OPEN DATA INITIATIVE





Agenda

- What is Open Data ?
- Open Data Model
- Why is it important?
- Open Data and Privacy
- The Concordia University Open Data Program
 - Motivation
 - Overview
 - Examples uses cases
 - Current Offer
- Hands on:
 - Create an API account
 - Example response, JSON overview
 - Use excel consume and visualize data



What is Open Data ?

Open data is the idea that some data should be freely available to everyone to use and republish as they wish, without restrictions from copyright, patents or other mechanisms of control

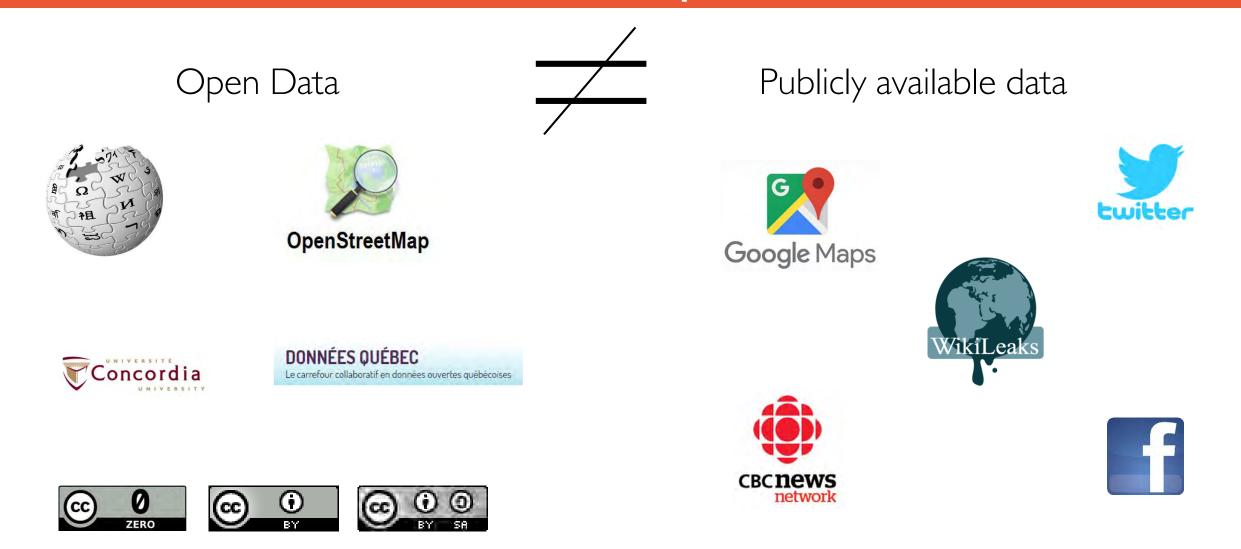


Open Data Model





What is not Open Data ?





Why is it important ?

Economy





Why is it important ?

Transparency

An independent consultant was able to identify a massive tax fraud in the Toronto area by analyzing an open dataset from the Canada Revenue Agency.

	w Open data saved Canada
Cace Study: Ho	w Open data
\$3.2 Billion	
\$3.2 Dime	and formation and the second se
75 Replies	neikin tonight talking about Government 2.0.
Why does open data matter? Ra	In with Steve Paikin tonight talking about Government 2.0. Ther than talk in abstract terms, let me share a well fory about how open data helped expose one of the biggest tax
frauds in Canada's history.	acked by a client to do an analysis of the
the Canada Revenue Agency (Information Returns where ch	CRA) and asked to the CRA their charitable receiptions, the CRA parities disclose to the CRA their charitable receiptions, the CRA er waiting several weeks and answering a few questions, the CRA
After spending time cleaning spreadsheet and began to a	information. g up the data my colleague eventually had a working excel nalyze the charitable sector in the Greater Toronto Area. One acided to organize the charities by size of tax-receipted charitable
afternnon, on a target	thing about scale. The United Way of Greater
Toronto is one of	t to understand something about scale. The United Way of Greater lest charities in North America, indeed its most recent annual was the biggest on the continent. In 2008 – the year of the financial Way of Greater Toronto raised \$107.5 million.
charitable donace	was the biggest on the continent. In 2000 Way of Greater Toronto raised \$107.5 million. rise that after sorting the charities by 2005 donation amounts my it the United Way was not first on the list. It wasn't even second.
It was third.	surprise. Somewhere in Toronto, without anyone being aware of it, two surprise. Somewhere in Toronto, without anyone being aware of \$96.1M money than the United Way (which in 2005 raised \$248M in 2003).
This was an enormous	money than the United way the work (ICAN) raised \$246m in 2003)

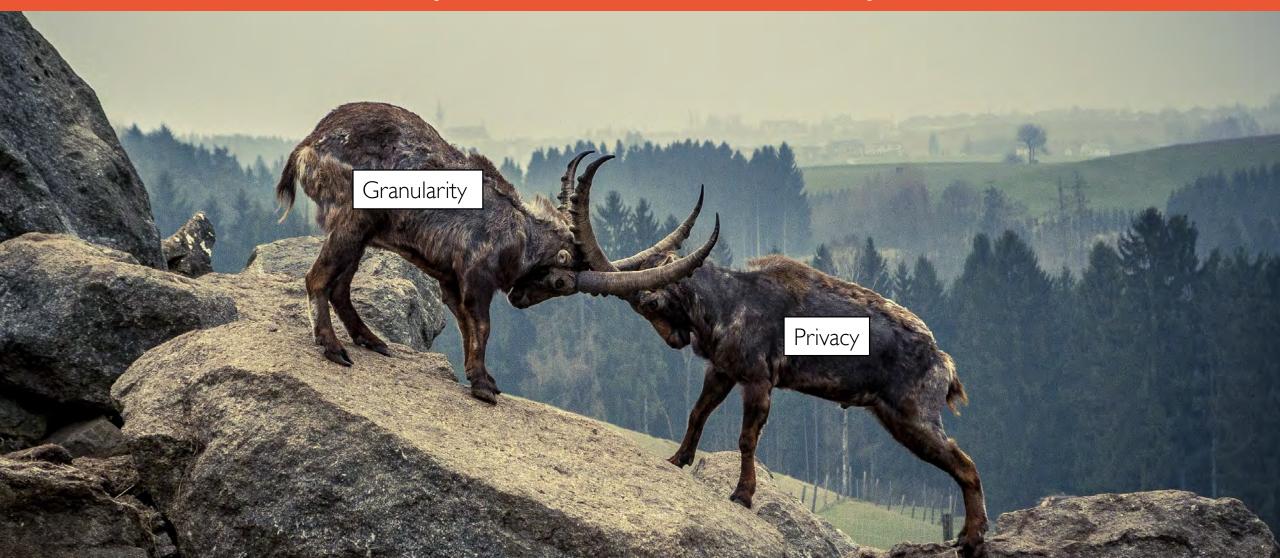
Why is it important ?

Where's my bus? Open data enables real-time route info for **Boston riders** 03 Jun 2010 | Melanie Chernoff (Red Hat) 🔊 | 181 🖒 | 1 comment Image by : Opensource.com At Gov 2.0 Expo last week, Joshua Robin, the Director of Innovation and Special Projects at the Massachusetts Department of Transportation, described how MassDOT was inspired by the simple concept of open data modeled by the Why is it so easy to find real-time weather reports? Because the National Weather Service (NWS) has opened their data in a usable format that third parties have utilized to create consumer applications. Not

Cost Reduction

The Massachusetts Bay Transit Authority (MBTA) opened up their transit data to software developers. Within 2 months, six new trip planning applications for bus and train riders had been built at no cost to the MBTA.

Open Data and Privacy



Motivation





George Internal Development

Prof. Brown Faculty

Motivation

What information exists ? Where and how can I get it ? Is it reliable (consistent over time)? Has somebody else worked with this data before ?

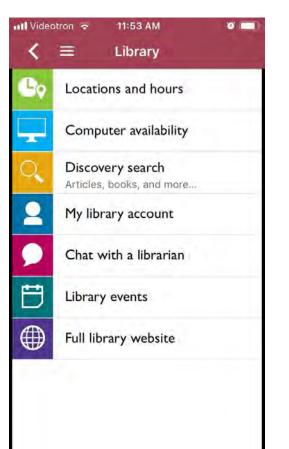
Overview



• The license

- The API
- The raw data
- The documentation

Examples



Webster Library Vanlet Library

Desktops

2nd floor: **19** (LB-245: **14**, LB-285: **5**) 3rd floor: **45** (LB-345: **16**, LB-385: **29**) 4th floor: **52** (LB-445: **24**, LB-485: **28**) 5th floor: **12** (LB-545: **12**)

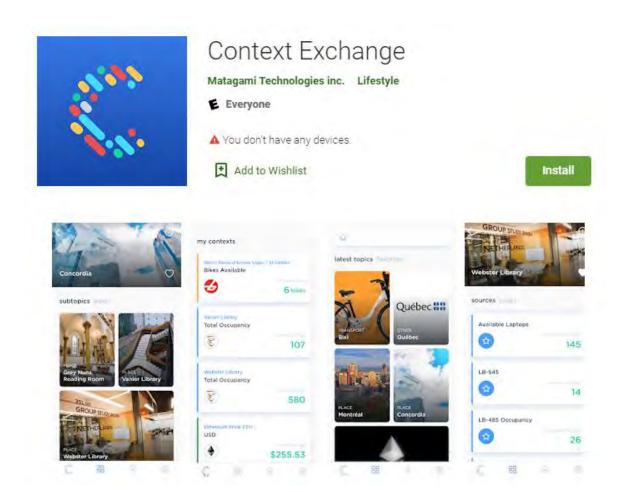
Laptops

1-day loan loan: 11

Tablets

Tablets: 0

Examples



Examples

Around 1600 persons are now in the Library

Move mouse to disturb them.

https://opendata.concordia.ca/demos/occupancy/

Current Offer

Courses

Daily course data export from the Student Information System (SIS) system.

/course/catalog /course/description /course/section /course/schedule /course/sessions /course/faculty /course/experiential_learning

Facilities

Daily and historical environmental and consumption data obtained from sensors and meters located on both campuses. <u>/facilities/pointlist</u> <u>/facilities/consumption</u> <u>/facilities/environmental</u>

Library

/library/reservations

Live data on the current status of some of the Library services and events. /library/hours /library/events /library/computers /library/occupancy /library/room_list

Hands-on Demonstration

- I. Create an API account
- 2. Example response, JSON overview
- 3. Use excel consume and visualize data