

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 ?

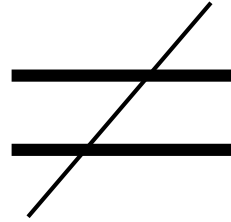
Open data is the idea that some data should be freely available to everyone to use and republish as they wish, without restrictions from copyright, patents or other mechanisms of control

Open Data Model



What is not Open Data ?

Open Data



Publicly available data



OpenStreetMap



Google Maps



DONNÉES QUÉBEC

Le carrefour collaboratif en données ouvertes québécoises



CBCnews
network



ZERO



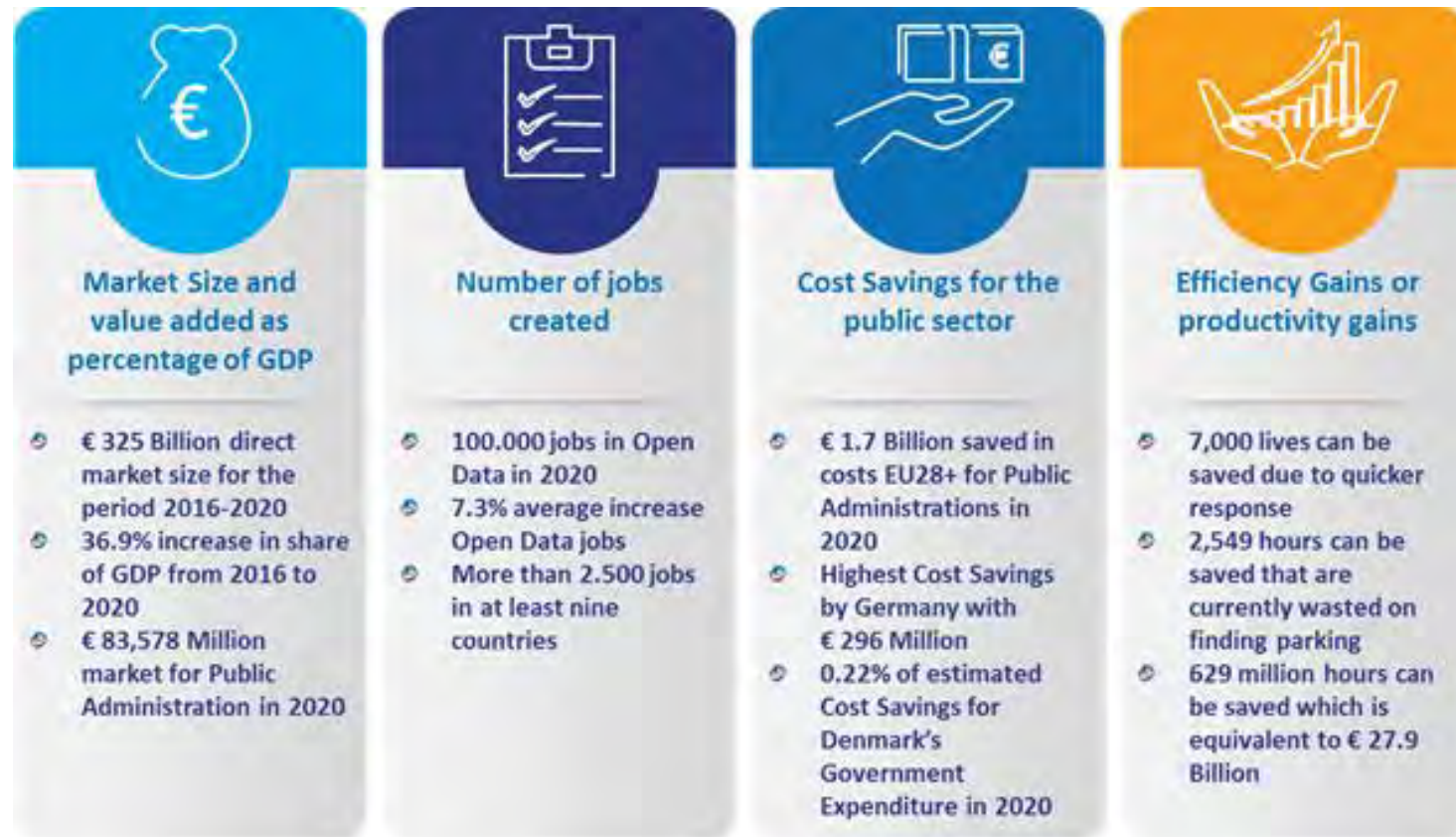
BY



BY SA

Why is it important ?

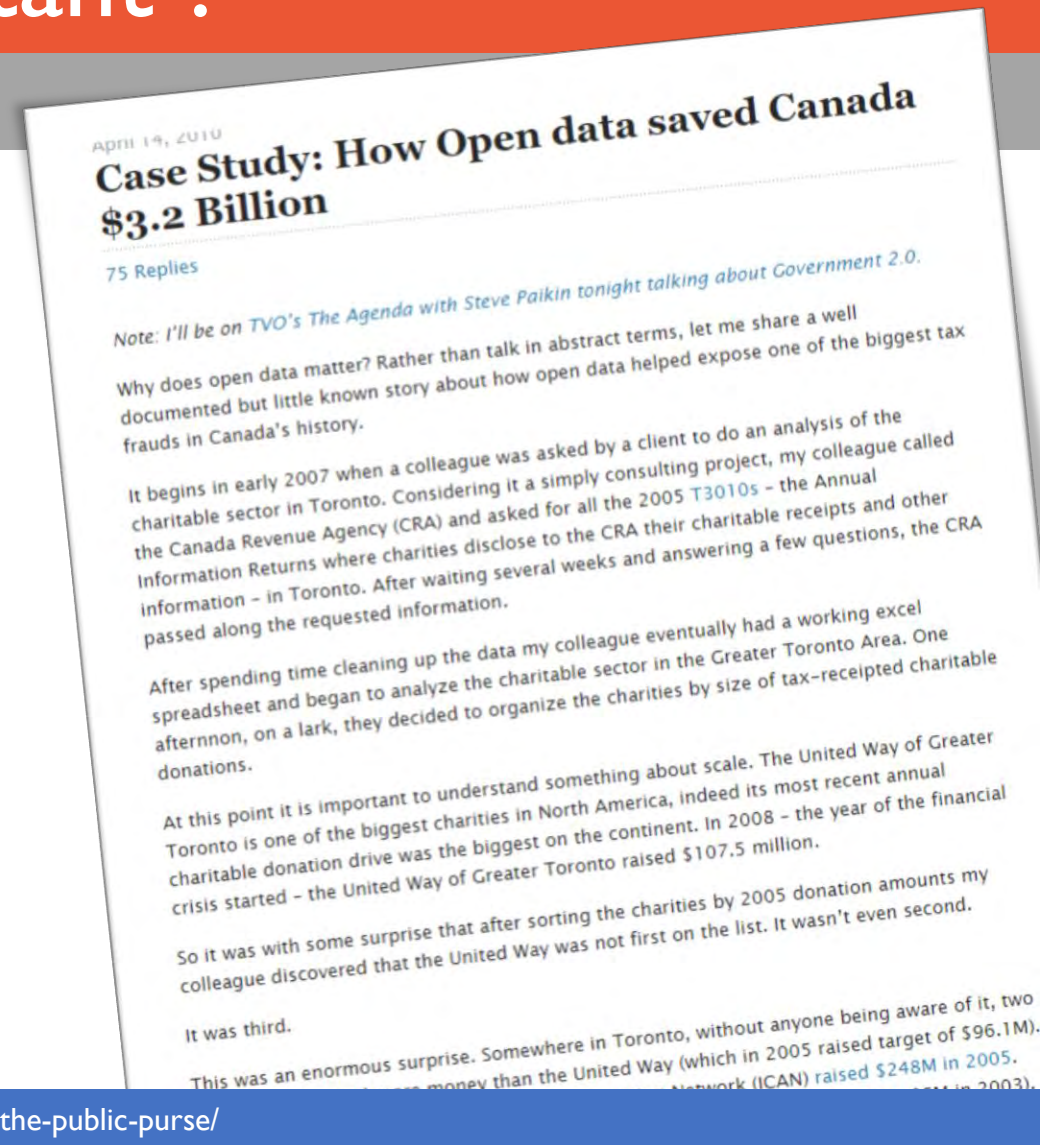
Economy



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.



Why is it important ?

Cost Reduction

Where's my bus? Open data enables real-time route info for Boston riders

03 Jun 2010 | Melanie Chernoff (Red Hat) | 181 | 1 comment



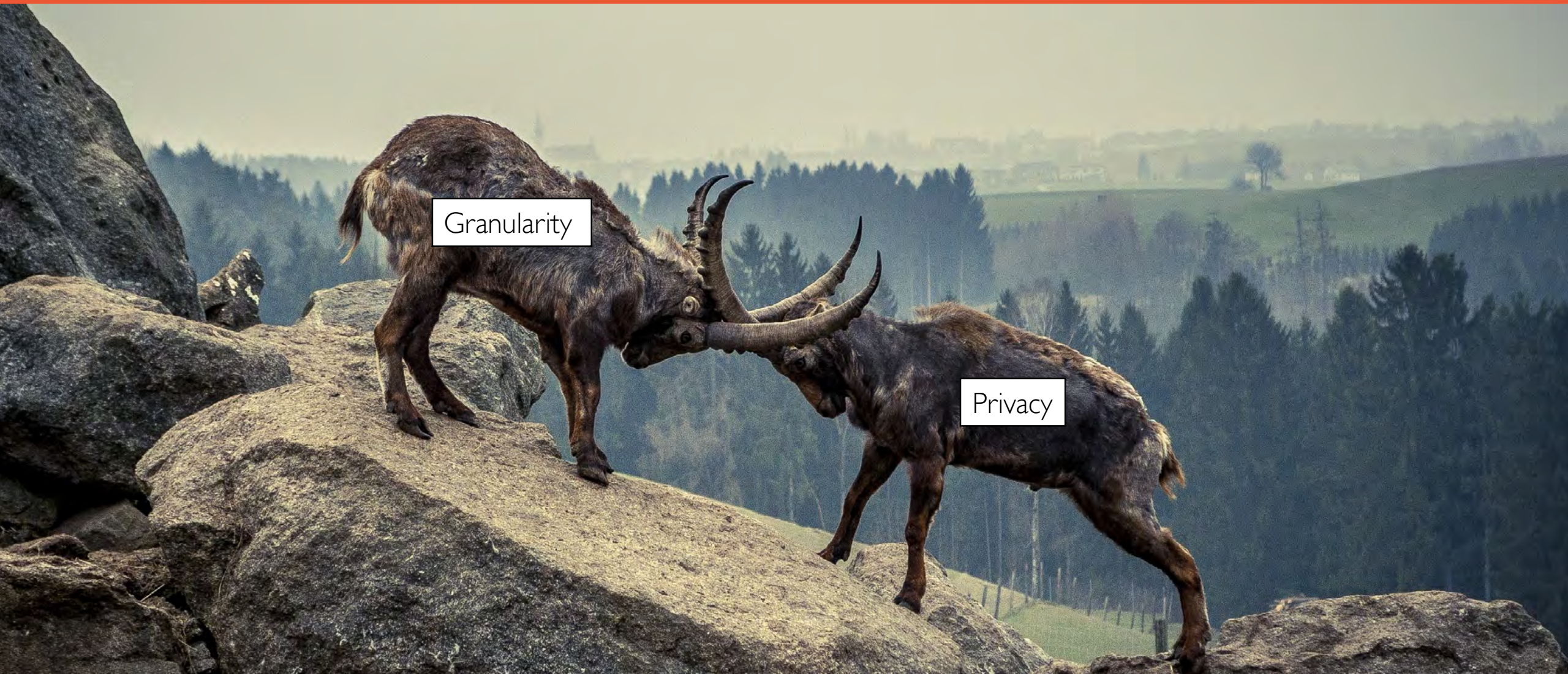
Image by : Opensource.com

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 National Weather Service.

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 only that, but the weather information directly from the NWS is available via a simple API.

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



The Concordia University Open Data Program

Motivation

Emma
the student



George
Internal Development



Prof. Brown
Faculty



The Concordia University Open Data Program

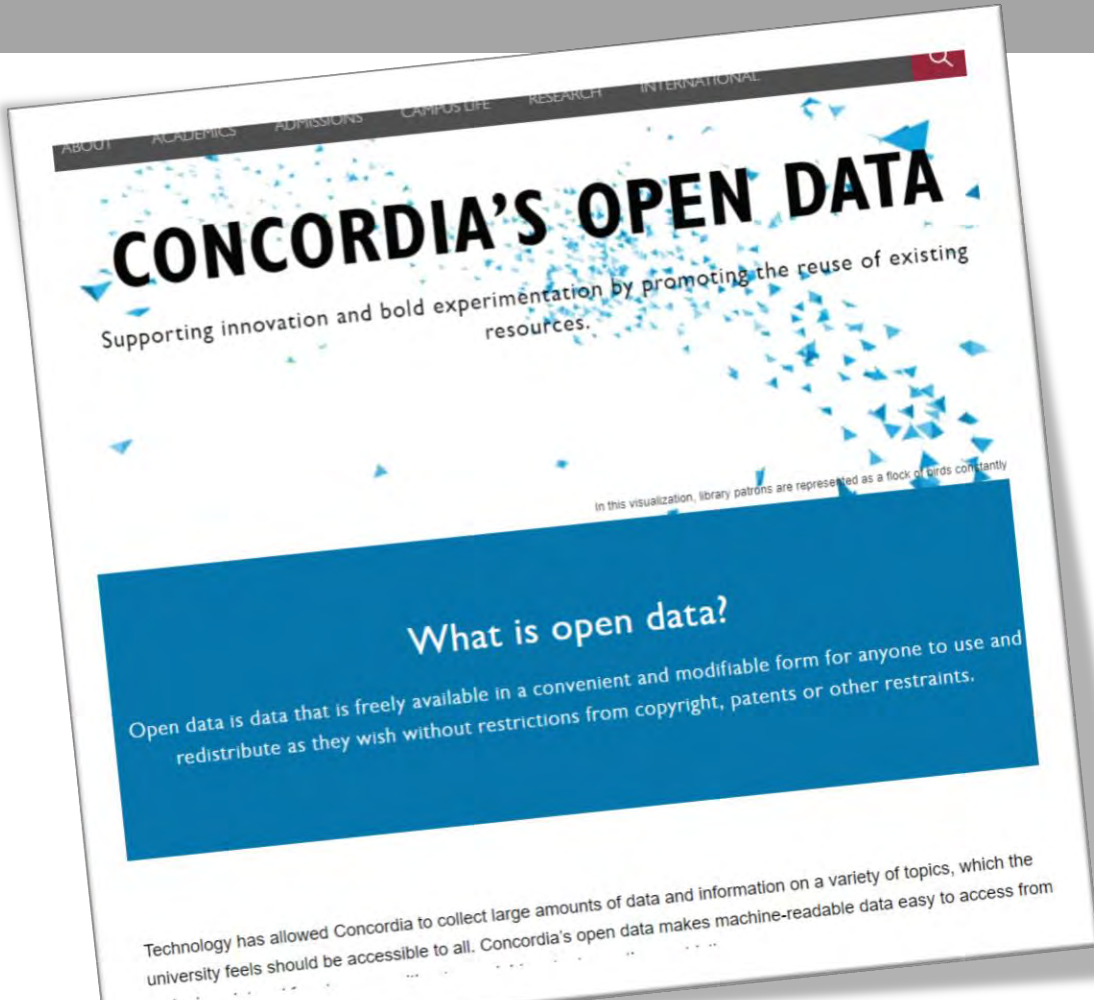
Motivation



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

The Concordia University Open Data Program

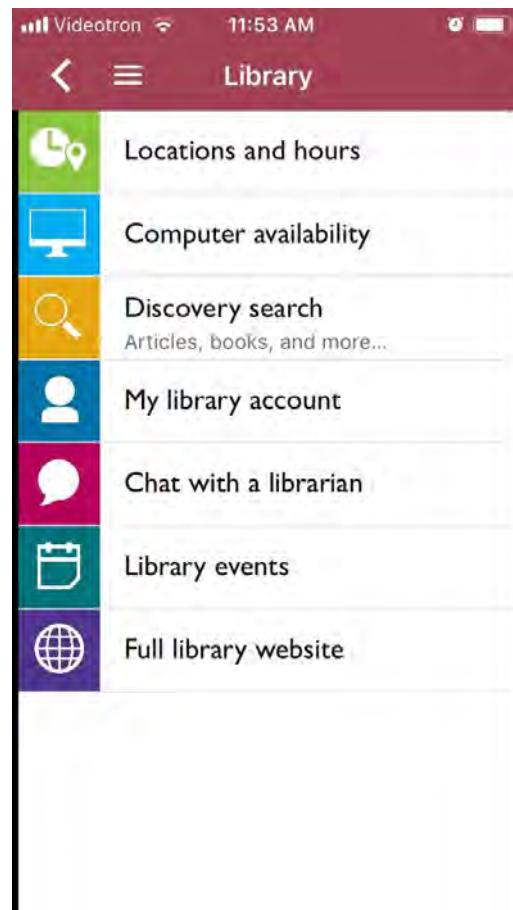
Overview



- The license
- The API
- The raw data
- The documentation

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Examples



Webster Library Vanier 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**

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Examples



Context Exchange

Matagami Technologies inc. Lifestyle

Everyone

⚠ You don't have any devices.

➕ Add to Wishlist

Install



subtopics



my contexts

Bikes Available

6 bikes

Vanier Library

Total Occupancy

107

Webster Library

Total Occupancy

580

Ethereum Price (ETH)

USD

\$255.53

latest topics



sources

Available Laptops

145

LB-545

14

LB-485 Occupancy

26

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Examples

Around 1600 persons are now in the Library

Move mouse to disturb them.

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



The Concordia University Open Data Program

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.

[/facilities/pointlist](#)

[/facilities/consumption](#)

[/facilities/environmental](#)

Library

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](#)

[/library/reservations](#)



The Concordia University Open Data Program

Hands-on Demonstration

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