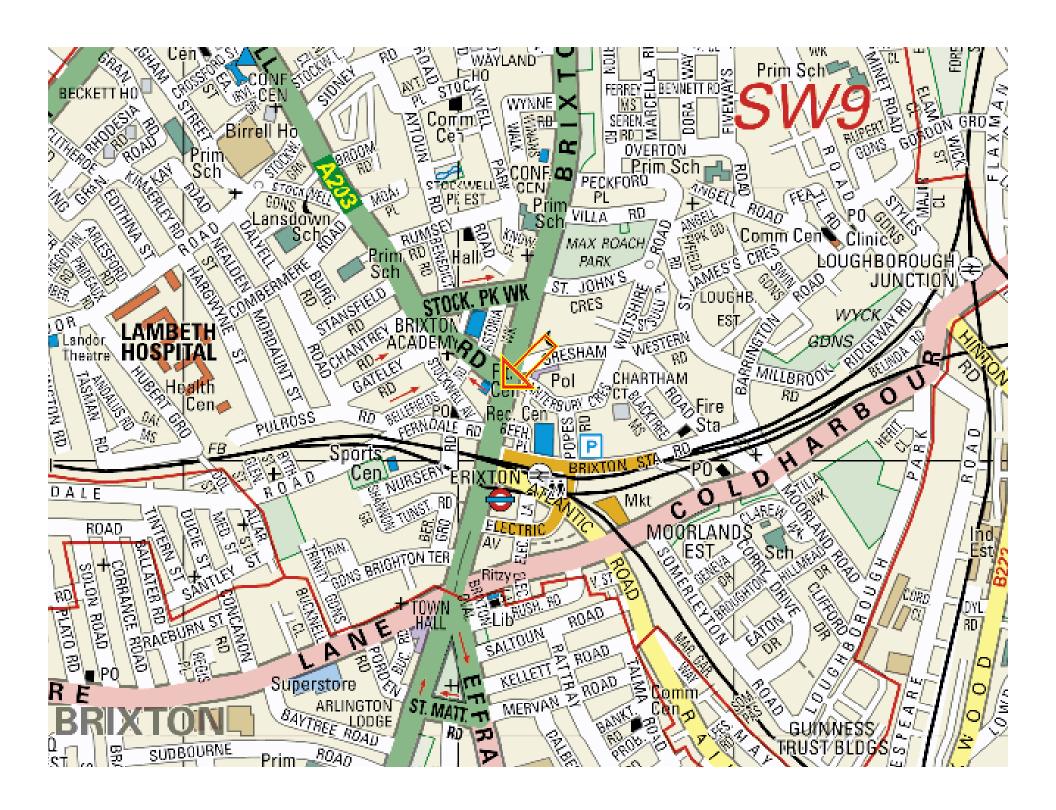
From Old Web Maps to Semantic Geo-mashups

A Position Statement @ Geows'09

Vlad Tanasescu and Dumitru Roman

Feb 2, 2009 Cancun, Mexico

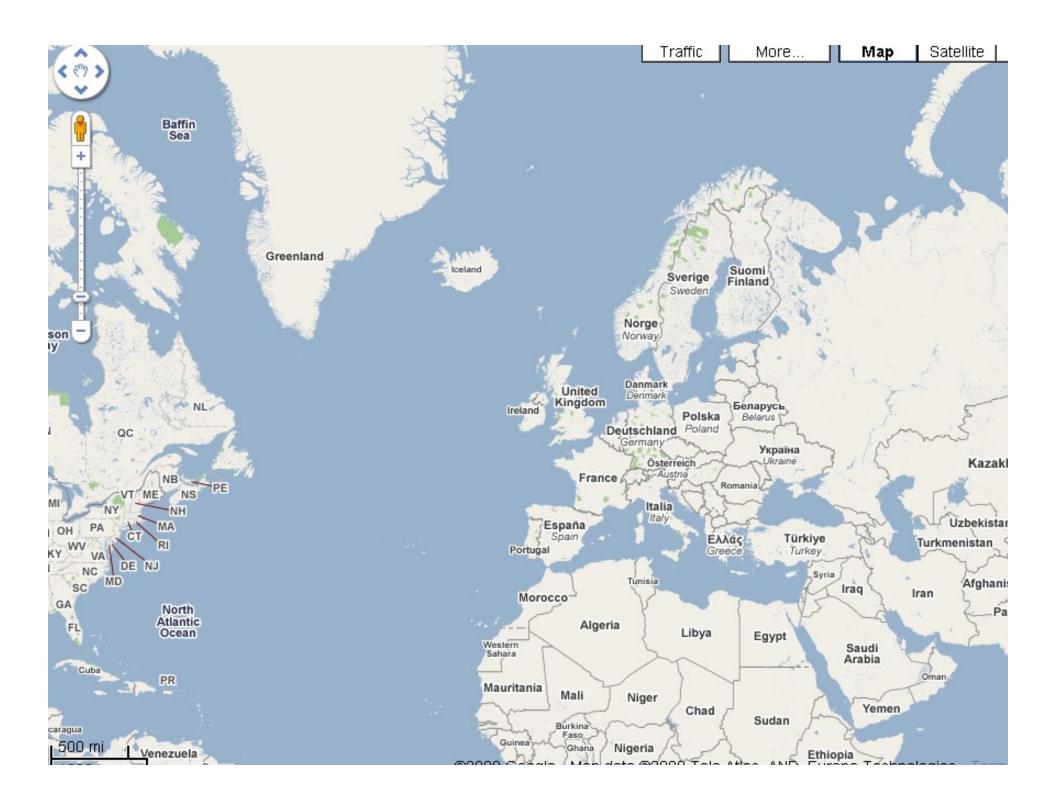
(01d) Web Maps

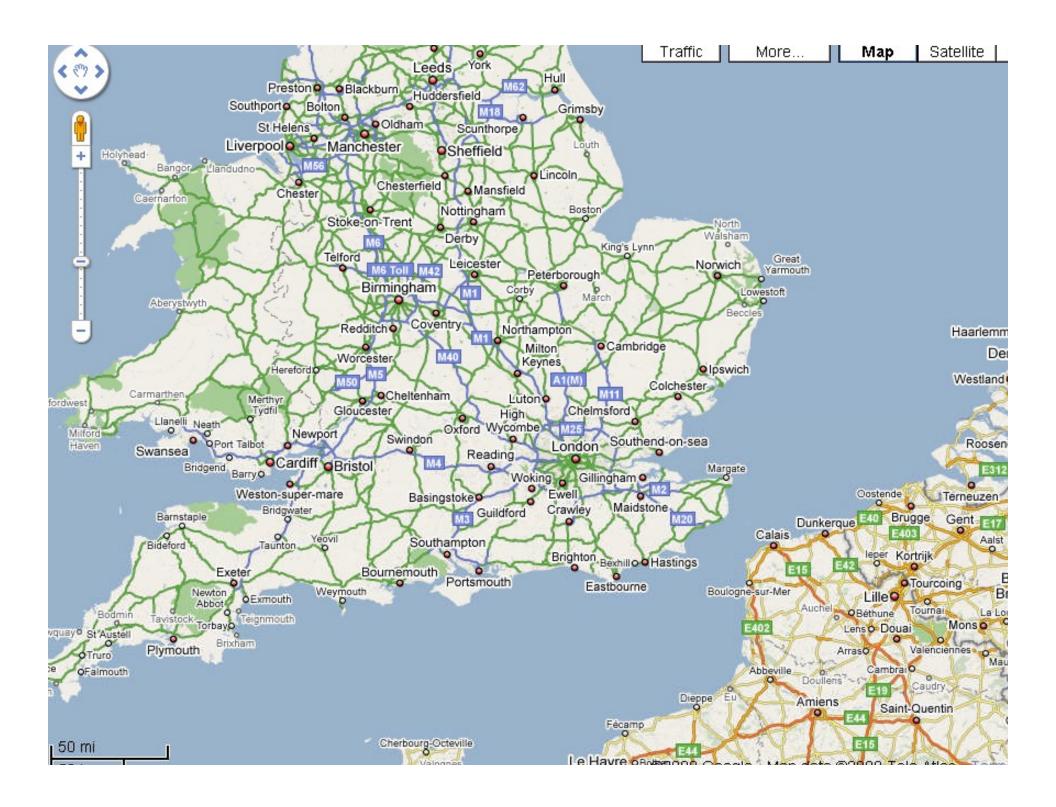


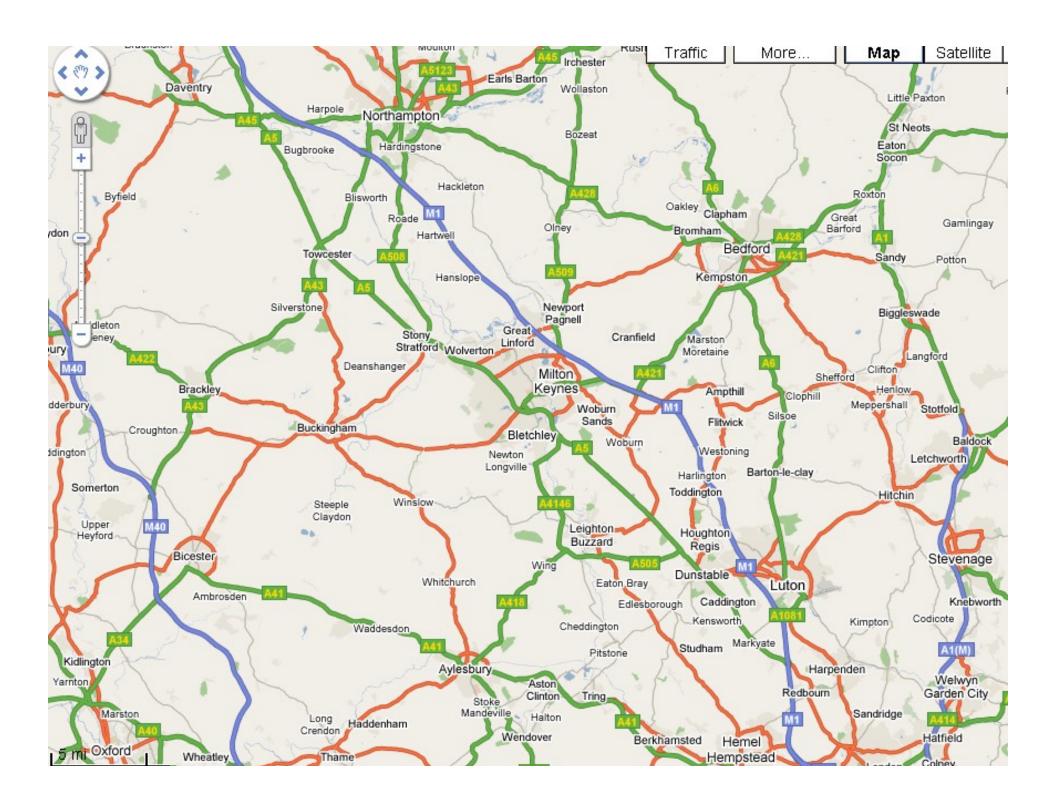
New Web Maps

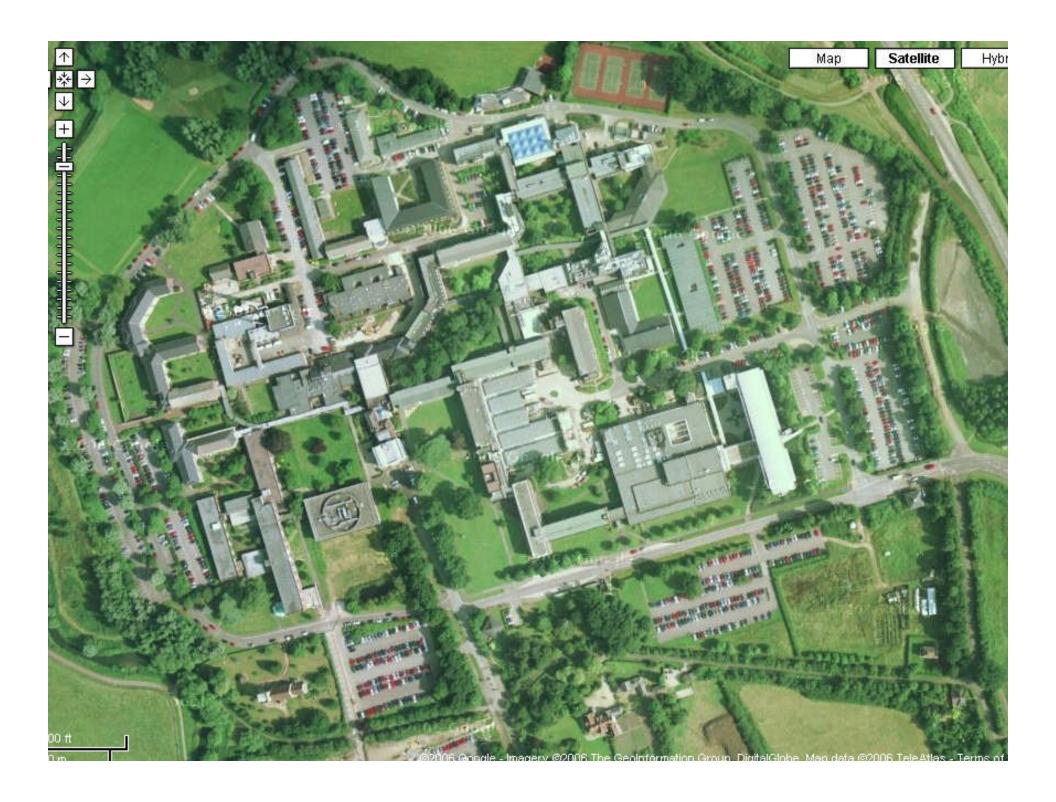
Navigation APIS Reality Effect

Navigation









Reality Effect

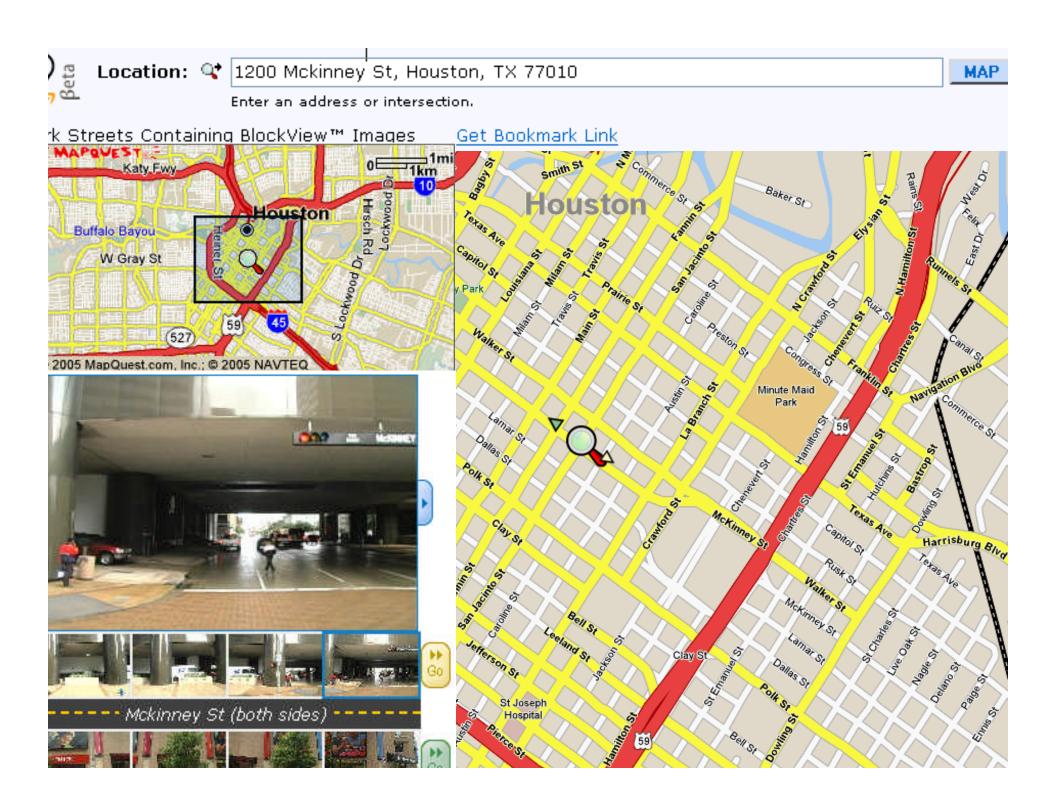
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Businesses Maps

Web Images News **Local** More▼

Welcome Collections → Driving directions Locate me Share → Print →





APIS

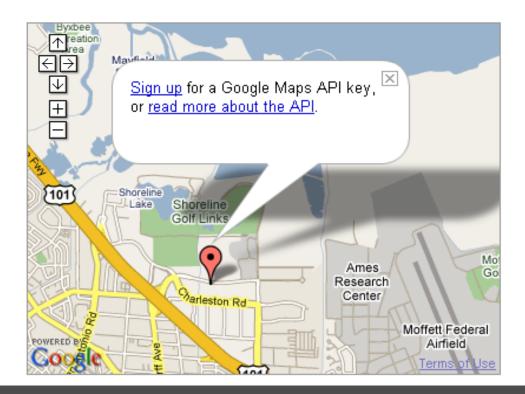
Google Maps API Home

What is the Google Maps API?

The Google Maps API lets you embed Google Maps in your own web pages with JavaScript. The API provides a number of utilities for manipulating maps (just like on the http://maps.google.com web page) and adding content to the map through a variety of services, allowing you to create robust maps applications on your website.

New! Reverse Geocoding - use Google's geocoder to return human-readable addresses from locations on the map!

Note: The Google Maps API Terms of Service have been recently updated!





Yahoo! Maps Web Services - Introducing the Yahoo! Maps APIs

<u>Home</u>

Application Gallery

del.icio.us

Save, tag, and share your favorite sites

Finance

Get company news

Flickr™

Share photos with your friends

HotJobs

Find a great job

Maps

Create rich embedded map applications and overlays

The New Family of Yahoo! Maps Web Services

The new Yahoo! Maps offers a powerful new way to experience and use maps. Tap into this beautiful new interface either using the free Flash® viewer from Macromedia® or display via AJAX.

Yahoo! Maps also includes a rich set of APIs for both <u>Flash</u> and <u>AJAX</u> that enable you to use and publish maps on your web site or in your client application.



See the applications enabled by these APIs in our Maps Application Gallery.

AOL Main | Mail | AIM | Join AOL

Search the Web

Search



Settings | Help | Business Solutions







OpenAPI (Beta)

What is MapQuest OpenAPI?

The MapQuest OpenAPI is a free service that allows you to use JavaScript to easily integrate routing, geocoding and mapping into your website. With this feature-rich API you can create dynamic routing and mapping applications for personal or community use.

Ready to try it out? Get started now by completing the simple OpenAPI Registration.

What can I do with OpenAPI?

The OpenAPI is based on MapQuest's time-tested mapping and routing technology that powers the leading online map site, MapQuest.com. Complete with routing and mapping capabilities, the OpenAPI allows developers to quickly and easily add location-based functionality to web applications.



Routing - Integrate MapQuest's ultra-accurate driving directions to show your users exactly how to get there.



Mapping - Plot multiple locations on a single map. Choose one of our map styles to create a truly integrated look-and-feel with your website.



Active Point Markers - Add up to 100 active point markers to a single map. You can also add events, like a pop-up box with key information displayed when users click on or roll over the marker.

How do I get started using OpenAPI?

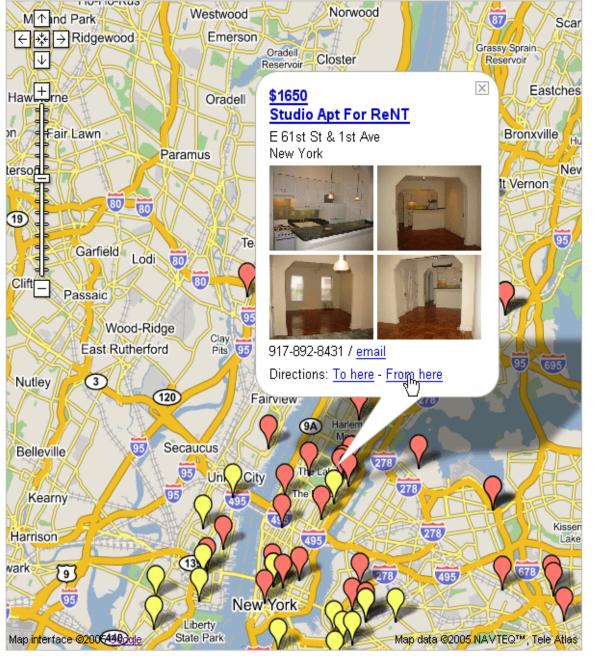
Getting started is easy and quick. Just enter the information requested on the <u>OpenAPI Registration</u> and you'll receive an email with instructions to complete your activation. Once you get the confirmation email, you're all set to start using the MapQuest OpenAPI!

Geo-mashups

Send Feed

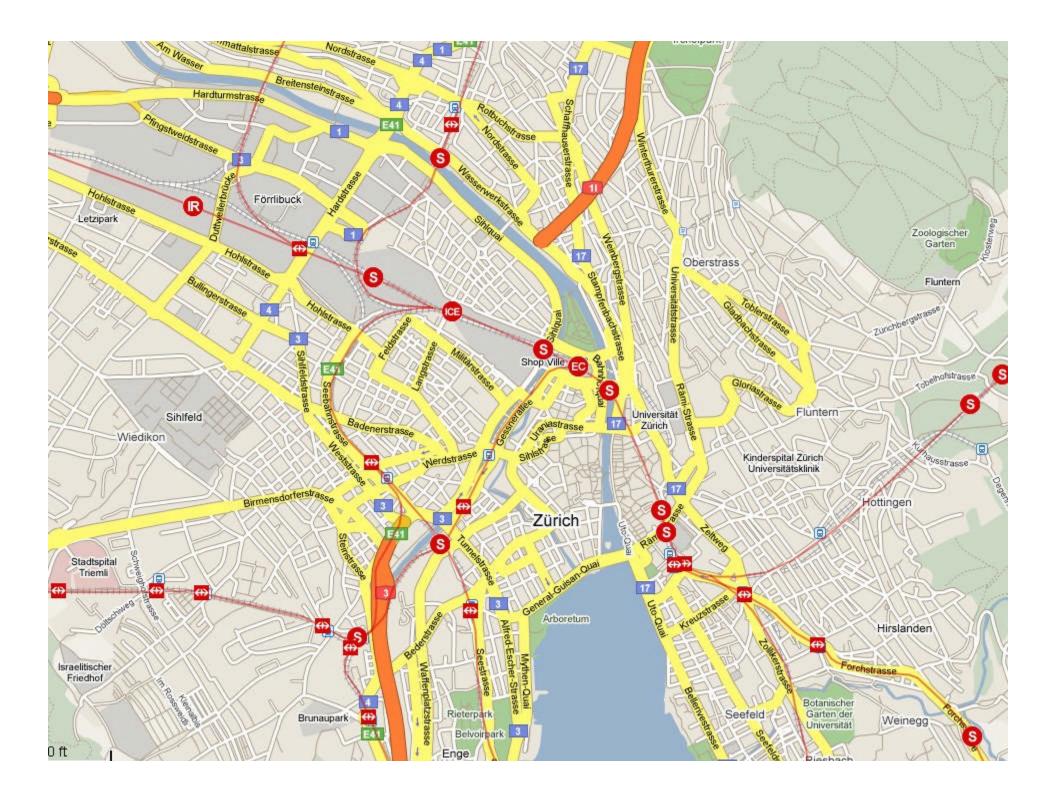


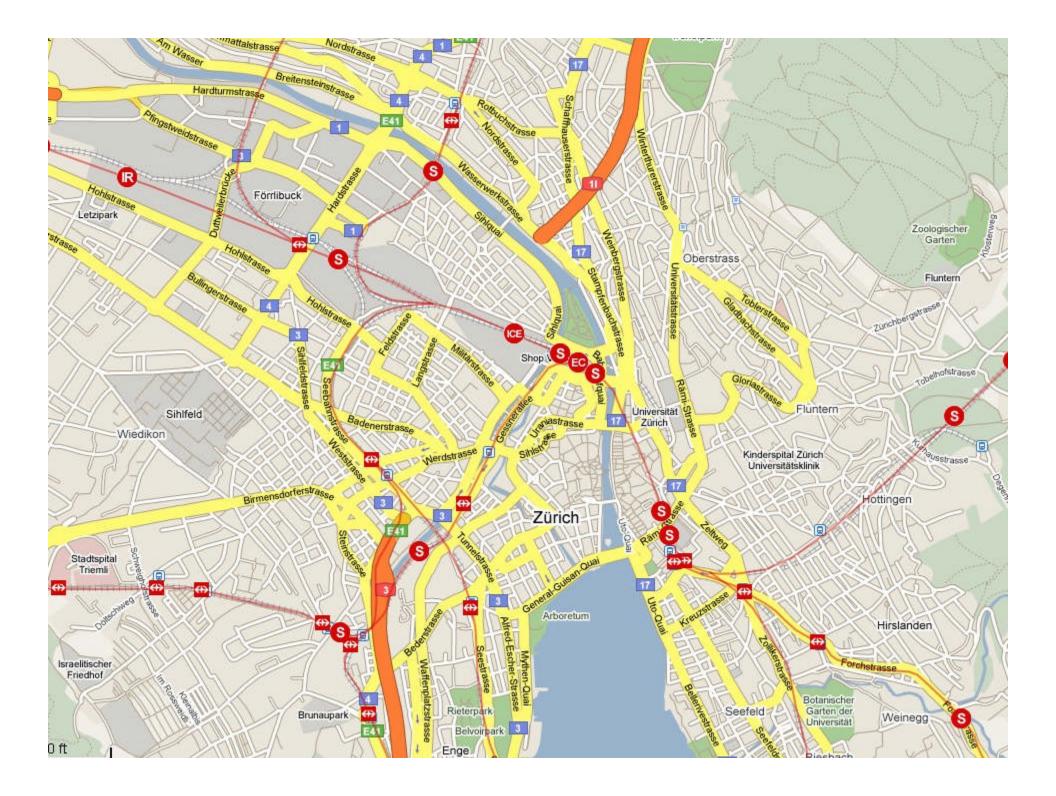
Refresh

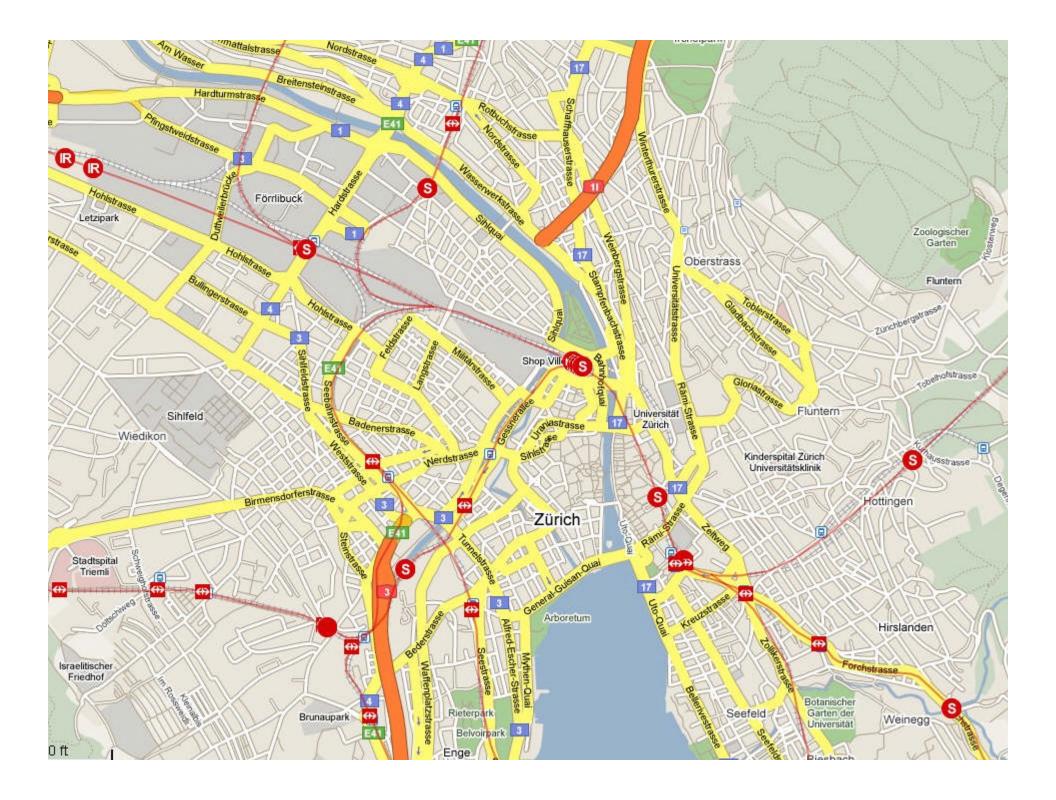


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pics	price	bd	description	city	date
0	\$1500	1bd	Gorgeous Furnished Penthouse with Boatslip	Aventura	4/12
0	\$1800	3bd	Rent Brand New House With Option To Buy	Brookhaven	4/12
\bigcirc	\$1700	1bd	Garden City Village Apartment	Garden City	4/13
	\$1500		Huge 2 room studio! Must see!	Greenwich	4/12
	\$1500	2bd	Brand New 2 Bedroom	Hempstead	4/13
0	\$1500	2bd	2 level, 2 bedroom sunny, cute apt for rent	Hempstead	4/13
0	\$1500	2bd	Beautiful 2 bedroom apt available.Definately a Must see!	Hoboken	4/12
\bigcirc	\$1550	3bd	House for rent	Islip	4/12
\bigcirc	\$1700	3bd	Relaxed, Laid back living!	Jersey City	4/12
	\$1795	1bd	Luxury Park Foundry Loft	Jersey City	4/12
0	\$2000	2bd	Spectacular 2 Bedroom Duplex! 10 minutes from Manhattan	Jersey City	4/12
0	\$1500	3bd	2BA,HWV floors, W/D hookup,private balcony, close to public transp.	Jersey City	4/12
0	\$1700	2bd	Beautiful Apartment In Historic Downtown	Jersey City	4/12
0	\$1600	3bd	Jersey City, New Construction 3 Bed room, 2 Full Bathrooms, Garage	Jersey City	4/12
0	\$1500	2bd	Gorgeous Space, Unbeatable Location	Montclair Twp	4/13
\bigcirc	\$1675	3bd	3 Bdrm 1 1/2 bath	New Pattz	4/12
0	\$1900	1bd	Parkslope Floor Through + Laundry	New York	4/13
0	\$1800	1bd	800 sq ft plus Garden in Park Slope	New York	4/13
\bigcirc	\$1750	2bd	Real 2 Bd aprt*No Broker Fee	New York	4/13
0	\$1525		Beautiful Spacious Artist Lofts *see photo*	New York	4/13
	\$1500	3bd	Three Bedroom Apt Available	New York	4/13

Powered by <u>craigslist</u> and <u>Google Maps</u> (this site is in no way affiliated with craigslist or Google)







popular

Google Maps Mania

15953 r

An unofficial Google Maps blog tracking the websites, mashups and tools being influenced by Goo.

This blog is not sponsored by or affiliated with Google

search this blog: Google" Custom Search

Search

Ask What You Can Do

Sunday, January 18, 2009

Answering the Call to Service Map



Barack Obama's Inaugaration website has produced this map showing text messages from individuals explaining how they plan on serving their communities on Wartin Luther King. In Day, You too can text

Top Recent Posts on Google Maps Mania

Top Posts

- 7.5 The TinyURL for Google Maps
- 7.4 The Short Flight of 1549 on Google M
- 7.1 20 Great Google Maps The Video
- 7.0 Yellowstone Earthquake Maps
- 7.0 Google Maps Ski Guides
- 6.4 2008 in Maps

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Inside Google Maps Mania:

Welcome! (Read this first)

Mashups Directory

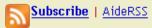
By Country | Special Features

100 Things you can do!

Archives | Email Contact

About Me | Contributors

Media & Blog Mentions | Twitter



GoogleMapsDev

Source a professional developer to build a G app!

Google Maps Mania

An unofficial Google Maps blog tracking the websites, mashups and took being influenced by Google Maps.

Ads by Google

Blog That

Free Blog

Flights

Blog Tools

SUNDAY, SEPTEMBER 17, 2006

British Airways creates a Google Maps mashup





The British Airways website is using Google Maps, making them potentially the first airline to create a Google Maps mashup. A section of their website promoting 'World Offers' (only departing from the UK) is now showing a Google Maps mashup of hotel locations for each city BA flies into. A list of cities is displayed

with a "Discover hotels on



Inside Google Maps Mania:

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Ads by Gooooogle

Geocode for Mashup Maps

Plot UK Addresses on Map via Web Service or Javascript, Try Now www.geocode.isharemaps

Advertise on this site





Limitations?

Points on a map...

Vagueness + Multi-representation

Lack of semantics

Integrating multiple data sources is difficult



Sea

more »

oca

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

News

Froogle

Local

Search results for good food near LAX -Los Angeles Intl Airport

Categories: Restaurants, Caterers



Good Food

2423 Daly St, Los Angeles, CA (323) 227-6283



Good Stuff

131 Richmond St # C, El Segundo, CA (310) 647-9997

Good Food Market

4902 W Slauson Ave. Los Angeles, CA .J) Z9Z-5UUZ

Good Neighbor Store

13430 Crenshaw Blvd, Gardena, CA

Audrey's Good Vibrations

1204 Abbot Kinney Blvd, Venice, CA (310) 838-0832

Good Food Catering

8549 Higuera St, Culver City, CA (310) 558-7666

Good Stuff Burgers

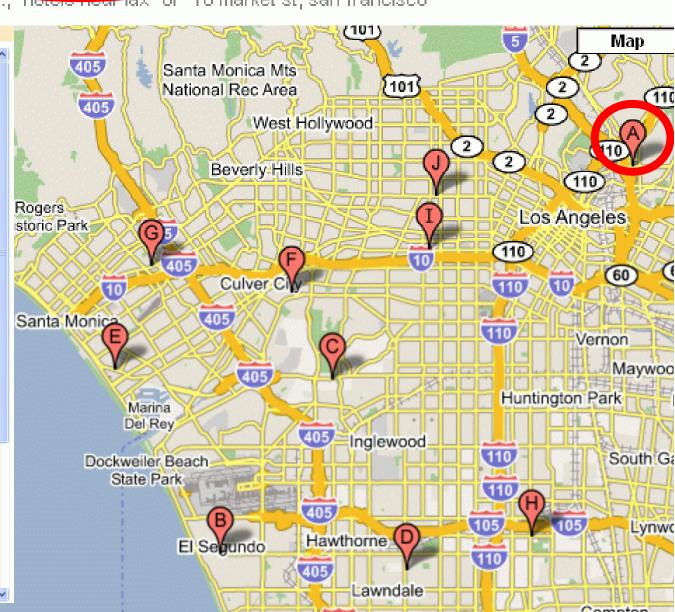
11903 W Olympic Blvd, Los Angeles, CA (310) 477-9011

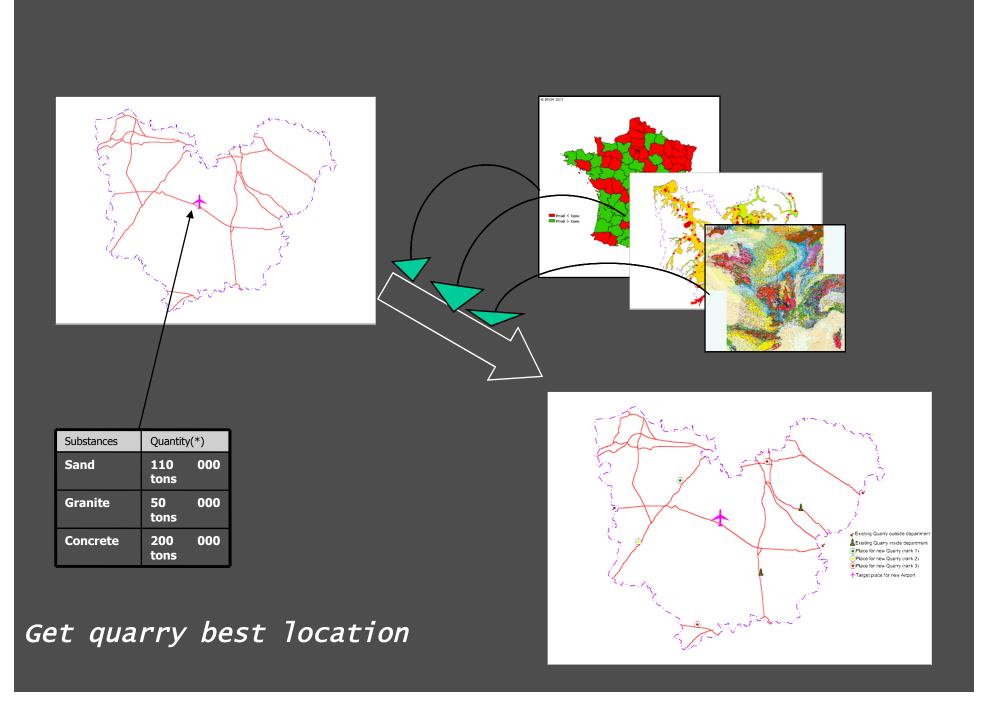
Good Food Market

12003 Avalon Blvd, Los Angeles, CA (323) 756-0747

Good For All

2421 W Washington Blvd, Los Angeles, CA (323) 737-0387





Semantic Geo-mashups

- integrating data sources
- •understanding them
- •understanding the user
- •Understanding the context

RIRIC MEAA?

England

N Ireland

Scotland

Wales

Politics

Health:

Business

Entertainment

Technology

Science/Nature

You are in: UK

News Front Friday, 31 January, 2003, 10:27 GMT

Page 'My 20-hour uk battle through the snow'



Education Motorists have been stuck in lengthy jams

While motorists across Britain Talking Point have been struggling in to work along icy roads, few have Country suffered as much as those stuck Profiles on the M11 in Cambridgeshire.

Adam Harley, who pulled on to

WATCH/LISTEN

ON THIS STORY ■ The BBC's

- Samantha Simmonds "Hundreds of passengers are still stranded at Heathrow and Gatwick airports"
- 🗐 Jonathan Smith, E. Midlands Electricity "We've 30,000 customers without electricity"
- Rebecca Rees, AA "People have spent the whole night in their cars"

□ TALKING POINT

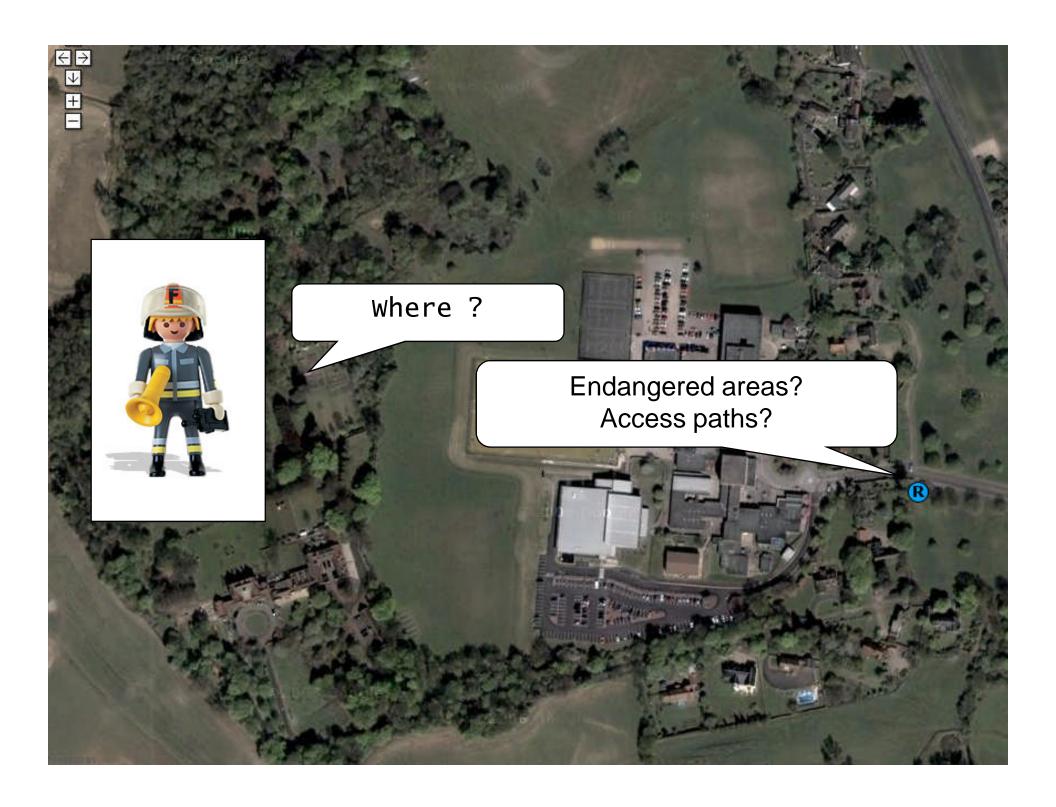
Snow storm

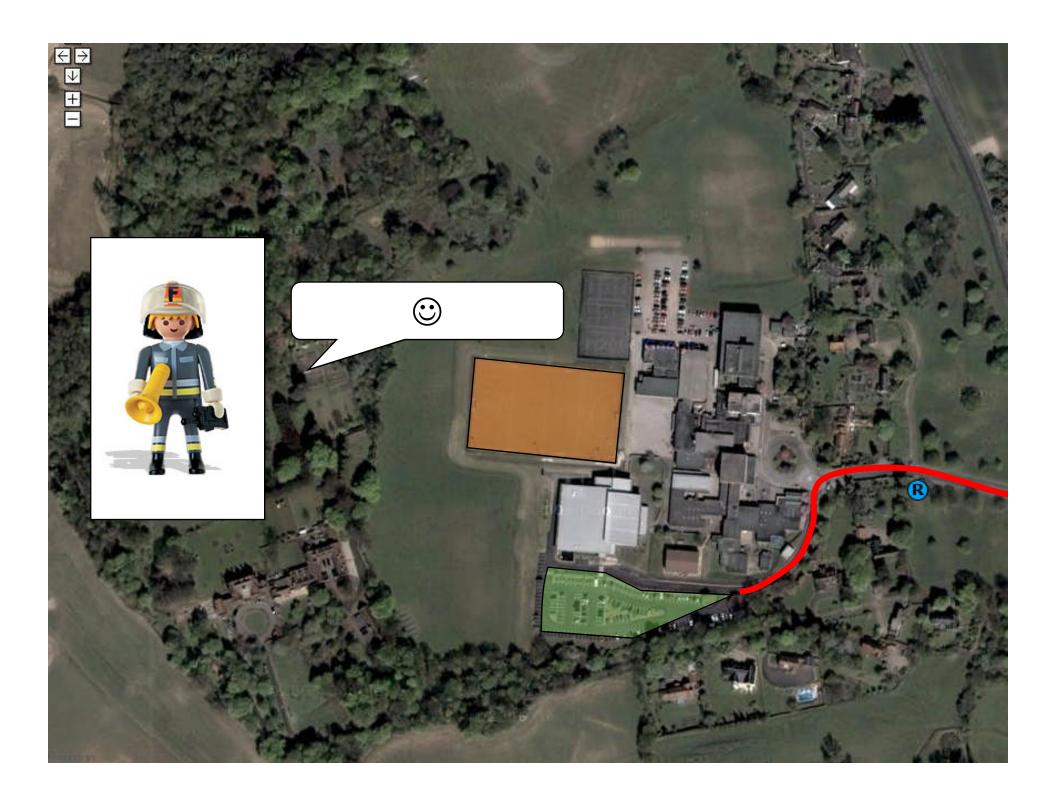
Your











- Selection
- Representation
- Personalisation

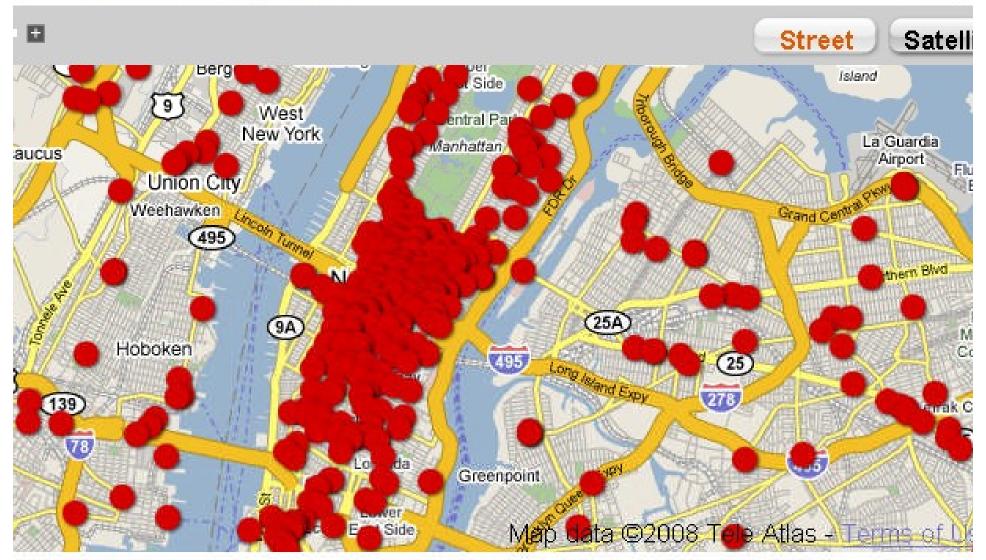
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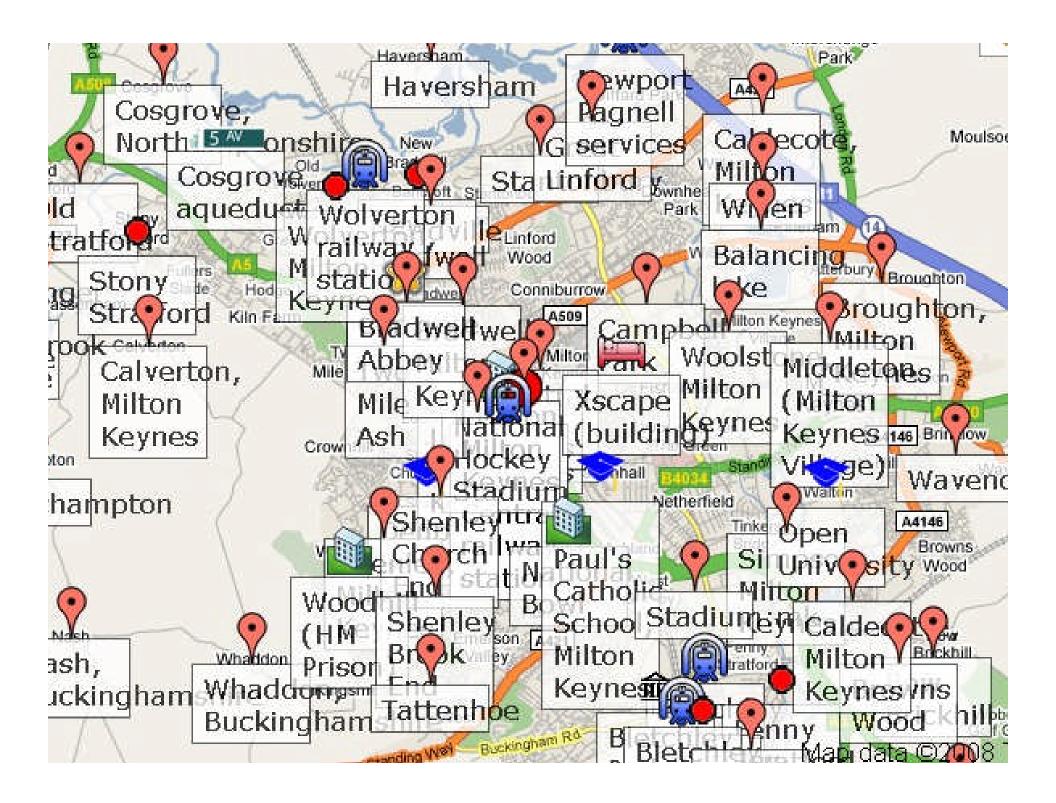
The easiest way to find interesting places, add new ones and share maps with your friends.

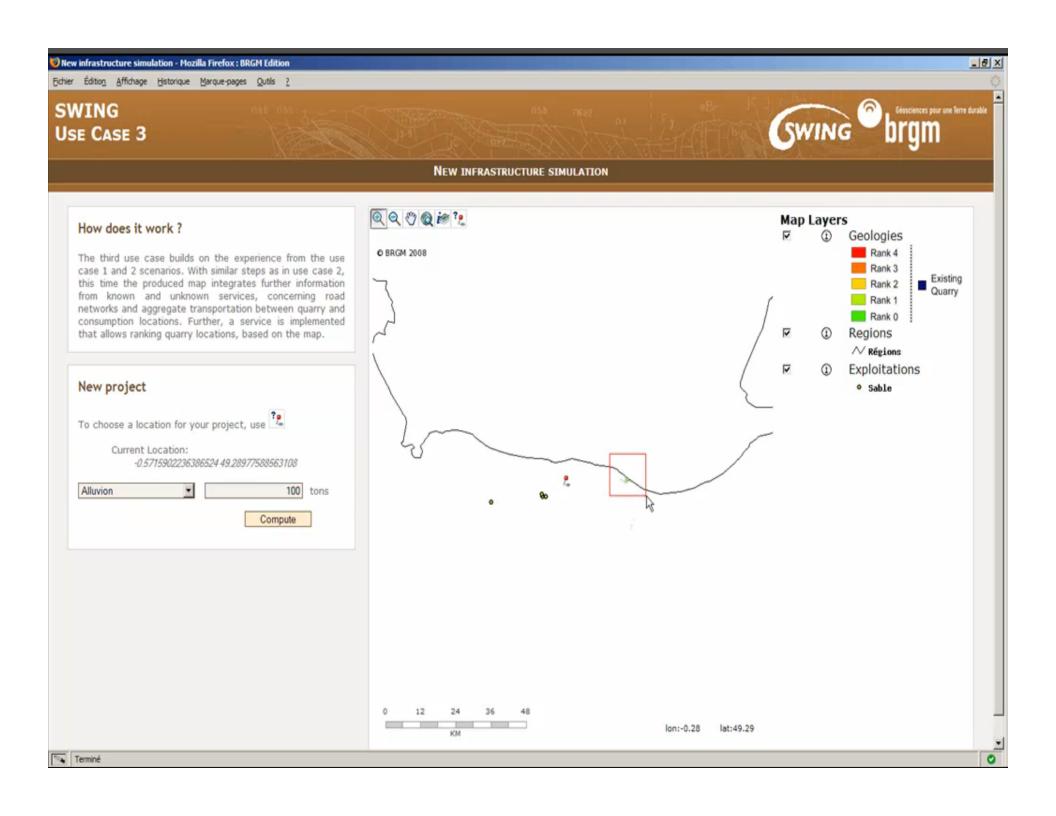


up of all of Findbyclick

<u>Siq</u>







Extreme Tagging Systems (ETS)

- Tagging the tags
- •Lightweight semantics
- •Grounded in a theory

Summary of our statement

Geo-mashups — an emerging and popular paradigm, but limitations are evident

Semantic Geo-mashups (tag-based, ontology-based) are the next big thing for Web maps

Thank you!