

# **CrowTrax**

**A GIS for Crow Attacks** 

Jim O'Leary

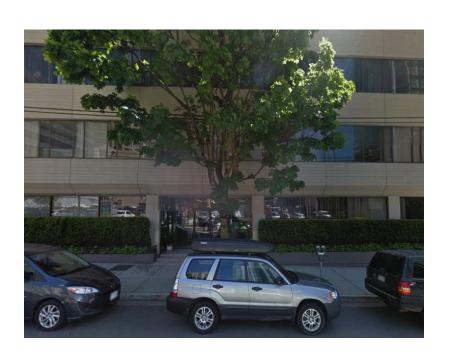
#### **Outline**

- Why I did it
- What it looks like
- How people responded
  - Media response
  - Public response
- What's under the hood
- What is the future of single-purpose geo-apps





- Crows are nice
- Except in spring
- Crows are not nice
  - Protect fledgling crows
  - Attack anything near
    - and far



- Downtown Vancouver
- Many trees
- Many crows
  - Right outside our building



Sign in front of 814 Richards Street, Spring, 2015

- Spring 2015
- Many people-crow collisions
- Let's track those crows!



- Langara College
- New GIS Program
- A little publicity?
- Sorry to plug my product!



CrowTrax
A GIS for Crow Attacks

Langara.
THE COLLEGE OF HIGHER LEARNING.

- CrowTrax Website
- http://giscourses.net/crowtrax/crowtrax.html





- Media response
- 24 Hours



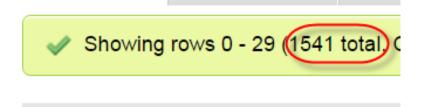
- Media response
- CBC
- Message sent:
  - "GIS is useful"
  - "Open Source is useful"
- News report
  - "Beware of crows"
  - "Alfred Hitchcock"



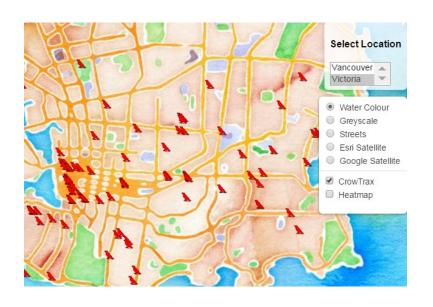
- Public response
- Crows attack:
  - Other birds
  - Cats
  - Dogs
  - Squirrels



- Public response
- Traumatic experience
  - "Attacked from behind"
  - "10 years ago"
- Personalized
  - "On their list"



- Public response
- Expected 200 responses
- Received over 1,500 legitimate responses
- Several hundred bogus responses



- Victoria called
- Magpie season in Australia
- BBC World Service?



# What's Under the Hood



http://giscourses.net/crowtrax/crowtrax.html

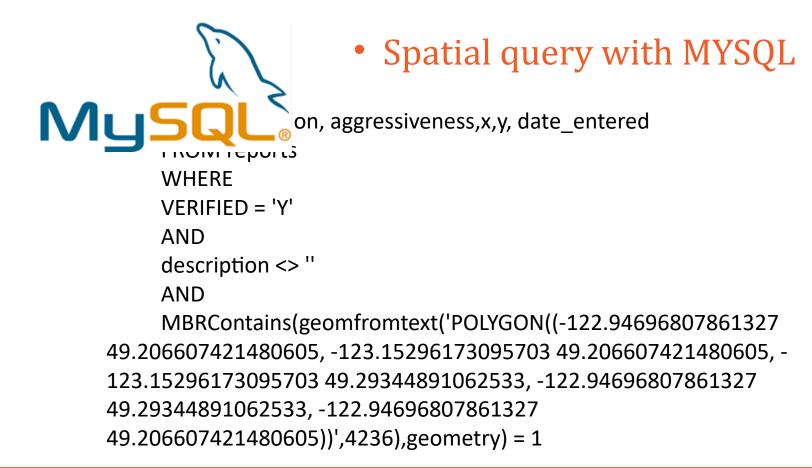
- Leaflet API
  - Unlimited usage
  - http://leafletjs.com/
- Google Maps
  - Free until
     exceeding 25,000 map
     loads per 24 hours

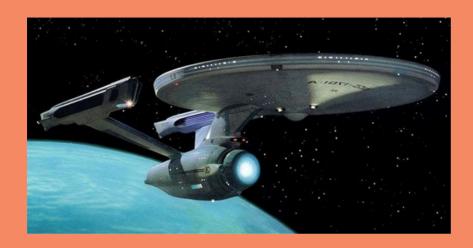


- Google Fusion Tables
  - 25,000 requests per day
  - 250 MB per table

#### https://

fusiontables.google.com/DataSource?do cid=1Y9ldKq7uC1k\_oW0psaJ8BjPMbfCq WQOcNs6ptcGw#rows:id=1





"to boldly go where no man has gone before"



- How to make GIS popular?
- Academic approach does not work
- Has to meet a need
- CrowTrax hit a nerve
  - A crow attacked me
  - Who cares about GIS?



- Printing press (1440)
- Revolutionized exchange of information
- Only wealthy could print



Xerox 914

- Photocopier (1959)
  - Revolutionized printing
  - Now everyone can print!



- GIS = Enterprise
  - I don't meanStarship Enterprise
- Government
- Oil
- Mining





- Open source GIS packages
  - Leaflet
  - OpenStreetMap
  - PostGIS
  - QGIS
  - Fusion



- Open Data management systems
  - Search
  - Analyze
  - Create
  - Stream



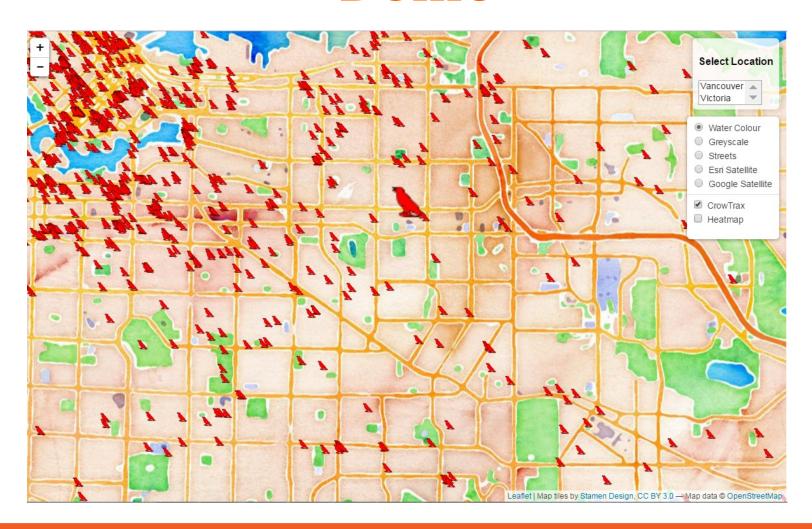
 "Mr. Scott, we need warp speed now!"

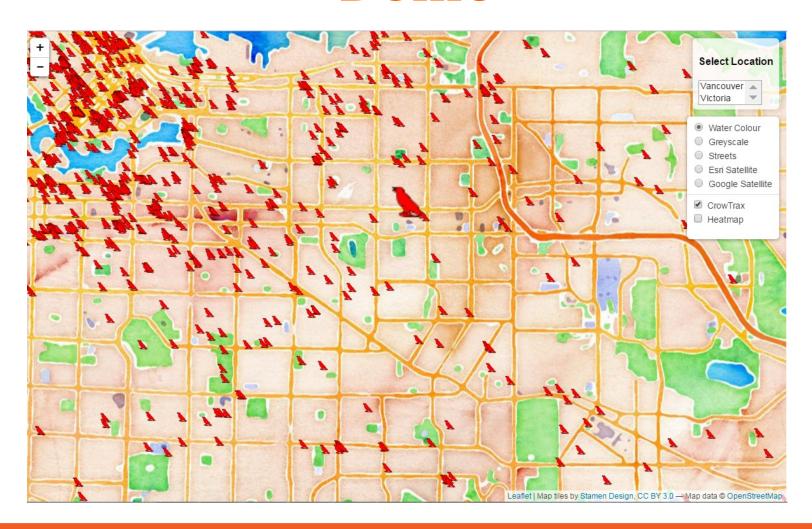
# Thank you!

Questions?









Aggressiveness: 3

What happened: Low nest in tree in front of restaurants, E side of Fraser. Angry mom chases people walking by, is going to wear herself out going after passers-by.

Date: 2016-06-03

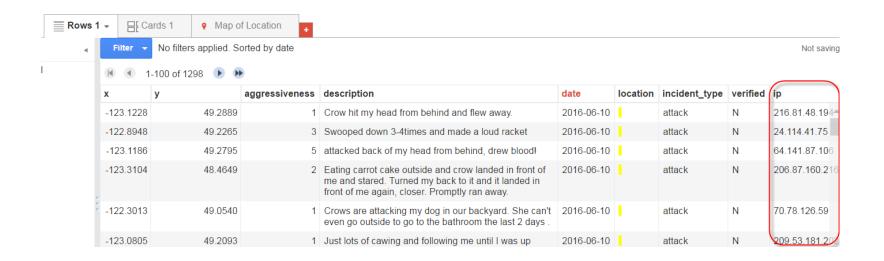


# **Media Response**

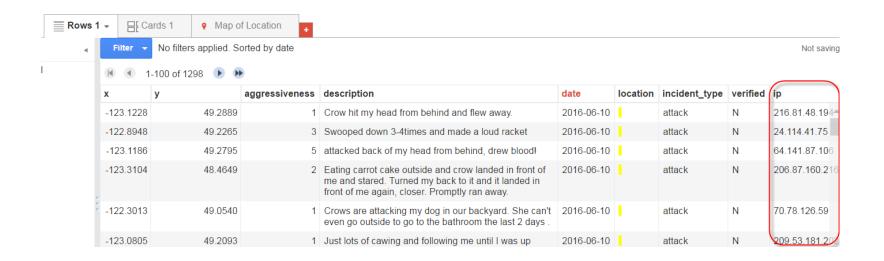


### Media Response





- Google Fusion Tables
- Same usage as Google Maps



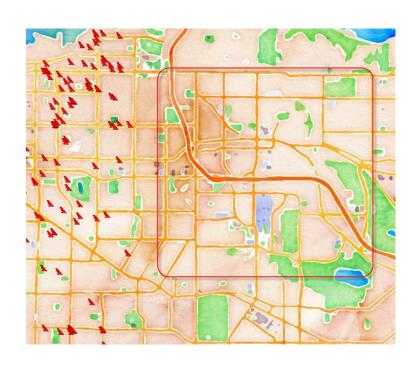
- Switch to MySQL
- Allows spatial queries



• Dragging...



Drag end...



• Drag end...