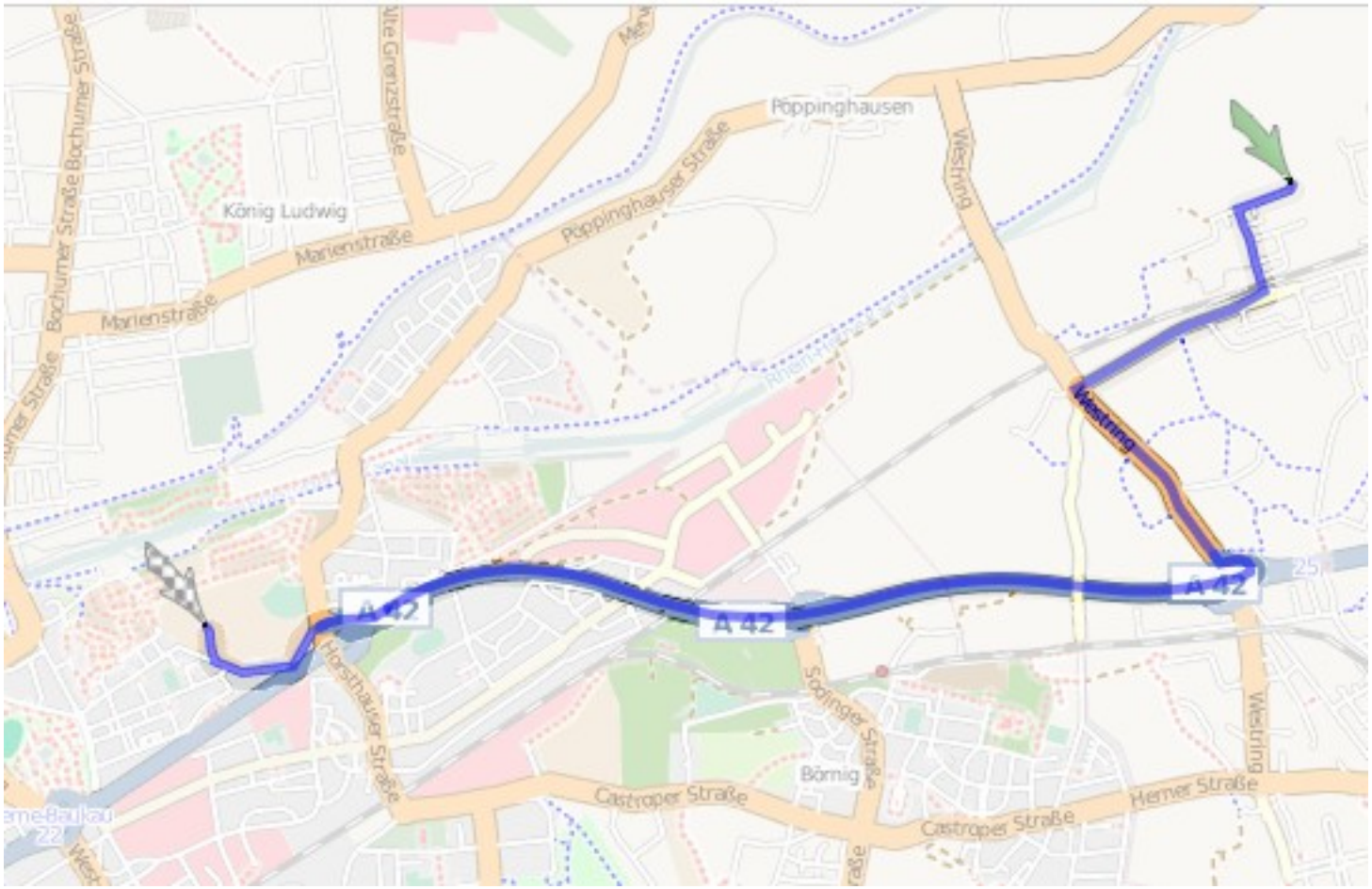
Select start and finish



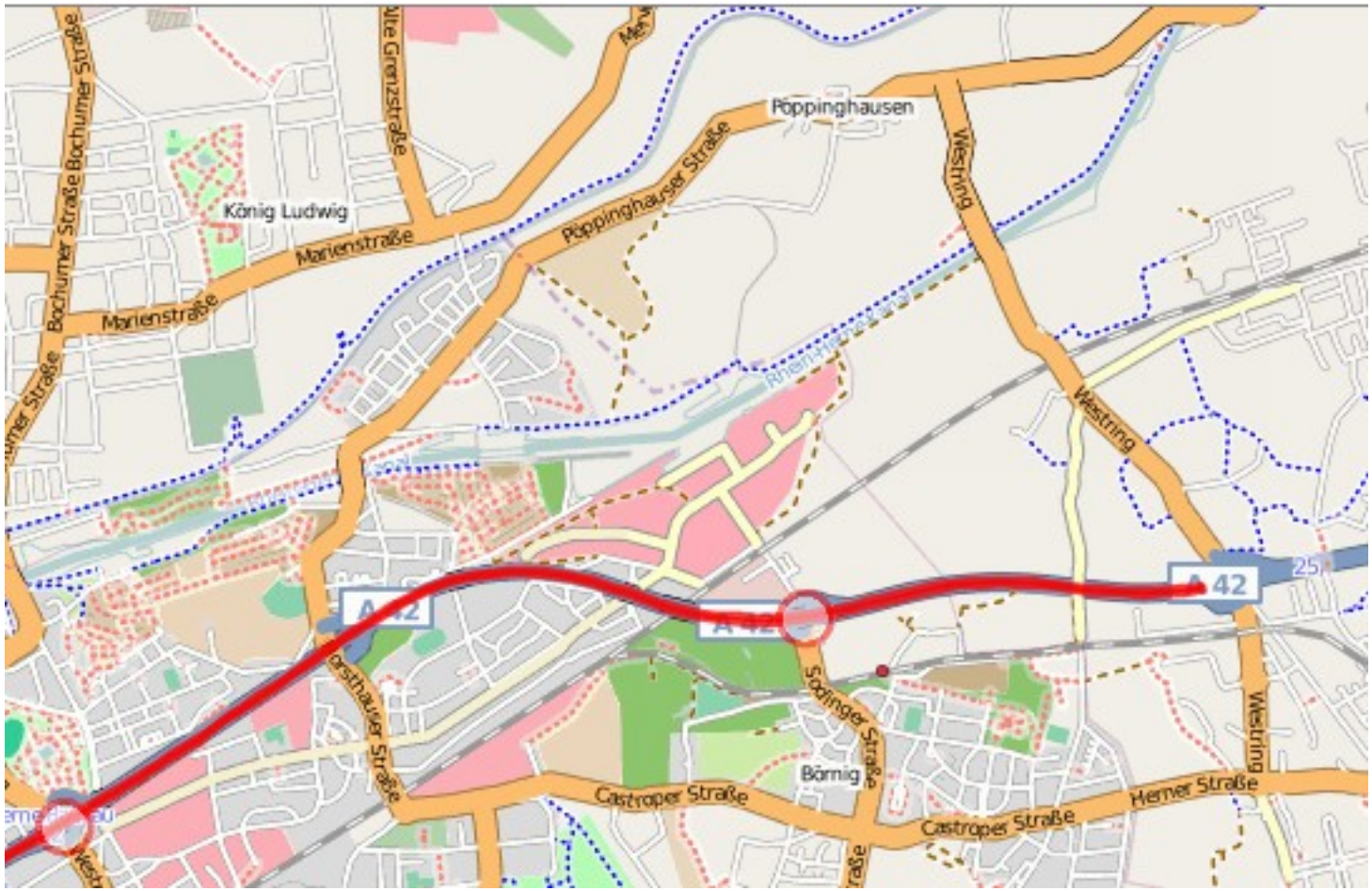
ORS finds a route



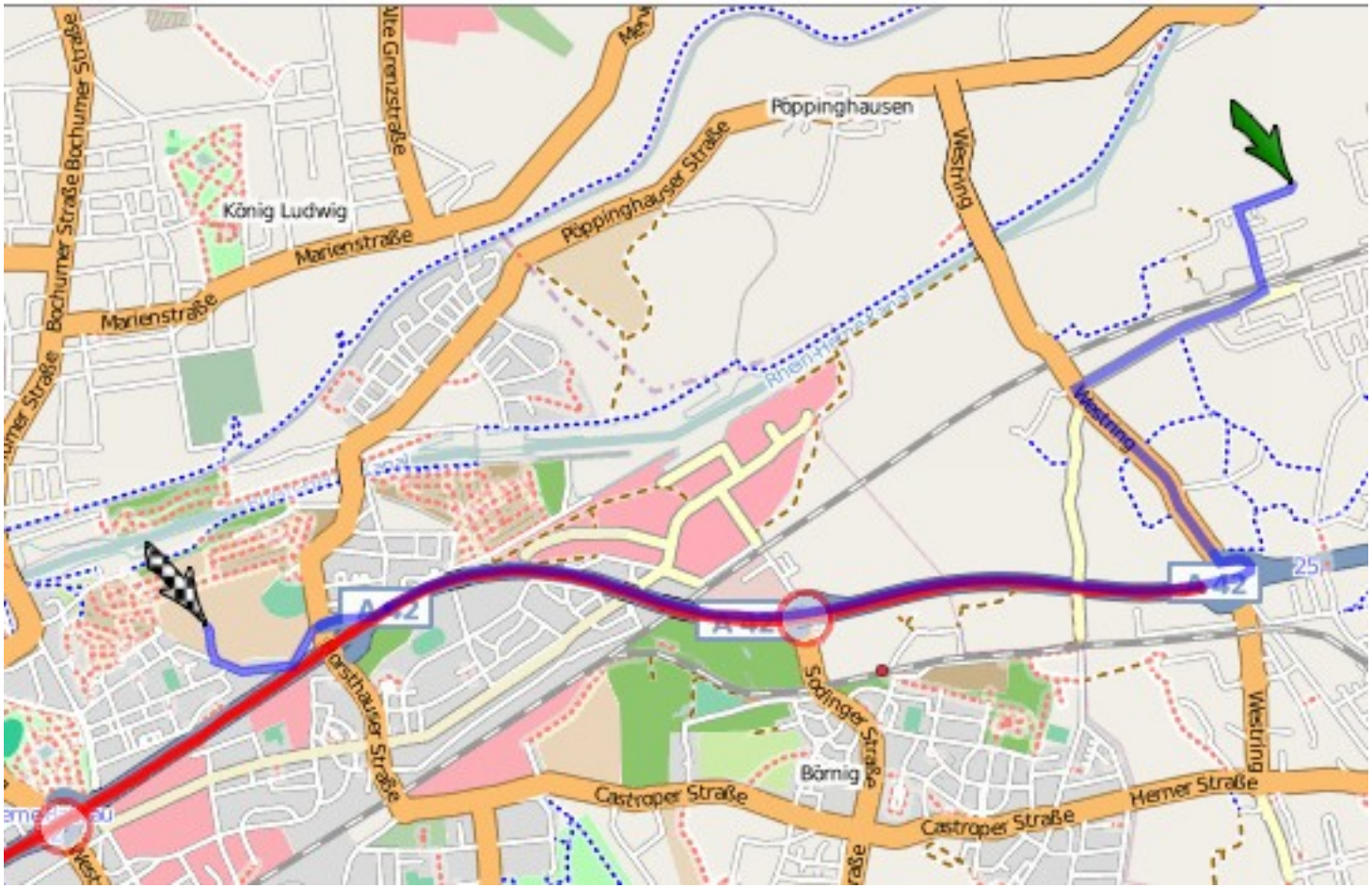
Emphasized route



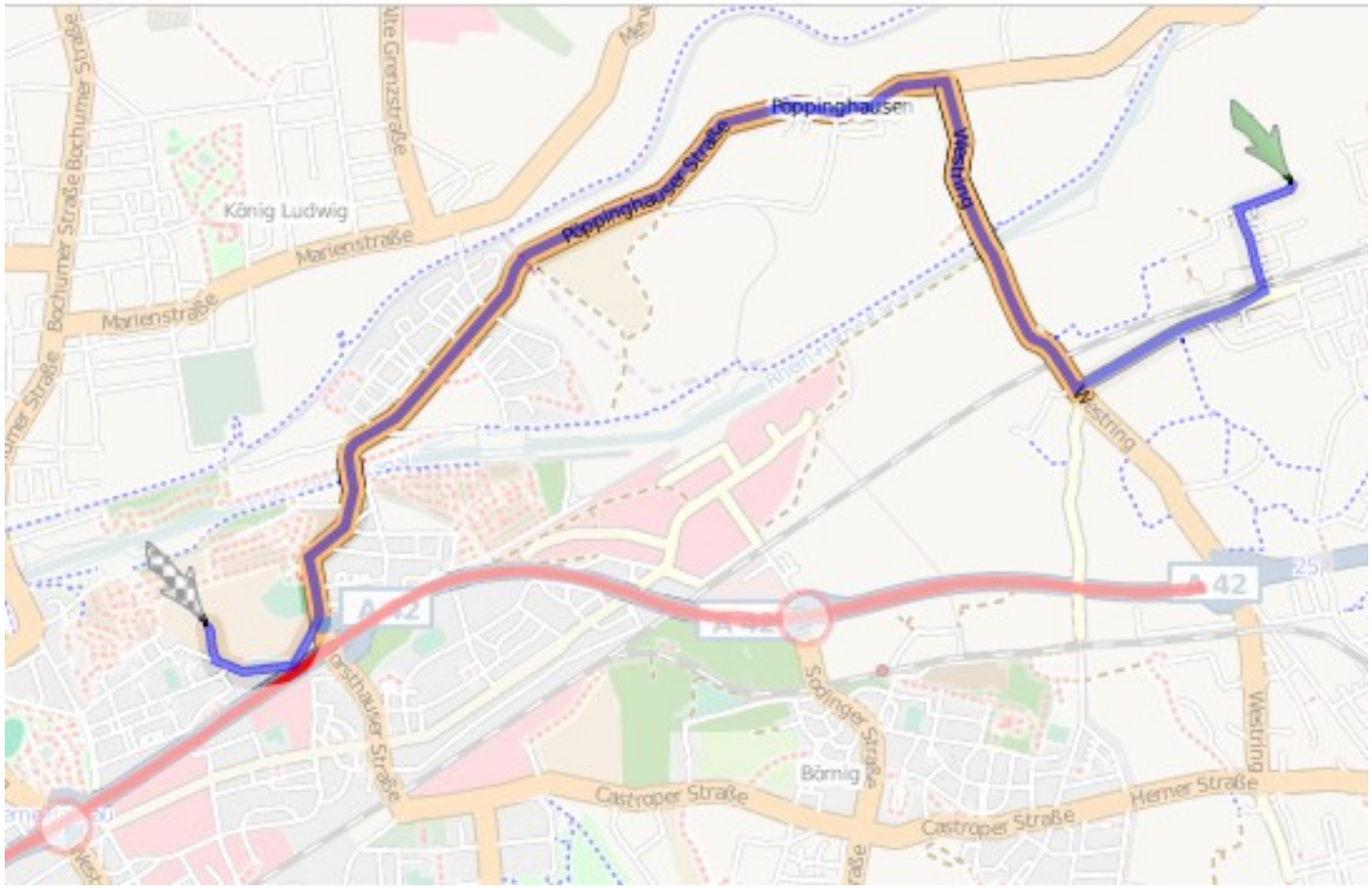
Construction and traffic data



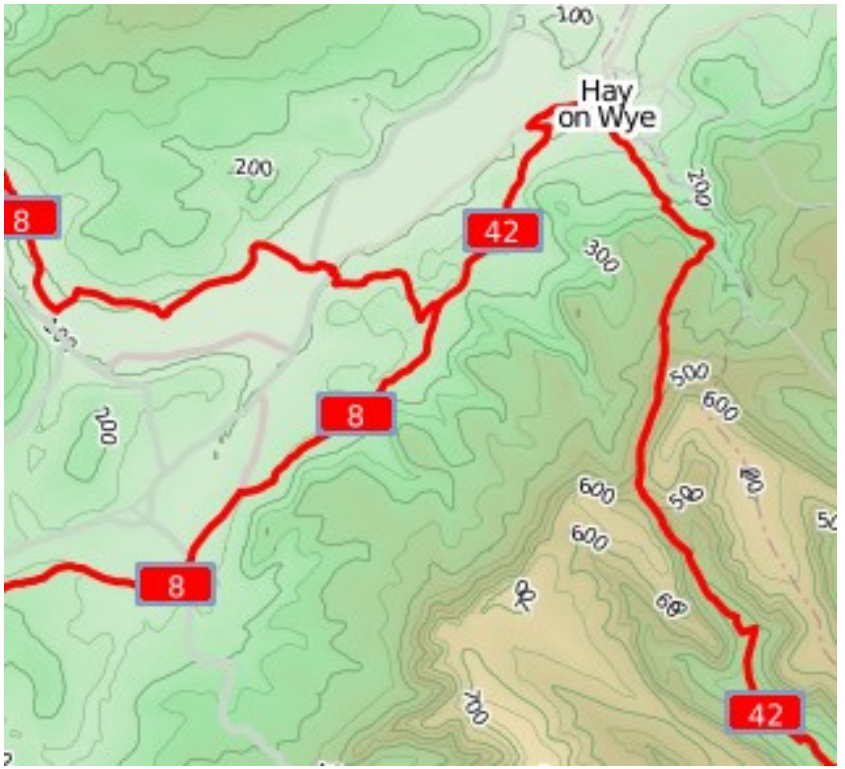
Route looks sub-optimal



Re-routing around construction



Cycle map

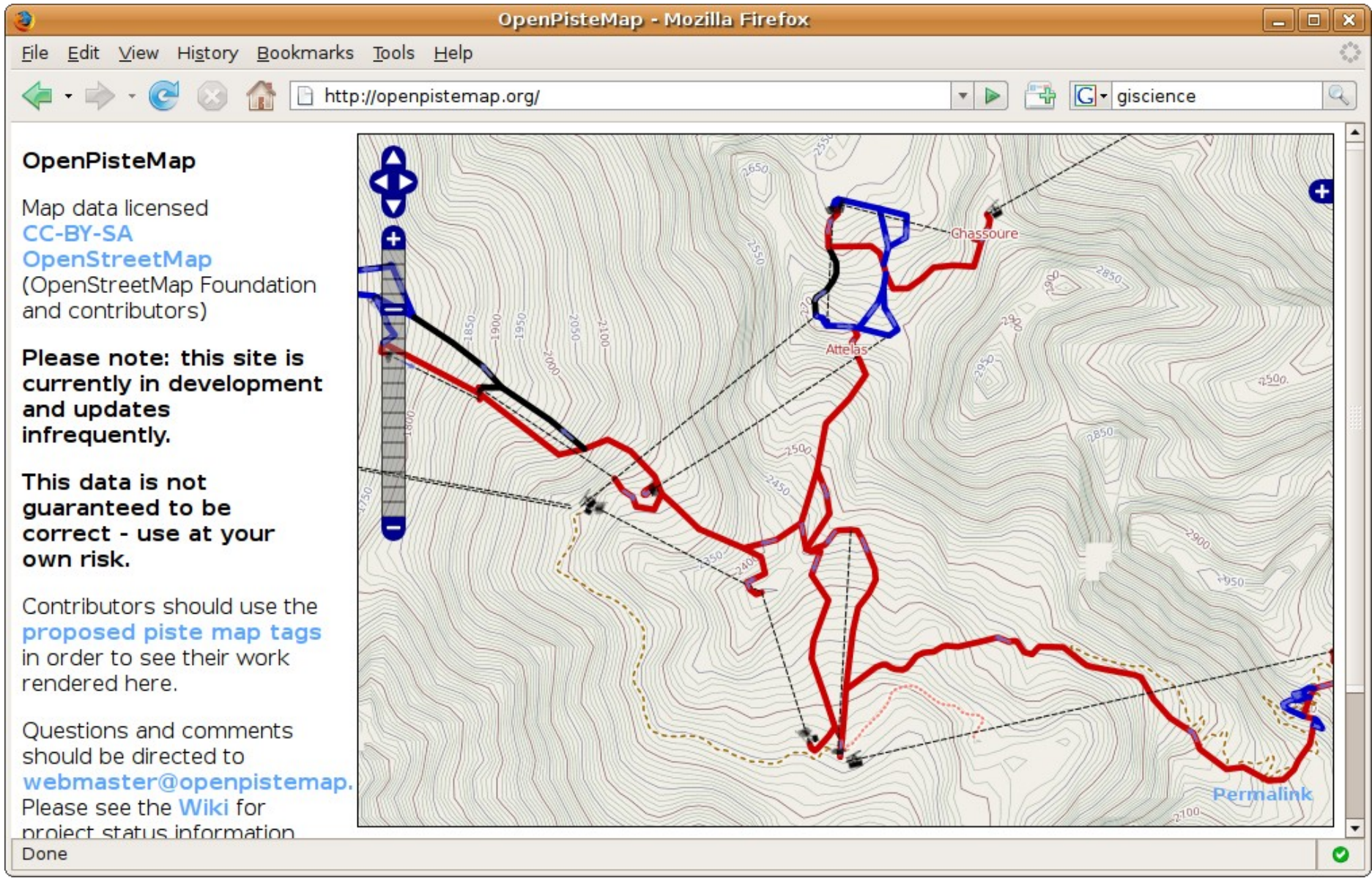


Commendation Award 2008

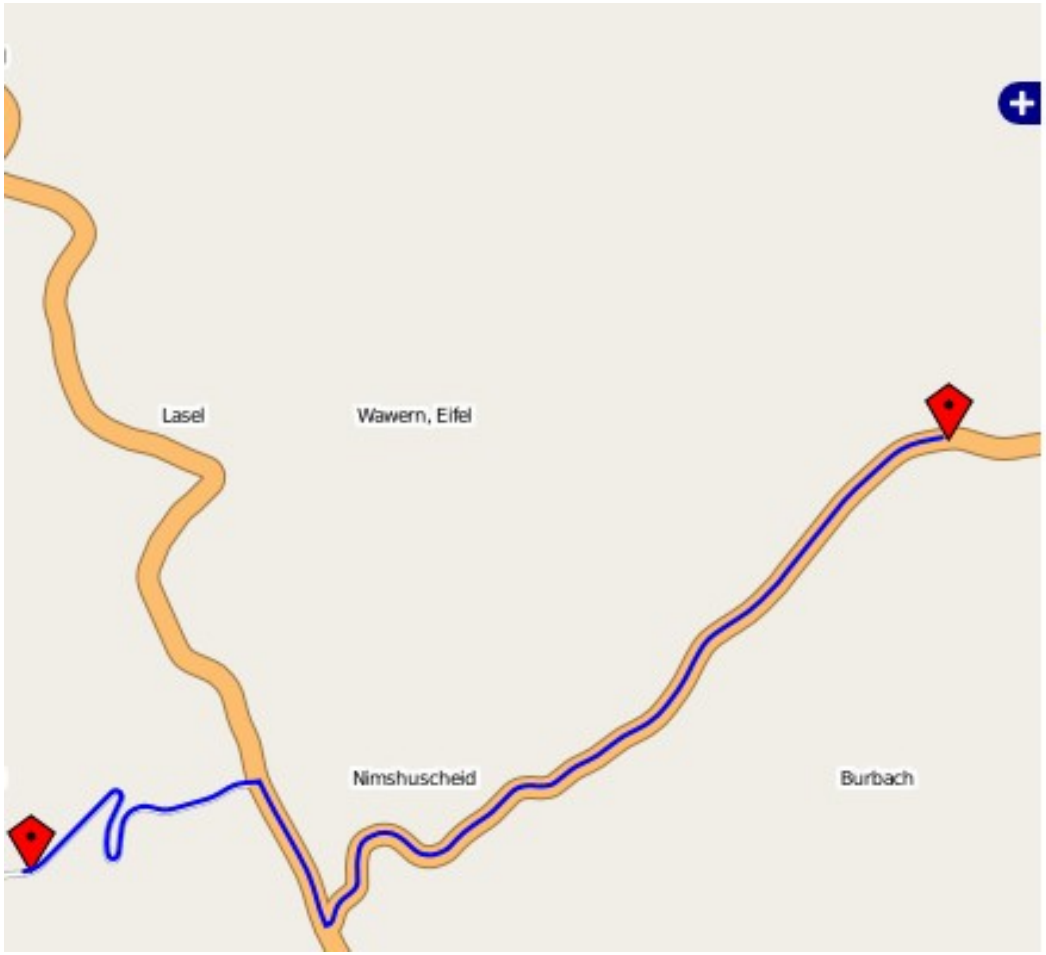
http://opencyclemap.org/

The British Cartographic Society ™

OpenPisteMap.org



Route elevation profiles



Routes:
1 (should be 1)

This route:
Points: 136
Length: 7.2 km
Permalink

Altitude profile:

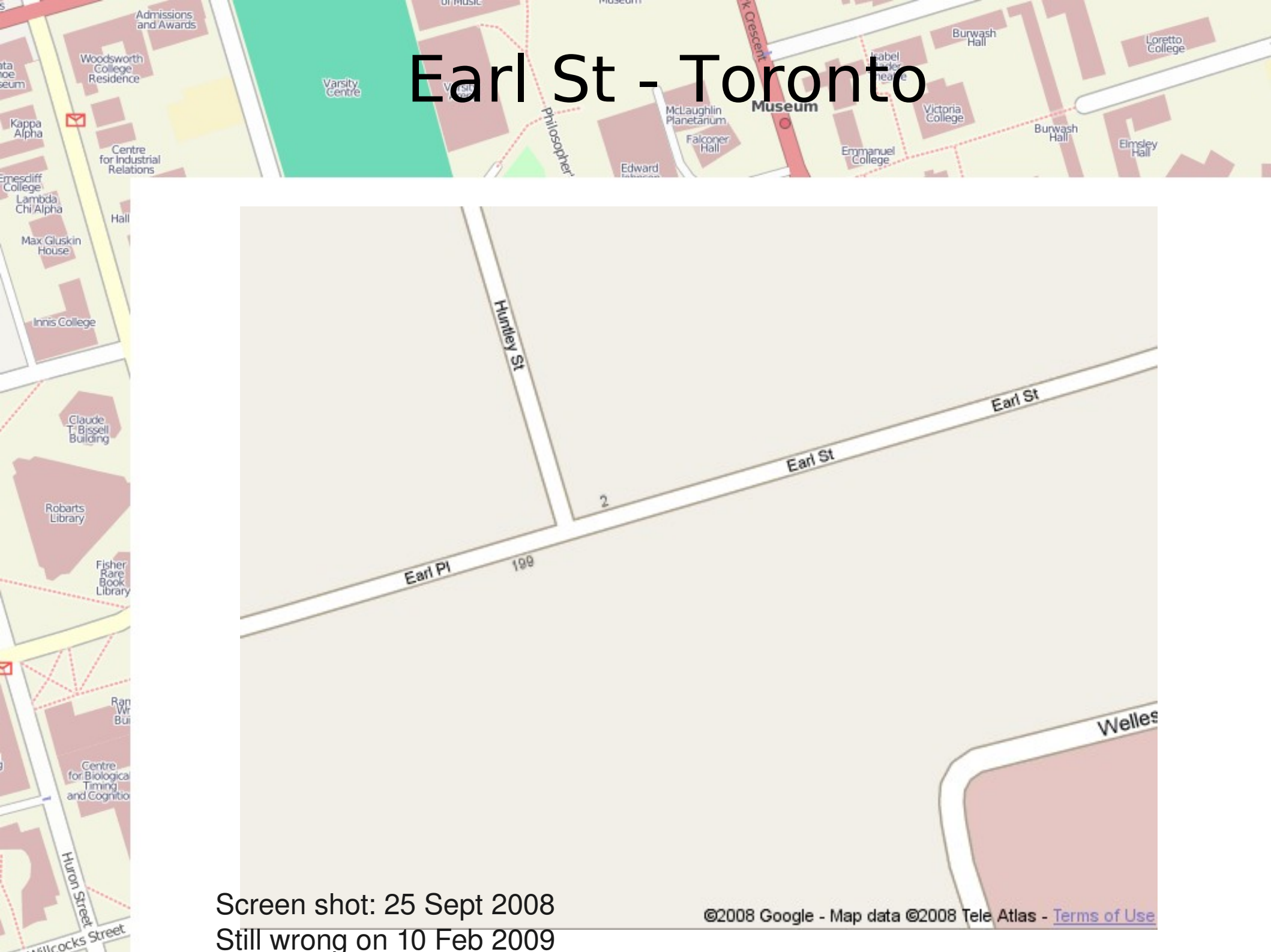
http://tile.openstreetmap.nl/~lambertus/routing-world/

And even more...

Agenda

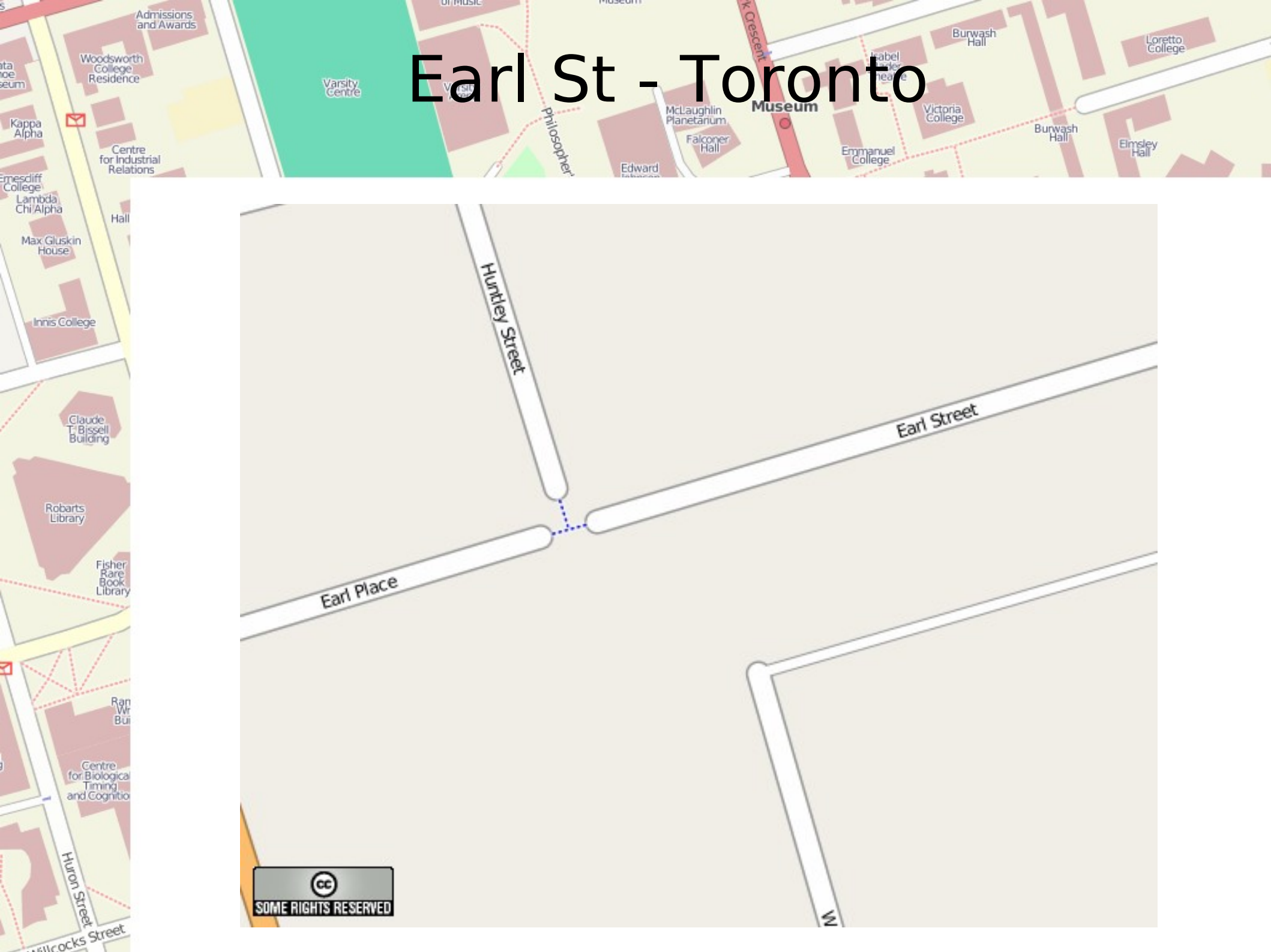
- Maps
- What is OpenStreetMap?
- But doesn't ____.com do that already?
- **OSM advantages**
- How to have fun with OSM.

Earl St - Toronto

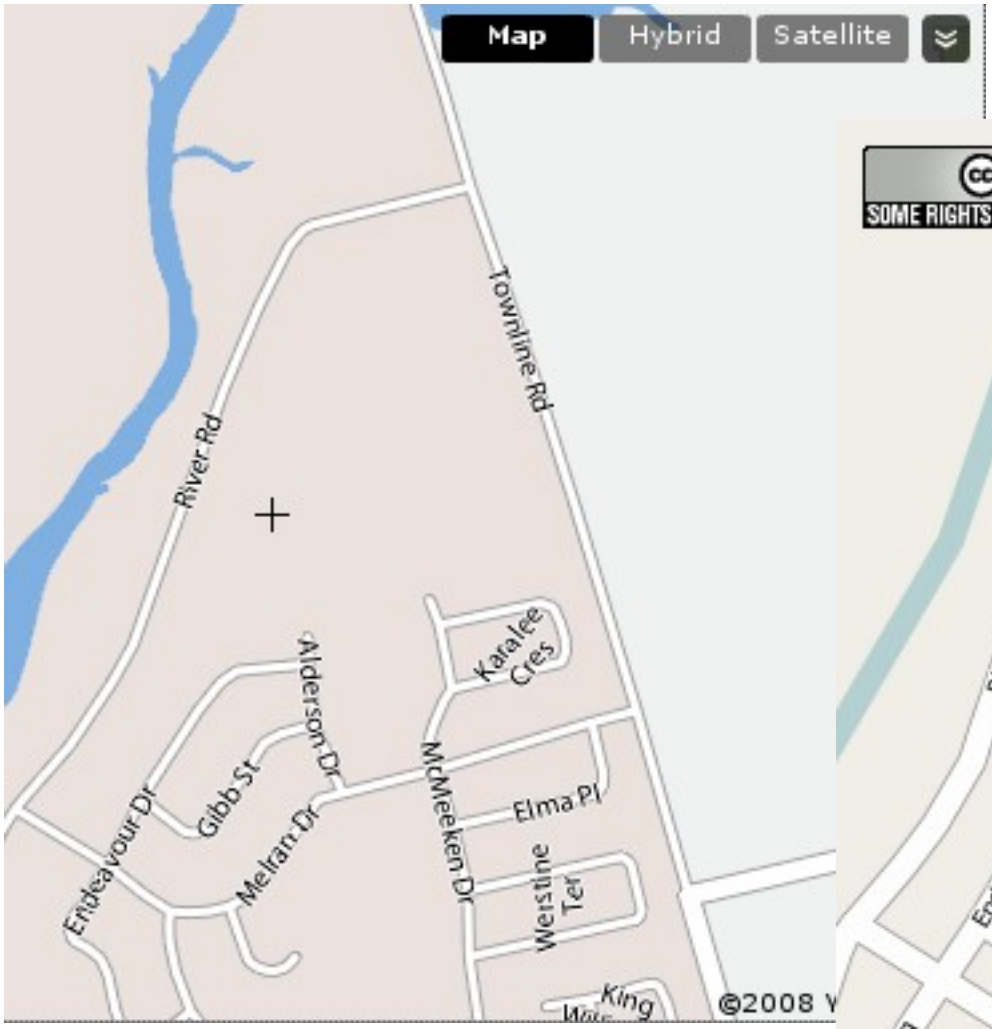


Screen shot: 25 Sept 2008
Still wrong on 10 Feb 2009

Earl St - Toronto

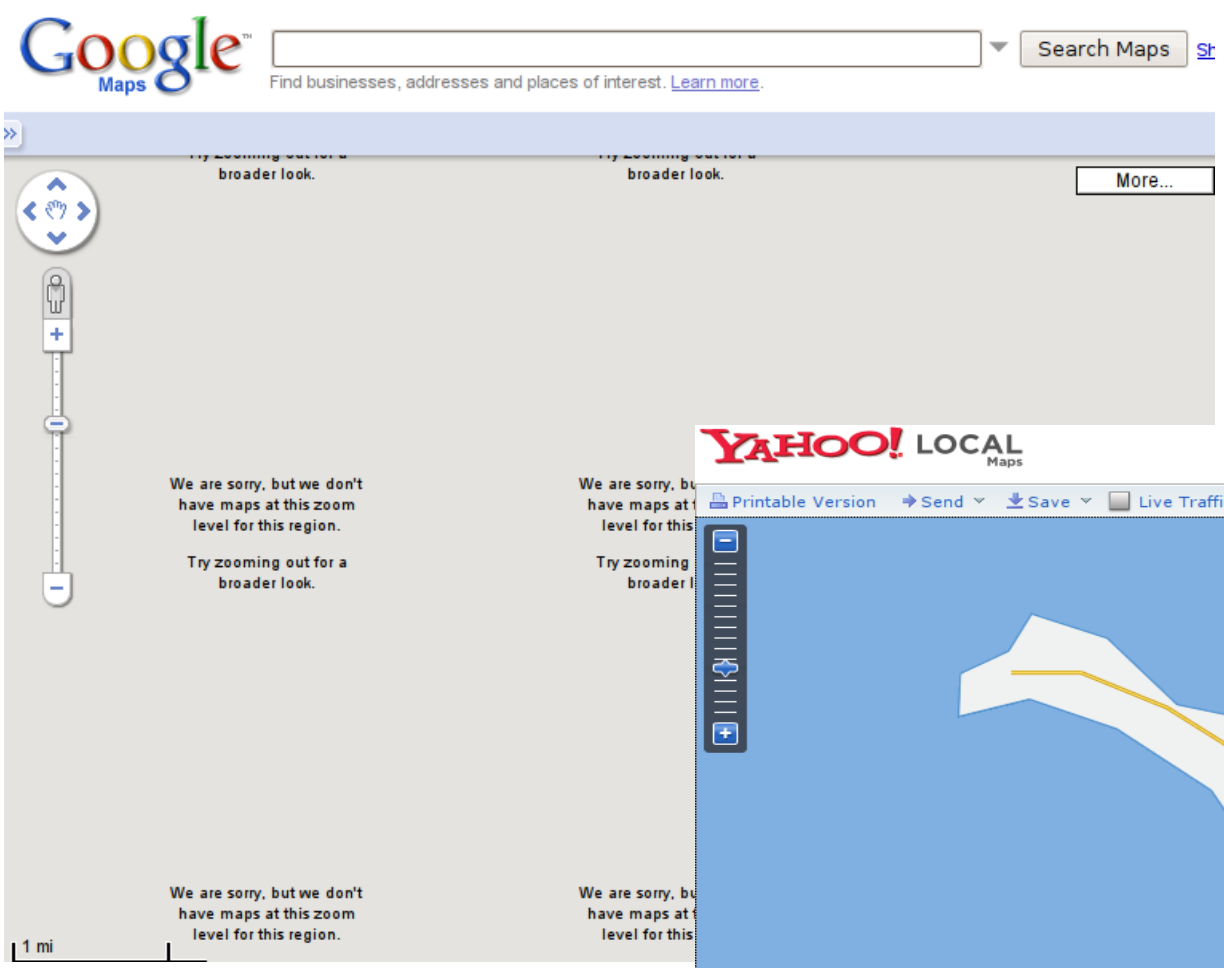


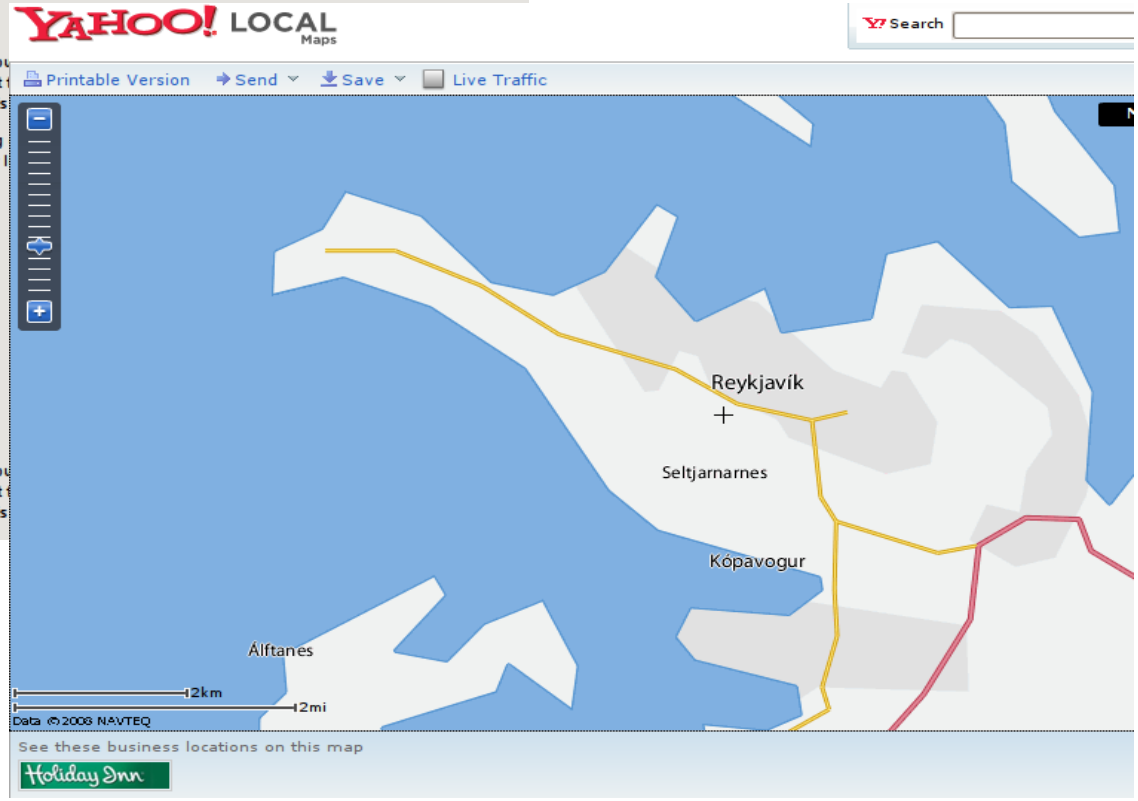
Skipton Crescent - Cambridge



Yahoo screen capture: 25 Sept 2008
Still wrong 10 Feb 2009

Commercial viability vs. population





Google and Yahoo screenshots taken on 8 February 2009. Yahoo and Google trademarks belong to Yahoo and Google.

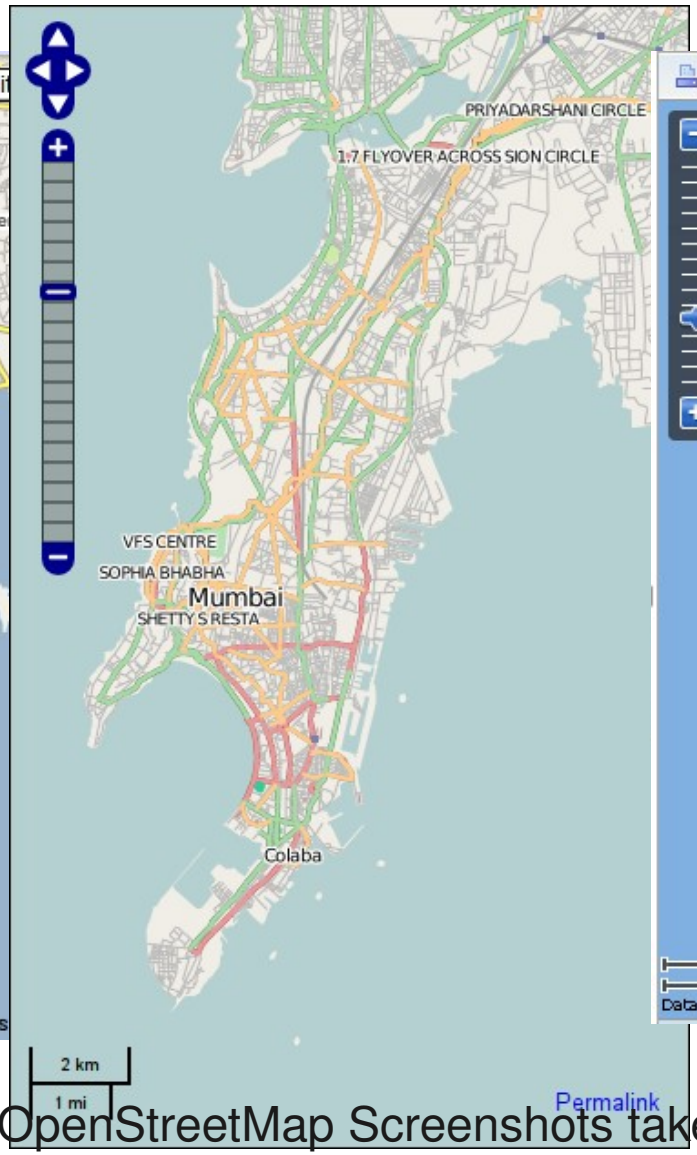
Reykjavik, Iceland

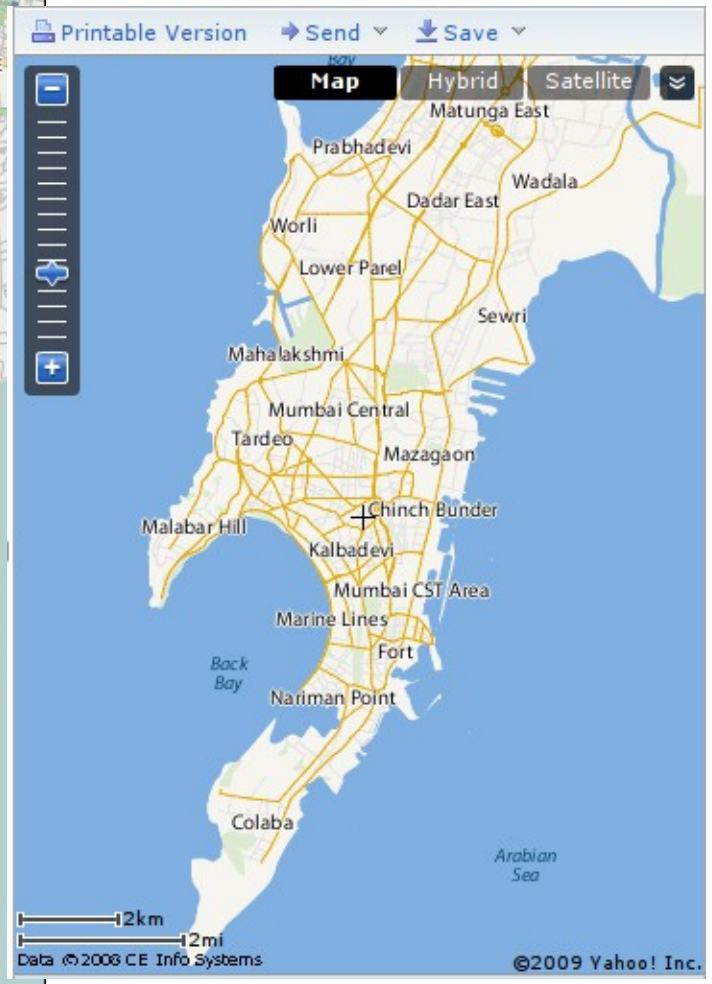
http://openstreetmap.org/?lat=64.1311&lon=-21.9077&zoom=12&layers=B000FTF

Commercial viability vs. population(!)

Yahoo and OpenStreetMap Screenshots taken in 2008

Mumbai, India



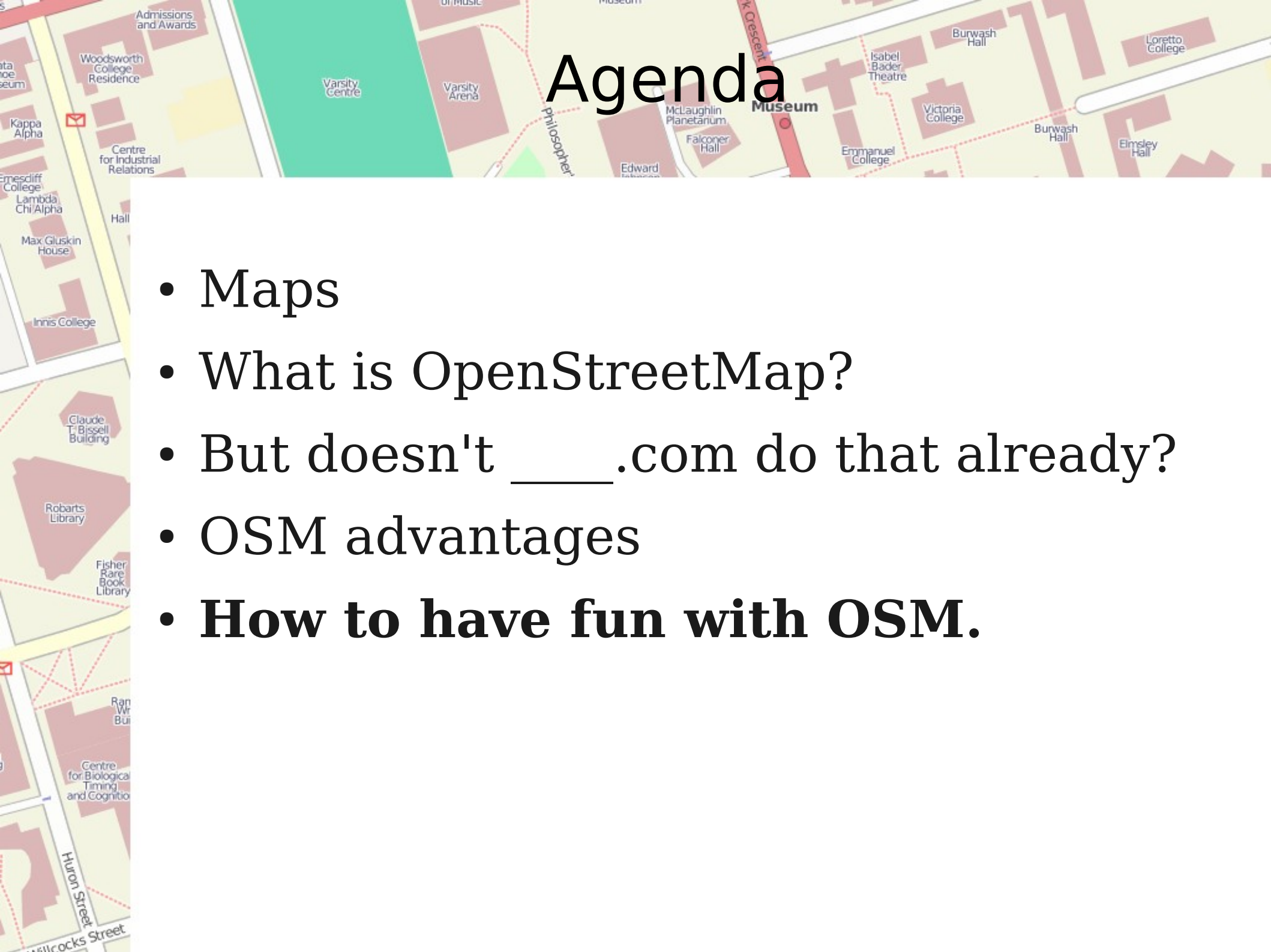


Google, Yahoo and OpenStreetMap Screenshots taken 8 February 2009
http://openstreetmap.org/?lat=18.9697&lon=72.8416&zoom=12&layers=B000FTF

Generous license

Wanna server, Kid?

http://wiki.openstreetmap.org/wiki/Image:OSM-Servers-Aug08-Install-After.jpg



Agenda

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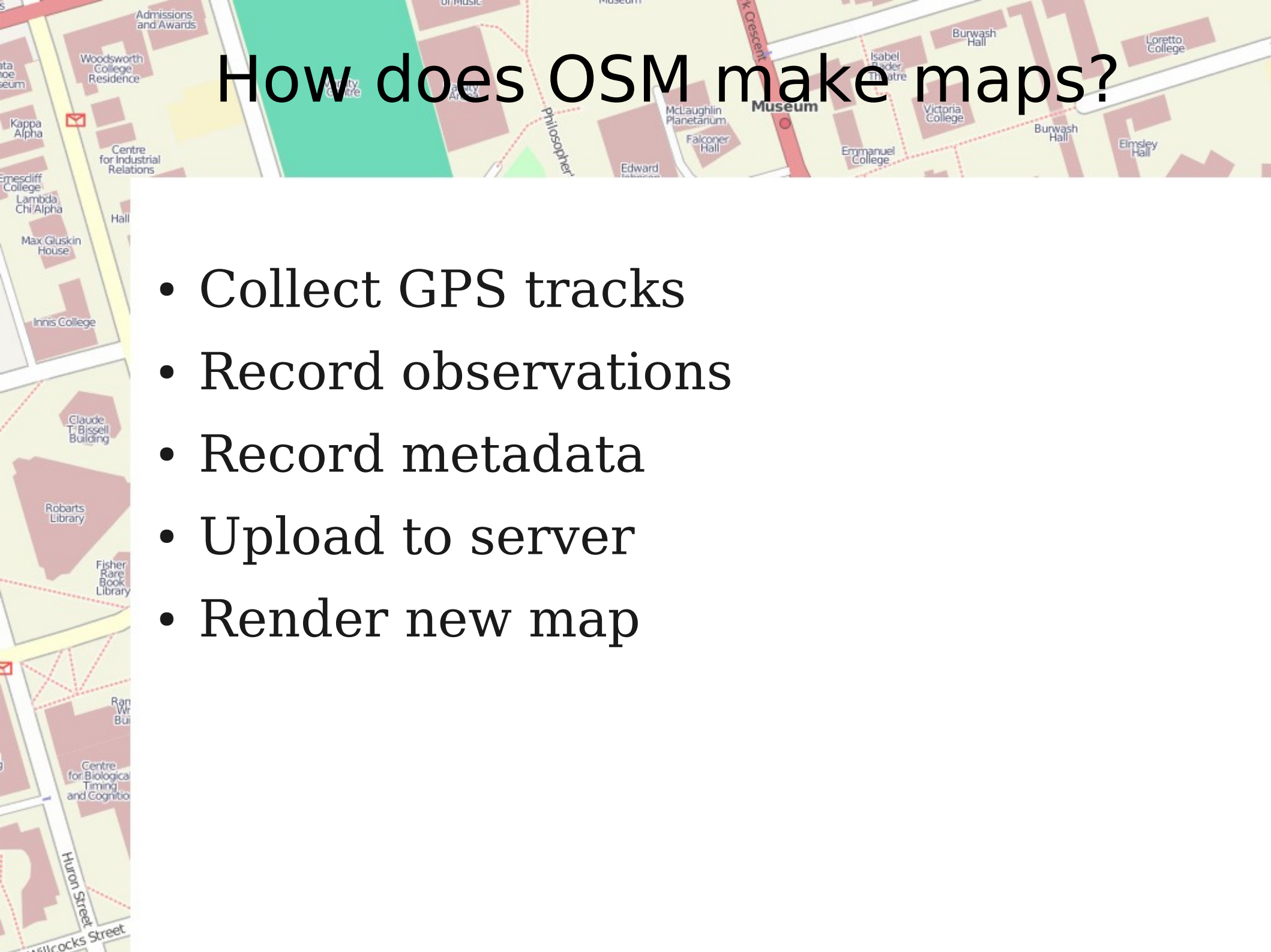
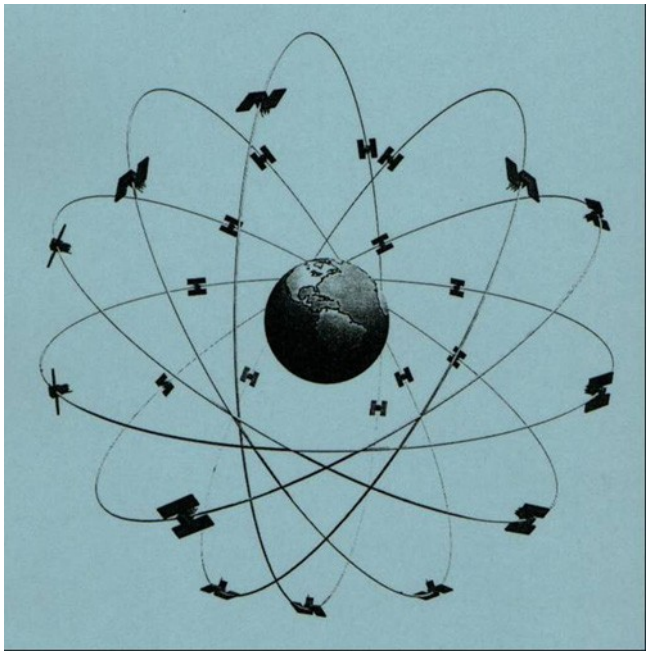
How does OSM make maps?

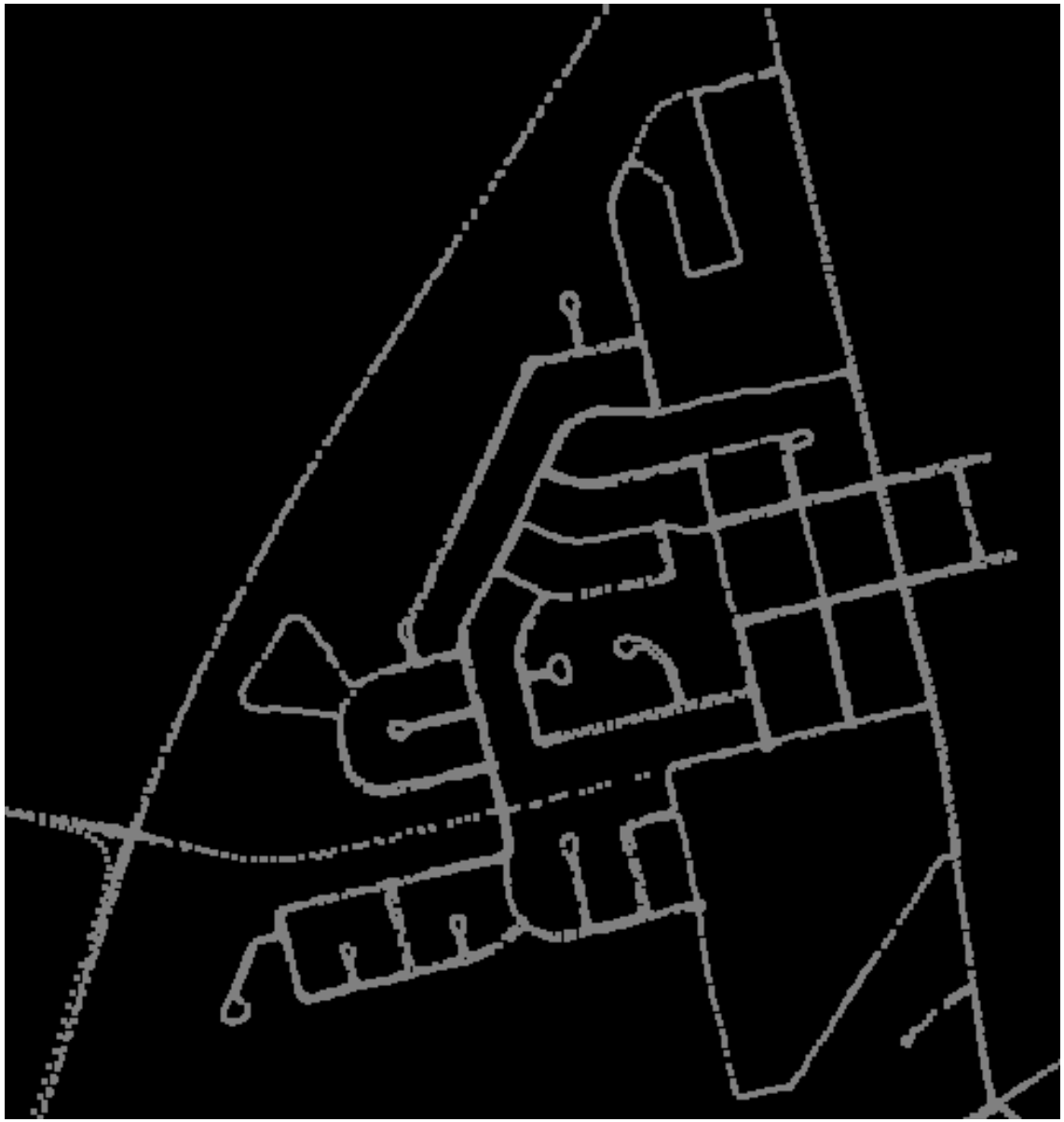


- Collect GPS tracks
- Record observations
- Record metadata
- Upload to server
- Render new map

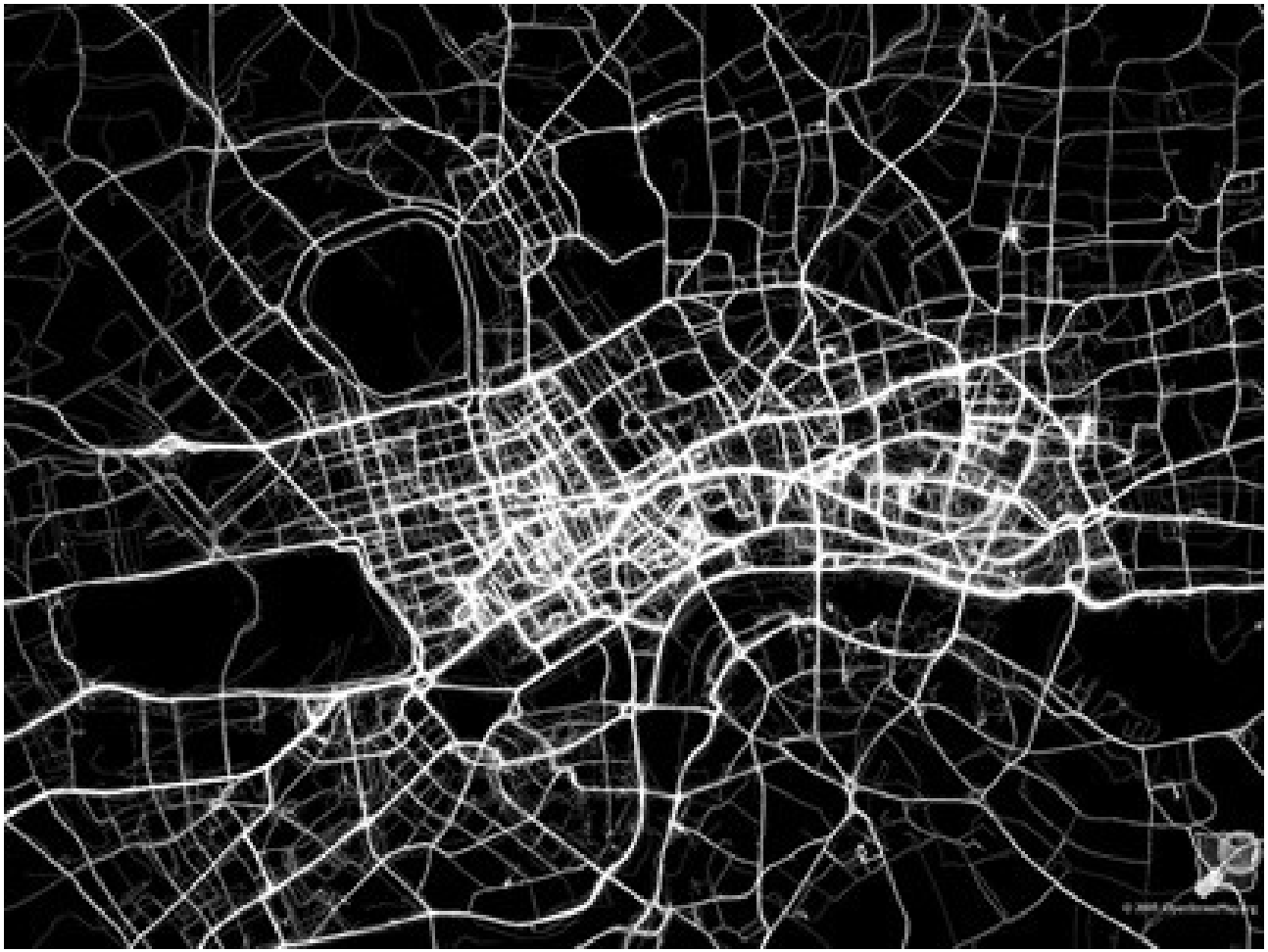
Global Positioning System



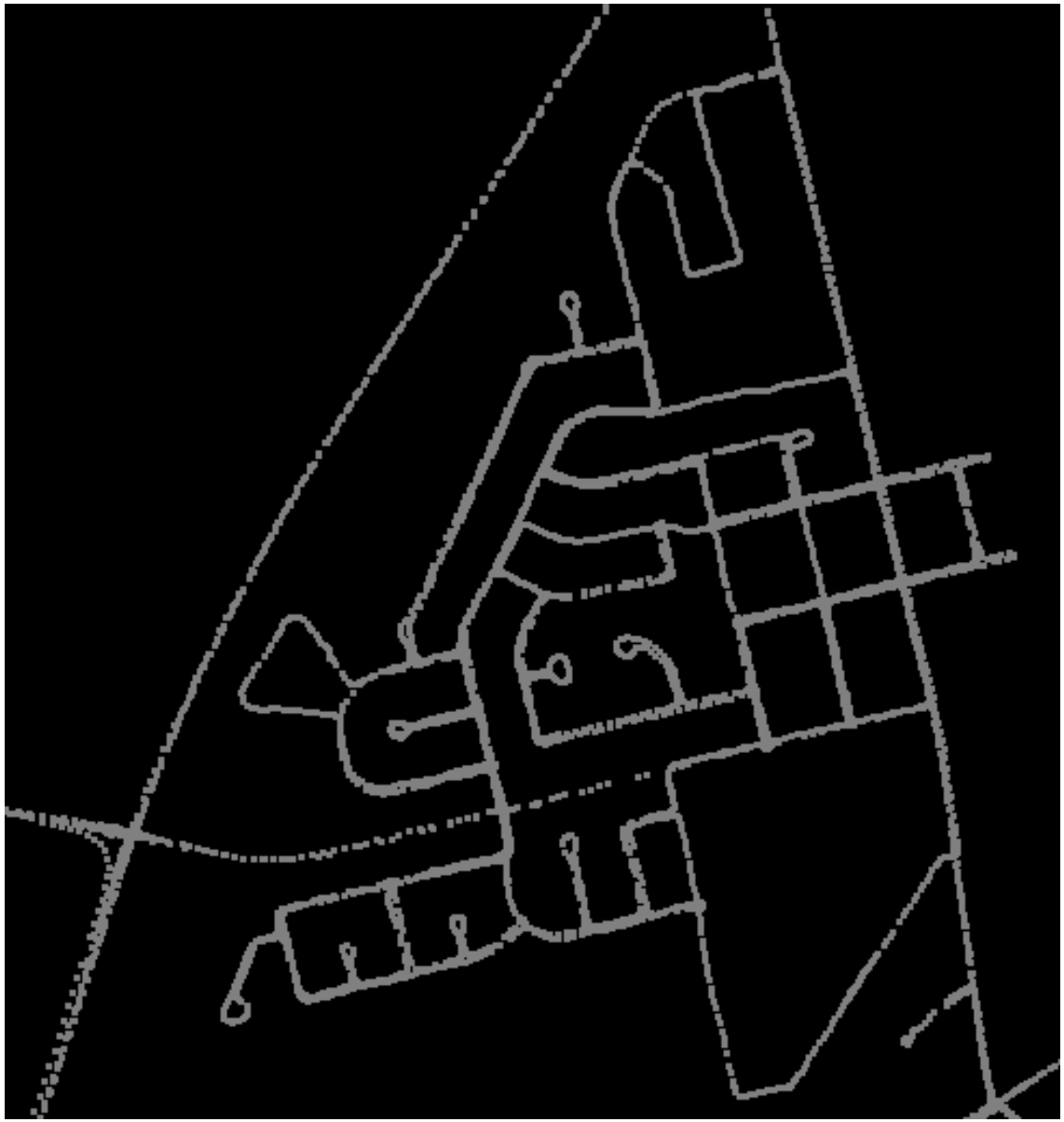
A track file



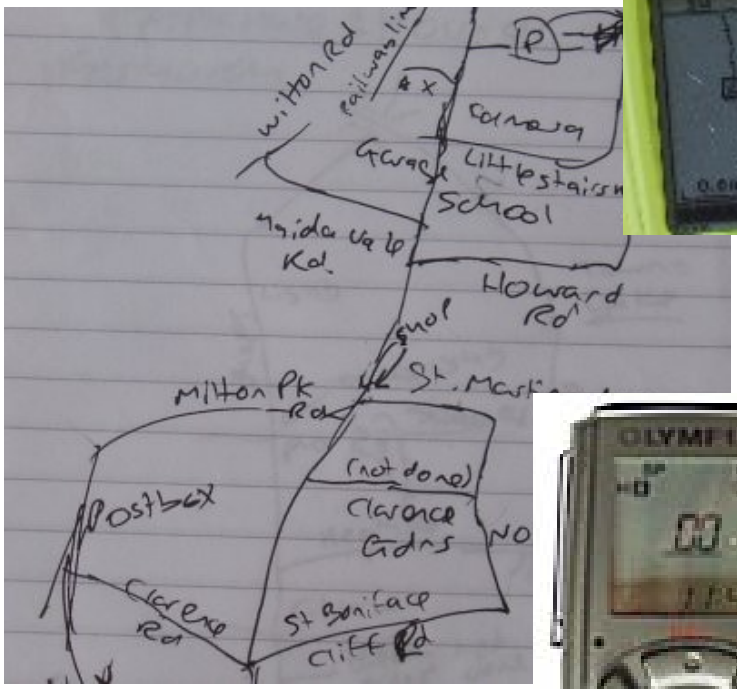
Many track files

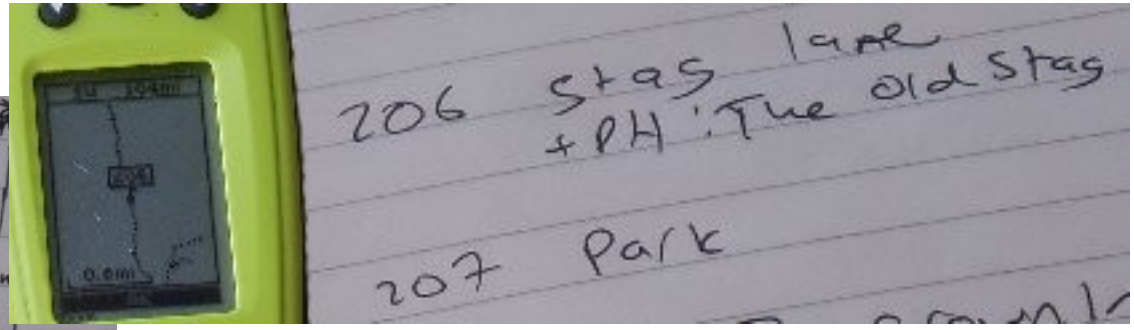


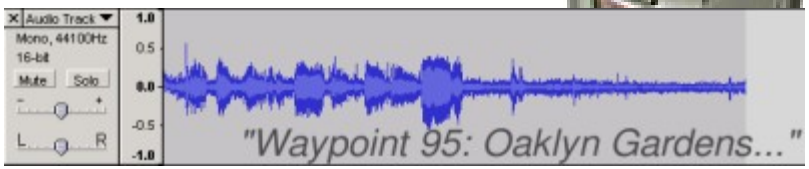
Survey an area



Record observations







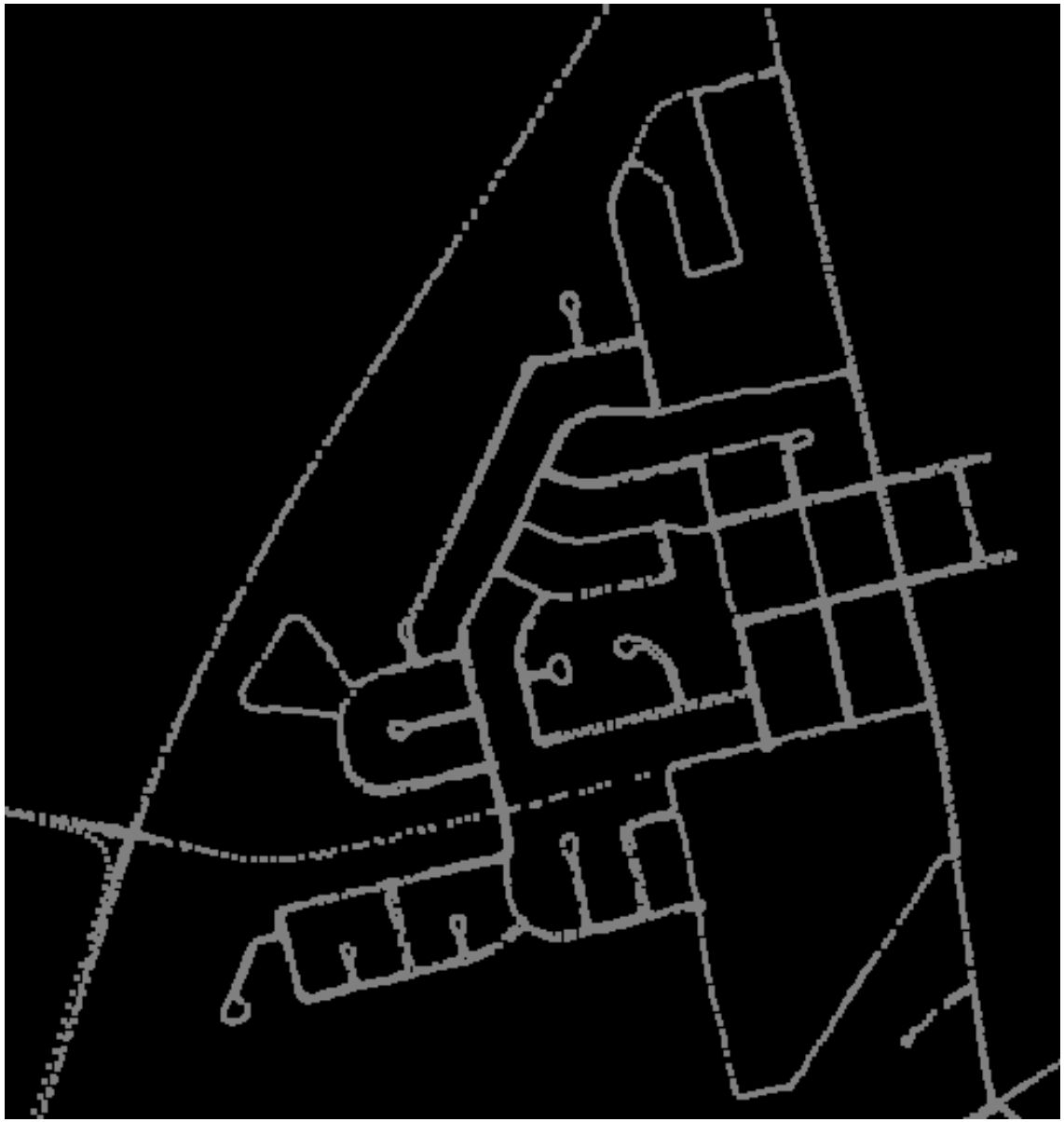
A brief diversion

Why work so hard?

Survey diligently

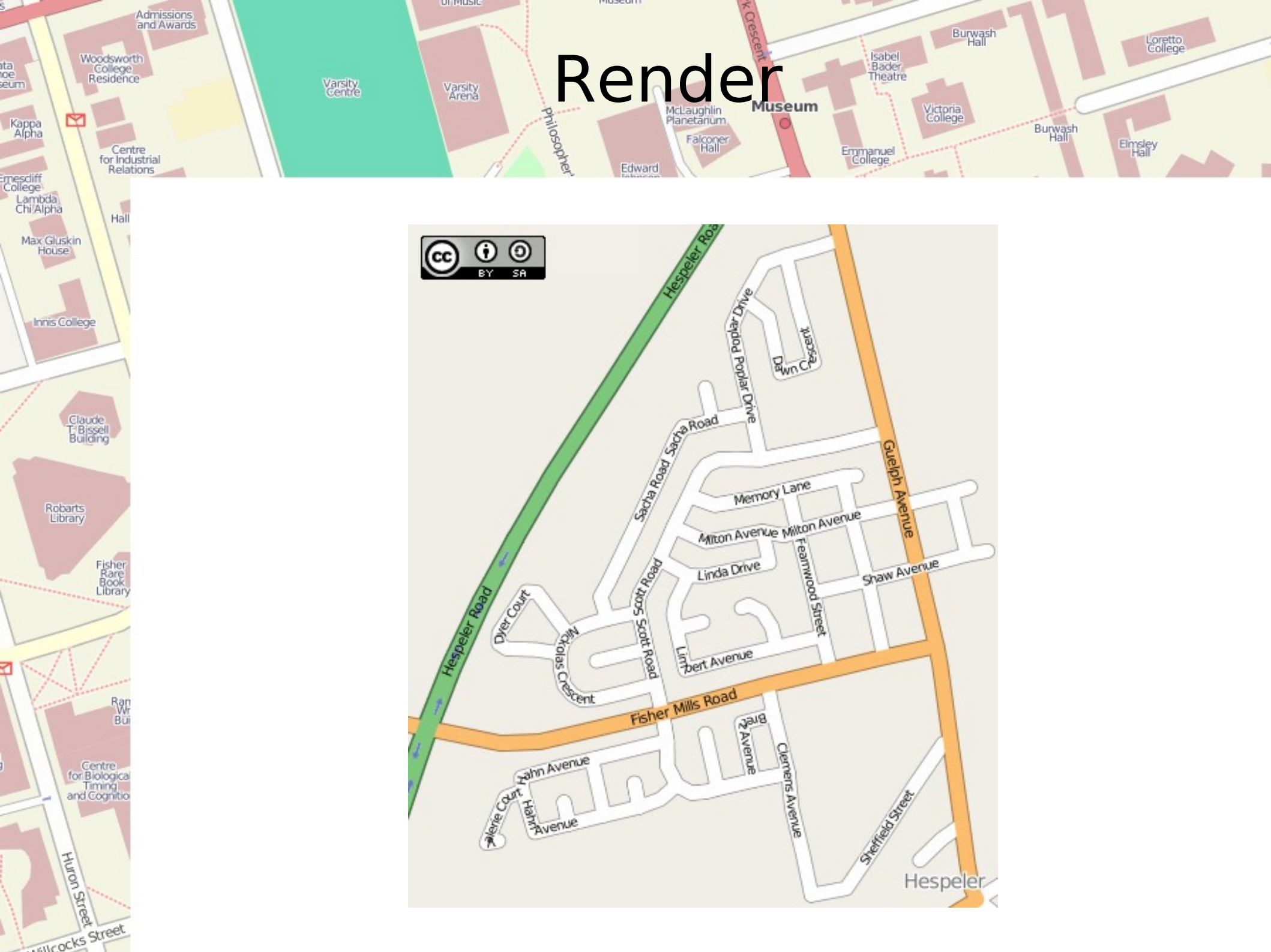
(c) A-Z maps. Bristol, UK

Survey an area



Add metadata

Render

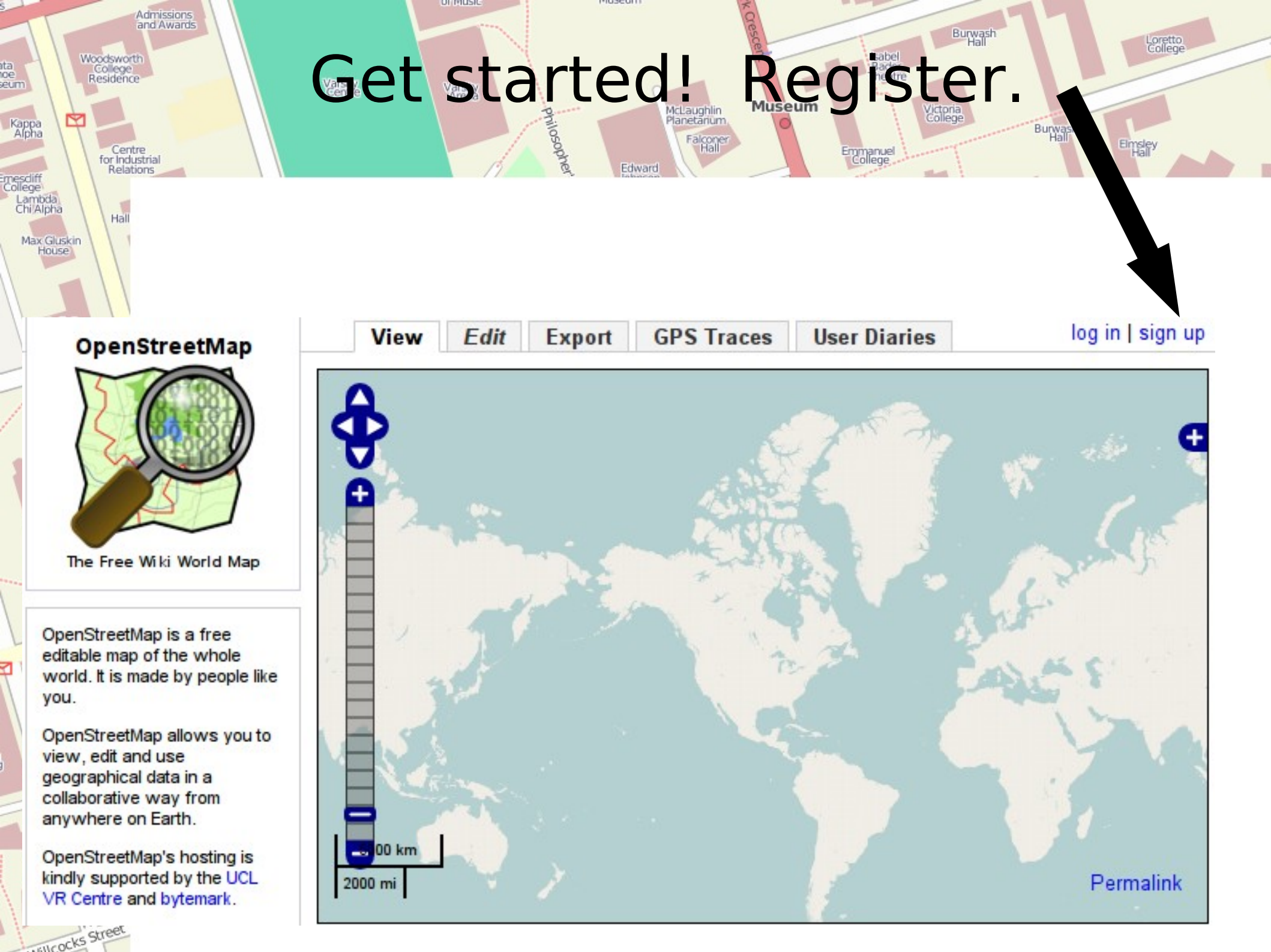


Admissions and Awards
Woodsworth College Residence
Varsity Centre
Varsity Arena
Kappa Alpha
Centre for Industrial Relations
Emesdiff College
Lambda Chi Alpha
Max Gluskin House
Innis College
Claude T. Bissell Building
Robarts Library
Fisher Rare Book Library
Centre for Biological Timing and Cognition
Huron Street
Willcocks Street
Philosopher
McLaughlin Planetarium
Falconer Hall
Edward
Museum
Isabel Bader Theatre
Burwash Hall
Loretto College
Victoria College
Emmanuel College
Elmsley Hall
Hespeler Road
Poplar Drive
Dawn Crescent
Sacha Road
Memory Lane
Milton Avenue
Linda Drive
Feamwood Street
Shaw Avenue
Guelph Avenue
Scott Road
Dyer Court
Nicholas Crescent
Limbert Avenue
Fisher Mills Road
Brett Avenue
Clemens Avenue
Hahn Avenue
Valerie Court
Sheffield Street
Hespeler

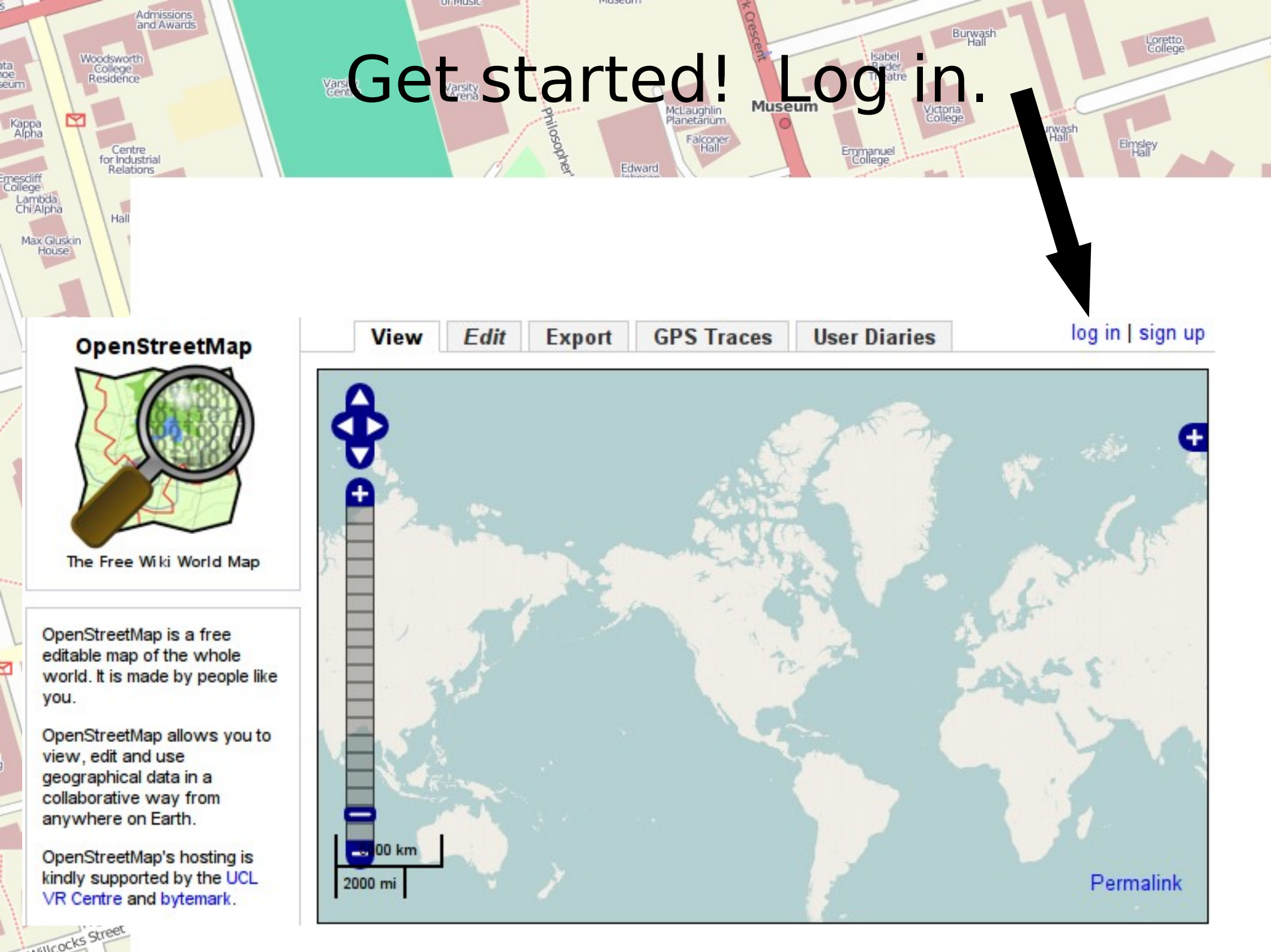
Won't that take “Forever”?

http://www.geofabrik.de/gallery/history/index.html#toronto

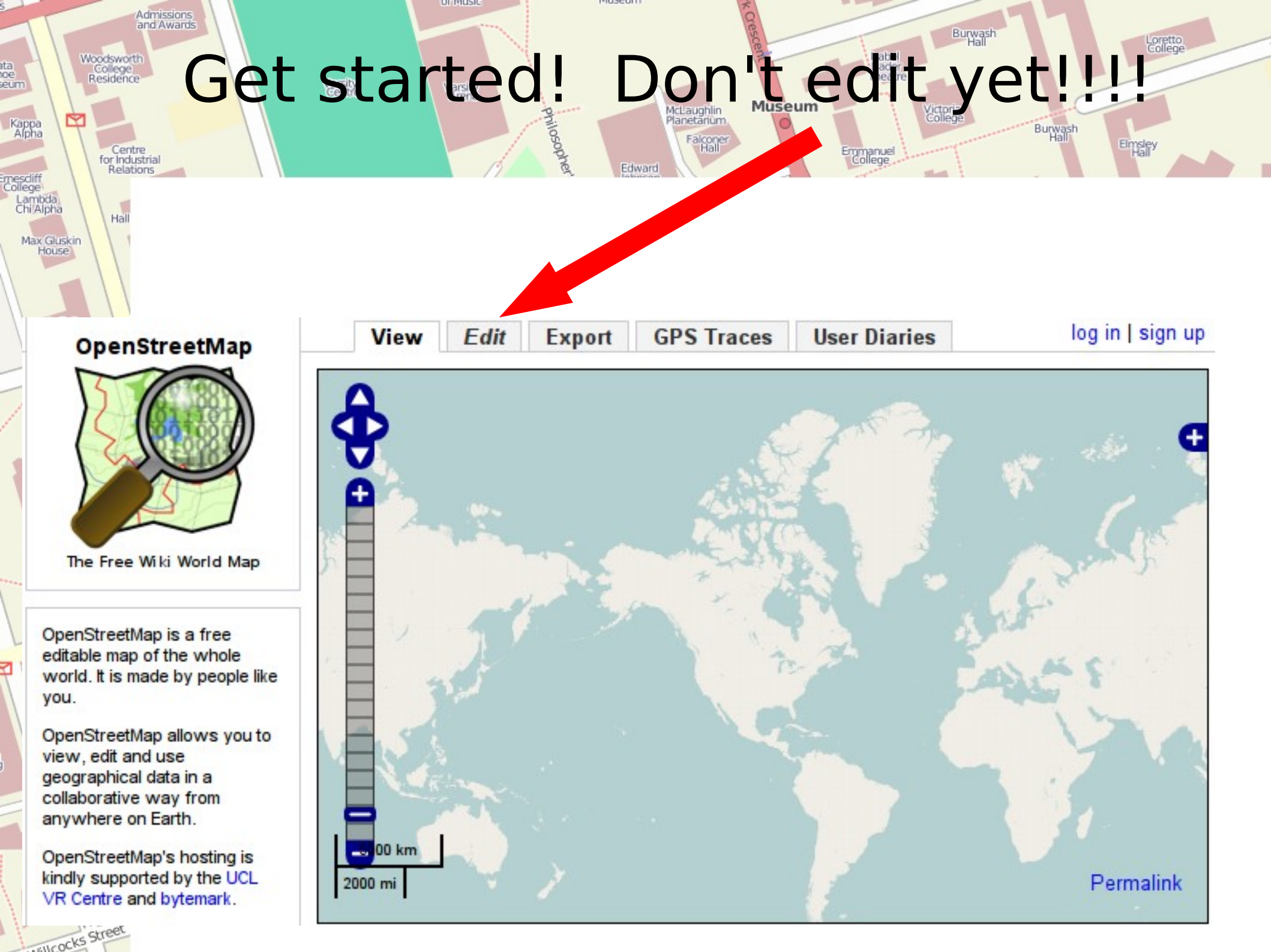
Get started! Register.



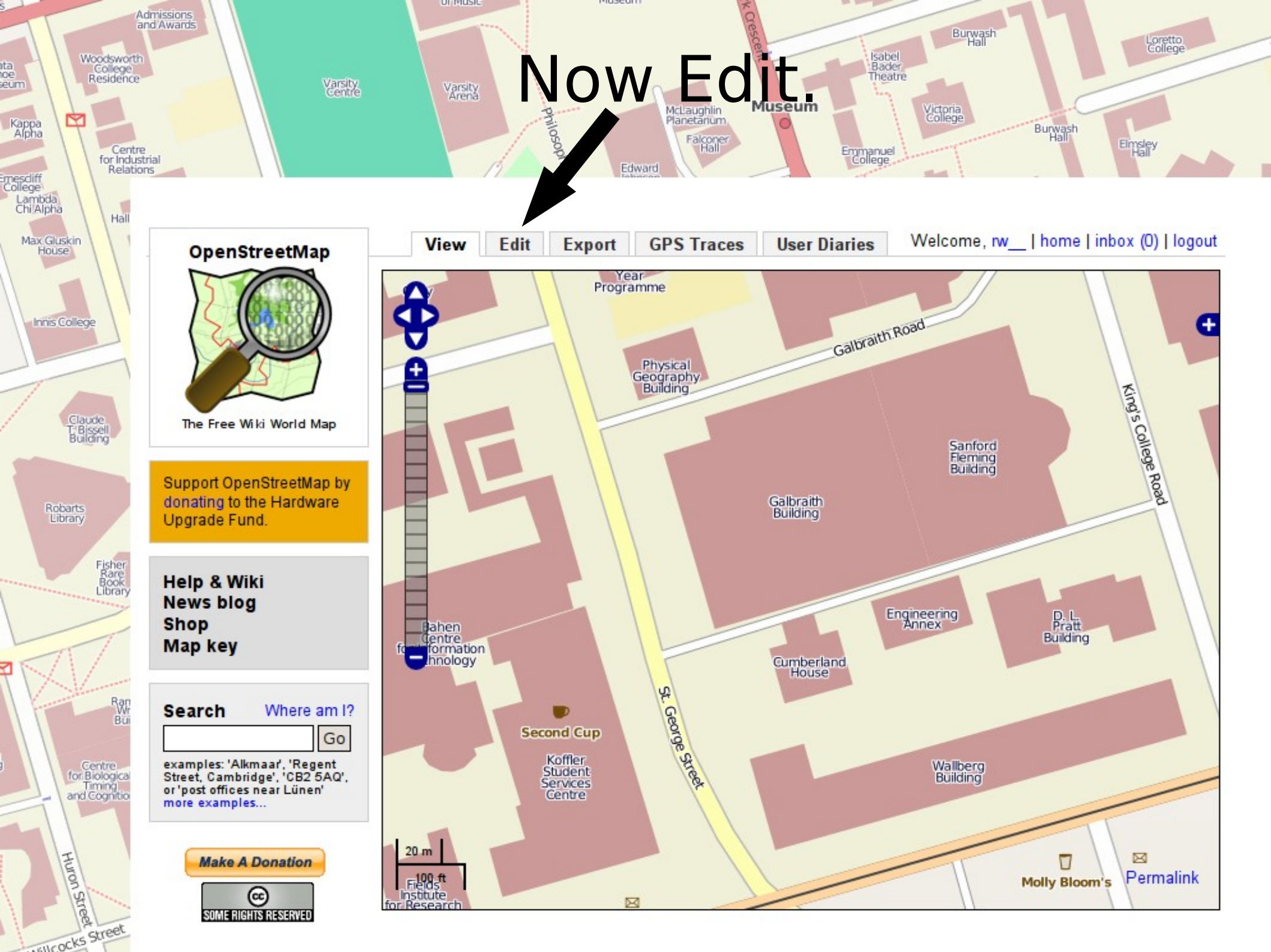
Get started! Log in.



Get started! Don't edit yet!!!!



Zoom in first!
OpenStreetMap
The Free Wiki World Map
Support OpenStreetMap by donating to the Hardware Upgrade Fund.
Help & Wiki
News blog
Shop
Map key
Search
Where am I?
Go
examples: 'Alkmaar', 'Regent Street, Cambridge', 'CB2 5AQ', or 'post offices near Lünen'
more examples...
Make A Donation
SOME RIGHTS RESERVED
View
Edit
Export
GPS Traces
User Diaries
Welcome, rw__ | home | inbox (0) | logout
Galbraith Road
King's College Road
St. George Street
Physical Geography Building
Galbraith Building
Sanford Fleming Building
Engineering Annex
D. L. Pratt Building
Cumberland House
Wallberg Building
Second Cup
Koffler Student Services Centre
Molly Bloom's
Permalink
20 m
100 ft


Now Edit.
OpenStreetMap
The Free Wiki World Map
Support OpenStreetMap by donating to the Hardware Upgrade Fund.
Help & Wiki
News blog
Shop
Map key
Search
Where am I?
Go
examples: 'Alkmaar', 'Regent Street, Cambridge', 'CB2 5AQ', or 'post offices near Lünen'
more examples...
Make A Donation
SOME RIGHTS RESERVED
View
Edit
Export
GPS Traces
User Diaries
Welcome, rw__ | home | inbox (0) | logout
Galbraith Road
King's College Road
St. George Street
Physical Geography Building
Galbraith Building
Sanford Fleming Building
Engineering Annex
D. L. Pratt Building
Cumberland House
Wallberg Building
Second Cup
Koffler Student Services Centre
Molly Bloom's
Permalink
20 m
100 ft
Varsity Centre
Varsity Arena
Museum
Admissions and Awards
Woodsworth College Residence
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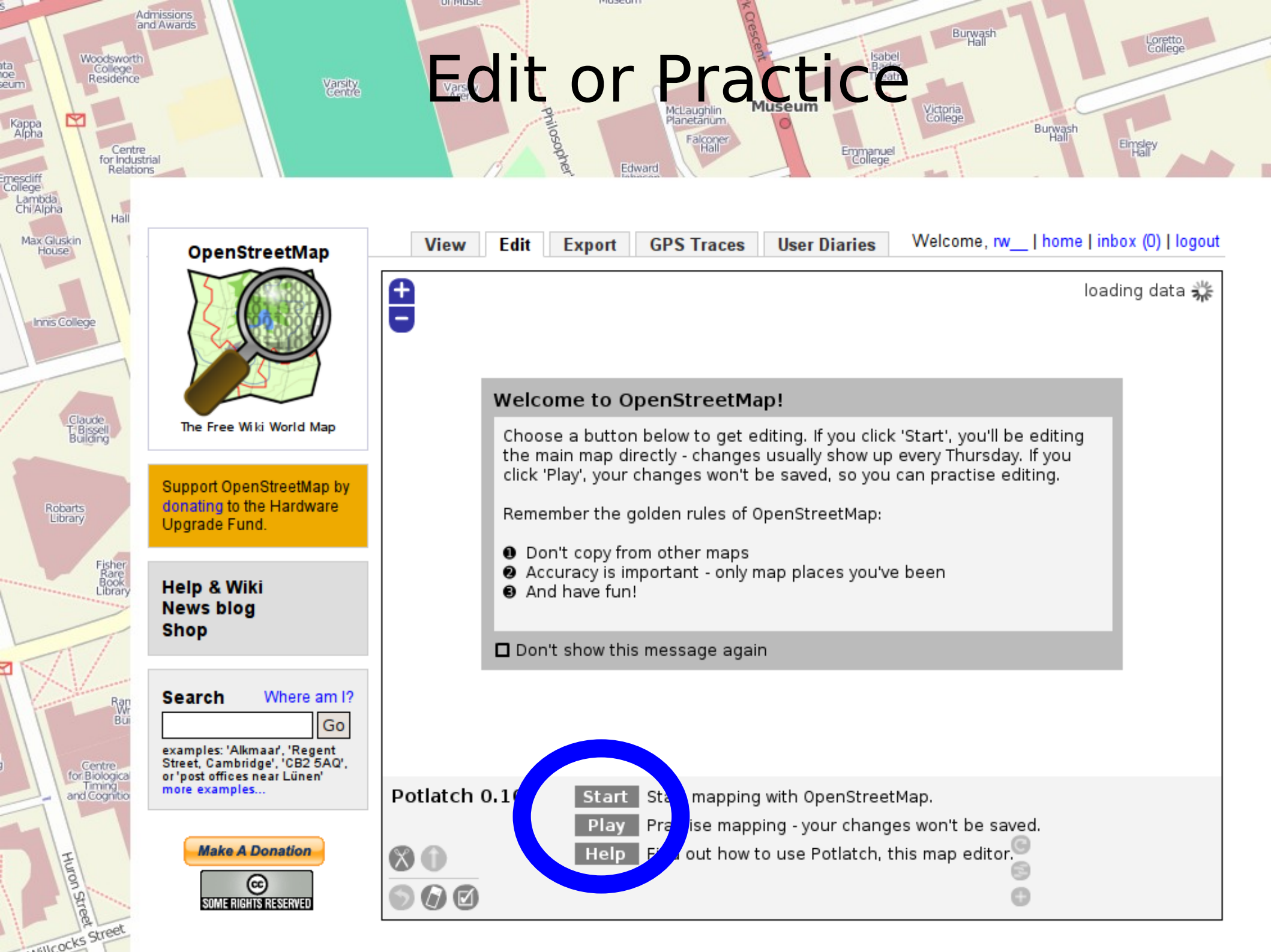
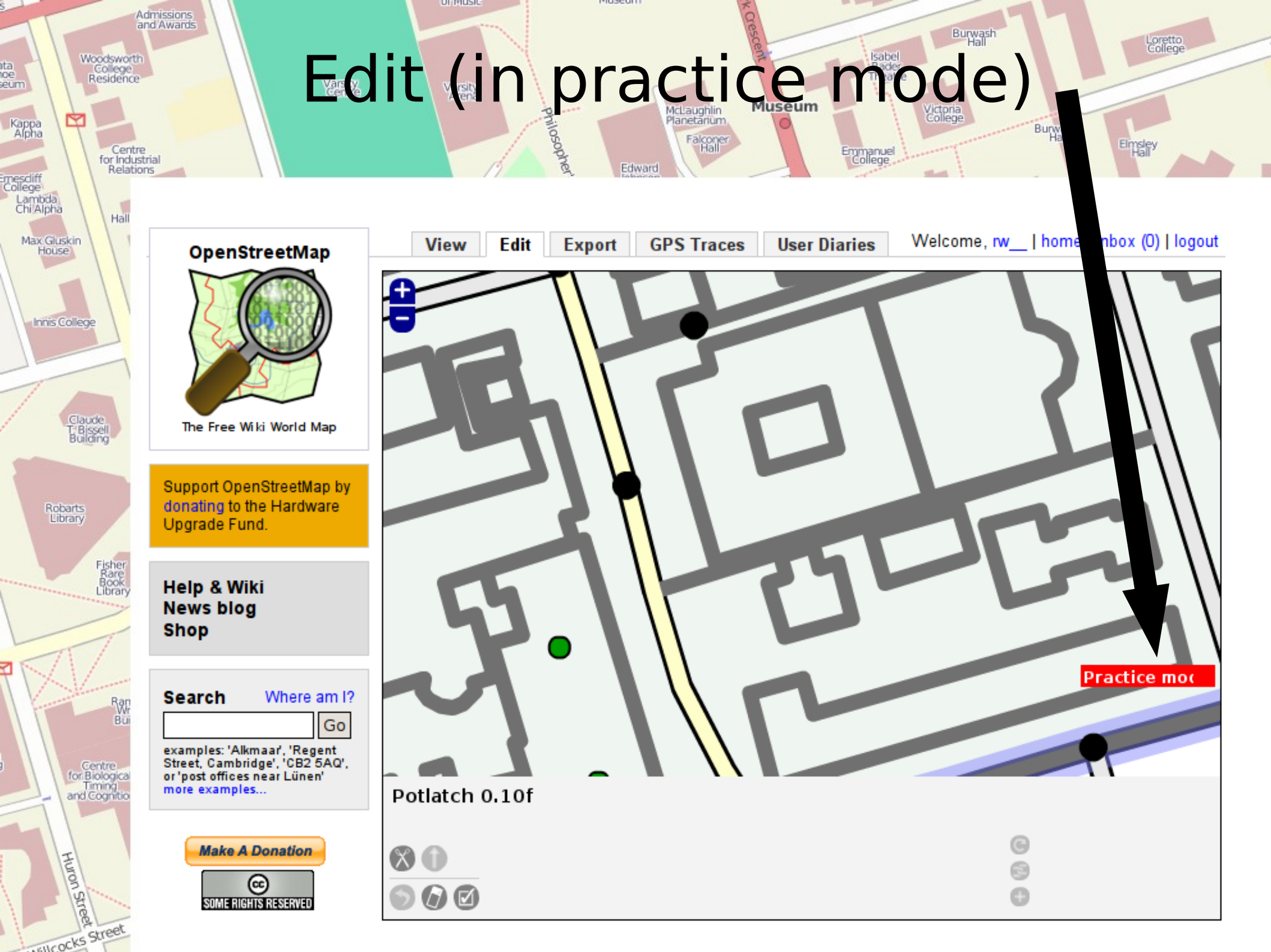
Willcocks Street
Burwash Hall
Loretto College
Isabel Bader Theatre
Victoria College
Emmanuel College
Edward Johnson
McLaughlin Planetarium
Falconer Hall
Elmsley Hall
Max Gluskin House
Kappa Alpha
Lambda Chi Alpha

Edit or Practice

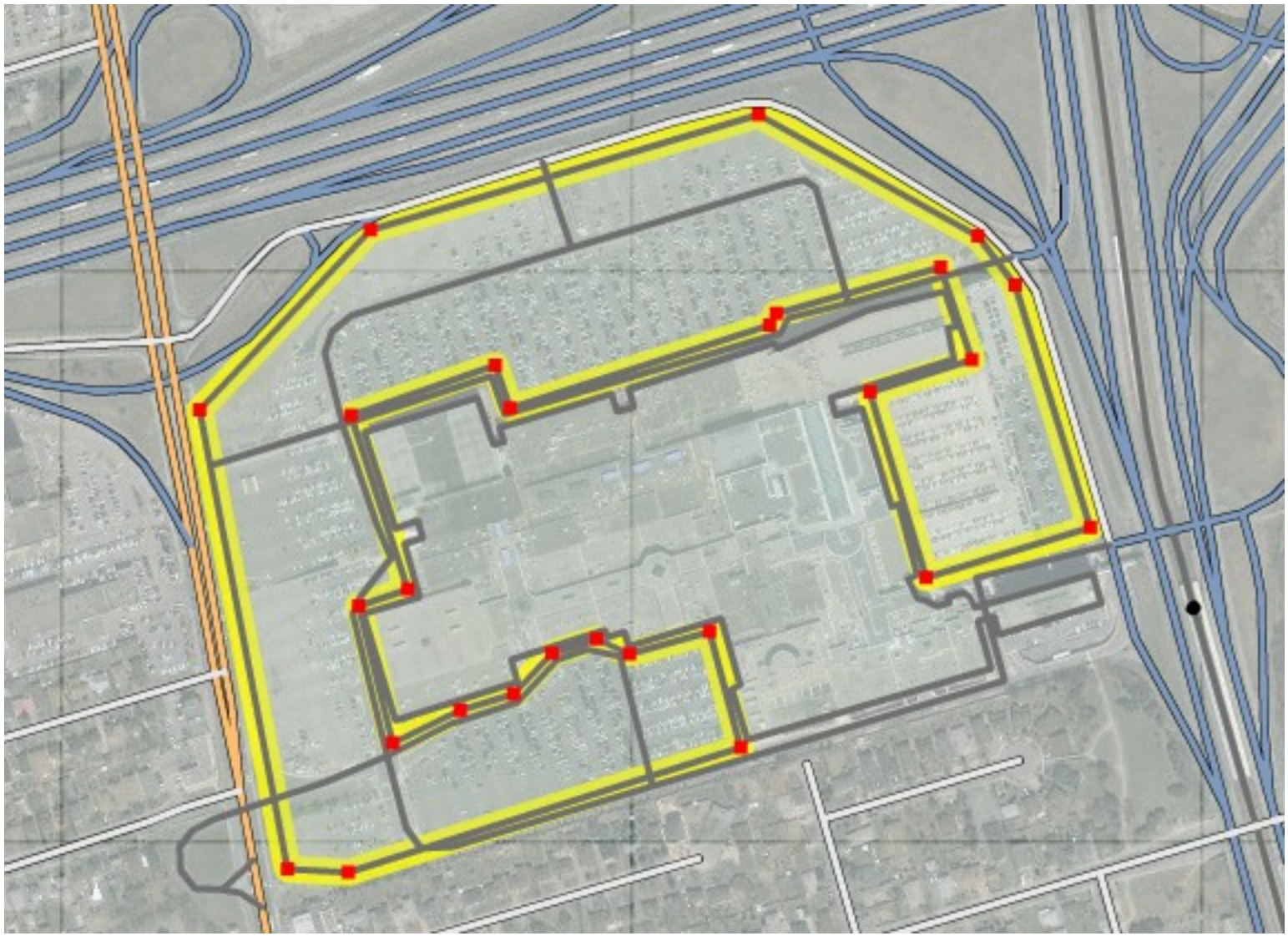


Edit (in practice mode)



Select an object

Yorkdale parking



Mapping party!

Copyright cc-by-sa User:smsm1 http://flickr.com/photos/smsm1/2776456790/

How to contribute: Spot bugs

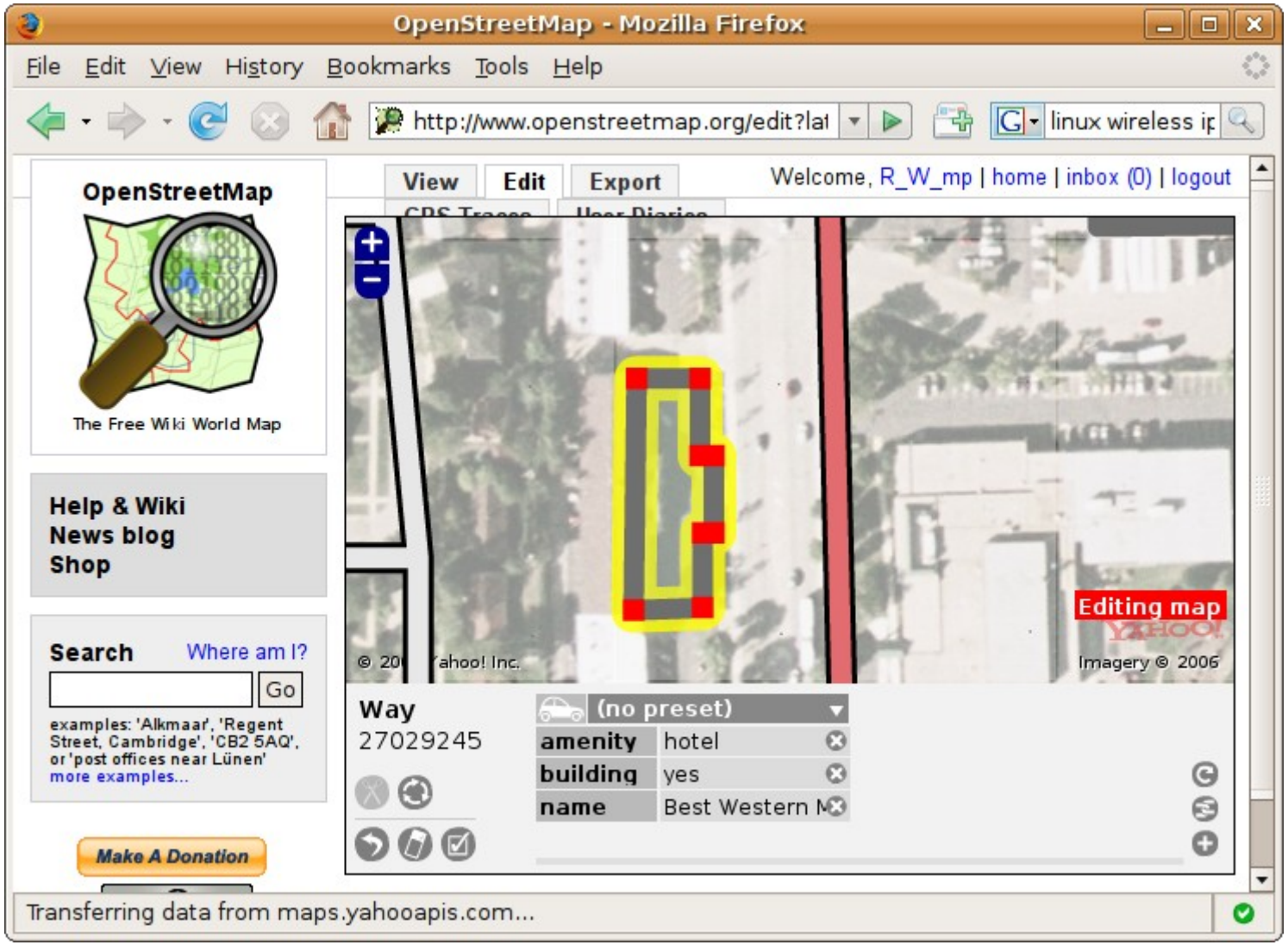
OpenStreetBugs

Feel free to put on the map the modifications you would like to see on OpenStreetMap (name of a street, incorrect junction, amenity, etc.)

Do NOT use licensed data like paper maps, Google Maps, etc. Use only your knowledge of the reality or public domain data.

http://OpenStreetBugs.org/

Edit your neighbourhood



How to Contribute: Get connected

Join the mailing lists.

talk
talk-ca
talk-usa
talk-dev
legal-talk

How to Contribute: Get connected

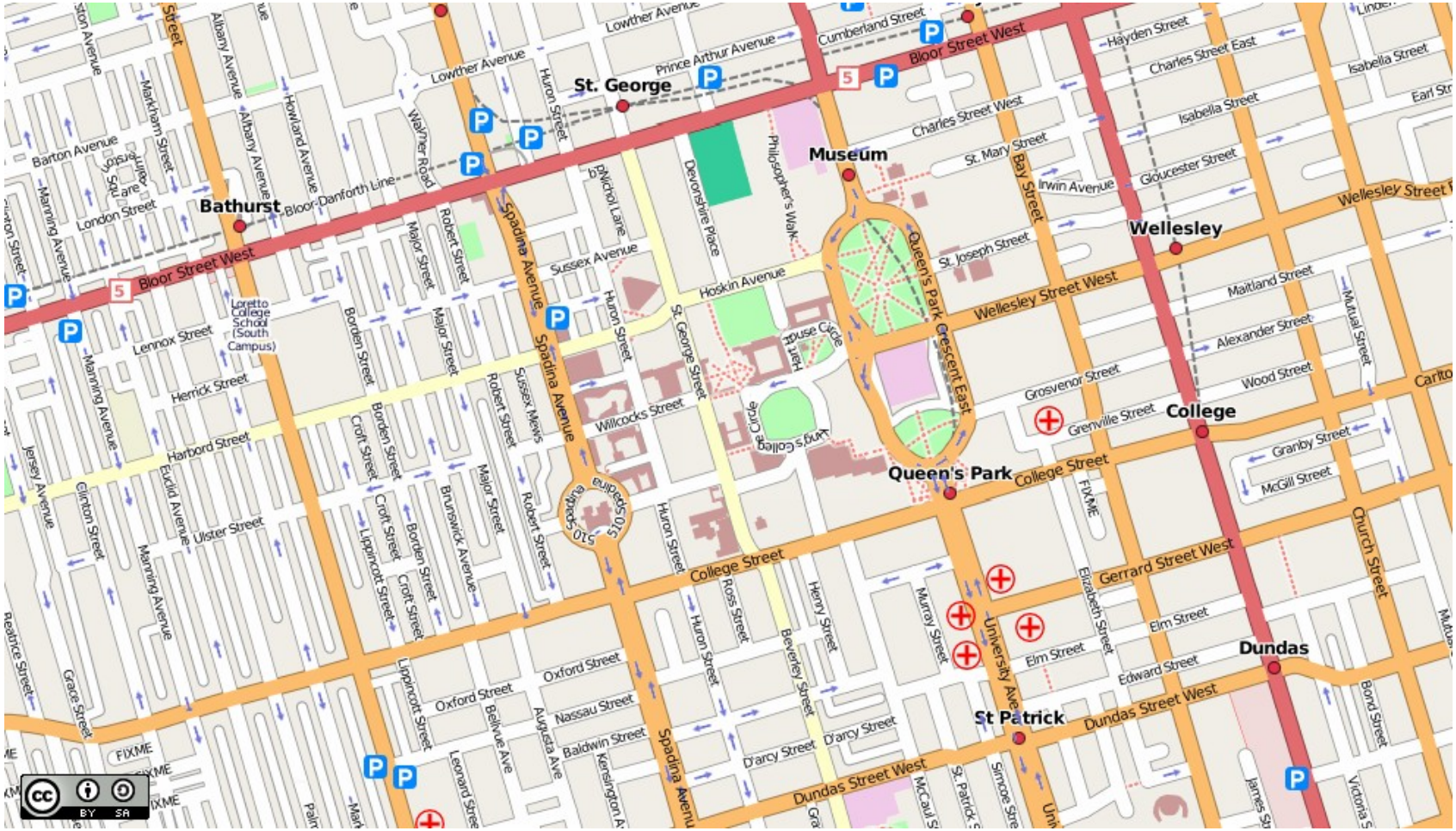
Join IRC

#osm

irc://irc.oftc.net/osm

With a GPS: Map Your Walk / Ride

Featured Image – Oct 2007



Resources

http://wiki.openstreetmap.org/

irc://irc.oftc.net #osm

Mailing lists

Mapping Party

http://weait.com/

Some slides from Mikel & Steve,
Thanks!

Introduction to OSM | Presentation cc-by Richard Weait http://weait.com

Richard Weait | OSM Map Data cc-by-sa http://OpenStreetMap.org/