privacy for cyborgs?

tlr@w3.org/@roessler

privacyOS Strasbourg 2008

Mozilla Labs » Geode: Welcome



labs.mozilla.com > geode_welcome /



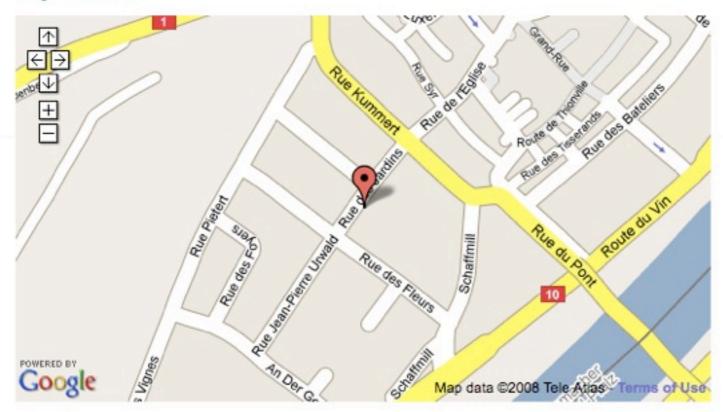


implementation of geolocation for the current version of Firefox uses a single hard-coded location provider to enable Wifi-based positioning conforming to the W3C Geolocation specification so that developers can begin experimenting with enabling location-aware experiences today.

It's not just resturant lookups that location enables on the desktop. For example, imagine an RSS reader that knows the difference between home and work and automatically changes it's behavior appropriately. Or a news site whose local section is, in fact, always actually local. Or a bank that only allows you to login from certain physical locations, like your house.

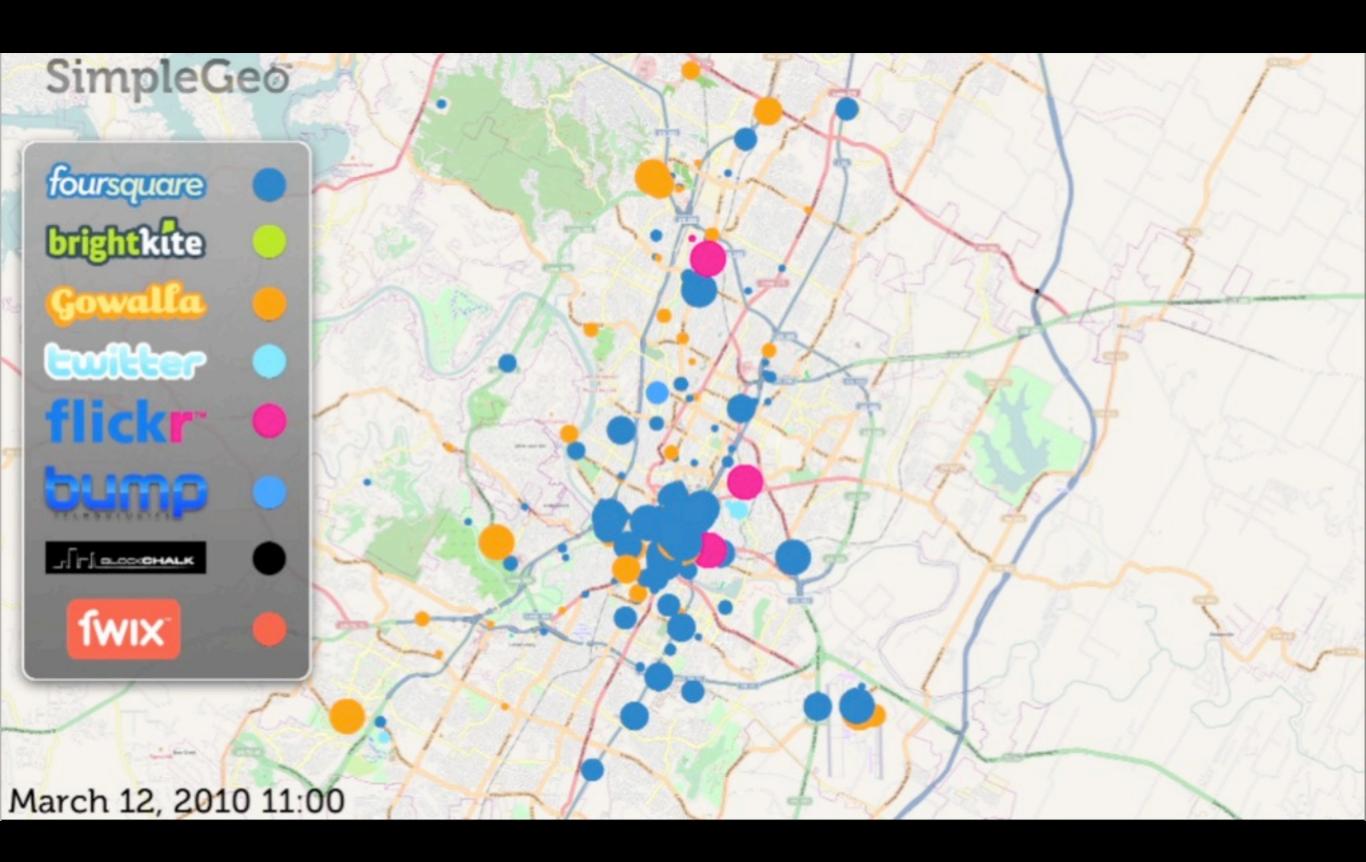
What will you imagine? Even if you can't code, you can share your thoughts via the Concept Series, a forum for surfacing, sharing, and collaborating on new ideas and concepts.

Try It Out



To see Geode in action you can also check out the demo Food Finder, which shows you cafes and restaurants within walking distance.

geolocation is happening

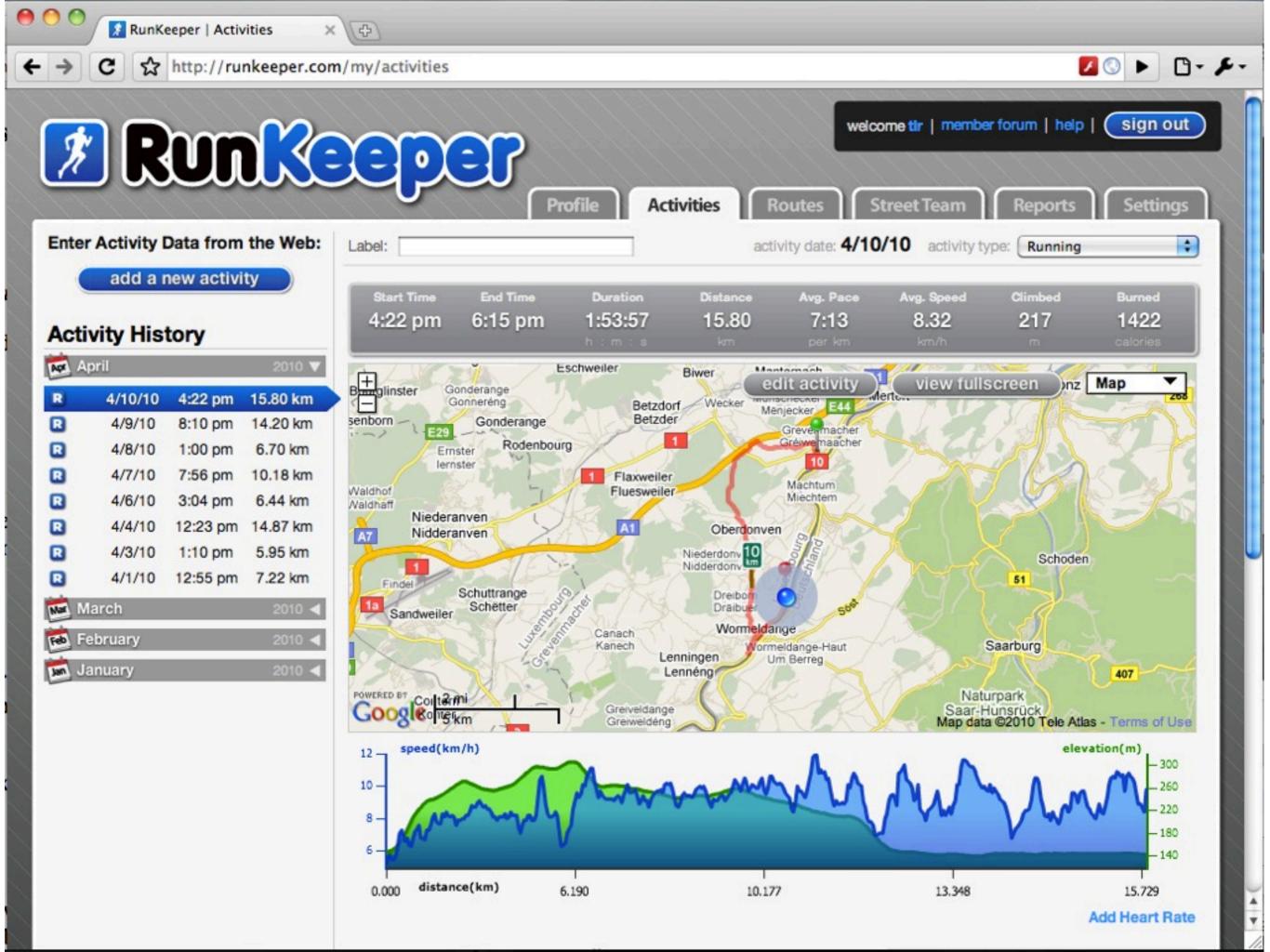


"early adopter games"

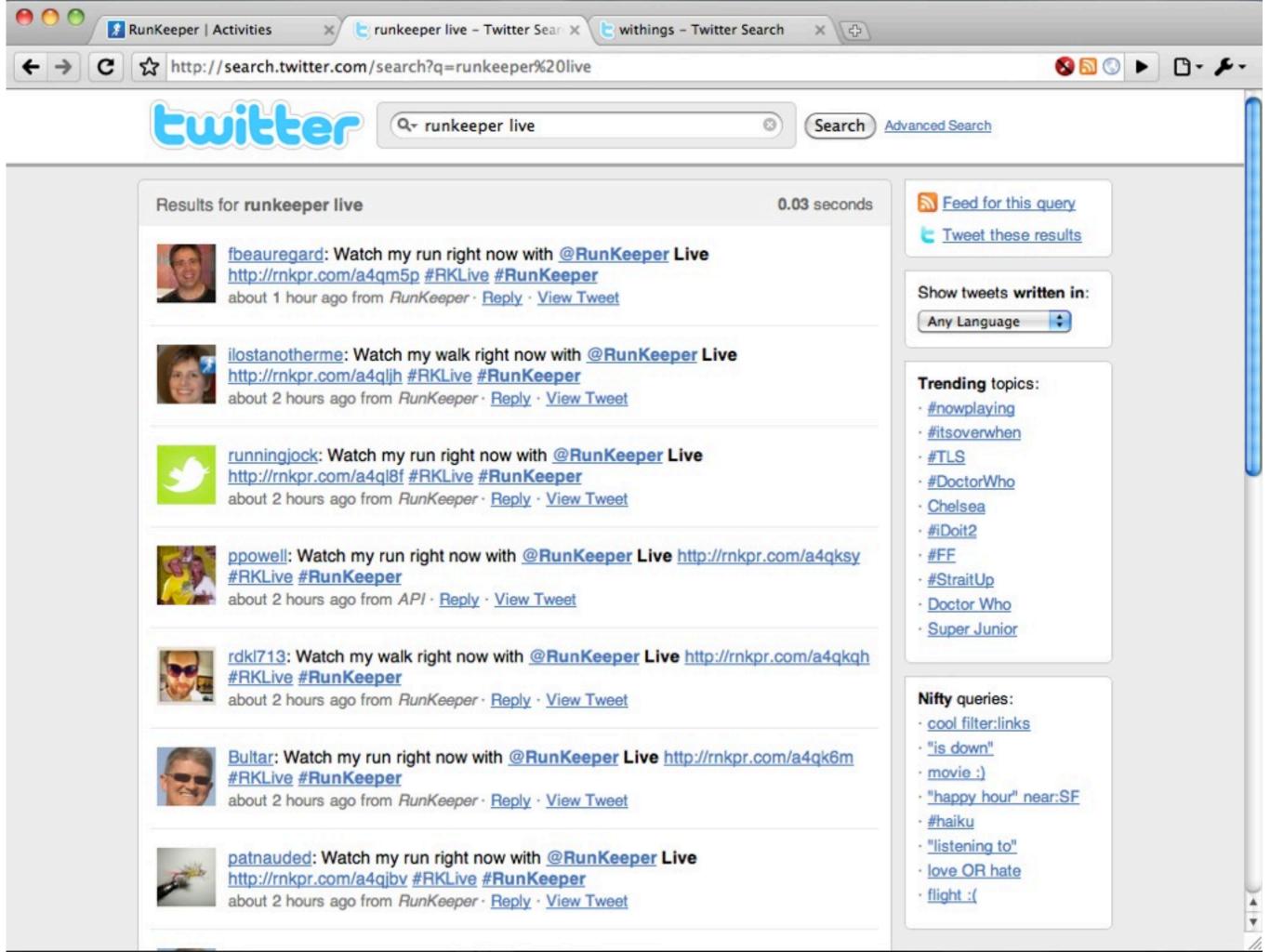
instrumenting our lives

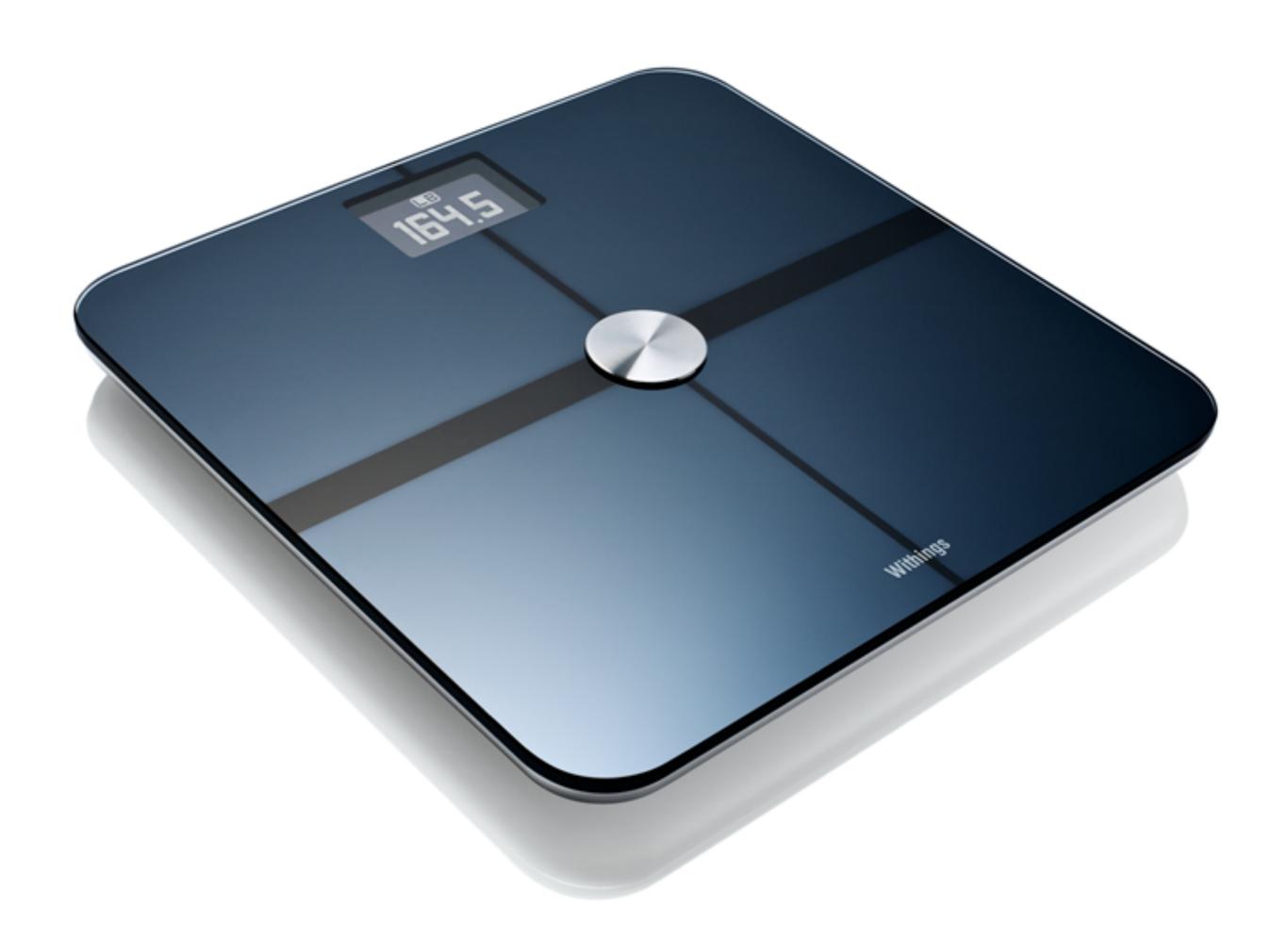


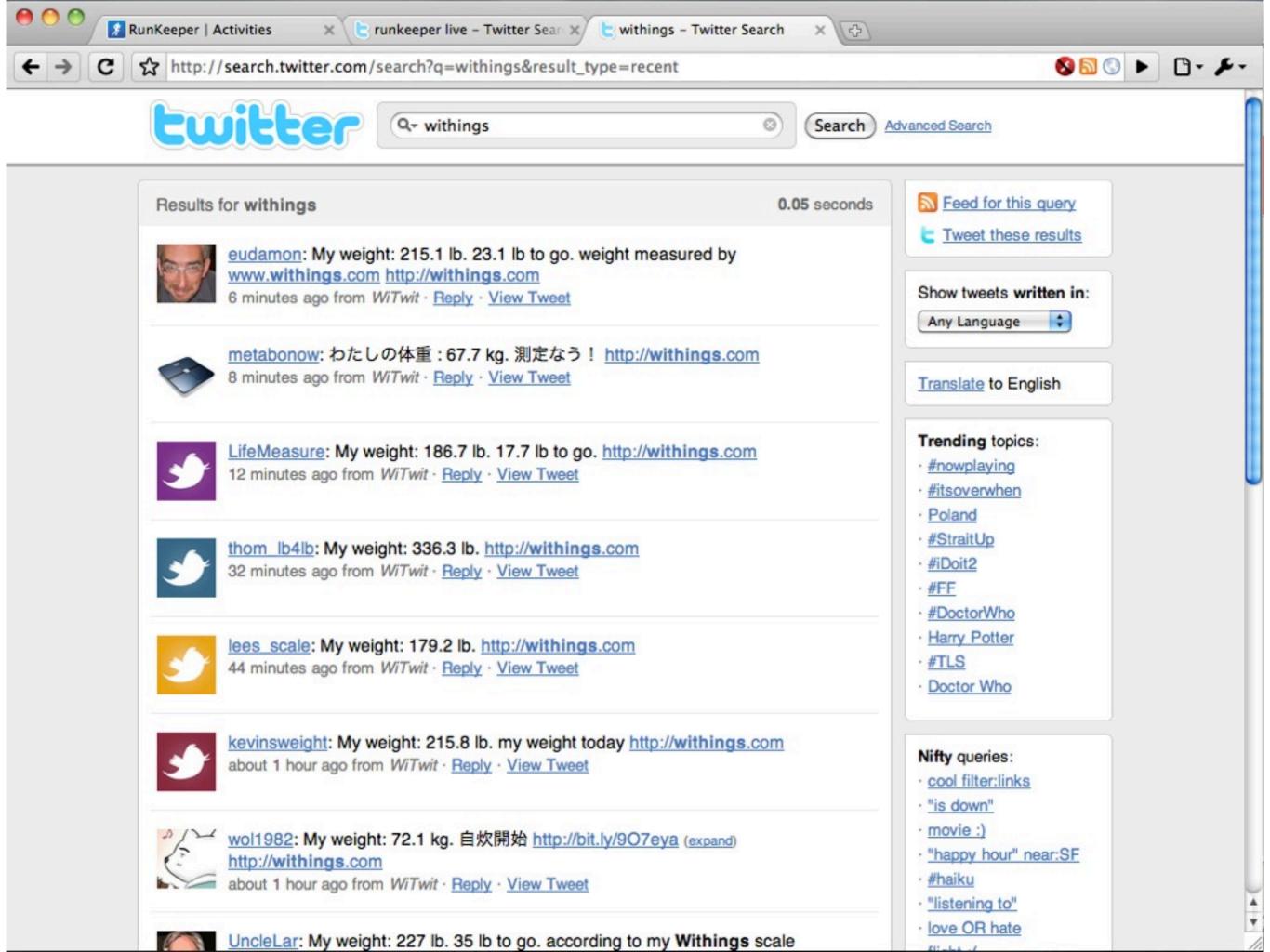


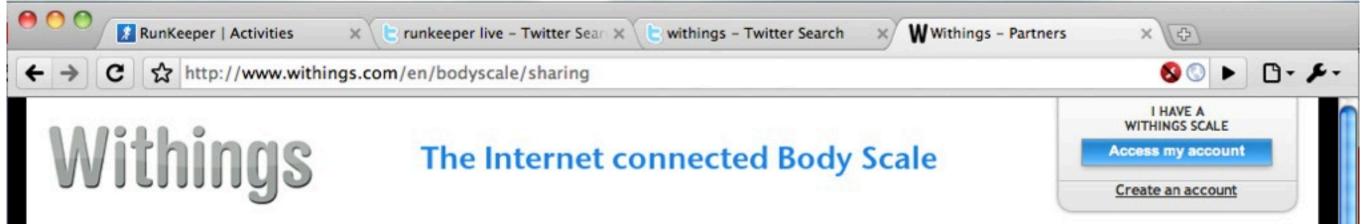


broadcasting our lives









Sharing

Fitness and health

A world of possibilities with The Withings Body Scale

Monitoring

Design

Homepage

You subscribed an online coaching program? You like to share your progress with your community? Or maybe you want to store all your health information in one place? The Withings Body Scale can directly and securely send your data (weight, IMC, fat mass, Lean mass) to the best players in these areas.

Imagine that by just stepping on the scale, your body analysis data can be sent directly to community sites such as Facebook or Twitter, services of personal health record, or to nutrition coaching and and fitness coaching websites. These services can then use your measurements to advise you and accompany you in your diet or in your fitness activity.

Service providers compatible with the Withings Body Scale

The services listed below are already connected with the Withings Body Scale. This list grows very quickly.



DailyBurn is the premier fitness tracking social network. We help people meet their health and fitness goals by finding workout programs, tracking food and nutrition, and connecting them with others for motivation.

Specifications

Special Deal - get a 20% off on the DailyBurn Pro Plan thanks to this coupon code: DBWITHINGS20

Purchase

Sharing



















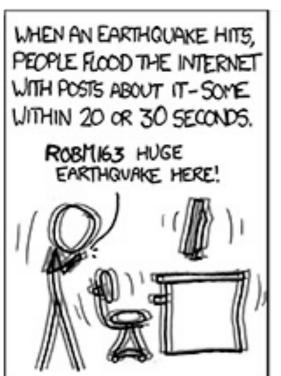


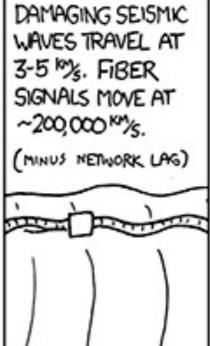


WE'RE IN A NARROW WINDOW IN WHICH PEOPLE ARE USING GOOGLE LATITUDE, BUT HAVEN'T LEARNED THE HABIT OF TURNING IT OFF WHEN THEY'RE DOING SOMETHING DISCREETLY.	
I WROTE AN APP TO LOG FRIENDS' LOCATIONS AND WORK OUT ADDRESSES AND BUSINESS NAMES.	

		LOCATIONS				
	Н	TIME	MEGAN	ROBER		
ÆΕ	Н	11:00 AM	HOME			
Y.		12:30 PM	EASTVIEW ADULT TOY STORE	HOME		
	Ш	1:30 PM	HOME			
og RK		2:00 PM	LAKETOWN SEX TOY SHOP	SCHOO		
JD	Ш	2:30 PM	HOME			
S.	Ш	3:00 PM	FRY'S ELECTRONICS			
		3:30 PM	ED'S POWER TOOL EMPORIUM	SUBWA		
	Ш	4:00 PM	HOME			
		4:10 PM	HOSPITAL BURN WARD			

the web: a social sensor network





THIS MEANS WHEN THE SEISMIC WAVES ARE ABOUT 100 KM OUT, THEY BEGIN TO BE OVERTAKEN BY THE WAVES OF POSTS ABOUT THEM.



PEOPLE OUTSIDE THIS RADIUS MAY GET WORD OF THE QUAKE VIA TWITTER, IRC, OR SMS BEFORE THE SHAKING HITS.

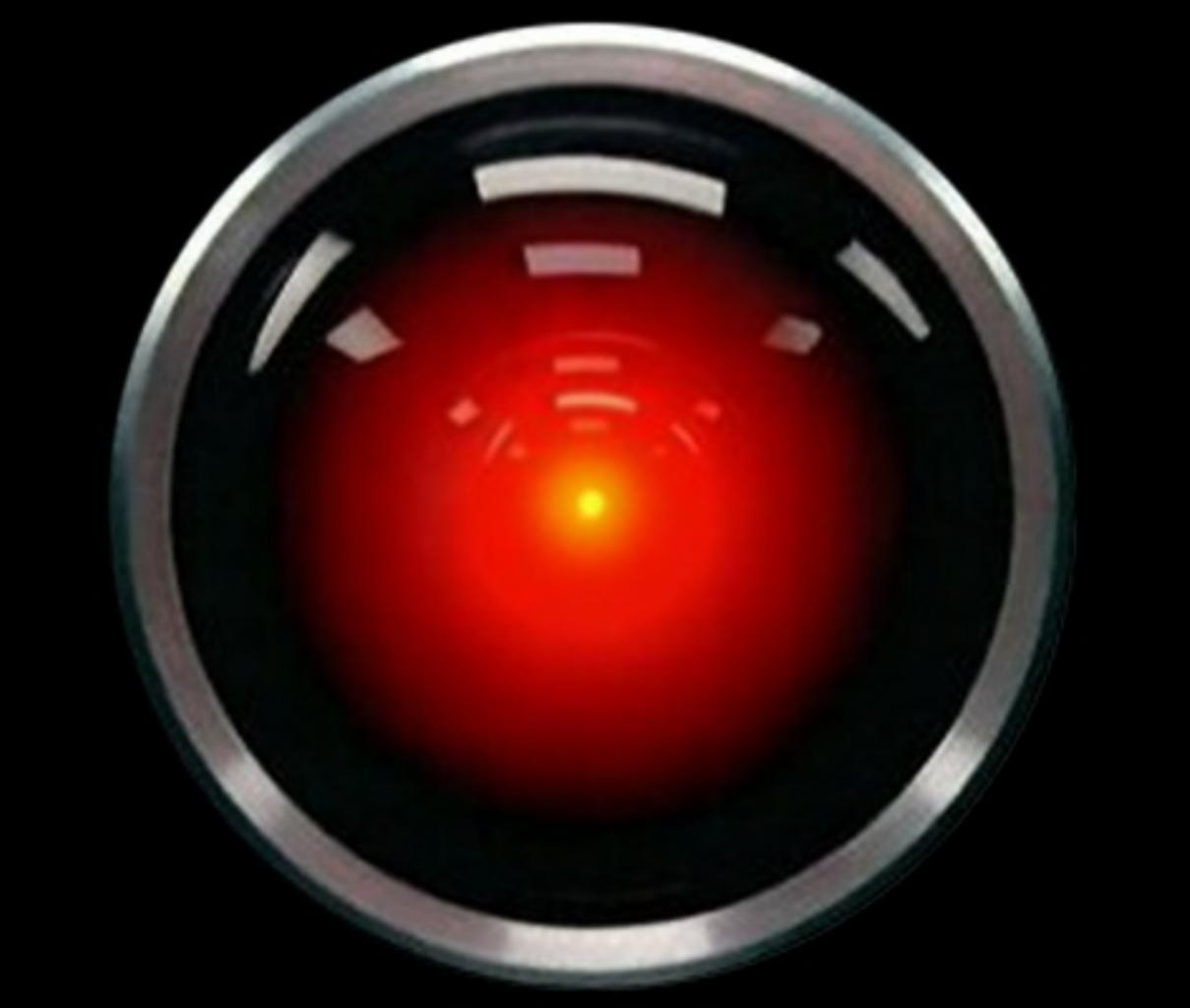
WHOA! EARTHQUAKE!



SADLY, A TWITTERER'S FIRST INSTINCT IS NOT TO FIND SHELTER.

RT @ ROBM163 HUGE EARTHQUAKE HERE!





privacy in web technologies?

separation of concerns

players:

users

user agents

service providers

what could the user agent do?

user consent

notice and transparency

data minimization

e.g., only say what city the user is in

user preferences

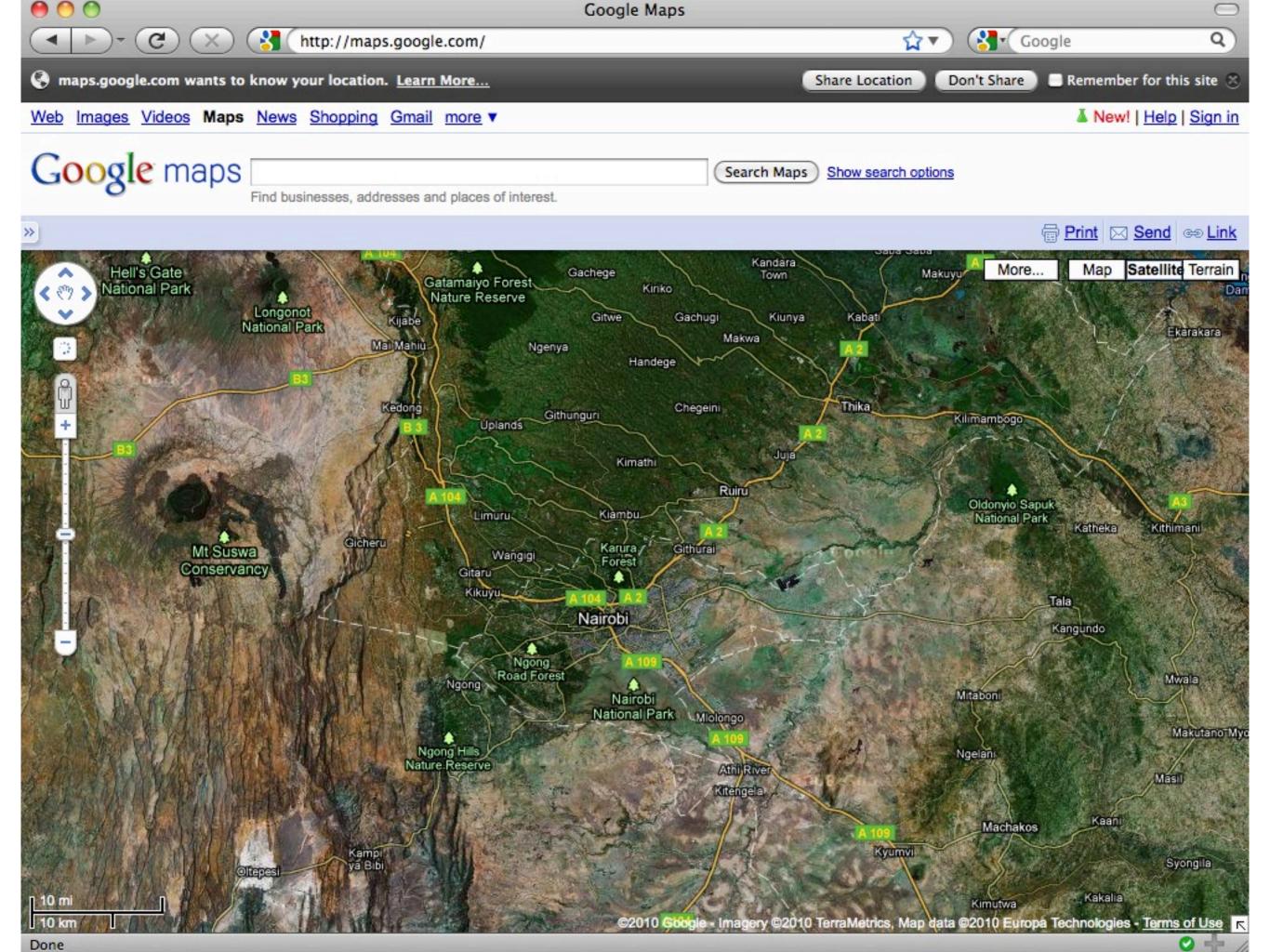
e.g., retention time

e.g., permission to retransmit

display the provider's policy, match it against user preferences

not deployed in current browsers

deployment incentives?





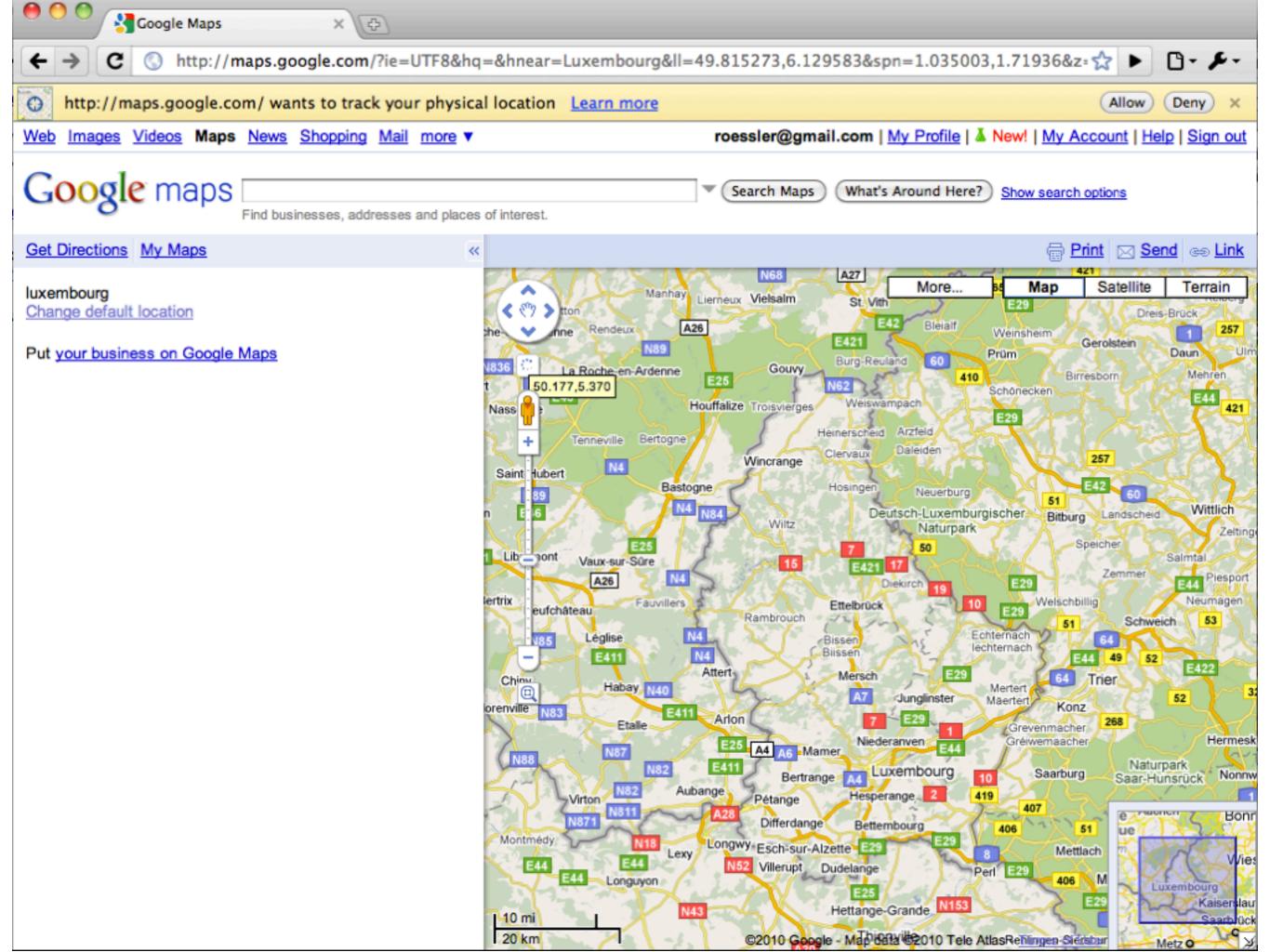
maps.google.com wants to know your location. Learn More...

Share Location



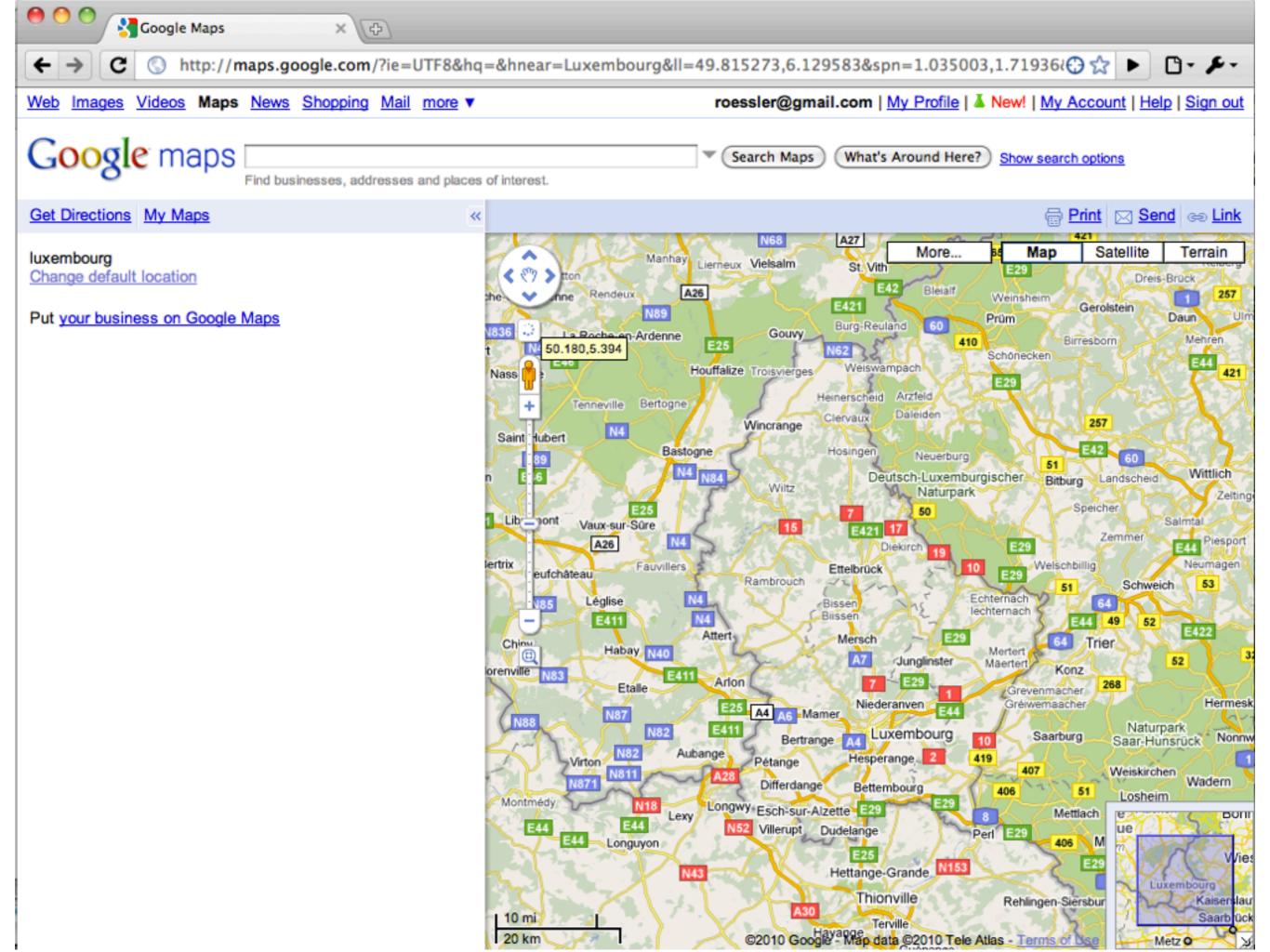
Don't Share Remember for this site

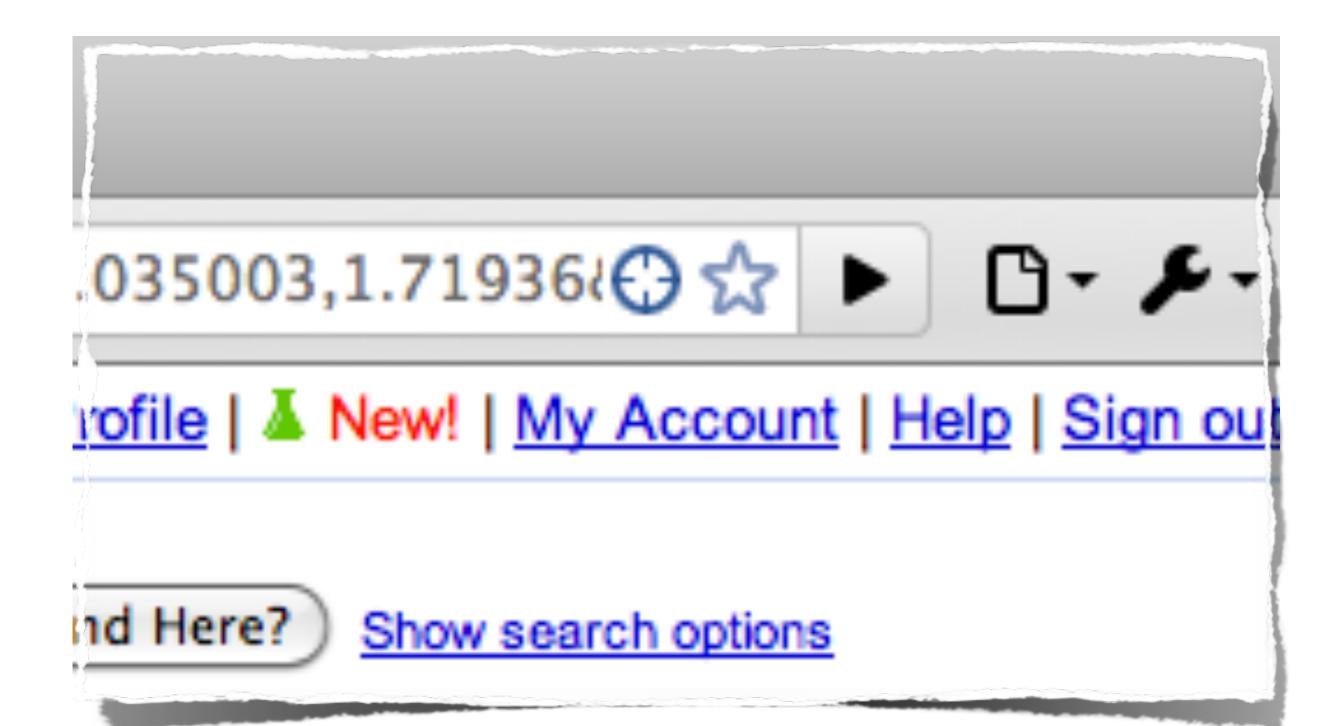


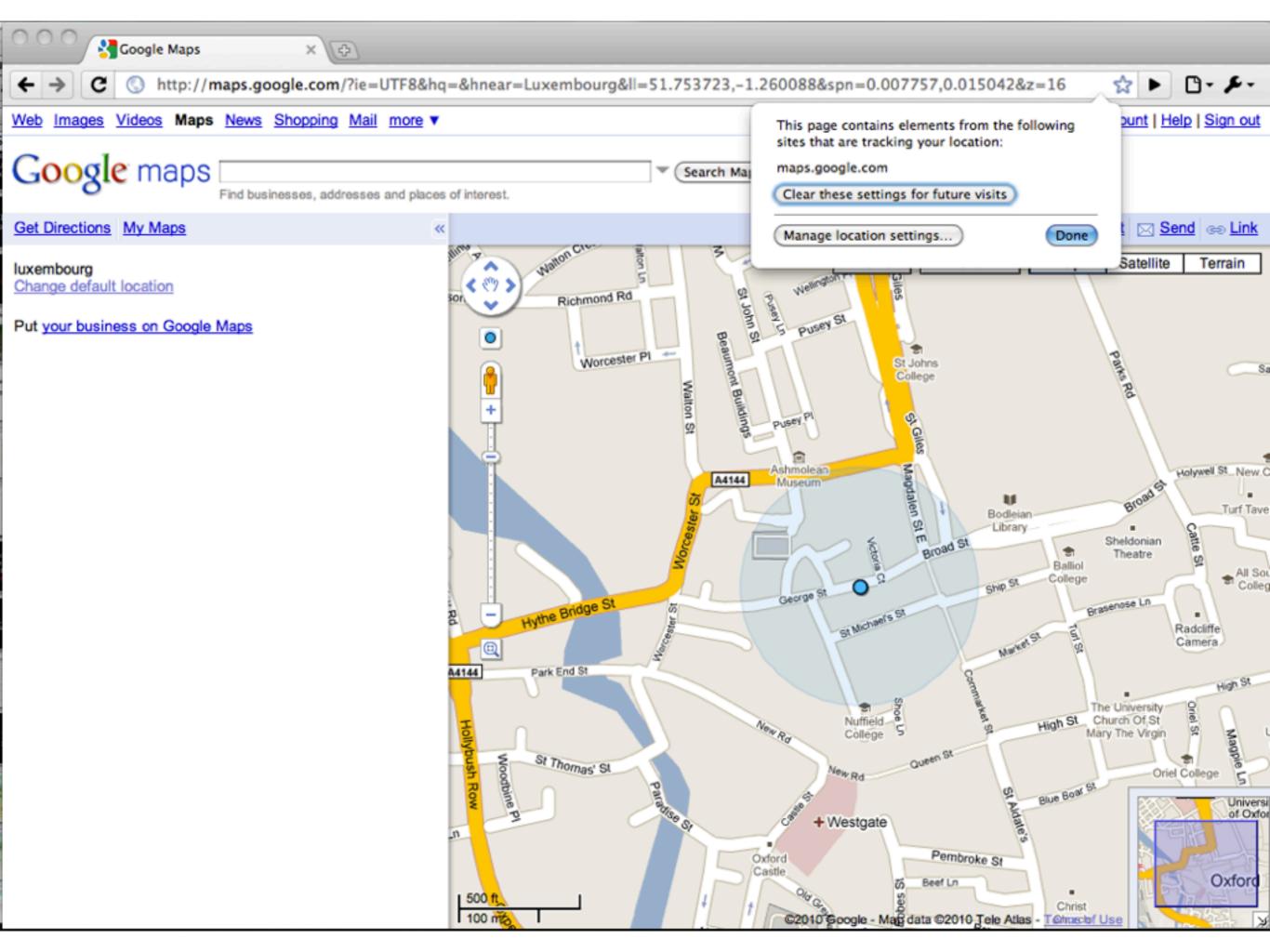


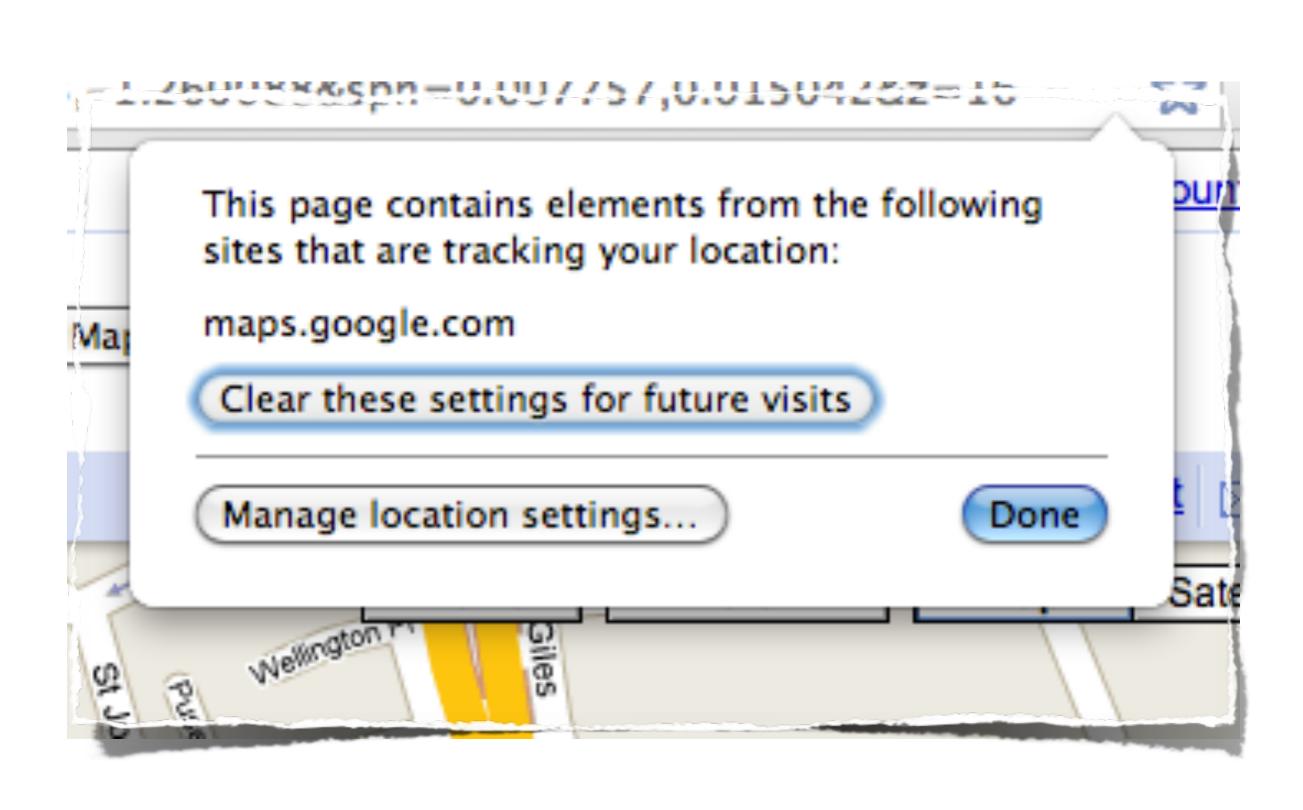


http://maps.google.com/ wants to track your physical location Learn more









location privacy: concern for user and service provider alone?

how about the service providers?

geolocation API specification

http://www.w3.org/TR/geolocation-API/

Recipients must only request location information when necessary. Recipients must only use the location information for the task for which it was provided to them. Recipients must dispose of location information once that task is completed, unless expressly permitted to retain it by the user. Recipients must also take measures to protect this information against unauthorized access. If location information is stored, users should be allowed to update and delete this information.

The recipient of location information must not retransmit the location information without the user's express permission. Care should be taken when retransmitting and use of encryption is encouraged.

Recipients must clearly and conspicuously disclose the fact that they are collecting location data, the purpose for the collection, how long the data is retained, how the data is secured, how the data is shared if it is shared, how users may access, update and delete the data, and any other choices that users have with respect to the data. This disclosure must include an explanation of any exceptions to the guidelines listed above.

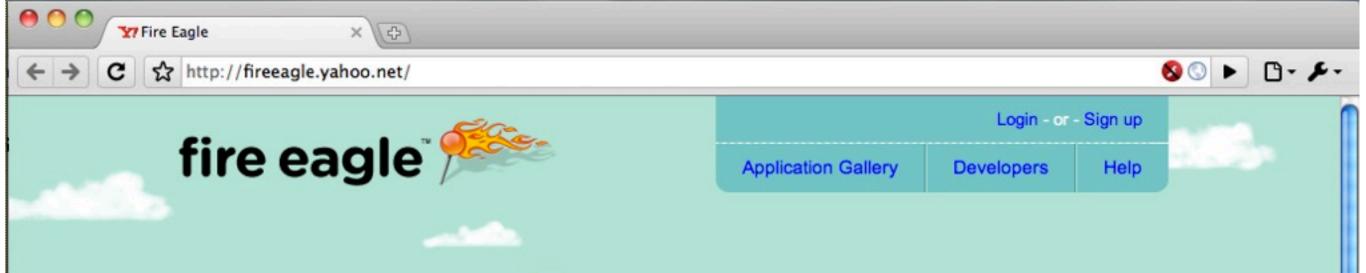
http://www.w3.org/TR/geolocation-API/

<reality>

Doty, Mulligan, Wilde, 2010

	What does it do?	Informed up front?	In Privacy Policy?	Lets use inspect?
Google Maps	Zoom the map to your location.	×	•	×
Google Local	Nearby points-of-interest.	×	~	×
Flickr	Show pictures taken nearby.	×	×	×
Travelocity iPhone	Search for nearby hotels.	×	×	•
AskLaila	Search for businesses in India.	×	×	•
Search.ch	Find Swiss train schedules.	×	×	×
ldenti.ca	Attach your location to public microblog posts.	*	×	×
Foreca Weather	Get the weather forecast.	×	×	×
BooRah Restaurants	Show restaurants near you.	×	×	×
GoThere	Singaporean points of interest.	×	×	×
The Rocky Horror Picture Show	Find Rocky Horror showtimes nearby.	×	×	×
GraffitiGeo	Show tagged locations nearby.	×	×	×
GeoMail	Add your location to an email.	×	×	•
Our Airports (mobile)	Show nearby airports.	×	×	V
Our Airports	Show nearby airports.	×	×	V
Plemi	Find nearby concerts.	×	×	×
AskAround.Me	Answer geotagged questions.	×	×	×
gMapTip WordPress	Add a map to a blog post.	×	×	×
Your Mapper	See map data for your location.	×	•	V
BackNoise	Semi-private conversations.	×	×	×
BailBond.com	Find a nearby bail bondsman.	×	×	V
Toupil.fr	Search for businesses in France.	×	-	×

third parties to the rescue?



Take your location to the web!

Update anywhere

- · Send updates from your phone
- · Update from your favorite sites
- · Do it automatically or manually



Choose what to share

- · You control your data
- · You choose who to share with
- You choose how much to share



Get started! It's free and easy

Join Fire Eagle!

Have fun on the web!

- · Show your location on your blog
- · Share it with your friends
- · Discover cool stuff around you

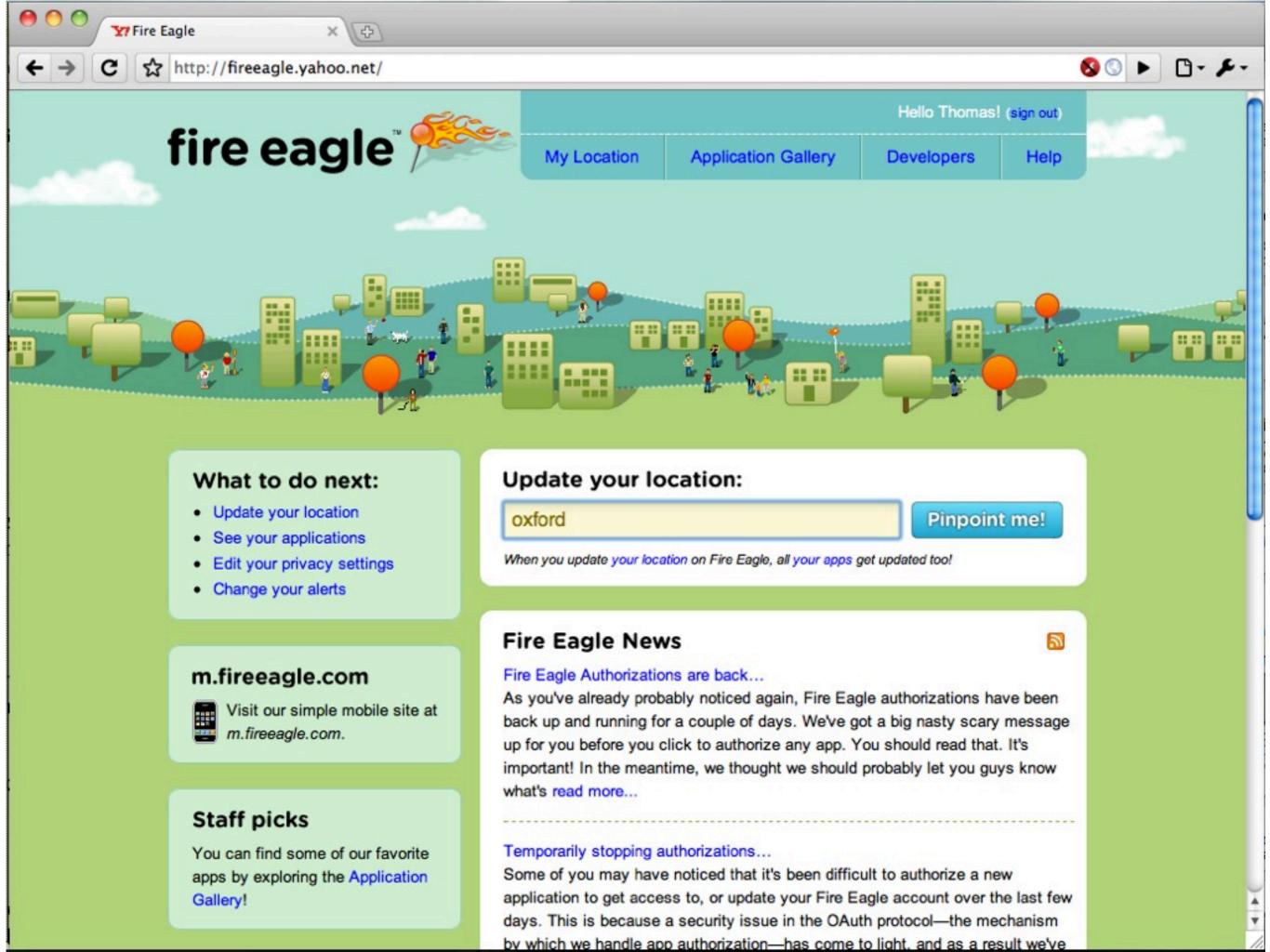


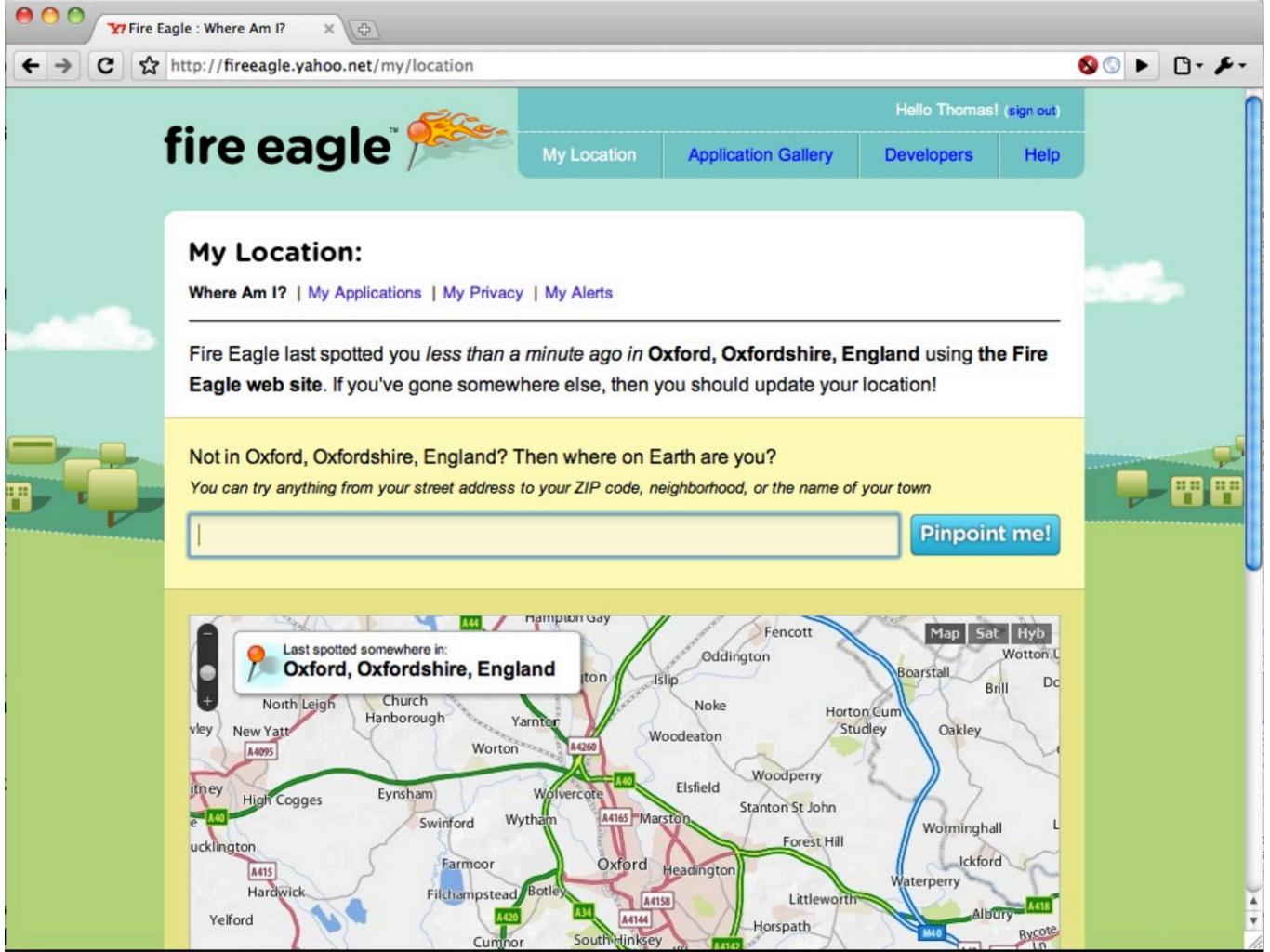
Get the latest news about Fire Eagle

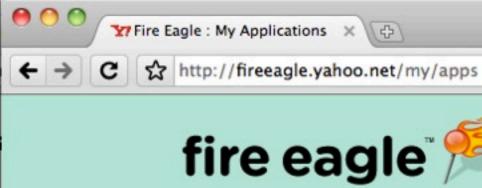
- Fire Eagle Authorizations a...
- You can find out more about all
- . Temporarily stopping author... the cool stuff you can do with

Member login

Already a member? Log in to manage your location and



















My Location

Application Gallery

Developers

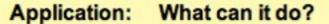
Hello Thomas! (sign out)

Help

My Location:

Where Am I? | My Applications | My Privacy | My Alerts

These are the applications you have authorized to update or use your location information. On this page you can change what these applications are allowed to do on your behalf.



Doppir Can read your location at the city level

Can set your location

Edit settings



Recent Activity:

Updated 25 days ago

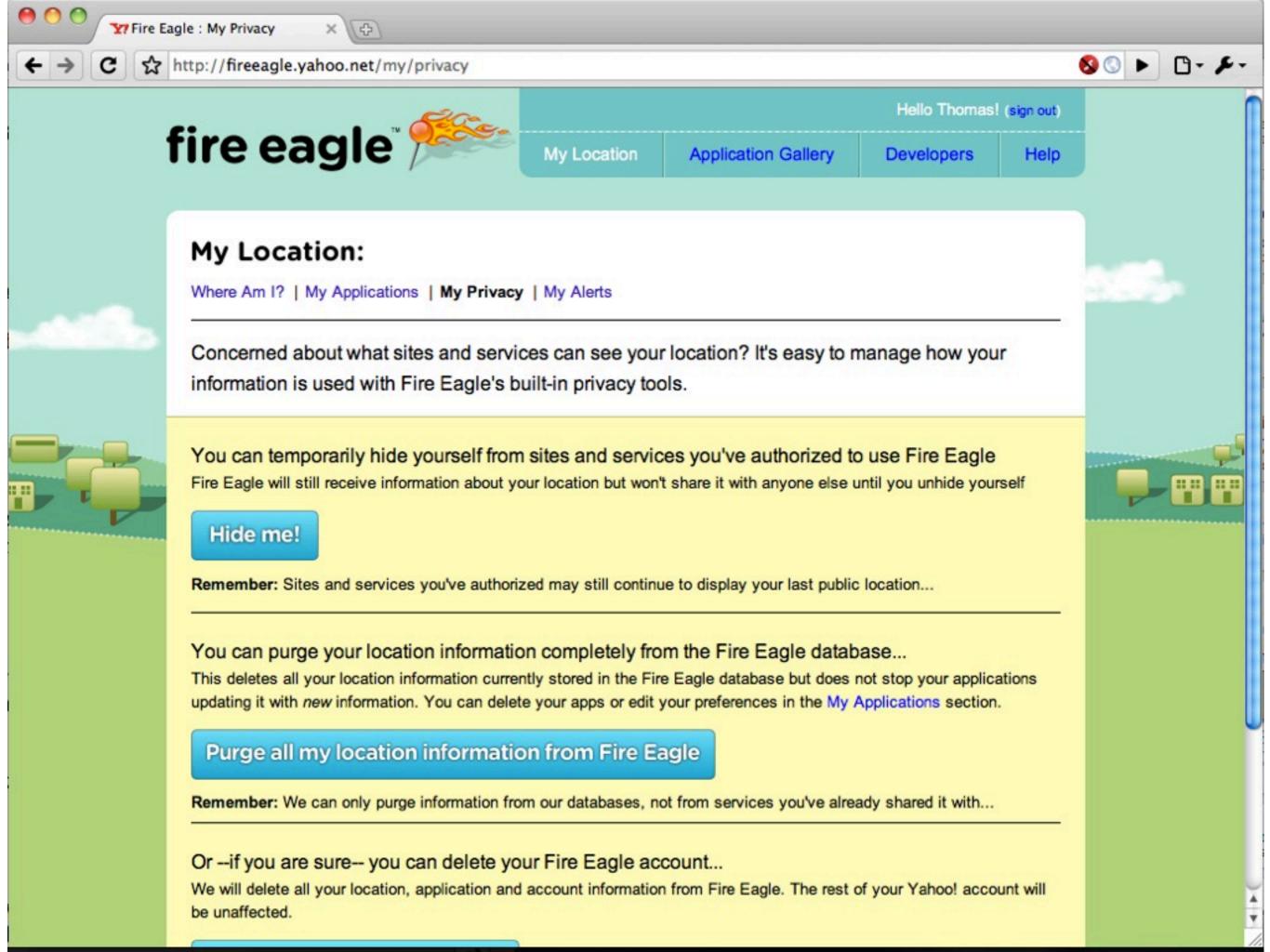
FireCheckIn Can read your location at the exact level

Can set your location

Edit settings



Updated about 5 hours ago



what's next?

Capture

http://www.w3.org/TR/capture-api/

Contact

http://www.w3.org/TR/contacts-api/

System Status

http://www.w3.org/TR/system-info-api/

...and more "device APIs"...

"just like geolocation"

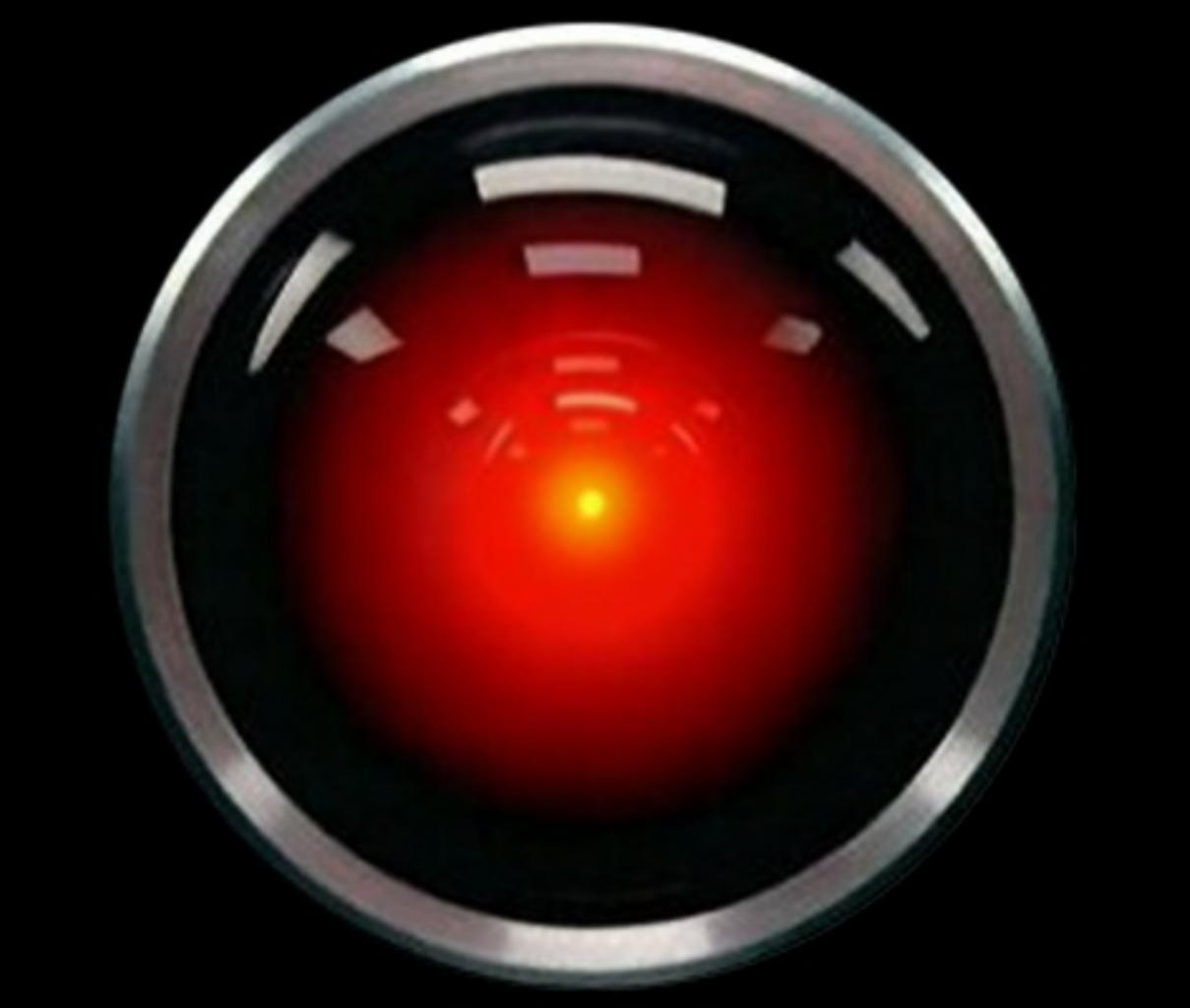


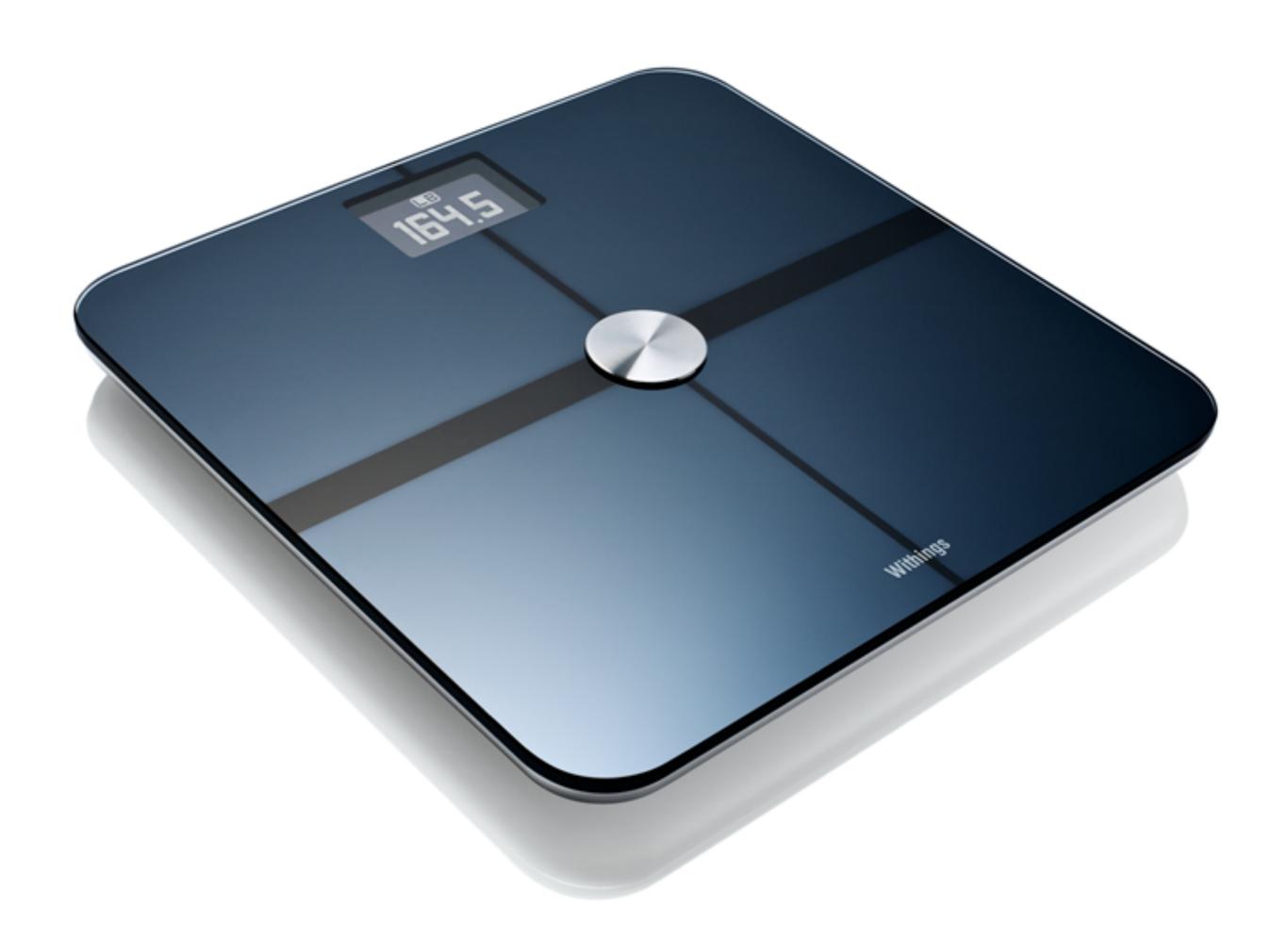
privacy requirements

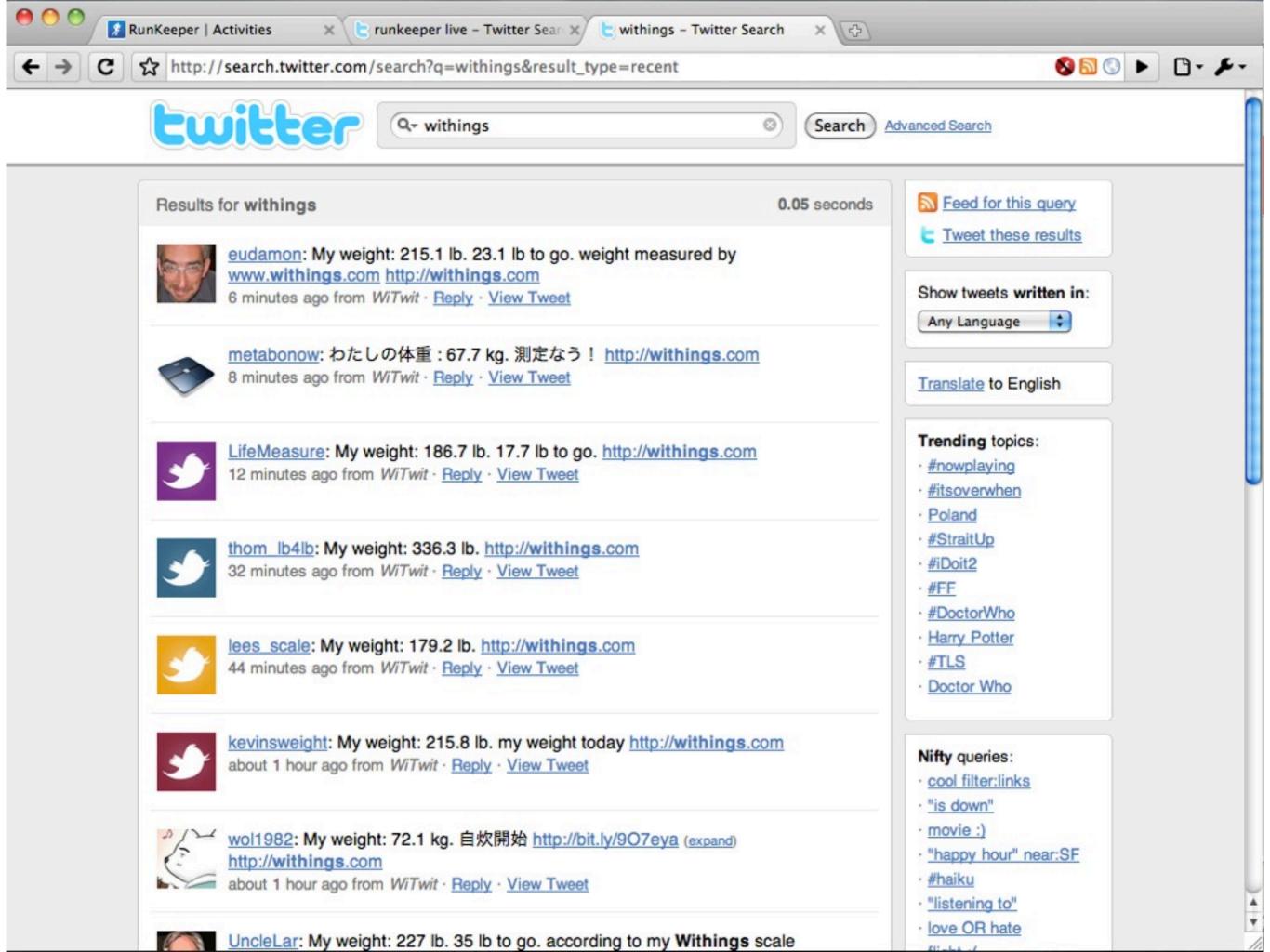
http://dev.w3.org/2009/dap/privacy-reqs/

Privacy Element	Requirements for API Definitions	Requirements related to User Expectations of Data Use	Best practices for developers	
Notice	X		X	
Consent	X			
Minimization	X		X	
Control	X		X	
Access	X		X	
Retention		X	X	
Secondary Use		X	X	
Sharing		X	X	

http://dev.w3.org/2009/dap/privacy-reqs/









policies?

who writes the them?

who mediates the them?

where are the deployment incentives?

usability?

where do we go from here?



tlr@w3.org/@roessler