Trends of the GeoWeb

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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 a 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
platial
processing
geopress + mapufacture

greasemonkey script
http://code.higherorbit.com/greasemonkey/

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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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

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.

Worldkit?
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.
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
weogeo
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 (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
Another XML format is KML (Keyhole Markup Language), 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.
Snowboarding by mike

Fullscreen

Feeds in Map
- Places Places With Tag "snowboard" (67 items)
- snowboard tagged map - Tanzania (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/

Map List 10 items

Myanmar junta threatens action against p…

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
User-created content

Results 1 - 10 of about 1,002 for sushi

1. **Sushi Rika**
   - Location: 900 Bush St San Francisco, CA 94109
   - Phone: (415) 923-1141
   - Website: http://www.sushirika.net
   - Ratings: 4.5/5
   - Description:
     Sushi Rika is a popular sushi spot in San Francisco. They offer a wide variety of sushi options, including traditional rolls and sashimi. The prices are reasonable, and the service is prompt. It's a great place to go for a quick and delicious sushi meal.

2. **Sushi Bay**
   - Location: 355 Kearny St San Francisco, CA 94108
   - Phone: (415) 765-9909
   - Price: Under $5 for lunch
   - Website: San Francisco - google.com
   - Description:
     Sushi Bay is known for its fresh and affordable sushi. They have a variety of sushi options, including rolls and sashimi. The prices are very reasonable, making it a great choice for those seeking sushi on a budget.

3. **Sushi Rock**
   - Location: 614 Pine St San Francisco, CA 94108
   - Phone: (415) 399-0882
   - Website: Mom and Me SF - google.com
   - Description:
     Sushi Rock is a trendy sushi spot in the heart of San Francisco. They offer a unique twist on traditional sushi with their creative and colorful rolls. The prices are moderate, making it a great choice for those looking for a fun and unique sushi experience.

4. **Sushi Rika**
   - Location: 900 Bush St San Francisco, CA 94109
   - Phone: (415) 923-1141
   - Website: SF Trip - google.com
   - Ratings: 4/5
   - Description:
     Sushi Rika is another popular sushi spot in San Francisco. They offer a variety of sushi options, including traditional rolls and sashimi. The quality of their sushi is consistently high, and the service is friendly.

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   - Location: 355 Kearny St San Francisco, CA 94108
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   - Price: Under $5 for lunch
   - Website: San Francisco - google.com
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User-created content
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**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**
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
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!
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Countdown to EveryScape launch Fall 2007

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.

NyScapes

How can you become a Scape Artist?

Vote now for your Scape City or Town

>> Partner up with EveryScape
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

<table>
<thead>
<tr>
<th>Attribute</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005 population estimate</td>
</tr>
<tr>
<td>Facebook users</td>
</tr>
<tr>
<td>Facebook users per capita</td>
</tr>
<tr>
<td>Facebook users per 10k people</td>
</tr>
<tr>
<td>Name of geographically associated region(s)</td>
</tr>
<tr>
<td>Network</td>
</tr>
</tbody>
</table>

Create a Custom Report

To get started, drag up to four attributes here.

This data is licensed under a Creative Commons Attribution 3.0 License.
weogeo is another youg 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
What’s My House Worth? How much is your house worth? We use a professional algorithm to determine the value of your home.

Neighborhoods
Find an area you like. We show you what it takes. Map, H.S. & more.

What is Walk Score? We help homebuyers, renters, and real estate agents find houses in walkable neighborhoods. Walk Score shows you a map of what’s nearby and calculates a Walk Score for any property. Buying a house in a walkable neighborhood is good for your health and good for the environment.
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 5610 devices. The software takes pictures, and associates each photo with GPS location, height, and bearing. The software outputs 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
PicEarth Live Processing is a Win32 software that is designed to work with advanced PicEarth Systems. Live video and GPS data are streamed in real-time from the aircraft, and processed on the ground.
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**
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  - brady@oreilly.com
  - Where 2.0
    - Conferences.oreilly.com/where
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.
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
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