

OpenStreetMap: just a database, or catalyst for cartographic revolution



Steve Chilton
Middlesex University

Wer ist der echte SteveC?



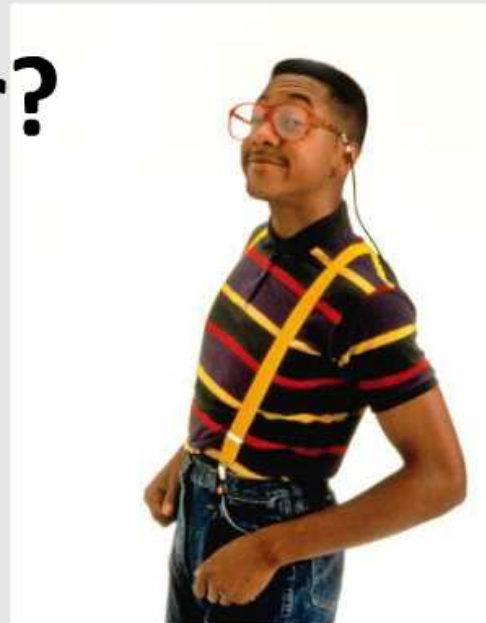
↑ a) Er?



b) Er? ↑

OSM-Quiz

Wer wird
das OSM-Brain
des Jahres 2011?



c. Oder gar Er ?



OpenStreetMap



The Free Wiki World Map

Help & Wiki
News blog
Shop

User

display name:

blackadder

save

Make a Donation



View

Edit

GPS traces

Welcome and

Search



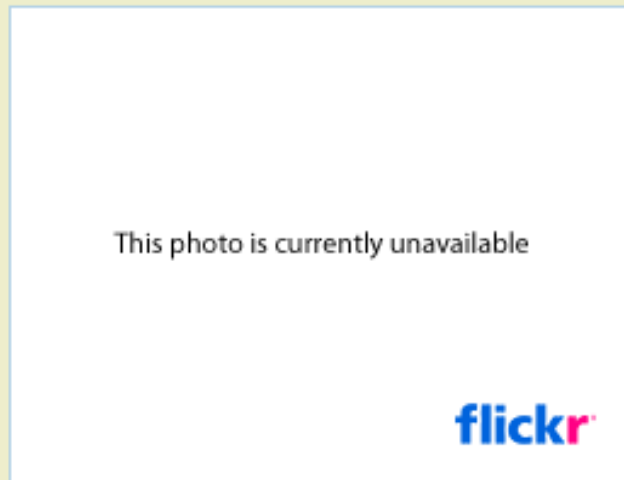
<http://svn.openstreetmap.org/misc/lectures/2006/>

Google Maps helps facilitate Greenland expedition..

The "Google Maps hacks" continue. The company [Guardian Mobility](#) has outfitted two people and a team of dogs who are skiing around Greenland on and exploration of the country with a wireless data unit. Guardian Mobility, says:

She has been outfitted with one of our Tracer units which has a GPS receiver and send data to our backoffice through Globalstars Low-earth orbit satellite network. We're tracking her progress using Google Maps and using [MyGMaps](#). to map multiple points onto Google Map's satellite imagery.

Here's a screen capture of what the information looks like once displayed on a Google Maps map-image:



http://googlemapsmania.blogspot.com/2005_04_01_archive.html

..Very cool! If you know of any other sites that are making use of MyGmaps, please post them in the comments section! :)

“ separate map *tools* from map *data* so that all the tools can operate on all the data sources. This separation breaks the proprietary silos that earlier GIS revolutions have taught civilization to avoid. ”

Aims of **OpenLayers** directly quoted from:

<http://openlayers.org/>

OpenStreetMap - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.openstreetmap.org/ flickr history

OpenStreetMap

View Edit History Export GPS Traces User Diaries

Welcome, Steve Chilton | [home](#) | [inbox \(2\)](#) | [logout](#)

OpenStreetMap

The Free Wiki World Map

Search [Where am I?](#)

examples: 'Alkmaar', 'Regent Street, Cambridge', 'CB2 5AQ', or 'post offices near Lünen' [more examples...](#)

Main Page - OpenStreetMap Wiki - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://wiki.openstreetmap.org/wiki/Main_Page flickr history

Main Page - OpenStreetMap Wiki

Page Discussion Read View source View history Search

Find out more about OpenStreetMap's upcoming license change (translations) (discussion)

Main Page

Available languages [Help](#)

العربية • Български • Brezhoneg • Bosanski • Català • Český • Dansk • Deutsch • Ελληνικά • **English** • Esperanto • Español • Eesti • Euskara • فارسی • Suomi • Français • Frysk • Créole guadeloupéen • עברית • Hrvatski • Magyar • मराठी • Interlingua • Íslenska • Italiano • 日本語 • 한국어 • Lietuvių • Latviešu • Македонски • Nederlands • Polski • Português • Português do Brasil • Română • Русский • Slovenčina • Slovenščina • Shqip • Svenska • Türkçe • Українська • Tiếng Việt • 中文(简体) • 中文(繁體)

Missing languages [show](#)

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.

Recent changes

Recent changes

Navigation

- Main Page
- The map
- Mapping projects
- Map Features
- Help
- Blog
- Shop
- Donations



http://wiki.openstreetmap.org/wiki/File:Bedford_new_slippy_map_2.png



mapnik

“..... the default OSM mapnik style is still the finest most widely deployed online cartography ”

Alex McKee adding a comment to: <http://vimeo.com/5609679>

“ The quality of internet mapping will have to improve. There are signs that this is already happening - OpenStreetMap, for example ”

Mary Spence, president of the British Cartographic Society:
<http://www.cartography.org.uk/default.asp?contentID=864>

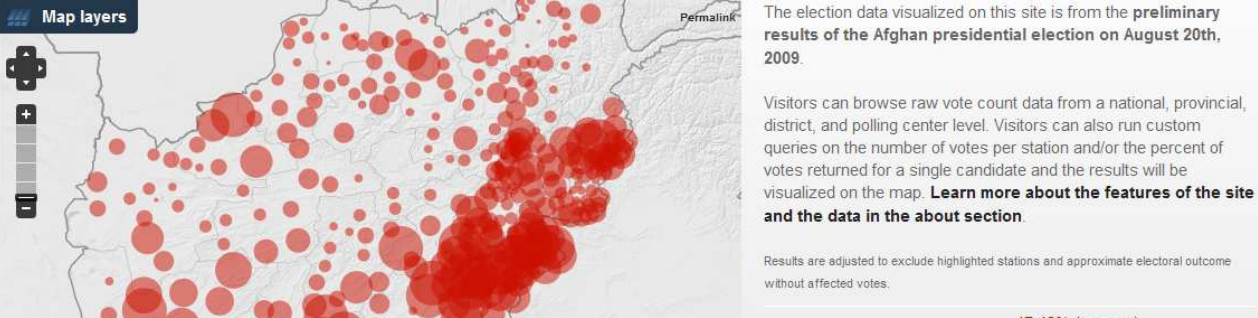
The People's Map



Everyblock.com

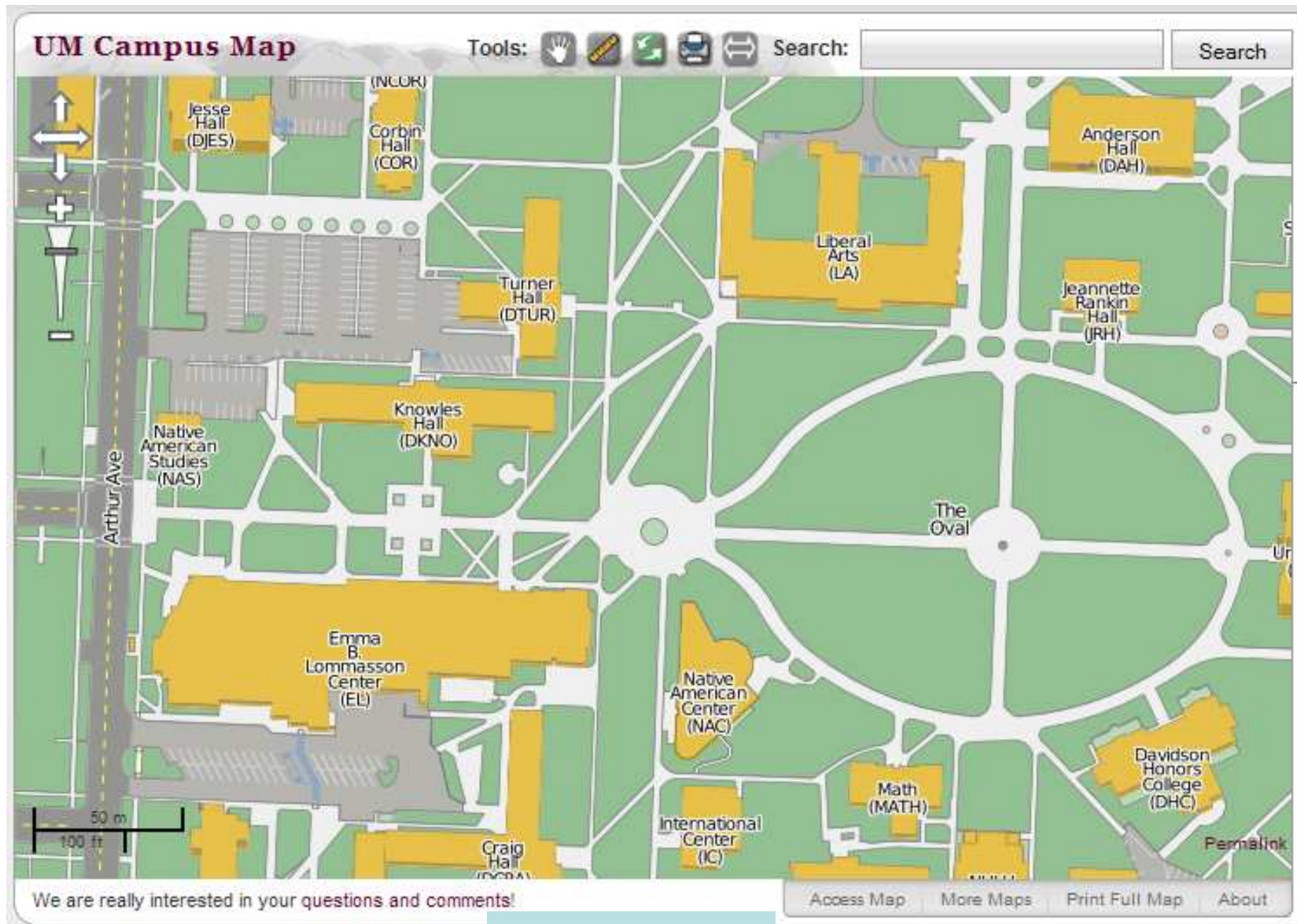


afganistanelectiondata.org



The London Organising Committee of the Olympic Games





<http://map.umt.edu/>

“it’s the thing that makes
OSM look so good, it
[mapnik] probably wouldn’t
exist without OSM”

Michal Migurski when talking of the work of Stamen Design

<http://mike.teczno.com/img/openpapermaps.pdf>

Welcome to the OS OpenSpace API

The OS OpenSpace API is free to access and lets developers create amazing web applications and online projects with Ordnance Survey maps.

But OS OpenSpace API is not just for developers.

Although the API uses JavaScript to make web pages more interactive, anyone can create an application by following our sample code and tutorials.

Get Ordnance Survey maps on your website to enhance the service and customer experience.



Example of OS OpenSpace API displaying Ordnance Survey data

News and information

Web-Map Builder – the login got lazy NEW

Enter the **GeoVation Challenge**.

Visit the [OS OpenData website](#).



<http://openspace.ordnancesurvey.co.uk/openspace/>



A Modern, Lightweight Open-Source JavaScript Library for Interactive Maps by [CloudMade](#)

[Overview](#)[Features](#)[Examples](#)[Documentation](#)[Download](#)[GitHub Repo](#)[@LeafletJS](#)

[← Back to the list of examples](#)

Leaflet Quick Start Guide

This step-by-step guide will quickly get you started on Leaflet basics, including setting up a Leaflet map, working with markers, polylines and popups, and dealing with events.



<http://leaflet.cloudmade.com/index.html>

```

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<Layer name="area-text" status="on" srs="&osm2pgsql_projection;">
  <StyleName>area-text</StyleName>
  <Datasource>
    <Parameter name="table">
      (select way,way_area,name
       from &prefix;_polygon
       where name is not null
          and (waterway is null or waterway <> 'riverbank')
       order by z_order,way_area desc
      ) as text
    </Parameter>
    &datasource-settings;
  </Datasource>
</Layer>
&layer-addressing;
<Layer name="misc_boundaries" status="on" srs="&osm2pgsql_projection;">
  <StyleName>boundary</StyleName>
  <Datasource>
    <Parameter name="table">
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    </Parameter>
    &datasource-settings;
  </Datasource>
</Layer>
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  <StyleName>theme_park</StyleName>
  <Datasource>
    <Parameter name="table">
      (select way,name,tourism from &prefix;_polygon where tourism='theme_park') as theme_park
    </Parameter>
    &datasource-settings;
  </Datasource>
</Layer>

```

Styles Grouping

All

Featured

New

CloudMade

My Styles

Style Preview Size

Small

Medium

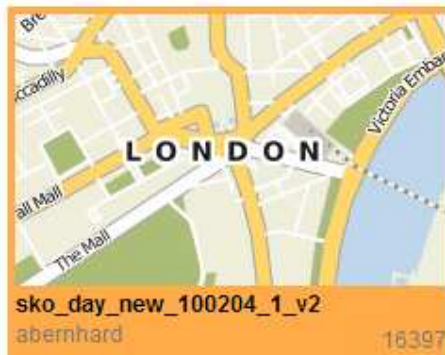
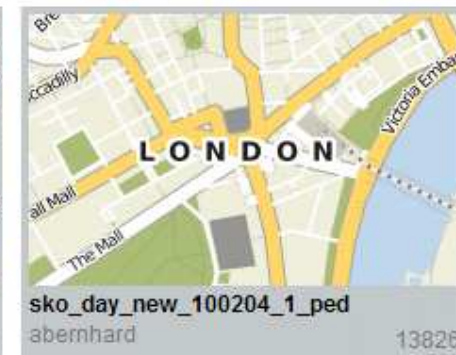
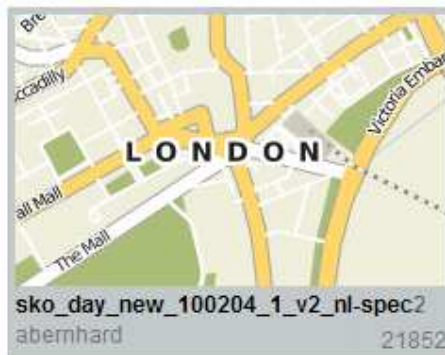
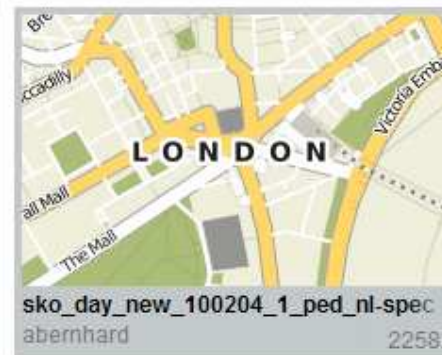
Large

Color Filter

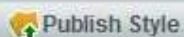


Search Style

Search Name,ID or Author

sko_day_new_100204_1_v2
abernhard 16397Midnight Commander
CloudMade 999The Original
CloudMade 1sko_day_new_100204_1_ped
abernhard 13826sko_day_new_100204_1_v2_nl-spec2
abernhard 21852No-Names
CloudMade 3sko_day_new_100204_1_ped_nl-spec
abernhard 22582Tourist
CloudMade 73BW
jangesle 15434Fine Line
CloudMade 2Fresh
CloudMade 997Pale Dawn
CloudMade 998

Share



Publish Style

<http://maps.cloudmade.com/editor>

Clone Style

Make Your Google Map Stand Out With Styles

Adam DuVander, May 20th, 2010

Look out, [CloudMade](#). Google [has just announced](#) a new feature API that lets developers control the underlying map imagery. Map gives you control of colors and whether types of features are included. This level of map styling was only available by paying for underlying [Map project](#) that CloudMade is based upon.



Since [Google put Maps V3 into production](#), this new feature is not in the latest version. The map embedded above makes the map a saturated blue and hides most interest labels and smaller roads. Click between the "Map" and "Night" tabs in the top right to see the map in lower Manhattan. Google has an example page with [eight other styles](#) reminiscent of CloudMade's [Midnight Commander](#).



Google Map Maker - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.google.com/mapmaker

Google Map Maker

Mail Calendar Documents Photos Reader Web more ▼

steve8@mdx.ac.uk | My Profile | Labs | Discuss | Submit Feedback | Settings ▼ | Help | Sign out

Google map maker Search Browse the map Advanced Search

Updates | My Edits | Community Edits | Directions Print Link to this page

Review some edits and get your edits reviewed faster **New!**
[Learn more](#)

New! Map Maker for the United States

Leave your mark on the map

Add and update the places you know for millions to see in Google Maps.



Start adding your local knowledge to the map.

- Add businesses and building outlines.
- Move place markers to the right locations.
- Build a detailed map of your school campus.

[See live mapping](#) by users around the world!



Contributed by Google users

100 ft

Map Satellite Layers ☒ Show labels

Browse Add

100 ft

Contributed by Google users

Map Satellite Layers ☒ Show labels

Browse Add

100 ft

Contributed by Google users

<http://www.google.co.uk/mapmaker>

JUNE 2, 2011 10:50 AM PDT

Microsoft enhances its Bing Streetside View

by Lance Whitney

 Print  E-mail

 Recommend

8

 Tweet

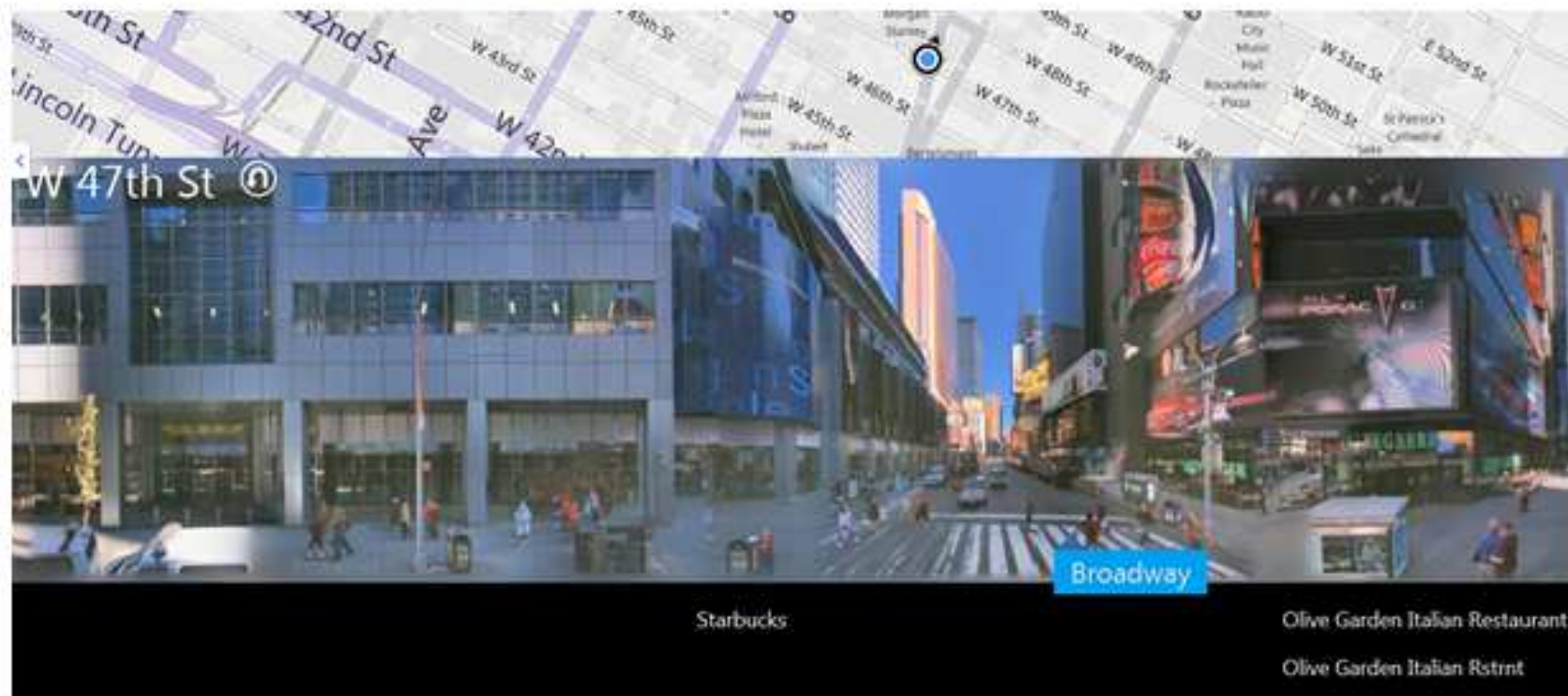
77

 +1

4

 Share

 9 comments



Taking a virtual tour of Broadway courtesy of Bing's revamped Streetside View.

(Credit: Screenshot by Lance Whitney/CNET)

Trying to find a specific location using [Bing Streetside View](#) is potentially a bit easier now, thanks to a few new tweaks from [Microsoft](#).

http://news.cnet.com/8301-10805_3-20068331-75/microsoft-enhances-its-bing-streetside-view/



Maps

Welcome to Bing Maps

Enfield, England



83°F

Data provided by Foreca



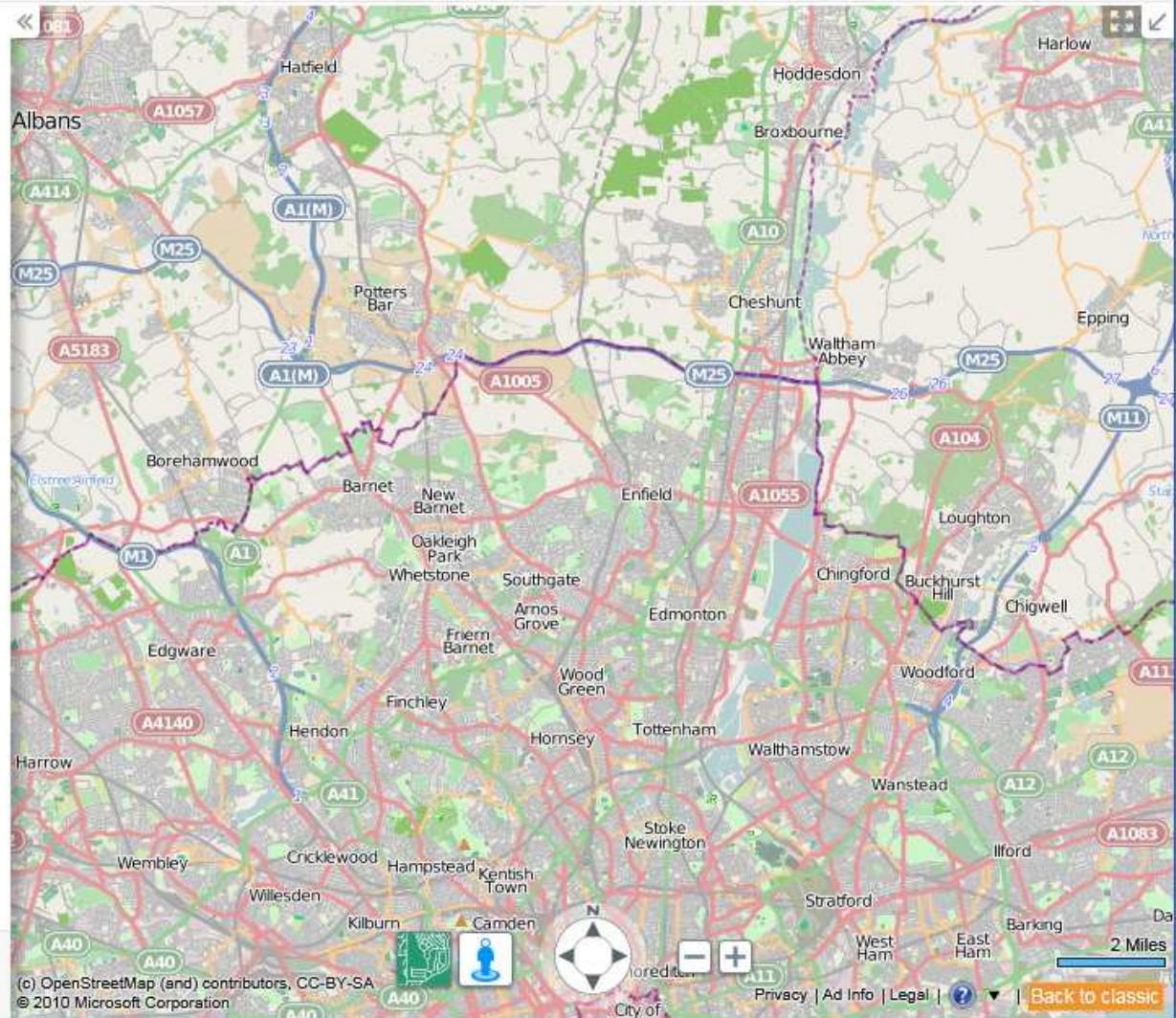
DIRECTIONS



Get help planning the best route.

EXPLORE

- What's nearby
- Restaurants
- Traffic
- Hotels



06

Magishop Frontdoor is now live

Jun 2011

0 comments

Reposted from [here](#) A few months ago an experimental service to automatically find roads and other features in aerial imagery was launched. Today we're adding to that a service to help improve local search results.

The **frontdoor app** allows anyone on the web to help improve our address location results. The site allows you to drag a pin from where we think an address currently is to the front door of the property. You do this using our aerial imagery. Not every house is easy to see but many are very obvious.

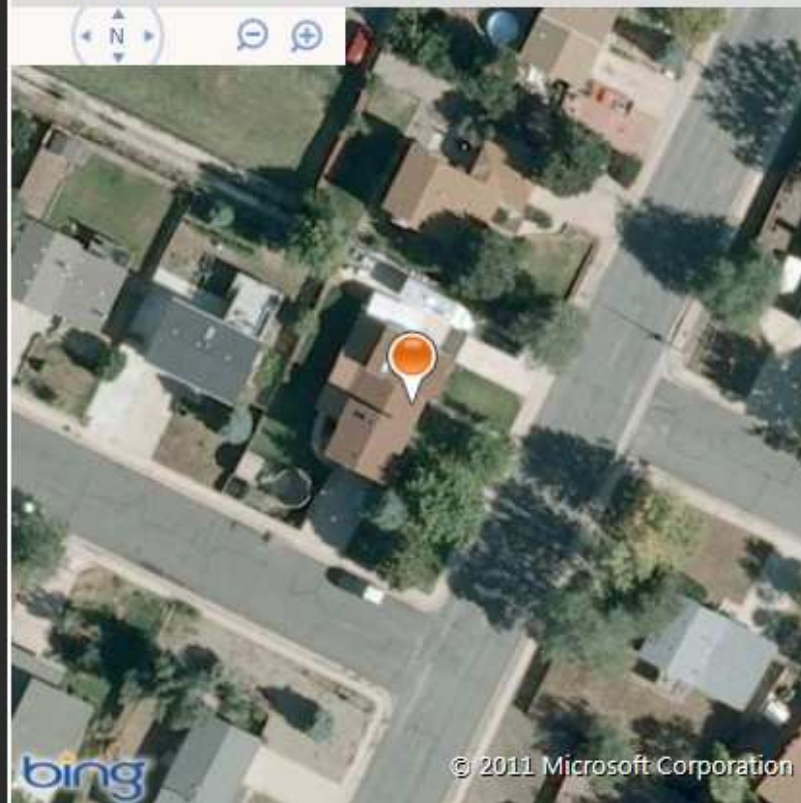


stevecoast

Viewed 676 times

Favorited 0 times

Look for the **nearest house** to the pin on the map, then drag the pin to the **front door of that house**.

[Skip this one...](#)

(Image blurry? No house? Already good?)

<http://blog.stevecoast.com/magishop-frontdoor-is-now-live>

MapQuest Opens Up – in the UK

Jul 9, 2010



Ant · Posted in: [Events](#)

As I write, we are in the final few days of work left to us on the new Beta site open.mapquest.co.uk. It's an experimental site that uses the free open source [OpenStreetMap](#) data, as well as various open source tools, software and utilities to bring it all together. We then added some of our own special sauce – our best-in-class routing algorithms, and our new user interface (a full experience of which can be found at new.mapquest.com).

“We believe that open source is ultimately the future for AOL’s local and mapping applications. And we’re very excited about supporting OpenStreetMap, which powers the maps behind Patch, our local news and information platform. We believe community generated maps that are of high quality and accuracy will end up ultimately being the better mapping product for users. Allowing users to improve the areas they know and care about like streets in their neighborhood, in addition to hiking trails, parks and bike paths, we believe will lead to the best mapping experience for all users.”

<http://devblog.mapquest.com/2010/07/09/mapquest-opens-up-uk/>

A110

14 mins / 11.26 kilometres

A1005

14 mins / 18.58 kilometres

Or you can adjust your route by **Dragging the Route Line**

Driving Directions



Enfield Chase Station Car Park

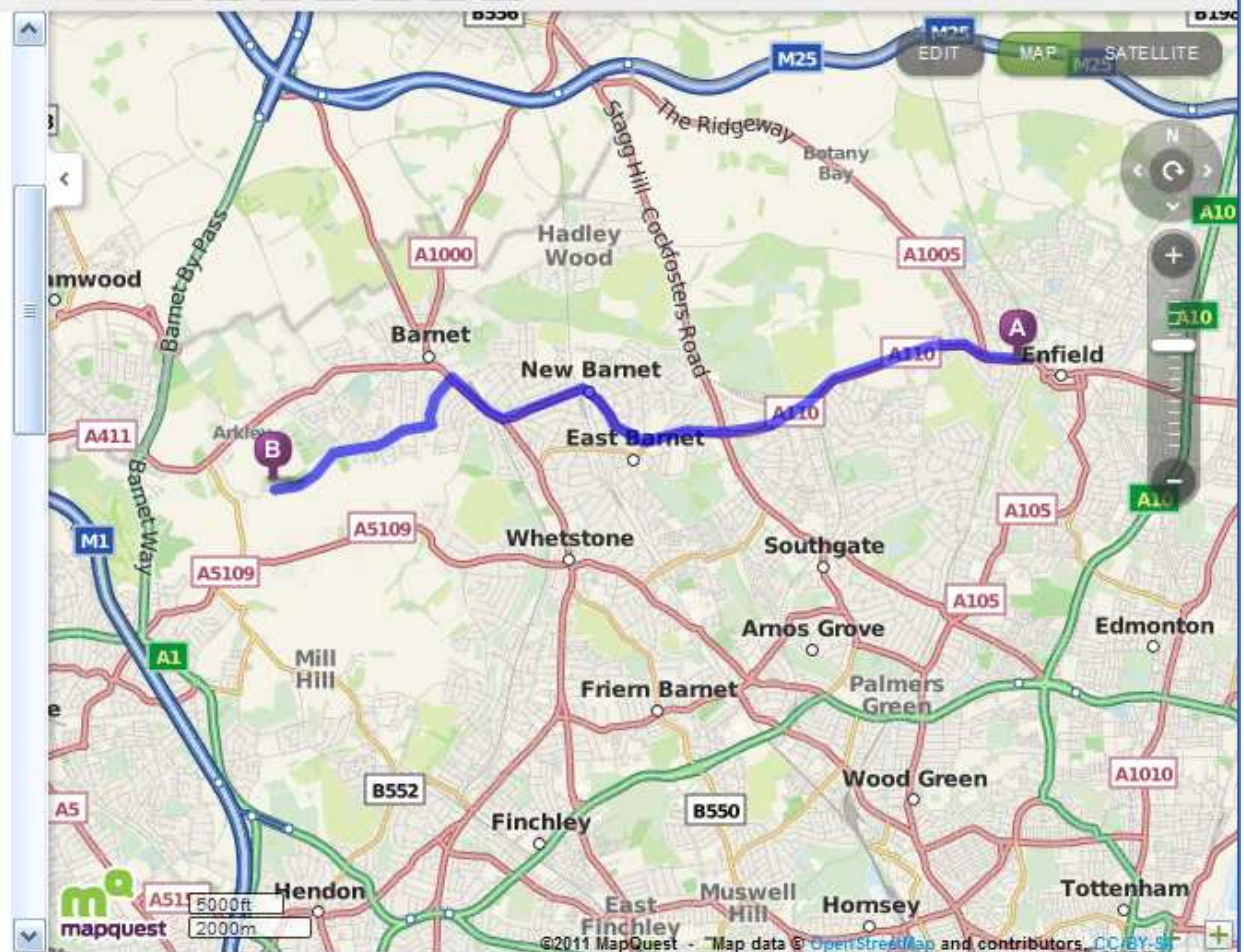
Windmill Hill, London Borough of Enfield, England
N21

[Edit this Location](#)

[Report an Error](#)

[Add a Note](#) [Search Nearby](#) [Zoom](#)

-  1. Set off going WEST on A110/Windmill Hill towards Florence Avenue. Continue to follow A110. 4.1 km
-  2. Enter next roundabout and take the 2nd exit onto A110. 1.5 km
-  3. Turn RIGHT onto A110/East Barnet Road. Continue to follow A110. 1.7 km



Esri Releases ArcGIS Editor for OpenStreetMap

New Tool Helps ArcGIS Users Become Active Contributors to Wiki World Map

July 6, 2010

Redlands, California—Esri has released a new, no-cost add-on for ArcGIS 10 that allows ArcGIS users to contribute data, using the editing capabilities of ArcGIS Desktop, to [OpenStreetMap](#). Volunteered geographic information (VGI), such as that available from OpenStreetMap, is playing an increasingly significant role in emergency response during crises like the oil spill disaster in the Gulf of Mexico. With this new, free and open source tool, ArcGIS Desktop users will be able to more easily contribute to the growing OpenStreetMap community.

The add-on allows ArcGIS users to download data from OpenStreetMap, store it locally in a geodatabase, and use the advanced editing environment of ArcGIS Desktop 10 to create, modify, or delete data. Once the edits are complete, the changes can be posted back to OpenStreetMap and made available to the OpenStreetMap community.

More details about the tool will be released over time, including access to the source code and enhanced documentation.

To download ArcGIS Editor for OpenStreetMap or to provide feedback about the tool, visit the project's Web site at www.esri.com/osm-editor.

http://vimeo.com/15607795?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed:+Esri-News+%28ESRI.com+-+News%29

Best of OSM

<http://bestofosm.org/>

Best of OpenStreetMap
Examples of excellent mapping and other interesting places in OpenStreetMap.

Click on  below to choose a different base map

☒  Best of OSM
☒  OSM History
☒  Data Imports
☒  Interesting Places

[KML](#)
[KML](#)
[KML](#)
[KML](#)

Know of some well mapped place that should be on this map? [Tell us!](#) - [Credits/Info](#)

zoom=2 [Permalink](#)

Data/Maps Copyright 2011 [Geofabrik GmbH](#) and [OpenStreetMap Contributors](#) | License: [Creative Commons BY-SA 2.0](#) | [Contact](#)

Services Based on OSM http://wiki.openstreetmap.org/wiki/List_of_OSM_based_Services

Name, Link 	Genre 	Language 	Description 	free materials 	Image 
ÖPNVKarte [60] 	interaction	Deutsch	Map displaying routes of local public transportation (PSV) in Europe. (Since September there no longer updated)	?	
LatLon Public Transport Map 	interaction	English	Displays a worldwide overlay on mapnik showing public transport routes and stops	?	

Software

<http://wiki.openstreetmap.org/wiki/Software>



[Recent changes](#)
[Recent changes](#)
[Navigation](#)

Page [Discussion](#) [Read](#) [View source](#) [View history](#) 

[Find out more about OpenStreetMap's upcoming license change \(translations\) \(discussion\)](#)

Software

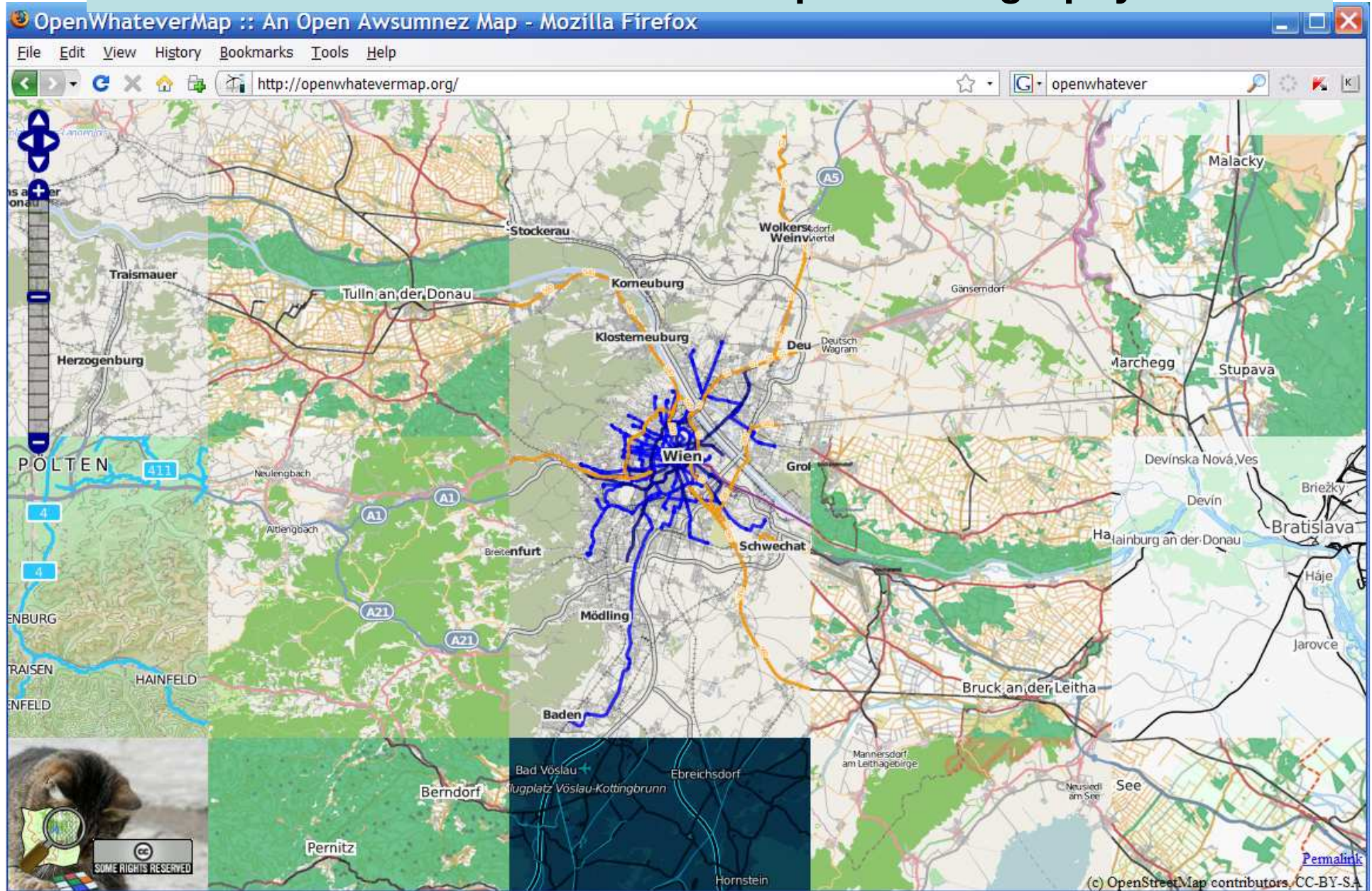
There is a wide variety of software available using OSM maps and services. For a complete list, see the [software category](#) or see the specific comparison tables for desktops and mobile devices below.

Desktop software

- Software for desktop computers Linux, Mac OS, Windows,...

Without OSM there wouldn't be superb cartography like this

Without OSM there wouldn't be superb cartography like this



<http://openwhatevermap.org/>

 @steev8

 steve8@mdx.ac.uk



Steve Chilton
Middlesex University

<http://www.soc.org.uk/neocartography/>

<http://soc2011.soc.org.uk/>