

Introduction to maps and geo-visualisation

Opportunities

- aggregation
- spatial ordering
- comparison
- pattern discovery

Tools

OpenStreetMap



OpenStreetMap
The Free Wiki World Map

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

OpenStreetMap is a free worldwide map, created by people like you.

The data is free to [download](#) and [use](#) under its [open license](#).
[Create a user account](#) to improve the map.

Help

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Community

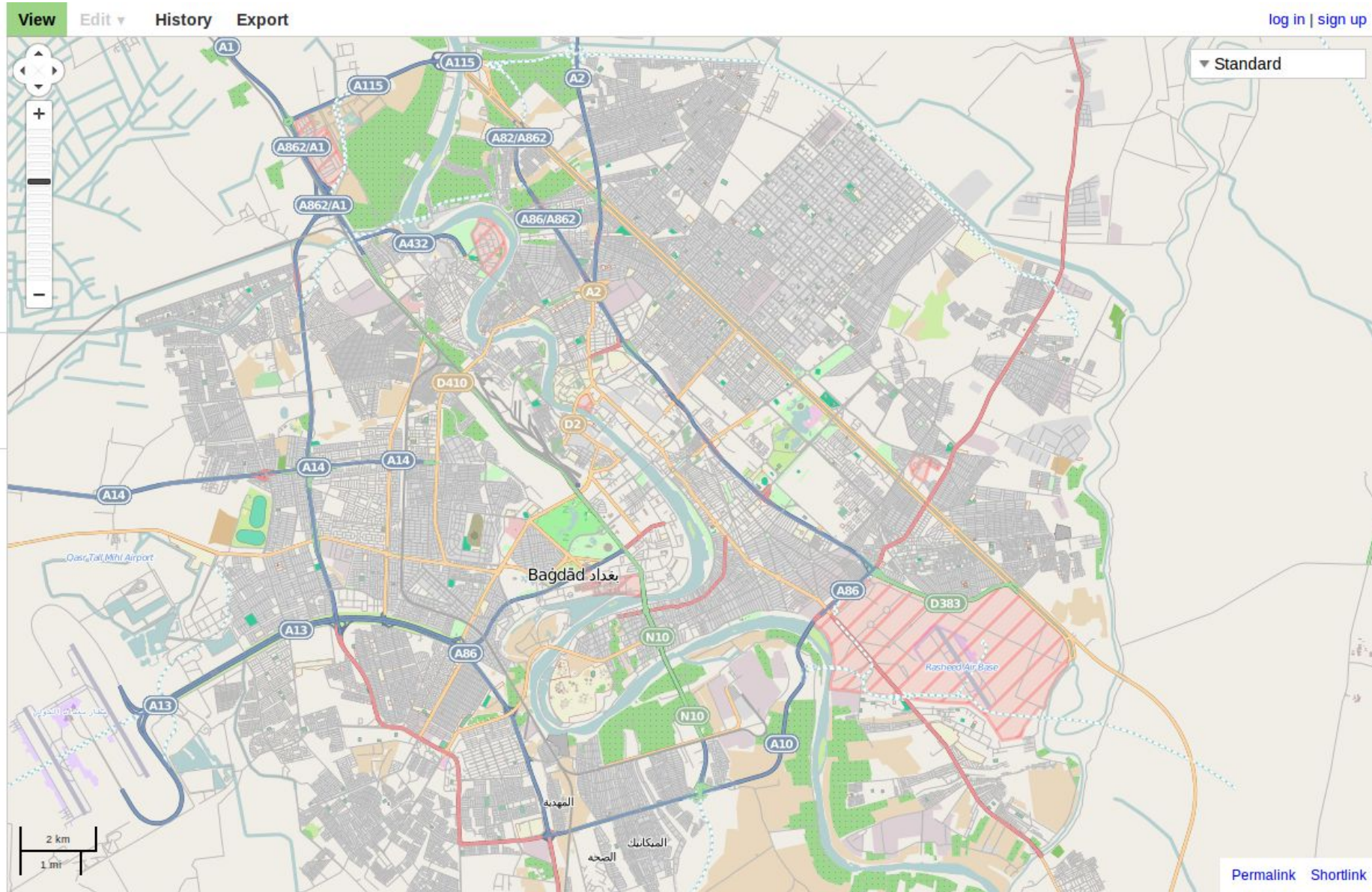
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GPS Traces

Map Key

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Tools

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View Edit History Export

Save Help Undo Redo

Add new points by dragging them onto the map

Shopping: Show all

Supermarket	Small Conve
Bakery	Alcohol shop

Food and Drink: Show all

Water fountai	Vending mac
Pub	Bar

Amenity: Show all

Fire station	Police Station
Library	Hospital

Tourism: Show all

Museum	Archaeologic
Battlefield	Castle

Accommodation: Show all

Hotel	Motel
Hostel	Guesthouse (f

Transport: Show all

Car Wash	Airport
Airport termin	Helipad

Water: Show all

Weir	Marina
Slipway	

Barrier: Show all

Bollard	Gate
---------	------

Welcome, ajantriks | home | inbox | logout

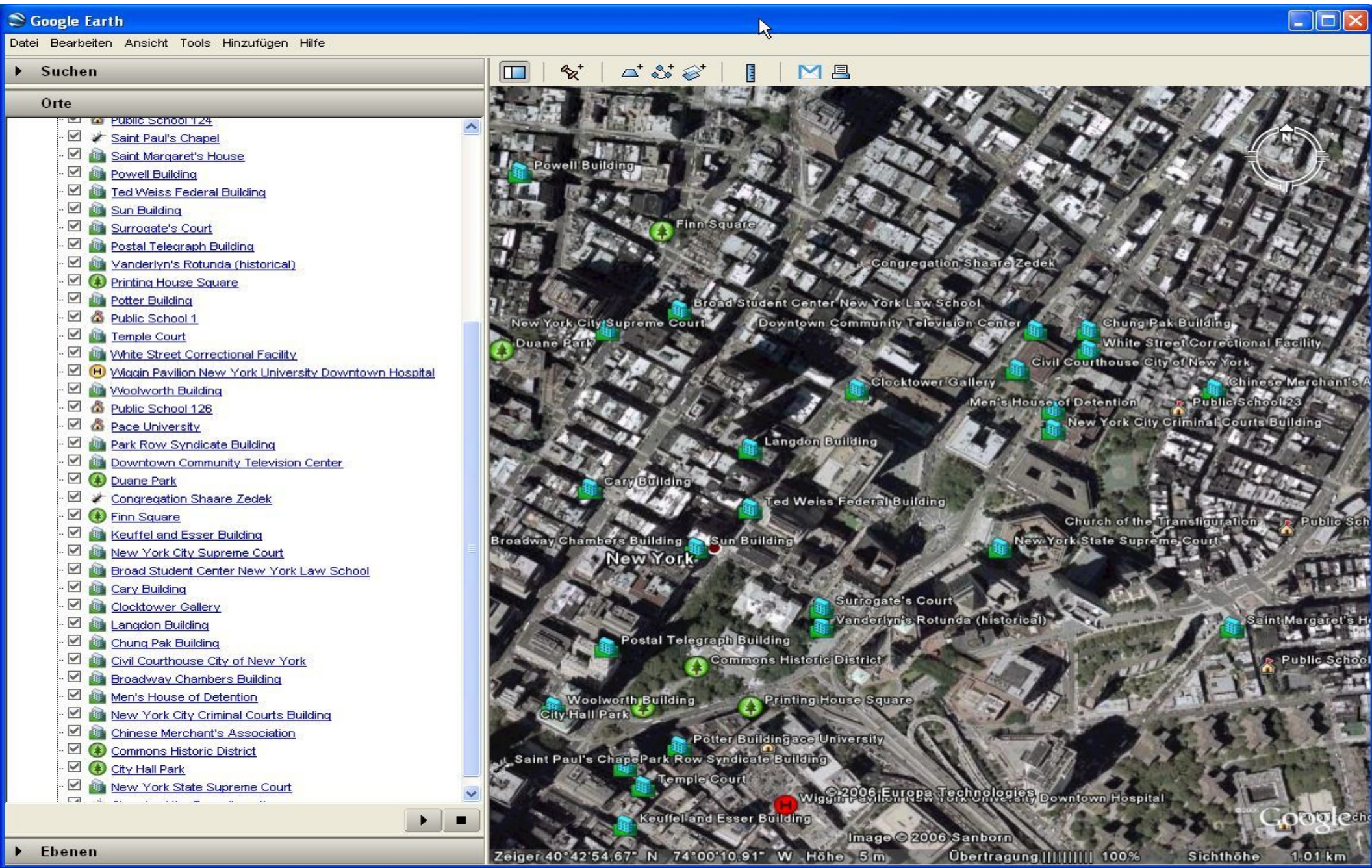
Background Map Style GPS Options



Click object to select Click blank area to start drawing way. Double-click blank area to create point. Drag blank area to move map.

Tools

Google Earth



Tools

Ushahidi



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What is the Ushahidi Platform



We built the Ushahidi platform as a tool to easily crowdsource information using multiple channels, including SMS, email, Twitter and the web.

Manage the River of Information



SwiftRiver is an open source platform that aims to democratize access to tools for filtering & making sense of real-time information.

Crowdsourcing In "the cloud"



When you need to get the Ushahidi platform up in 2 minutes to crowdsource information, Crowdmap will do it for you. It's our hosted version of the Ushahidi platform.

Ushahidi is one of the few social enterprises that has, in just a few short years of existence, dramatically changed

Tools

Ushahidi - Crowdmap



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Crowdmap allows you to...

- 1** Collect information from cell phones, news and the web.
- 2** Aggregate that information into a single platform.
- 3** Visualize it on a map and timeline.

Nothing to install,
minimal
configuration.

Sign Up For Free

Search for Existing Maps

Search by keyword:

Search

[Want to make your map searchable?](#)

Search for maps by keyword above.

More Popular Maps

...

[Expand Window](#)

What Exactly Is Crowdmap?



Crowdmap is designed and built by the people behind Ushahidi, a platform that was originally built to crowdsource crisis information. As the platform has

evolved, so have its uses. Crowdmap allows you to set up your own map of Ushahidi without having to install it on your own web server.

Tools

GRASS

GRASS GIS Map Display: 0 - Location: nc_spm_06

GRASS GIS Layer Manager - nc.grc

Display 0

- ☐ soils_wake@PERMANENT 40
- ☐ roadsmajor@PERMANENT 100
- ☒ slope@PERMANENT 100

GRASS GIS Attribute Table Manager - vector map layer <roadsmajor@PERMANENT>

Layer 1

Attribute data - right-click to edit/manage records

cat	MAJORRDS_	ROAD_NAME	MULTILAN	PROPYEAR	OBJECTID	SHAPE_LEN
10	10.0	NC-98	no	0	10	8446.822876
11	11.0	NC-98	no	0	11	14876.323626
12	12.0	NC-98	no	0	12	11610.268716
13	13.0		no	0	13	11828.121704
14	14.0		no	0	14	5524.875869
15	15.0	NC-98	no	0	15	4739.53603
16	16.0	NC-96	no	0	16	8586.517385
17	17.0		no	0	17	12073.33628
18	18.0		no	0	18	10178.42291
19	19.0		no	0	19	4375.530882
20	20.0		no	0	20	6491.037831
21	21.0		no	2025	21	9781.033301
22	22.0		yes	0	22	12315.177857

SQL Query

☒ Simple ☐ Advanced

Display selected
Extract selected
Reload

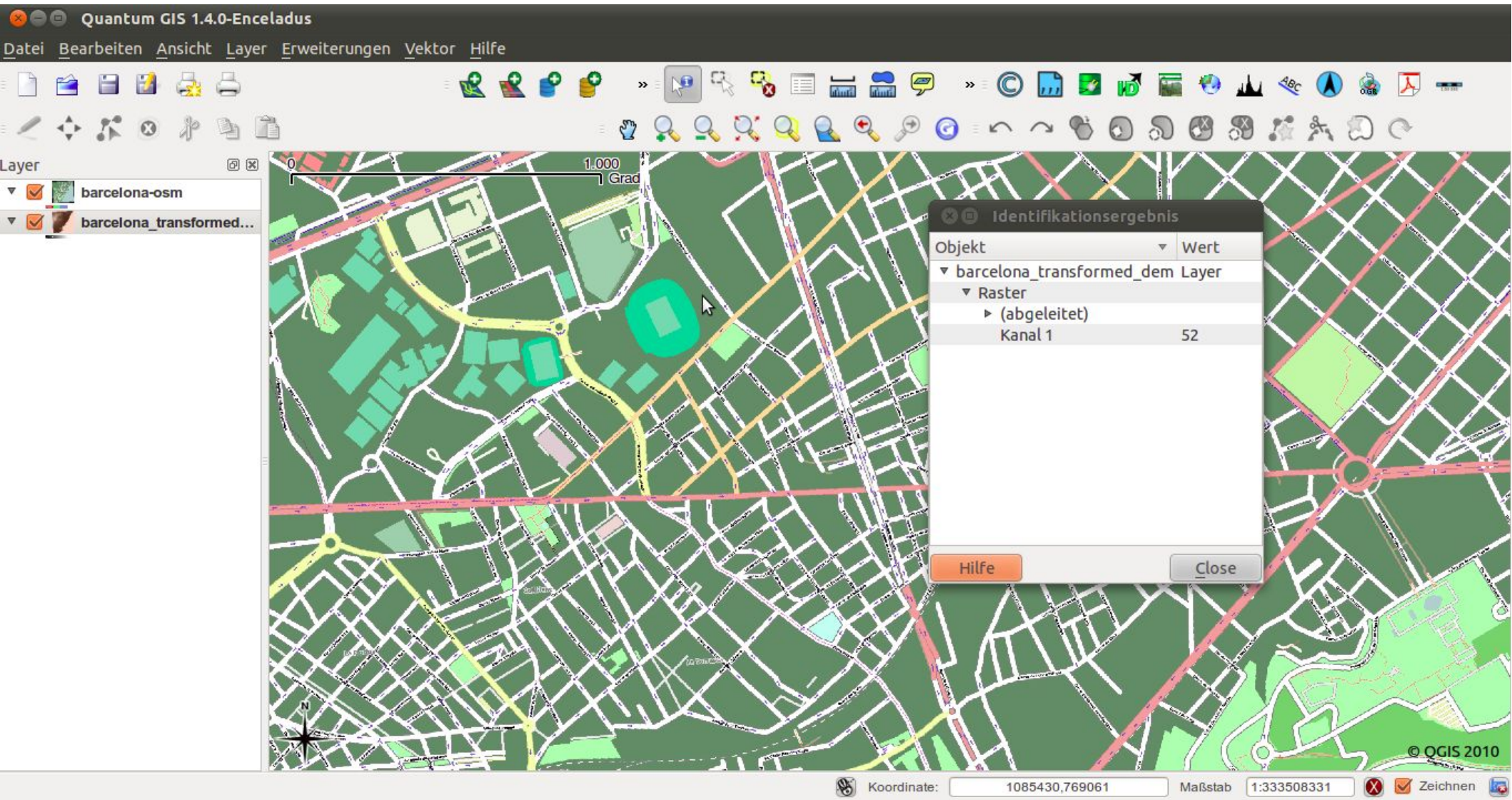
Browse data | Manage tables | Manage layers | Settings

Quit Apply

640595.27,220432.01 Coordinates

Tools

Quantum GIS



Tools

TileMill

The screenshot displays the TileMill application window. The top bar shows the title 'TileMill' and a browser address bar with 'localhost:8889/#!/project/geography-class'. Below the browser bar, there's a navigation bar with 'TileMill' and 'Geography Class' tabs, and buttons for 'Save' and 'Export'. The main area is split into two panes. The left pane shows a world map with country borders and names. A zoom control is visible on the left side of the map. The right pane is a code editor showing the 'style.mss' file. The code defines a 'Geography Class' style, sets the URL to 'mac.softpedia.com', and includes a detailed comment about the map's rendering and interaction features. A list of layers is visible on the bottom left of the map pane.

TileMill

localhost:8889/#!/project/geography-class

TileMill Geography Class Save Export

Zoom 3

style.mss labels.mss rainbow.mss

```
1 /*****
2
3 'Geography Class'
4 =====
5
6 mac.softpedia.com
7
8 Note that this map doing some rather complex things thus
9 slowish rendering should not be surprising. A pre-rendered
10 demo is online at <http://mapbox.com/tileset/geography-class>
11
12 Hover Interaction & Embedded Data
13 -----
14
15 When you move your cursor around the map you should see the
16 name and flag of the country you are hovering over appear
17 in the top left. You can pull any attributes from a data
18 layer to form tooltips like this. Here, we are pulling a
19 text attribute and a base64-encoded PNG image from a GeoJSON
20 file of country polygons. Click on the settings wrench at the
21 top right, then on the 'Interaction' tab to see how this was
22 set up.
23
24 Layers overview
25 -----
26
```

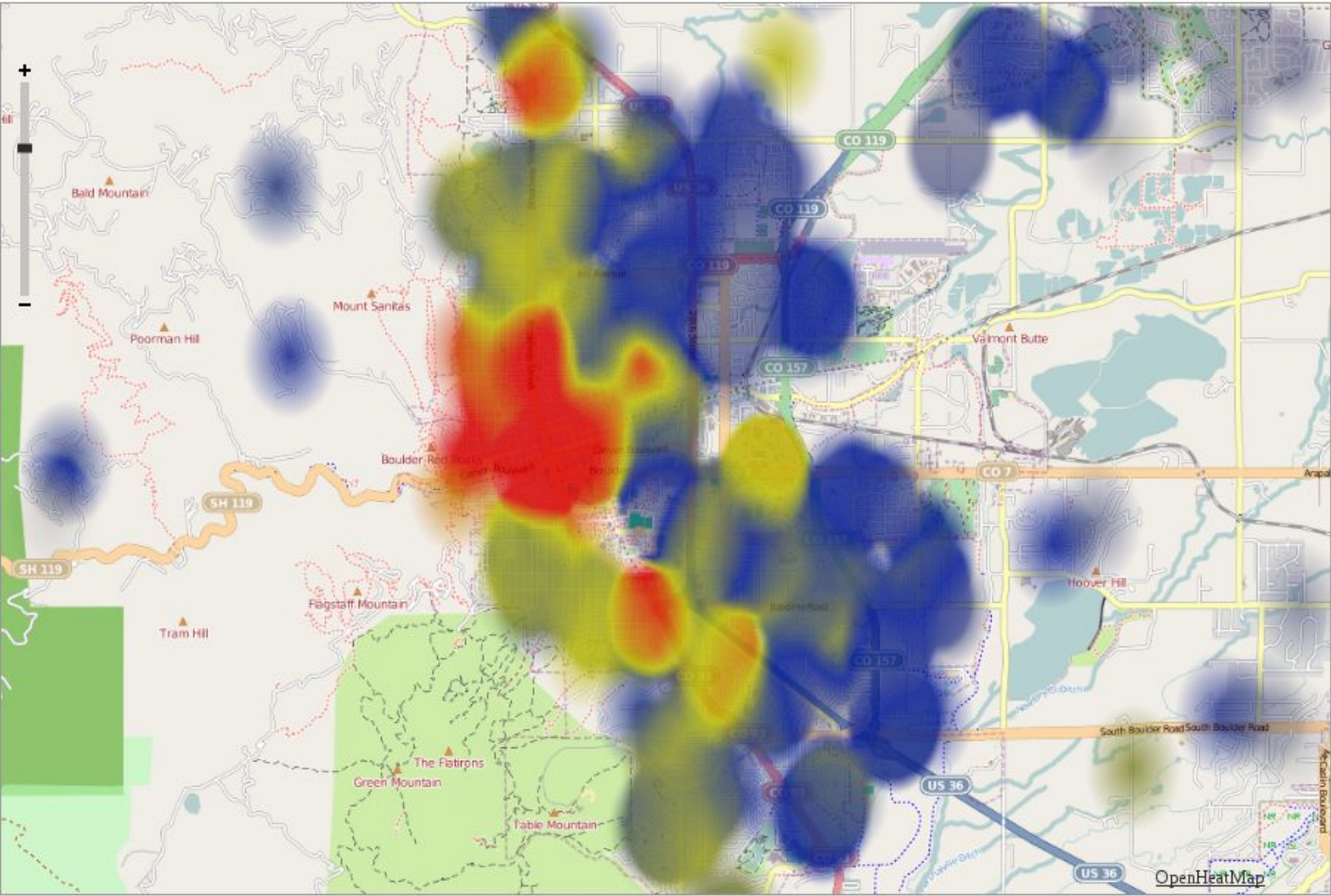
#country-interaction
#paper
#cities
#country-name
#geo-lines
#glacier
#admin-0-line-land.border.country
#admin-0-line-disputed.border.disputed
★ country capital city

Tools

OpenHeatMap

Boulder Real Estate

OPENHEATMAP



\$ Per Square Foot



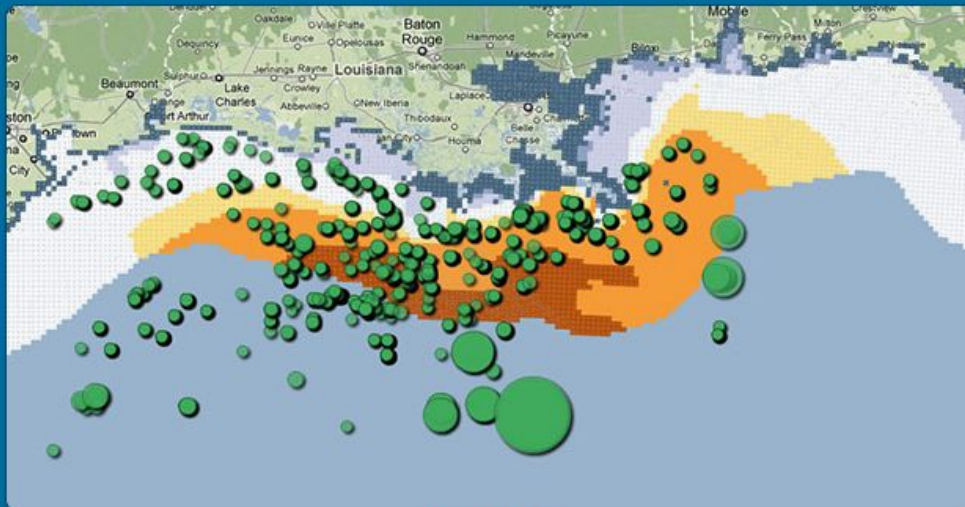
Tools

GeoCommons



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Search



○○●○○○

CREATE COMPELLING MAPS THAT MAKE A DIFFERENCE

GeoCommons enables everyone to find, use and share geographic data and maps. Easily create rich interactive visualizations to solve problems without any experience using traditional mapping tools.

Sign up for Free

or [Learn More](#)

THE
HUFFINGTON
POST

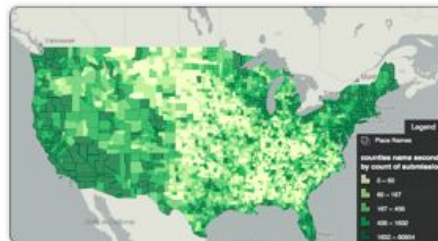


powered by **geoIQ** Used by Organizations Worldwide
Built for the Enterprise

Featured Maps



High Park Fire - Colorado



Map of eBird Checklists by County



SyriaTracker Data from Crowdmap.com

Tools

OpenLayers

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OpenLayers: Free Maps for the Web

Get OpenLayers Now!

- [2.12 \(Stable\): .tar.gz | .zip](#)
- [2.12 Release Notes](#)
- [API Documentation](#), [User documentation](#)
- See examples of OpenLayers Usage: [Release Examples \(2.12\)](#), [Development Examples](#)
- Fork us on [GitHub](#)

About...

OpenLayers makes it easy to put a dynamic map in any web page. It can display map tiles and markers loaded from any source. OpenLayers has been developed to further the use of geographic information of all kinds. OpenLayers is completely free, Open Source JavaScript, released under the [2-clause BSD License](#) (also known as the FreeBSD).

Supporting OpenLayers

OpenLayers is developed and supported by a number of organizations around the world. We are also looking for [sponsors](#) to help support the community. If you are in a position where you want to support the development of OpenLayers, but do not have development resources to share, you may be interested in supporting through our sponsorship program.

For Developers!

OpenLayers is a pure JavaScript library for displaying map data in most modern web browsers, with no server-side dependencies. OpenLayers implements a [JavaScript API](#) for building rich web-based geographic applications, similar to the Google Maps and MSN Virtual Earth APIs, with one important difference -- OpenLayers is Free Software, developed for and by the Open Source software community.

Getting the Code

Releases are made available on the [downloads](#) page. The code is also available in our [Git repository](#). With a clone of the Git repository, you can keep up with the latest and contribute patches to OpenLayers.

If you don't want to download the code, you can still try some of the [hosted examples](#). If you're familiar with JavaScript, try viewing the source of the examples to get an idea how the OpenLayers library is used.



Put an open map widget in any web page!

Books about OpenLayers



OpenLayers Cookbook

Antonio Santiago Perez

Available in Print and eBook formats from [Packt Publishing](#).



OpenLayers 2.10 Beginner's Guide

Erik Hazzard

Available in Print and eBook formats from [Packt Publishing](#).



OpenLayers (in German)

Till Adams & Marc Jansen

Tools

Leaflet



Star < 3,019

Fork < 487

Tweet < 1,146

Follow < 2,861 followers

An Open-Source JavaScript Library for Mobile-Friendly Interactive Maps by [CloudMade](#)

Overview

Features

Tutorials

API

Download

Plugins

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GitHub

Twitter

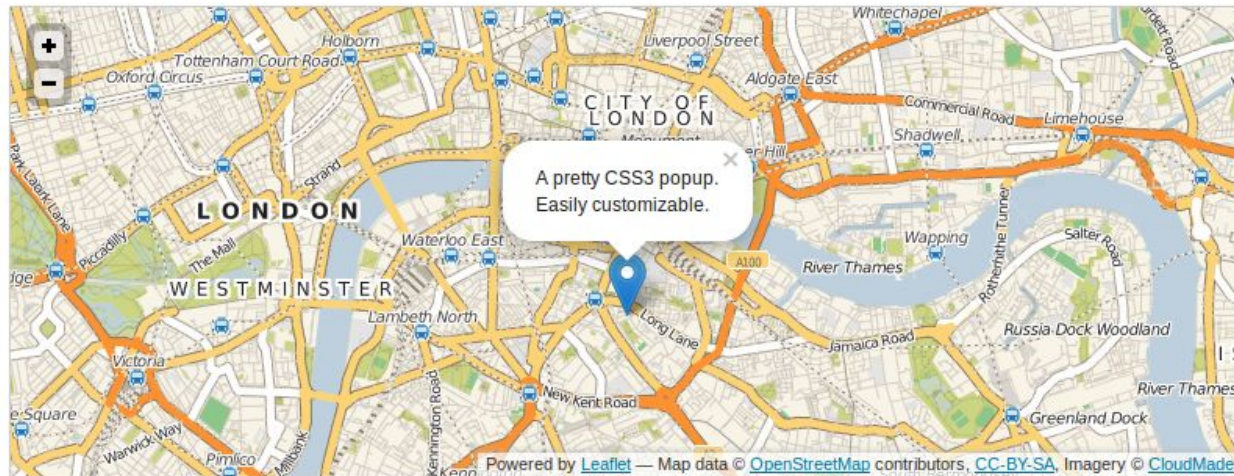
Forum

July 30, 2012 — Leaflet 0.4 Released with Lots of Exciting Improvements! — [Read More in the Blog](#)

Leaflet is a modern open-source JavaScript library for mobile-friendly interactive maps. It is developed by [Vladimir Agafonkin](#) of [CloudMade](#) with a team of dedicated [contributors](#). Weighing just about 27 KB of gzipped JS code, it still has all the [features](#) most developers ever need for online maps, while providing a smooth, pleasant user experience.

It is built from the ground up to work efficiently on both desktop and mobile platforms like iOS and Android, taking advantage of HTML5 and CSS3 on modern browsers. The focus is on usability, performance, small size, [A-grade](#) browser support and [a simple API](#) with convention over configuration. The OOP-based [code of the library](#) is designed to be modular, extensible and very easy to understand.

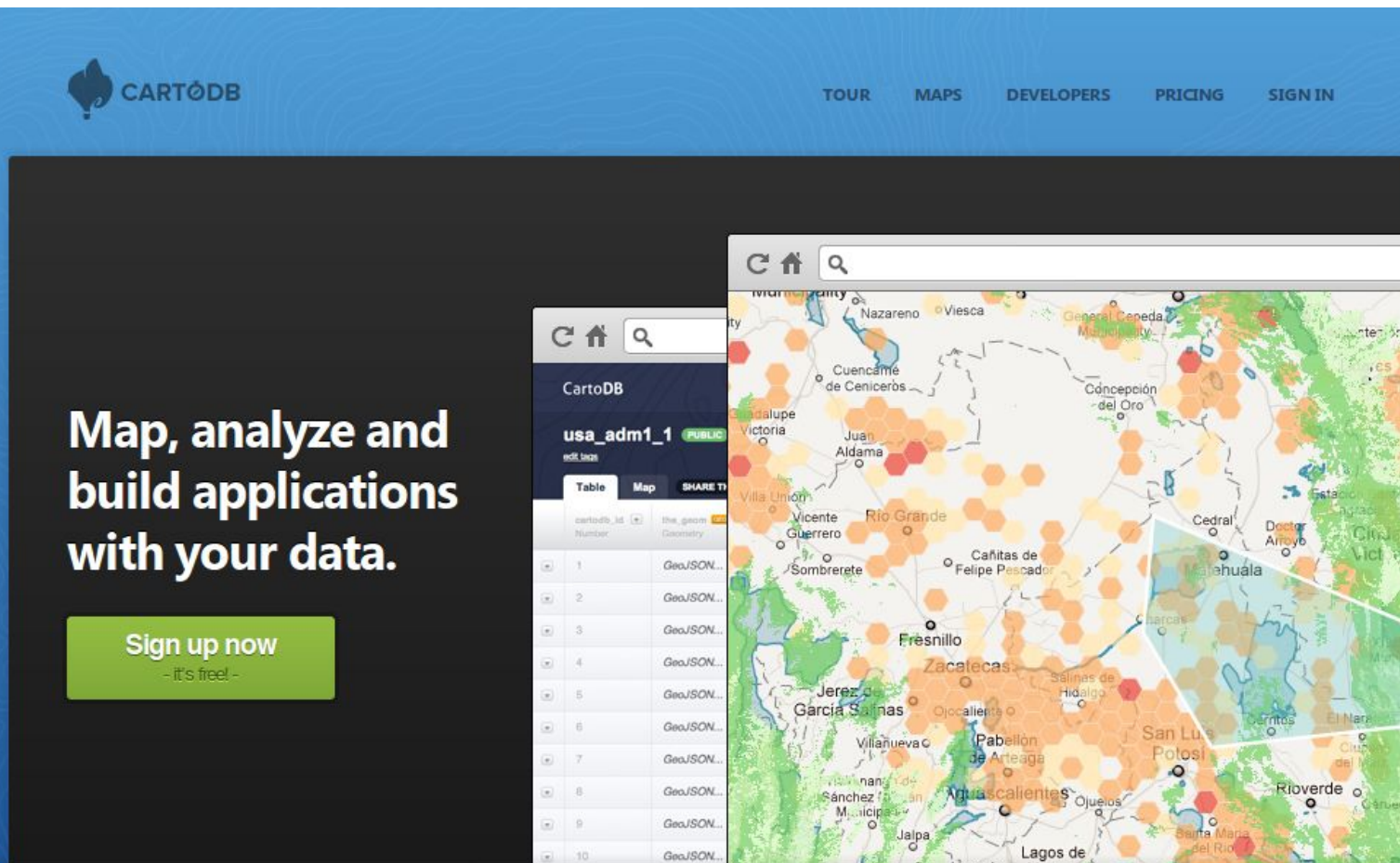
Used by: Flickr foursquare Wikimedia Meetup WSJ Geocaching StreetEasy Nestoria City-Data Topix Chartbeat GIS Cloud CityMaps ...



Fork me on GitHub

Tools

CartoDB

The banner features the CartoDB logo in the top left corner. Navigation links for TOUR, MAPS, DEVELOPERS, PRICING, and SIGN IN are in the top right. The main content area has a dark background with the text 'Map, analyze and build applications with your data.' and a green 'Sign up now - it's free!' button. On the right, a screenshot of the CartoDB interface shows a map of Mexico with orange hexagonal data points. A sidebar on the left of the screenshot displays a table with 10 rows, each containing a 'cartodb_id' and a 'the_geom' column with 'GeoJSON...' data.

Map, analyze and build applications with your data.

Sign up now
- it's free! -

CartoDB

usa_adm1_1 (PUBLIC)

Table Map SHARE

cartodb_id	the_geom
1	GeoJSON...
2	GeoJSON...
3	GeoJSON...
4	GeoJSON...
5	GeoJSON...
6	GeoJSON...
7	GeoJSON...
8	GeoJSON...
9	GeoJSON...
10	GeoJSON...

Create dynamic maps with ease.

Upload and visualize your data within minutes, and share your stories on the internet.

Analyze your data with the power of PostGIS.

Use SQL based spatial operations to tell stories and generate new insights and powerful analysis.

Build location aware applications.

Our rich APIs reduce development time for building web and mobile applications.