

# Smartphone Geolocation

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# Breakout overview

- Play with some real data (my whereabouts, according to my phone)
- Visualize it in Google Maps
- Find other things to do with it
- Discuss privacy issues

# Data collection

- All smartphones log your location
- For my experiment, I created a separate log using Automagic between between June 25 and August 6
- Data point every 10 minutes
- Lots of data, lots of unreliable data



Periodic Timer:  
every 10m



Init Variable  
Location: location  
using Network,  
Timeout 7m



Write to File:  
{triggertime,datef  
ormat,yyyy-MM-  
dd HH:mm:ss}  
{location}



98 3:40

CANCEL SAVE

**ACTION TYPE**

Init Variable Location ?

**NAME**

Default Name

Init Variable Location: new location into location using Network, Timeout 7m

**VARIABLE**

location

**NEW OR LAST KNOWN LOCATION**

New location

Last known location

**LOCATION PROVIDER**

Network

**MINIMUM ACCURACY (IN METERS)**

500

**TIMEOUT** ?

← ⌂ ☰

98 3:41

CANCEL SAVE

**ACTION TYPE**

Write to File ?

**NAME**

Default Name

Write to File: {triggertime,dateformat,yyyy-MM-dd HH:mm:ss} {location} to /storage/emulated/0/mj\_location\_log.txt (append)

**FILE**

/storage/emulated/0/mj\_location\_log ...

**TEXT**

{triggertime,dateformat,yyyy-MM-dd HH:mm:ss} {location}

Append

← ⌂ ☰

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2013-06-25	23:22:56	49.27934,	-122.9061
2013-06-25	23:25:50	49.27932,	-122.90618
2013-06-25	23:35:50	49.27935,	-122.90613
2013-06-25	23:45:50	49.27934,	-122.90616
2013-06-25	23:55:50	49.27933,	-122.90617
2013-06-26	00:05:50	49.27934,	-122.9062
2013-06-26	00:15:50	49.27933,	-122.90616
2013-06-26	00:26:14	49.27932,	-122.90618
2013-06-26	00:35:50	49.27934,	-122.90619
2013-06-26	00:45:50	49.27932,	-122.90623
2013-06-26	00:55:50	49.27933,	-122.90621
2013-06-26	01:05:50	49.27933,	-122.90623
2013-06-26	01:15:50	49.27933,	-122.9062
2013-06-26	01:25:50	49.27933,	-122.90619

4,384 data points

## Import new table



From this computer



Google Spreadsheets



Create empty table

Choose File

No file chosen

You can upload spreadsheets, delimited text files (.csv, .tsv, or .txt), and Keyhole Markup Language files (.kml) [Learn more](#)

Or search public data tables



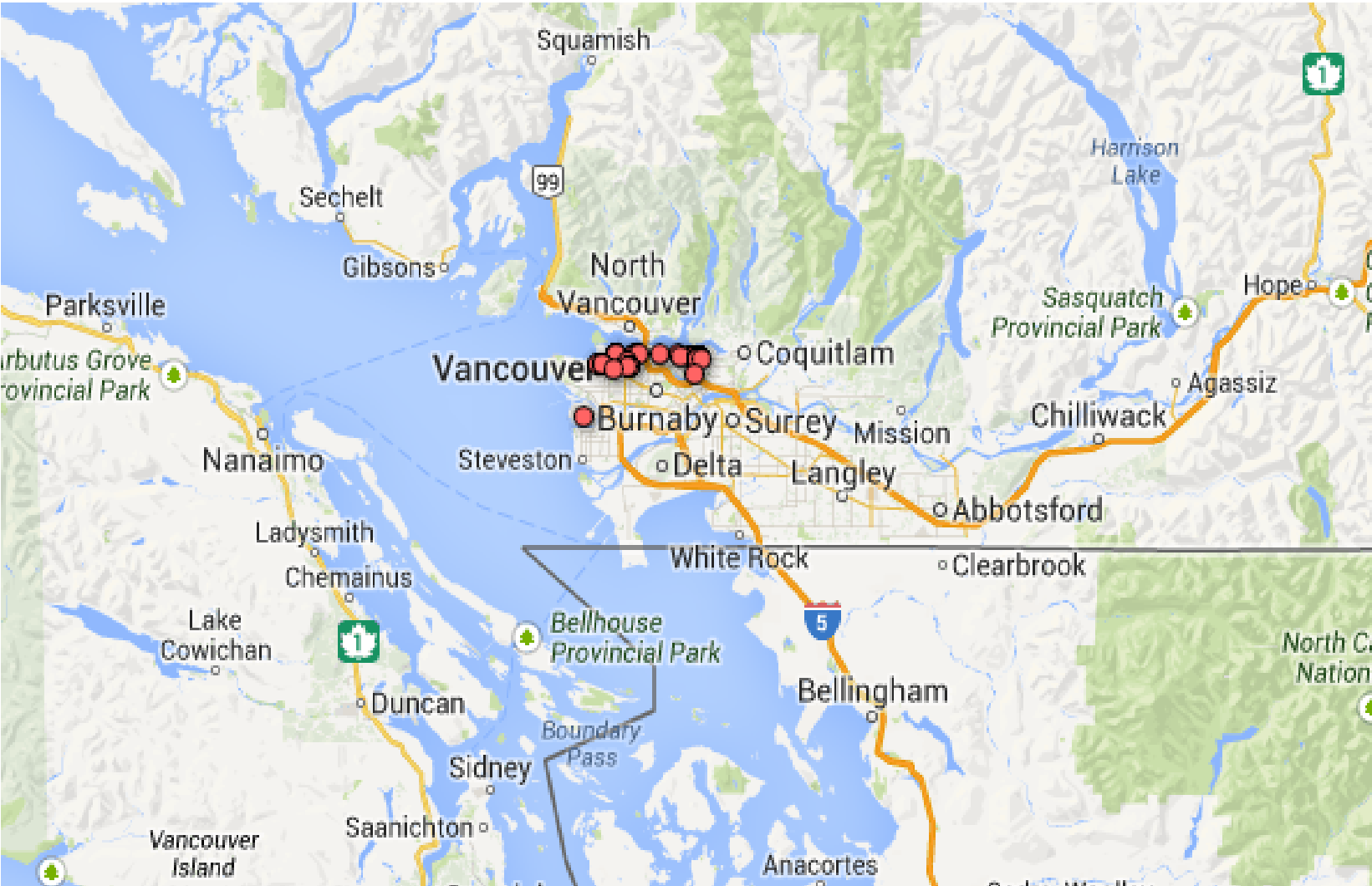
### New to Fusion Tables?

Take a peek! [Play with a data set](#) or [try a tutorial](#).

Cancel

« Back

Next »





# Yeah, but...

- Is location tracking a bad thing?
- Can collecting it be turned off?
- What happens if I do turn it off?
- What do evil companies do with your location data?
- What about tracking that is done in like in stores and other places using Indoor Positioning Systems?