

Trends of the GeoWeb

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O'Reilly Radar

hello!

why do they care about Where?

The web has taken off in the past couple of years and has been a large part of the Web 2.0 movement. it has all the hallmarks of Web 2.0

- it's data driven and its that data that helps derive value
- it's got amazing interfaces - in fact Google Maps was the first large scale Ajax application
- it's an eternal beta; the interface, the data, are always changing always being made better
- an it's made better the more people that use it and contribute to it. on some applications you can find the best restaurant, the best cafe, the best bathroom

but in many ways the geoweb is separate from web 2.0

for one its an existing industry. it just happens to be moving to the web

2) there's real money out there. people know that they will pay for this data and service.

3) it's real. the industry helps you relate to the 'real world' more accurately

-

Trends

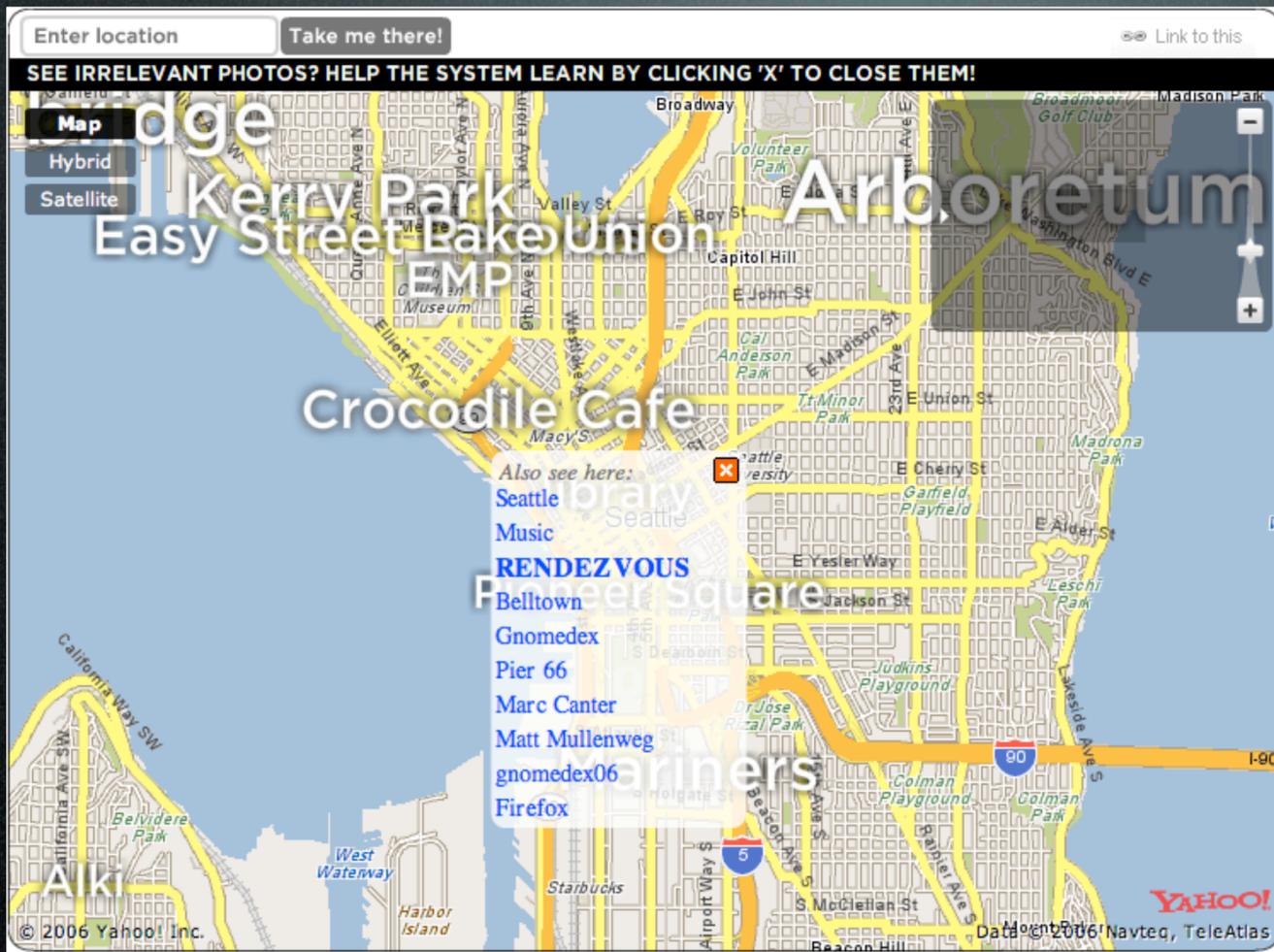
- Maps, Maps Everywhere
- The Web as the GeoIndex
- Crowdsourced Data Collection

Maps, Maps Everywhere

The Google Maps API and the mashups that forced it.
have caused people to expect maps.

B/c of google maps API any site can have maps.

B/c of the brand new embeddable google maps anyone can put maps on their site.



Syncing coordinates from GPX tracks into the Exif header using software that compares time stamps. The software programs RoboPhoto, RoboGEO, Quakemap, and TopoFusion, as well as the web-based services GeoSnapper and Thingster, can match up photos in this way. [1] For the Mac, PhotoGPSEditor will do the trick. For scripts in python, check out <http://sethoscope.net/geophoto/>

housing maps – paul rademacher, now with google

chicago crime – adrian holovaty, wapo, django

bus monster – chros smoak

If your users aren't surprising you by the ways they build on your product, you're doing something wrong.

If they are surprising you, learn quickly from them, and support them in what they do.

all started in 2005, then launched at where and deflated the commercial industry

876 mashups on programmableweb; 44% all time; 32% recently

maps + geocoder + any_other_type of data

devless apps – openkapow, dapper

ning

patial

processing

geopress + mapufacture

greasemonkey script <http://code.highearthorbit.com/greaseroute/>

Greasemonkey is a Firefox extension which lets you to add bits of DHTML ("user scripts") to any web page to change its behavior. In much the same way that user CSS lets you take control of a web page's style, user scripts let you easily control any aspect of a web page's design or interaction.

<http://userscripts.org/>

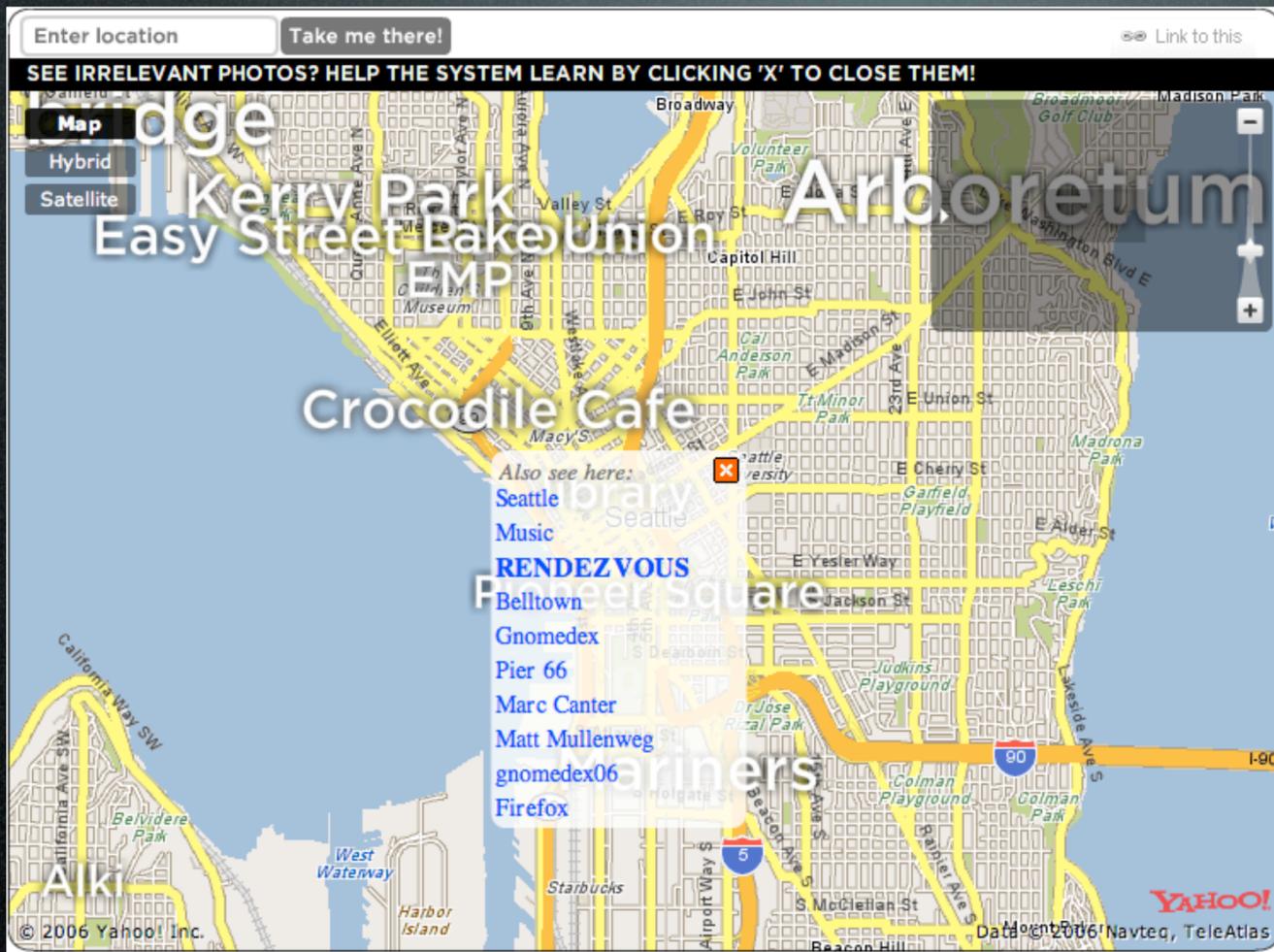
aggregators:

mapufacture

flickr

plugins:

geopress on wordpress



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1. Customize

Map size

- Small
- Medium
- Large
- Custom

Width Height

2. Preview



[View Larger Map](#)

3. Copy and paste this HTML to embed in your website

```
<iframe width="300" height="300" frameborder="0"
scrolling="no" marginheight="0" marginwidth="0"
src="http://maps.google.com/maps/mm?ie=UTF8&hl=e
/><small><a
href="http://maps.google.com/maps/mm?ie=UTF8&hl=
style="color:#0000FF;text-align:left">View Larger
Map</a></small>
```



Mashups require a step that The trick with embedded maps is that you can make your map and then share it on your site.
 No URL is needed
 nothing but access to the source code of the page
 analogous to youtube, in fact, entitled YouTube-style
 this feature is so easy that anyone can now have a map on their site
 its very democratizing



mapstraction

openlayers

About...

While Mapstraction is a mapping abstraction library that provides a simple interface to a large number of mapping APIs, the OpenLayers project is pushing the envelope with new and advanced functionality for dynamic maps.

OpenLayers (<http://openlayers.org>) is a free and open source JavaScript mapping library that provides developers with a large toolkit not found in other modern libraries. It was spun out from MetaCarta labs and powers a number of their other open projects, such as GutenKarte (<http://gutenkarte.org>).

Some of the advanced features include:

- Multiple layers that can each be turned off or on
- WMS tiles from map servers
- Layers for Google, Virtual Earth, Yahoo!, and MultiMap
- Bounding-box zoom

OpenLayers makes it easy to put a dynamic map in any web page. It can display map tiles and markers loaded from any source. MetaCarta developed the initial version of OpenLayers and gave it to the public to further the use of geographic information of all kinds. OpenLayers is completely free, Open Source JavaScript, released under the BSD License.

Gutenkarte

Gutenkarte is a geographic text browser, intended to help readers explore the spatial component of classic works of literature. It is built atop MetaCarta's GeoParser API, and uses OpenLayers to display locations on a general map and on the 'browse' pages.

World Free Map

The World Free Map is a queryable version of the CIA Factbook. Clicking on a country will show information about it, from the population to the number of cell phones.

Mumbai Free Map

The Mumbai Free Map is an attempt to create an open-data base mapping initiative in Mumbai, India. It is part of the Free Map System, and contains raster and vector data to an incredibly detailed level. OpenLayers replaced MapBuilder as the primary mapping interface for the project in May of 2006.

Boston Free Map

The Boston Free Map uses data from MassGIS inside of an OpenLayers instance. It is designed to be used by applications in Massachusetts which are dedicated to free/open data, such as the Open Guide to Boston.

GSMLoc.org

GSMLoc.org is a cell stumbling site. It uses OpenLayers to power the maps which are the basis of displaying information to users on the site.

worldkit?

- * Ubiquitous use in the Flash Player and with RSS feeds.
- * Highly configurable look and feel. Can use images for marking annotations.
- * Integrates with weblogging tools, and any software producing RSS.
- * Displays photos within the map.
- * Zoom & Pan. Integrates with Zoomify for high resolution images, and WMS Sources.
- * Lines and Polygons. Time Navigation.
- * Accepts input for Collaborative Cartography & GeoWiki.
- * Annotations are categorizable. Javascript interface for GIS layer functionality.
- * GPS track routes.

Mikel Maron's worldKit (<http://worldkit.org>) is a free and open source Flash-based map that supports a variety of formats for easily mapping locations and feeds. It is different from the above mapping APIs that rely on JavaScript and an external source of mapping tiles and images. Using Flash for mapping provides better cross-browser support since functionality is provided by a standardized plugin. Flash is also good for mobile applications.

PlaceBase & DeCarta

placebase & decarta

these are two companies that create maps for the enterprise

they each had previous business models

decarta used to be telcontar; they made middleware that was used by google, yahoo, and ask. they are slowly being replaced. so they have found a new business – making maps. their API will allow you to have your own look and feel. your own style.

placebase is a young start-up in a similar position. they make maps pre-render the tiles.

they service those that need GIS work but can't dedicate a single person to be solely devoted to it.

this is a young industry and both of the companies are finding their feet.

What Does This Mean

- Your friends get a clue about GIS
- New markets for mapping companies

this is the part where your friends really get a clue about what you do.

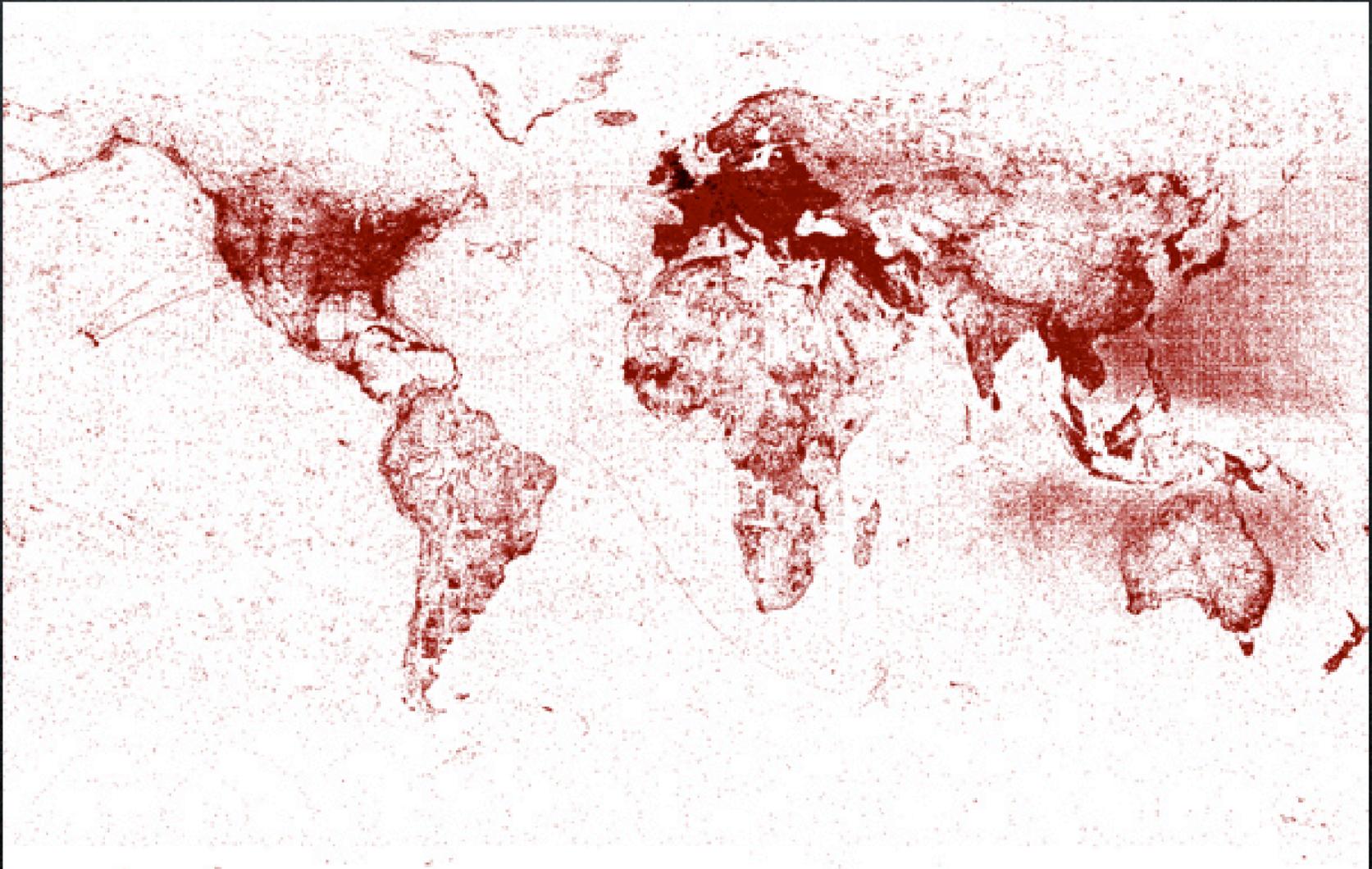
so what does this cause?

new companies to fill in the space for companies who want their own maps

wegeo
decarta
pushpin

The GeoIndex

because of maps being available everywhere
there is now more of a desire to mark up your pages



geoweb – all of the geo information found on the web today
in practical terms it's all of the geo webpages and files that have been indexed by google, ms, and other search engines and are searchable by geo terms

that's what makes up the geoindex and that is what is represented above.

GeoRSS

```
<feed xmlns="http://www.w3.org/2005/Atom"
      xmlns:georss="http://www.georss.org/
      georss"
      xmlns:gml="http://www.opengis.net/gml">
  <title>Dino's Mt. Washington trip</title>
  <link href="http://www.myisp.com/dbv/" />
  <updated>2005-12-13T18:30:02Z</updated>
  <author>
    <name>Dino Bravo</name>
  </author>
  <id>http://www.myisp.com/dbv/</id>
  <georss:where>
    <gml:LineString>
      <gml:posList>
        45.256 -110.45 46.46 -109.48 43.84
-109.86 45.8 -109.2
      </gml:posList>
    </gml:LineString>
  </georss:where>
```

GeoRSS (<http://georss.org>) is an extension to the common RSS (Really Simple Syndication) used on web sites to notify readers of new articles or updates. GeoRSS adds geographic coordinates and features to RSS and Atom items. GeoRSS comes in several flavors: W3C Geo, Simple, and GML. Simple was developed to speed the adoption and use of GeoRSS by providing an uncomplicated format that is sufficient for making points, lines, and polygons.

W3C Geo

KML

```
<?xml version="1.0" encoding="UTF-8"?>
<kml xmlns="http://earth.google.com/kml/2.0">
  <NetworkLink>
    <name>WikiMapia</name>
    <open>1</open>
    <description>WikiMapia is an online map
resource that combines Google Maps with a
Wiki system, allowing users to add
information (in the form of a note) to any
location on the globe. Visit
www.wikimapia.org for more details.</
description>
    <Url>
      <href>http://wikimapia.org/d/</href>
      <viewRefreshMode>onStop</viewRefreshMode>
      <viewRefreshTime>2</viewRefreshTime>
    </Url>
  </NetworkLink>
</kml>
```

google created. and becoming a standard

Another XML format is KML (Keyhole Markup Language) (<http://earth.google.com/kml>), which was developed by Keyhole Technologies and is now owned by Google. Keyhole created the KML file format, Google Earth's predecessor. Since acquiring Keyhole, Google greatly extended the use and capability of KML, which can now define three-dimensional geometry for creating geospecific buildings.

While you would probably never write KML yourself, many tools exist to generate KML from other file formats, or via a drawing program. One unique feature to KML is the ability to embed 3-D visualization models into the KML file. This is how users insert buildings, objects, and geographic annotations (Sticky Notes for maps) within their files

google maps accepts it

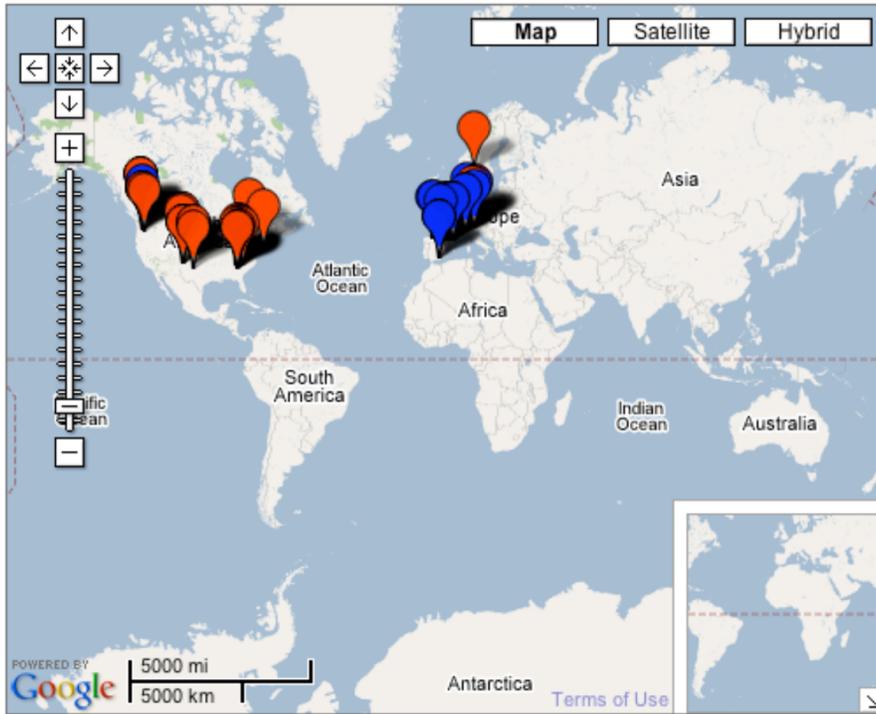


[Browse Maps](#)

[Create a Map](#)

[Browse Feeds](#)

[Search Feeds](#)



Snowboarding by *mikel*

[fullscreen](#)

Feeds in Map

-  [Platial Places With Tag "snowboard"](#) (67 items)
-  [snowboard tagged map - Tagzania](#) (21 items)

GeoAnotated Reuters News

Uses the geonames.org RSS-to-geoRSS webservice to add location information to Reuters newsfeed. The result is displayed using the Yahoo!Maps AJAX API (thanks to Pipes Location Extractor). It can be viewed there : <http://www.80n.dreamhosters.com/>

☆ [View Source](#) [Clone](#)

Use this Pipe

[MY YAHOO!](#) [Add to Google](#) [Get results by Email or Phone](#) [More options](#)

Map List 10 items



Author: [el80n](#)

Properties:

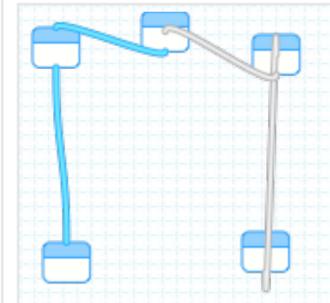
Published on **02/12/07**
47 runs
369 clones

Tags:

[news](#)
[geo](#)
[map](#)
[georss](#)

Sources:

[geonames.org](#)
[ws.geonames.org](#)



[View Source](#)

yahoo! pipes is a feed masher
you input the feeds and you can putput feeds, html, json, georss, kml
after a while tey added maps
this is geoannotated news



e.g., "10 market st, san francisco" or "hotels near lax"

sushi

Search Maps

Search the map

Find businesses

Get directions

Search Results

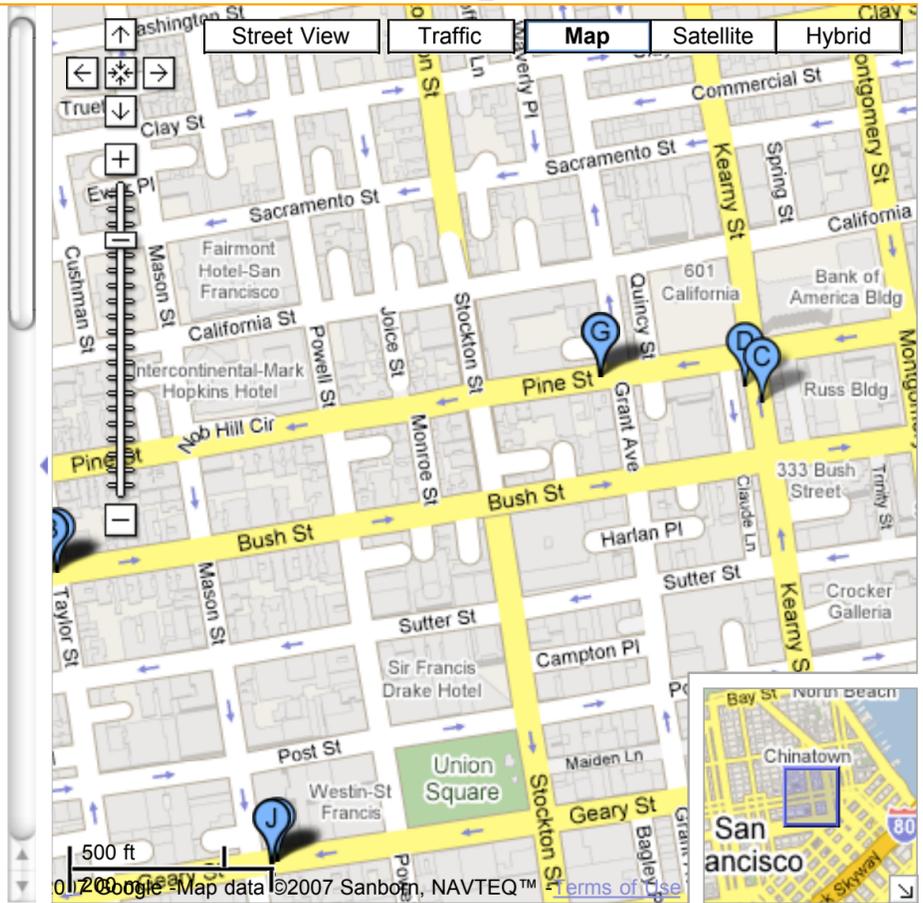
My Maps

Print Send Link to this page

User-created content **New!**

Results 1 - 10 of about 1,002 for **sushi** - [Modify search](#)

- A** [Sushi Rika](#)
http://www.sushirika.net/ 900 Bush St San Francisco, CA 94109 (415) 923-1141 ...
[SF Trip](#) - google.com
- B** [Sushi Rika](#)
900 Bush St San Francisco, CA 94109 (415) 923-1141 ...
[JavaOne 2007](#) - google.com
- C** [Sushi Bay](#)
355 Kearny St San Francisco, CA 94108 (415) 765-9909 under \$5 for lunch ...
[San Francisco](#) - google.com
- D** [Sushi Bay](#)
Cheap, filling Japanese bento boxes filled with teriaki, curry, chicken katsu and more. The daily special, for \$4.50 ...
[Cheap Eats](#) - google.com
- E** [Sushi Rock](#)
614 Pine St San Francisco, CA 94108 (415) 399-0882 ...
[Mom and Me SF](#) - google.com
- F** [Sushi Rika](#)





e.g., "10 market st, san francisco" or "hotels near lax"

sushi

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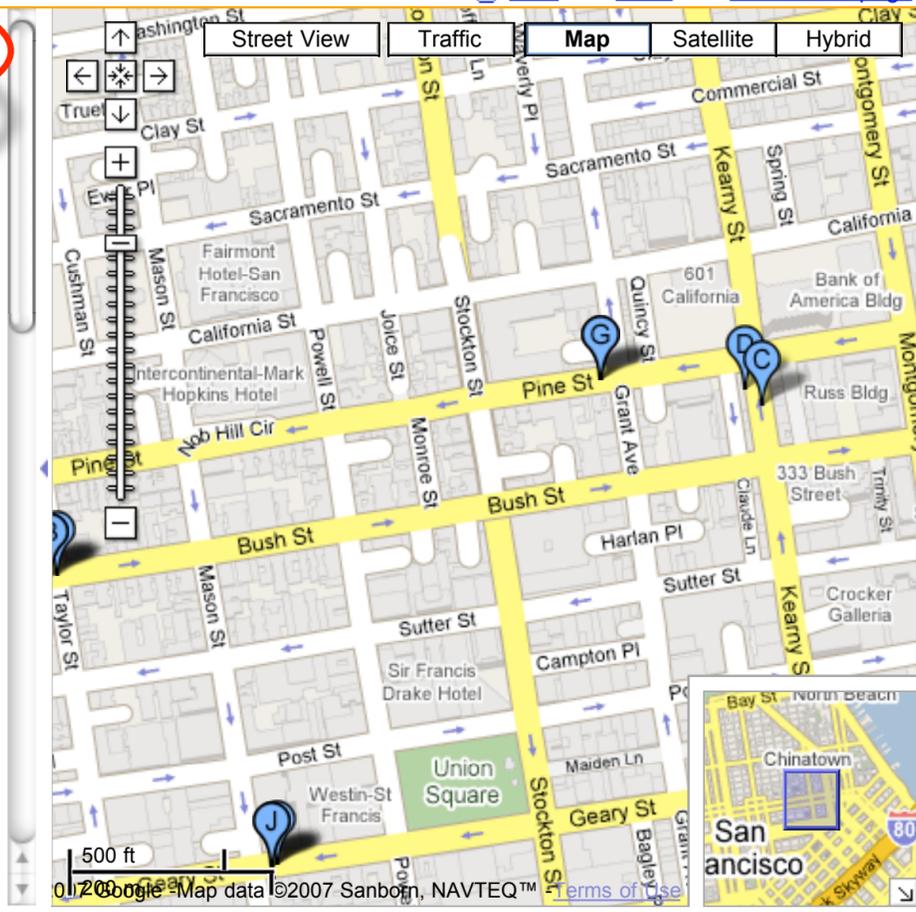
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Google Maps search bar with text "e.g., '10 market st. san francisco' or 'hotels near lax'" and "Search Maps" button.

- Search Results My Maps
- london
 - sf maps
 - neighborhood
 - expo
- Created by others
- Gas Prices by GasBuddy.com
 - Zürich Travel Time Visualization
 - Geotrends
 - Brady and Jen's London Adventure
 - Distance Measurement Tool

Gas Prices by GasBuddy.com

By: www.gasbuddy.com



Search

City, State or ZIP: 98122

Find Gas Prices

In the Search box above enter in the "City, State" or "ZIP" that you would like to see regular gasoline prices for, or simply navigate the map at the city level or closer and recently reported stations will appear as pins on the map.

Click on an individual pin for more details including the price, brand, address, and time posted.

\$3.09⁹ - Shell
 620 Denny Way
 Cross Street: Aurora Ave N
 Seattle, WA, 98103

Station Features:
 Regular Gas
 Midgrade Gas
 Premium Gas
 Convenience Store
 Restaurant
 Pay at Pump

Open 24 Hours

Last Updated: Mon 9:15 PM
 Thanks To: ratmble

[Find low gas prices at GasBuddy.com](#)

Get directions: [To here](#) - [From here](#)
[Search nearby](#) - [Save to My Maps](#)

What Does It Mean?

- Publish Your Data to the web
 - Use Creative Commons
- Use easy-to-read formats
 - KML, GeoRSS, MicroFormats
- Make it searchable

if you want your data to count publish it to the web
make it Creative commons
use easy to read formats: KML, GeoRSS, MicroFormats
make it searchable

Crowdsourced Data Collection

OpenStreetMap View Edit GPS traces [log in](#) | [sign up](#)



The Free Wiki World Map

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.

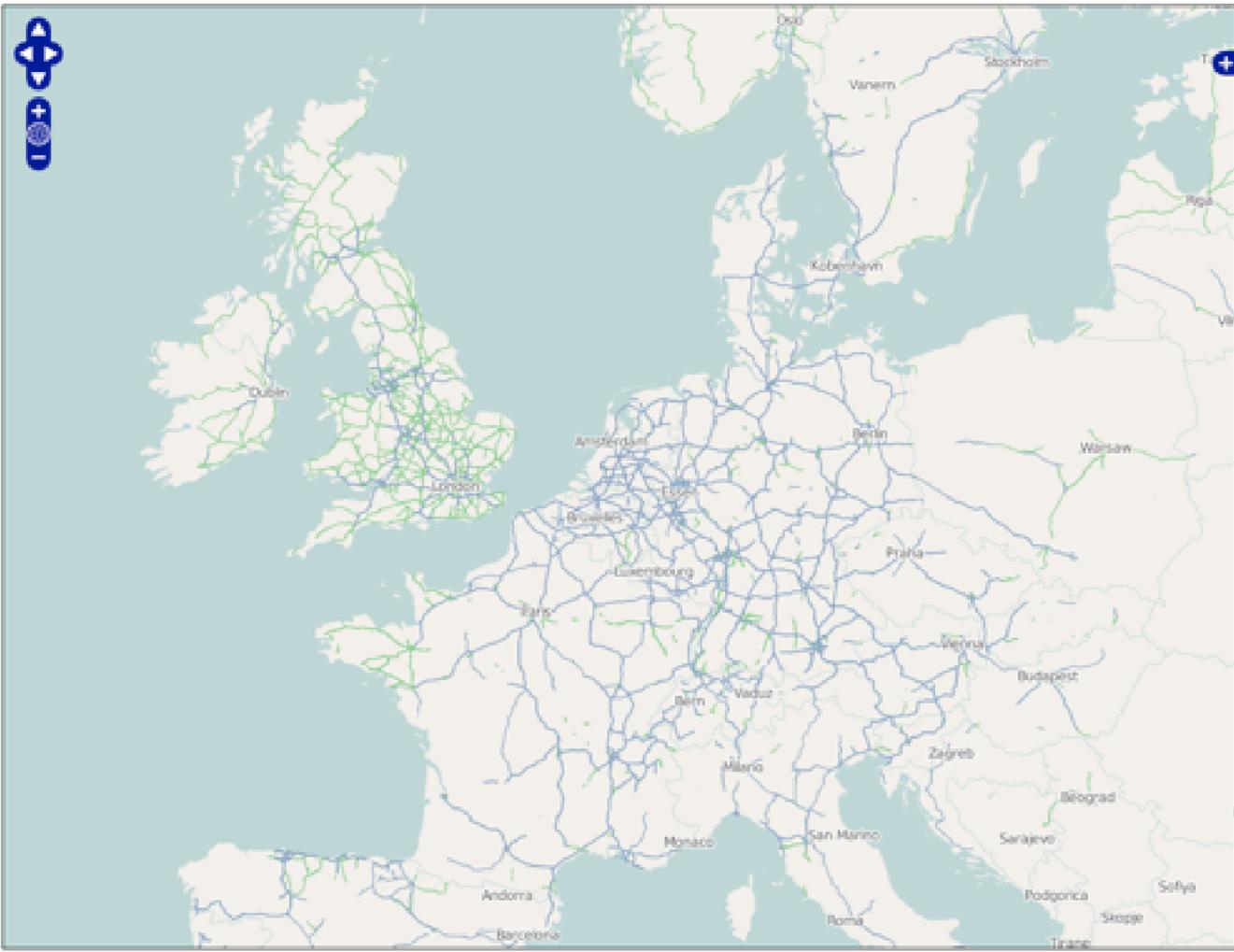
OpenStreetMap's hosting is kindly supported by the [UCL VR Centre](#) and [bytemark](#).

Help & Wiki
[Users' diaries](#)
[News blog](#)
[Shop](#)
[Map key](#)

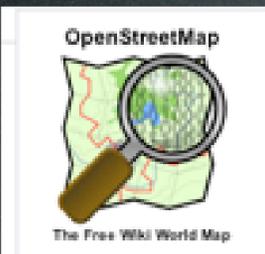
Search [Where am I?](#)

examples: "Alkmaar", "Regent Street, Cambridge", "CR2 SAQ", or "post offices near Lünen"
[more examples...](#)

[Make a Donation](#)



England based Open Data company.
 Data laws are different in the UK and other parts of the world. TIGER data isn't available. OSM is still gaining traction. Has had commercial use (Isle of Wight) and has received an influx of data from Yahoo!



Public GPS traces

| See just your traces, or upload a trace

Showing page 1 (1-20 of 31093) | 1 2 3 ... 1555

OpenStreetMap is a free
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Tags

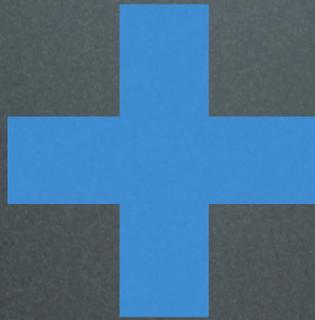
- UK
- Australia
- ucc
- ballsbridge
- Traralgon
- Highland
- Latrobe_Valley
- donnybrook
- Strunjan
- Glenbess
- Romania
- Stanjel
- park
- canada

- [gut.gpx](#) ... (1,722 points) ... 4 minutes ago [more](#) / [map](#) / [edit](#)
walking/bussing around brisbane
by [David Dean](#) in [australia](#) [queenland](#) [brisbane](#)
- [WestHill_07_09_23.gpx](#) ... (1,398 points) ... about 2 hours ago [more](#) / [map](#) / [edit](#)
Lower Beechgrove and environs, incl bike paths
by [Joe42](#) in [canada](#) [toronto](#)
- [20070923_3.gpx.gz](#) ... (1,562 points) ... about 3 hours ago [more](#) / [map](#) / [edit](#)
Fyrparken, Sædding Ringvej, Dalstraget, Ålykken(51-75,77-81,17-49,1-5), Åloften (110-148, 51-63), Åskrænten (67-91,46-60), Sædding Strandvej
by [Mikkel Kirkgaard Nielsen](#) in [Esbjerg](#) [Denmark](#) [Danmark](#) [Sædding](#)
- [20070923_2.gpx.gz](#) ... (900 points) ... about 3 hours ago [more](#) / [map](#) / [edit](#)
Parking Havnegade, Havnegade, Stormgade, Nøregade, Kirkegade, Danmarksgade (+parking), Østergade, Jernbanegade, Storegade
by [Mikkel Kirkgaard Nielsen](#) in [Esbjerg](#) [Denmark](#) [Danmark](#)
- [20070923_1.gpx.gz](#) ... (2,016 points) ... about 3 hours ago [more](#) / [map](#) / [edit](#)
Walking in Esbjerg Bypark; playground, pass amfi theater, circling watertower
by [Mikkel Kirkgaard Nielsen](#) in [Esbjerg](#) [Denmark](#) [Danmark](#) [park](#)
- [2007_09_22_Slovenia_Portoroz_Strunjan.gpx](#) ... (694 points) ... about 4 hours ago [more](#) / [map](#) / [edit](#)
driving
by [stefanb](#) in [Slovenia](#) [Portoroz](#) [Strunjan](#)
- [2007_09_23_Slovenia_Strunjan_Stanjel.gpx](#) ... (3,635 points) ... about 4 hours ago [more](#) / [map](#) / [edit](#)
driving
by [stefanb](#) in [Slovenia](#) [Strunjan](#) [Stanjel](#)
- [2007_09_23_Slovenia_Tomaj_Ljubljana.gpx](#) ... (4,114 points) ... about 4 hours ago [more](#) / [map](#) / [edit](#)
driving
by [stefanb](#) in [Slovenia](#) [Tomaj](#) [Ljubljana](#)
- [20070924_Tram_Weststadt_Brolzem_Volkmarode.gpx](#) ... (319 points) ... about 5 hours ago [more](#) / [map](#) / [edit](#)
Tram BS Weststadt-Brolzem-Volkmarode
by [hu mtrn](#) in [Braunschweig](#) [Tram](#)

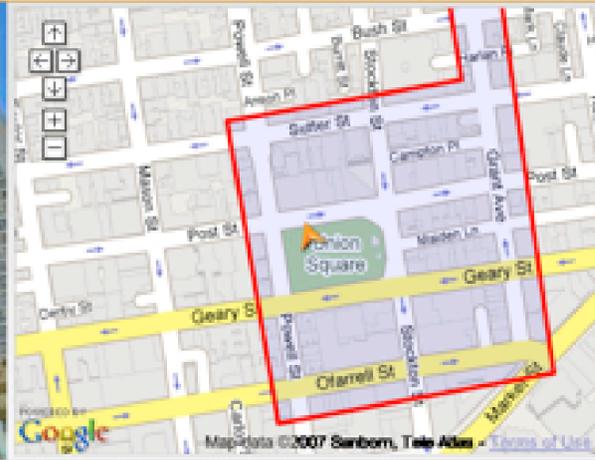
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tele atlas, the other street data collector, has been bought by Tomtom. this is the biggest example of crowdsourcing that i cna think of.



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[? help](#)

AutoDrive YouDrive

Now Showing: Union Square, San Francisco

Countdown to EveryScape launch Fall 2007

Planning a trip? Heading out for dinner? Looking for an apartment?

EveryScape is the only place you can discover your everyday world, your way. Today, you can check out Union Square, San Francisco as the first city to be scaped. You can check out restaurants, hotels, go shopping, drive by homes. You can see what other people are saying and share your comments as you stroll down the street. Click on the link to the right to vote for the next CityScape — it could be yours.

MyScapes

Every Scape has a story — What's yours?



[How can you become a Scape Artist?](#)

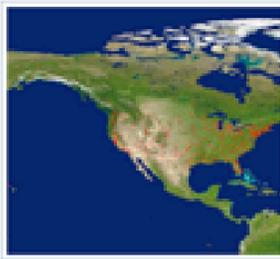


[Vote now for your Scape City or Town](#)

>> Partner up with EveryScape

Coming Soon:





Earth Imagery By [GlobalExplorer](#)

Facebook user prevalence by US geographic region

What geographic region has the most Facebook users per capita? Facebook has geospatially related online networks that people can join. User profiles can only be part of one regional network, so no profile will be counted twice. The user profiles in...

[Full Description](#)

This data was posted by [David](#) 2 months ago. It has been publicly viewed 76 times so far and contains 6 attributes (listed below) with 273 points of data. It is tagged with the [United States](#), [US](#), [U.S.](#), [Facebook](#), [online](#), [social](#), and [network](#) tags.

☆☆☆☆

Download entire Dataset (for Google Earth and compatible): [KML](#) or [KMZ](#)

Dataset Attributes

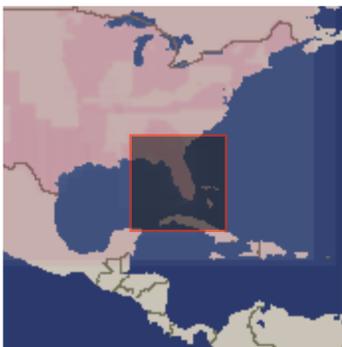
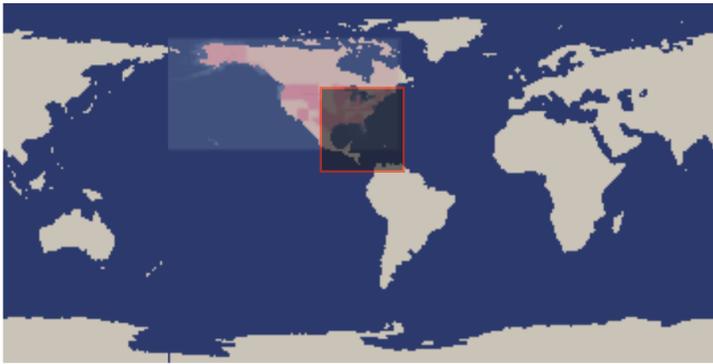
- 2006 population estimate
- Facebook users
- Facebook users per capita
- Facebook users per 100 people
- Name of geographically associated region(s)
- Network

Create a Custom Report

To get started, drag up to four attributes here.

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1: GLOBAL NAVIGATION ?



Location Entry

City, Country, or Zip Code



Center Latitude

27.875001

Center Longitude

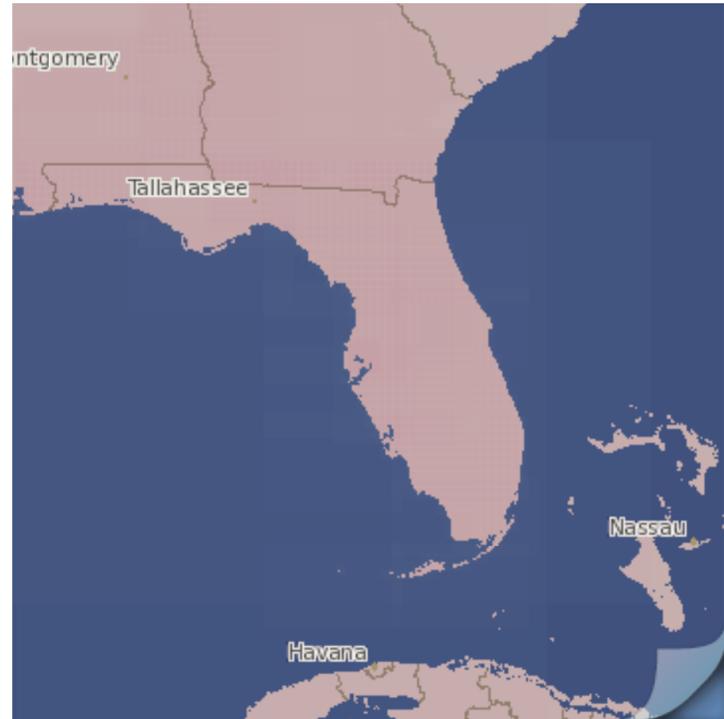
-82.437504



(Acceptable Format: +/-dd.dddd)

Navigation Maps on Panels 1 + 2 © 2006 DM Solutions Group, Inc.

2: REGIONAL NAVIGATION ?



Zoom level



Data Sets Over Land + Water: 0 10,000

weogeo is another young company. they are a map marketplace founded by paul bissett, a sensor guy, this is a place for mapmakers and cartographers to sell their wares. perhaps

Title	Tags	Points	Radius	Export
Kentucky (Edit) <small>Data provided by Mike Williams</small>	illinoisstateusa	81	223	json js GeoRSS
Norman Acres (Edit)	neighborhood madison wi dane	10	0.26	json js GeoRSS
Stone Meadows (Edit)	neighborhood madison wi dane	13	0.77	json js GeoRSS
Sheridan Triangle (Edit)	neighborhood madison wi dane	6	0.23	json js GeoRSS
Nakoma League (Edit)	neighborhood madison wi dane	30	0.62	json js GeoRSS
Bluff Acres (Edit)	neighborhood madison wi dane	20	0.72	json js GeoRSS
Westmoreland (Edit)	neighborhood madison wi dane	8	0.61	json js GeoRSS
Mayfair Park (Edit)	neighborhood madison wi dane	7	0.69	json js GeoRSS
Maple Prairie (Edit)	neighborhood madison wi dane	13	0.50	json js GeoRSS
Brentwood Village (Edit)	neighborhood madison wi dane	11	0.35	json js GeoRSS
Dudgeon-Monroe (Edit)	neighborhood madison wi dane	29	0.96	json js GeoRSS
Meadowood (Edit)	neighborhood madison wi dane	32	0.66	json js GeoRSS
Berkley Oaks (Edit)	neighborhood madison wi dane	10	0.52	json js GeoRSS
Orchard Ridge (Edit)	neighborhood madison wi dane	17	0.78	json js GeoRSS
Vilas (Edit)	neighborhood madison wi dane	16	0.54	json js GeoRSS
Appalachian Ridge (Edit)	neighborhood madison wi dane	5	0.14	json js GeoRSS
Truax (Edit)	neighborhood madison wi dane	7	0.15	json js GeoRSS
Broadway-Lakepoint (Edit)	neighborhood madison wi dane	12	0.37	json js GeoRSS
Mendota Beach (Edit)	neighborhood madison wi dane	19	0.27	json js GeoRSS
Westhaven Trails Homeowners Association (Edit)	neighborhood madison wi dane	7	0.43	json js GeoRSS

Preview Shapes



[Kentucky](#)
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New!

GeoRSS: recently updated shapes.

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seattle

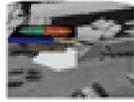
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Results 1 - 12 of about 86 for seattle (0.0 seconds)

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★★★★ (2 ratings)
The [Seattle Municipal Tower](#)...
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[Seattle Tower](#)
by [T.Cochran](#)
★★★★ (3 ratings)
The building uses marble from...
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★★★★★ (7 ratings)
Dutch architect Rem Koolhaas...
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★☆☆☆ (1 rating)
[Seattle Public Library](#) ...
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Öffentliche Bibliothek...
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★☆☆☆ (1 rating)
City Hall in [Seattle's](#) Civic...
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[Wells Fargo Center, Seattle](#)
by [Patrick Griffin](#)
The six sided Wells Fargo...
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[Seattle Public Library](#)
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by [chris_j_martin](#)
Tags: Athens, Athens Georgia, UGA, U



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Tags: detroit, downtown, entertainme



Blue Mountain Reservation, Peekskill, NY, Mountain Bike Trails

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Singapore Town - The Jackson Plan, 1822

by [ken_pinto](#)
Tags: jackson plan, philip jackson, sin



USC Main Campus Map

by [Eddie B](#)
Tags: USC



Golden Gate National Recreation Area

by [Ryan G](#)
Tags: beach, golden gate, hiking trails





Drag or zoom the map to see more

View your neighborhood (name or zipcode):

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work experience (that part might be the Chicago talking...it ain't a commute if you're not underground). It looks exactly the...
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A voice, pen and institutional memory of the city has gone silent. Walt Crowley, chronicler of Seattle's people, places and...
via: http 2 days ago

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Update: Seal untangled, doing OK

Just got an update from Brenda Peterson of the Seal Sitters. Happy ending for the seal pup on Beach Drive who was tangled up...
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Alert from the Seal Sitters

Just in, if anyone out there can help - the Seal Sitters, and this pup, need help NOW: We have a pup on the beach at 64th and...
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What's New?

America's Bloggiest Cities

Our esteemed Department of Blogiology has released another survey, this time ranking America's cities by local blog posts per capita. Did your city make the top ten?

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We've made it much easier to share your local content with outside.in readers — and get a wicked cool outside.in map — without ever leaving your blog.

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Top Arts and Entertainment

- Neumo's Crystal Ball and Reading Room
- The Crocodile Cafe
- Seattle Center

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Walk Score: 85 out of 100 Worst  Best What it means

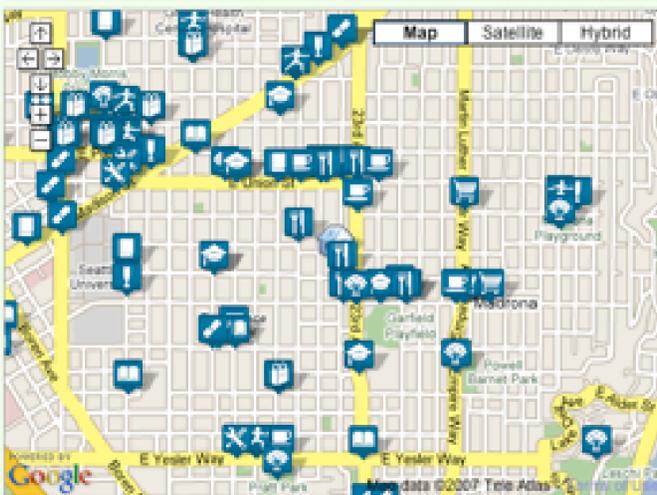
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Central Cinema 0.22 Mi
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Nova High School 0.18 Mi
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- Libraries**
Horton Health Scien 0.39 Mi
- Bookstores**
Multilingual Books 0.26 Mi
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Cappy's On Union Bo 0.21 Mi
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What's My House Worth?
 HouseValues' free service helps you determine the value of your home.

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Live Processing Mobile Edition

Smart And Easy Data Collection.
Easy to install and use, Live Processing Mobile Edition is an image capture and processing software made for Nokia NSeries S60 devices. The software takes pictures, and associates each photo with GPS location, height, and bearing. The software output is a KML file (Google Earth associated file extension) that references the data in Google Earth. The data can be pulled off the device when the mission is over, or data can be sent over FTP during the mission.



Live Processing Ground Station Edition

World On Live.
Pict'Earth Live Processing is a Win32 software that is designed to work with advanced Pict'Earth Systems. Live video and GPS data are streamed in real time from the aircraft, and processed on the ground.



Pict'Earth Events

- Boring Man**
- Boring Man Event:**
[Black Rock City Imagery, August 2007](#)
- Wind Science TV**

Pict'Earth will be part of an upcoming UAV themed episode of *Wind Science* on PBS.

Metaverse Summit
Pict'Earth has been invited to participate in the Berlin technology gathering.

SHARKRUNNERS

researcher:
bradyforrest

Ship's Log

Rival

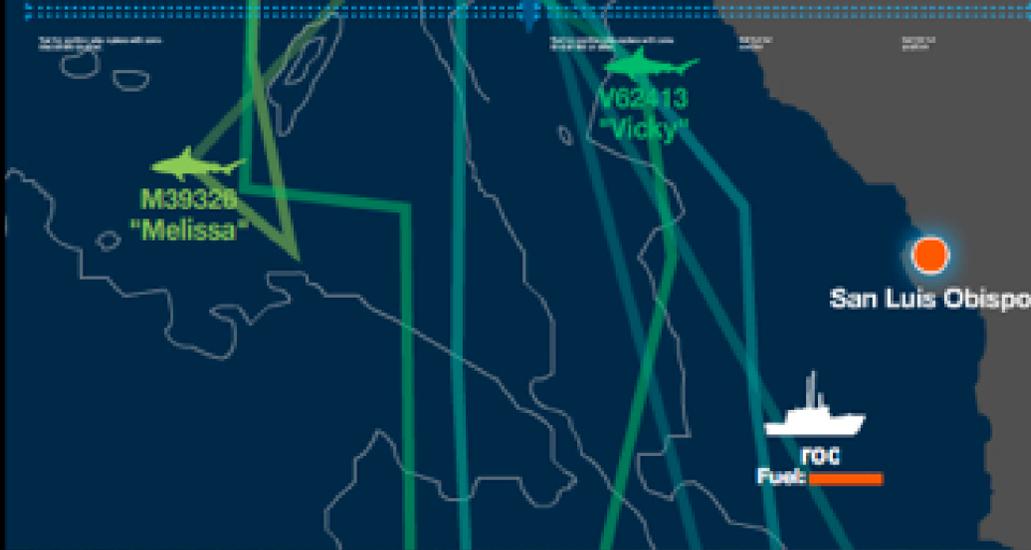


Help

Settings

roo

Current Funds/ \$2,220



What Does It Mean?

- There are platforms for using data collection
- Crowd data supplements the pros
- There is always more data to collect
- Realtime data is next

anyone can collect data. now there are platforms for putting it together in a useful way

there is always more to collect, just realize that it is never going to all be there.
realtime data is next.

Thanks!

- **Brady Forrest**
 - <http://radar.oreilly.com>
 - brady@oreilly.com
 - Where 2.0
 - [Conferences.oreilly.com/where](http://conferences.oreilly.com/where)



powell street san francisco ca

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My Maps

342 Powell St Address is approximate





GPS in Phones

First totally opensourced phone

Global Locate AGPS chip

I can never upgrade or customize my phone. I have to buy a new one every few months if I

want some new (software) feature to work.

- Mobile platforms are proprietary and scattered. Developers have no easy way to create applications and deliver services that span all users.



Immersive Everywhere

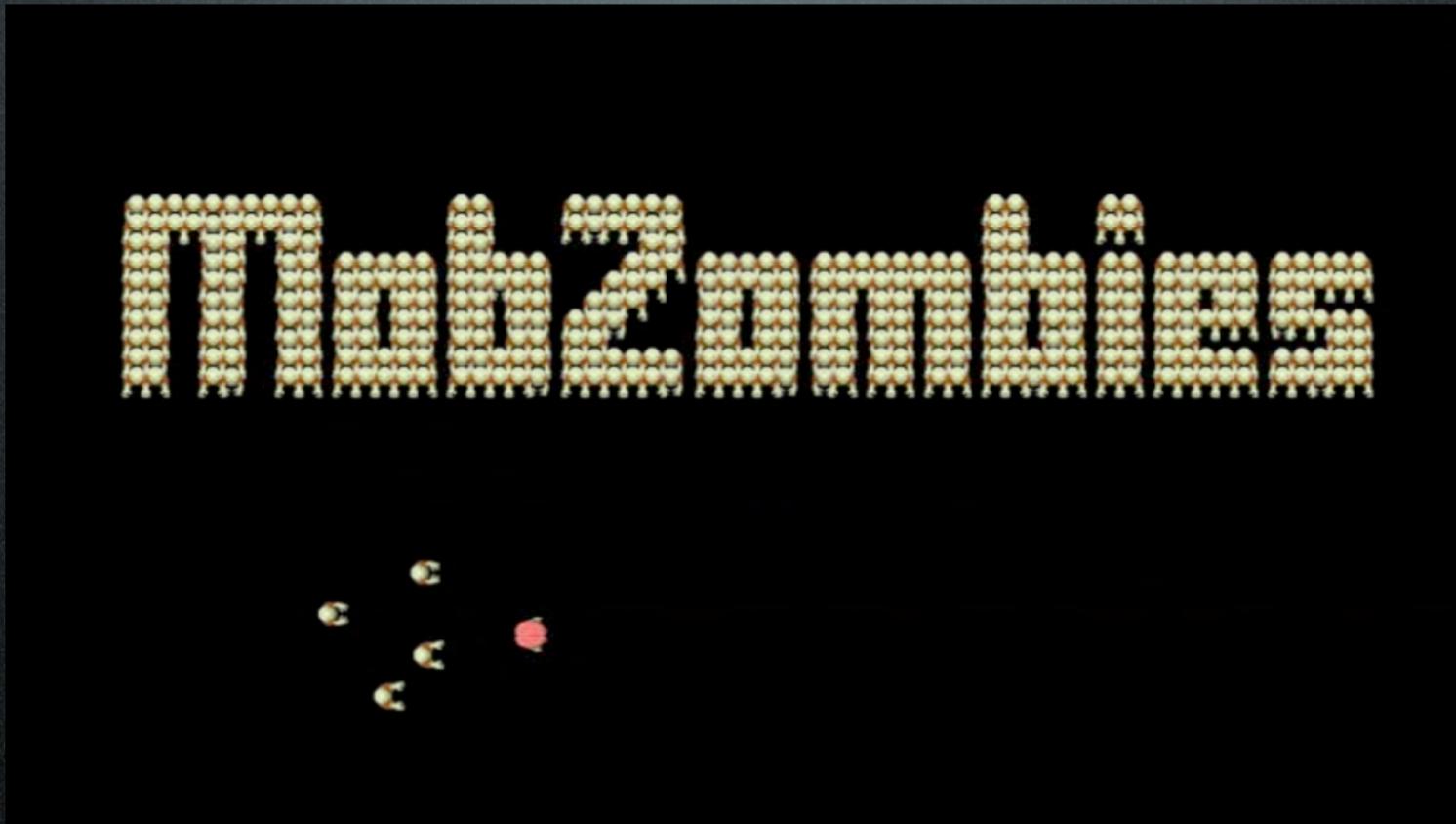
mobile phones are connected.

and as

Phones that have the software installed also have GPS chips and compasses. The software has been tested in New Zealand as well as in Japan.

The software is fairly self-explanatory. Point the phone at a building, and the phone will troll the Internet and bring back information on what you're looking at. Punch in "Chinese restaurant," and it will list the nearby ones and give you walking directions. GeoVector

"Coffee is a big one. If you put in 'coffee' it will come back with five or six coffeehouses," Ellenby said. "Pointing is simplest way we interact with the world."



Games

here's a two-fer :-)
mobzombies
backseat playground



Games

here's a two-fer :-)
mobzombies
backseat playground