

Why Libraries Should Maintain the Open Data of Their Communities

Mita Williams, Leddy Library, University of Windsor

Wed, Jan 27 | 3:05 pm - 3:45 pm, MTCC 206D

Ontario Library Superconference 2016



Learning Outcomes

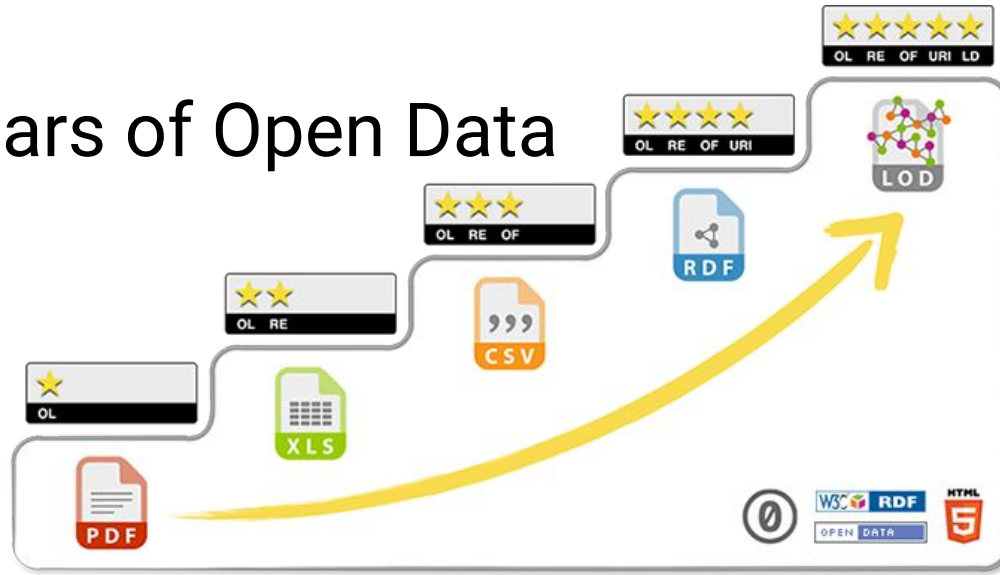
- Become familiar with some of the standards and technologies of Open Data
- Understand what Open Data is and its context in the Canadian landscape
- Learn how public libraries, academic libraries and nonprofit groups have encouraged the use and the collection of Open Data

A trilogy of four parts

- What is Open Data?
- Where is the Open (Government) Data in Canada?
- Where do Libraries Fit In?

What is Open Data?

The Five Stars of Open Data



- ★ make your stuff available on the Web (whatever format) **under an open license**
- ★★ make it available as structured data (e.g., Excel instead of image scan of a table)
- ★★★ make it available in a non-proprietary open format (e.g., CSV as well as of Excel)
- ★★★★ use URIs to denote things, so that people can point at your stuff
- ★★★★★ link your data to other data to provide context

Open is a format ...

David Eaves' Three Laws of Open (Gov) Data

If it can't be spidered or indexed, it doesn't exist

If it isn't available in open and machine readable format, it can't engage

If a legal framework doesn't allow it to be repurposed, it doesn't empower

“In other words, Open Data allows us to ... LOOK, PLAY, and SHARE”

Does “open” mean openly licensed content or code? And, again, which license is really “open”? Does “open” mean “made public”? Does “open” mean shared? Does “open” mean “accessible”? Accessible how? To whom? Does “open” mean editable? Negotiable? Does “open” mean “free”? Does “open” mean “open-ended”? Does “open” mean transparent? Does “open” mean “open-minded”? “Open” to new ideas and to intellectual exchange? Open to interpretation? Does “open” mean open to participation — by everyone equally? Open doors? Open opportunity? Open to suggestion? Or does it mean “open for business”?

From “Open” to Justice, #OpenCon2014

Audrey Watters, 16 Nov 2014

<http://hackeducation.com/2014/11/16/from-open-to-justice/>

What does the Tri-Council mean by Open Data?

**Capitalizing on Big Data: Toward a Policy Framework
for Advancing Digital Scholarship in Canada**

Consultation Document
(16 October 2013)

*“Open data is data that
meets the criteria of
intelligent openness.*

*Data must be accessible,
useable, assessable and
intelligible.”*

SSHRC  CRSH

The Social Sciences and Humanities Research Council (SSHRC)



CIHR IRSC

The Canadian Institutes of Health Research (CIHR)



The Natural Sciences and Engineering Research Council (NSERC)



The Canada Foundation for Innovation (CFI)

What do *I* mean by Open Data?

“Open data is data that can be freely used, reused and redistributed by anyone – subject only, at most, to the requirement to attribute and sharealike.”

Open Knowledge Foundation okfn.org

... Open is a permission

Since everything is automatically given copyright, to release your given rights you need to assign an alternative licence to place it in the “Creative Commons”

| | |
|----------|-----------------------------|
| CC-0 | Public Domain |
| CC-BY | Attribution |
| CC-BY-ND | Attribution, No Derivatives |
| CC-BY-SA | Attribution, Share Alike |
| CC-BY-NC | Attribution, Non-commercial |

Not all Creative Commons material is “Open”

“Open data is data that can be freely used, reused and redistributed by anyone – **subject only, at most, to the requirement to attribute and sharealike.**”

Open Knowledge Foundation okfn.org

CC-BY-ND NOT OPEN!

CC-BY-NC NOT OPEN!

“You don’t like CC-NC? What kind of monster are you? Some sort of Census-hating neoliberal?”

- “Academic-use only” hurts our nonprofit communities
 - Where can anti-poverty groups get their data for evidence based decisions?
- The costs of cost recovery efforts are *substantial*
 - Data Liberation Initiative for universities
 - The Community Data Program
- It is speculated that cost recovery results are not significant
- Journalists, artists and writers rely on the ability to sell their work
- ~~CC-NC keeps content out of the Public Domain FOREVER~~
- CC-NC complicates how re-worked derivative material is handled

Where is Open (Government) Data (in Canada)

The data is in Open Data Catalogues (or portals)

The image displays two screenshots of open data portals. The left screenshot shows the City of Toronto's Open Data Catalogue, featuring a navigation menu with categories like Business, City government, and Community services. The main content area highlights 'Data catalogue' and provides instructions on how to access data, including a 'View Data' link and a 'Follow us @Open_TO' link. A 'Data Catalogue Total' section shows the last update as January 14, 2016, and lists total data sets available. The right screenshot shows the Government of Canada's Open Data Portal, which includes a search bar, a navigation menu with categories like Jobs, Immigration, and Travel, and a search results section for 'TERMIMUM Plus®' and 'CAGDB - NATGAM - Larsen Creek'.

City of Toronto

Living In Toronto ▾ Doing Business

City of Toronto / Accessing City Hall / Open Data / Data catalogue

Open Data

Data catalogue

- Business
- City government
- Community services
- Culture and tourism
- Development and infrastructure
- Environment
- Finance
- Garbage and recycling
- Health
- Locations and mapping
- Parks and recreation

Open Data

By accessing the data catalogue

- Look for **New** and **Updated** items
- "View Data" link on selected items
- Follow us @Open_TO (Twitter)

Data Catalogue Total

Last update to Data Catalogue

January 14, 2016.

- Total data sets available: 409
- Total data files - counted as links to data: 405
- See also: COT Data

PLUS ... See our new [Tools and Help](#).

Ontario Search open data Search

Total Data Sets: 409

- All File Types 409
- All Topics 405
- All Publishers 409

Popular Data

- Geotechnical boreholes
- Ontario Economic Accounts
- Traffic cameras
- Carpool lots
- Today's roadwork: closures

Open data catalogue

Ontario + open data - we like the source generation of winning ideas, services and products

Government of Canada / Gouvernement du Canada

Jobs ▾ Immigration ▾ Travel ▾ Business ▾ Benefits ▾ Health ▾

Drinking water quality and enforcement

Provides information on drinking water to regulated drinking water systems, and the Change's enforcement activities.

Date published: December 2015 Pubs

File types: ZIP

Service delivery performance for the

The Ontario Public Service Common Service delivery that help provide a quality

Date published: October 2015 Pubs

File types: XLSX

College enrolments- 1996 to 2011

Enrolment and statistical data for college province.

Date published: November 2015 Pubs

File types: XLSX Tags:

Population projections

Annual population projections, from 2014

Date published: January 2015 Pubs

File types: XLSX

Public Accounts: Volume 3 data (2015)

Open Data Portal

Home → Open Government → Open Data

Search Datasets

Suggest a Dataset

Search...

244,889 datasets found

Order by Last Modified

TERMIMUM Plus®

The Government of Canada's terminology and linguistic data bank allows users to obtain the latest terminology in nearly all fields, find the equivalent in either official...

Organization: Public Works and Government Services Canada

Resource Formats: CSV TXT HTML

CAGDB - NATGAM - Larsen Creek

This airborne or shioborne geophysical survey recorded the following parameters: Total Field Magnetic.



Jobs ▾

Immigration ▾

Travel ▾

Business ▾

Benefits ▾

Health ▾

Taxes ▾

More services ▾

[Home](#) → [Open Government](#) → [Open Data](#)

Open Data Portal

Search Datasets

[Suggest a Dataset](#)

65 datasets found

Order by Last Modified ▾

Library and Archives Canada ✕

[Soldiers of the First World War - CEF](#)

Over 600,000 men and women enlisted in the Canadian Expeditionary Force (CEF) during the First World War (1914-1918) as soldiers, nurses and chaplains. The CEF database is an...

Organization: Library and Archives Canada

Resource Formats:

XML

HTML

[Alcohol consumption; smoking in Canada: a national survey - 1976/12](#)

Search Filters

Organization

[Library and Archives Canada \(65\)](#)

Data Type

[Raw Data \(65\)](#)

Tags

[Canals \(10\)](#)[Drinking habits \(8\)](#)[Inland Water Transport \(10\)](#)[Inland Waterways \(10\)](#)[Ships \(10\)](#)[Show more](#)

Wouldn't it be easier if it was all...



Open by Default – A new way forward for Ontario

The Open Government Engagement Team consulted a diverse spectrum of Ontarians to get ideas about how Ontario can engage, collaborate and innovate.

The team has developed a report with recommendations based on their conversations with Ontarians. This includes ideas about how Ontario can move forward to:

- work with the public
- open up government information
- make data a public asset
- implement a sustainable plan
- The government is reviewing this advice and determining the best path forward. Stay tuned for more details.

What do you think about their recommendations?

Meanwhile, back at the Federal Level

Work produced by the Canadian Government is under Crown Copyright

Reproduction and other uses of Canadian government produced information, by default, requires permission and the generally involves the payment of licensing fees that have been set for the purposes of cost-recovery.

Publishing and Depository Services *used to* administer Crown Copyright and Licensing on behalf of Government of Canada departments and agencies...


The Federal Level: Everything is confusing

In 2010, the federal government gave notice that it was establishing a licence that gave permission for non-commercial uses without the need for permission

But in 2013, this notice was removed from the Public Works and Government Services site and the announcement was made that, **"as of November 18, 2013 Publishing and Depository Services no longer administers Crown Copyright and Licensing on behalf of Government of Canada departments and agencies. Should you be seeking copyright clearance for Government of Canada information, please contact the department or agency that created the information."**

The Data Liberation Initiative is open? Not open?

[Français](#)

 Statistics Canada Statistique Canada

Search Website

Information for... ▾ Browse by subject Browse by key resource Help ▾ Canada.ca

[Home](#) → [DLI](#) → [DLI reports, reference and training materials](#)

Data Liberation Initiative (DLI)

- Tentative release dates of DLI products
- Restricted access Data Liberation Initiative Web Site
- The DLI Community
- DLI reports, reference and training materials**
- Other Microdata Access Programs**
- The Research Data Centres (RDC) Program

DLI licensing

Assessing requests for DLI data

The [DLI Licence](#) is the formal agreement between Statistics Canada (Data Liberation Initiative program) and the educational institution. The licence identifies the roles and responsibilities of both parties. When an educational institution joins the [DLI](#), both parties sign this licence.

The highlights of the licence agreement follow:

Under the new Licence agreement, all standard data products in the [DLI](#) collection are subject to [Statistics Canada's Open Data Licence](#). The [DLI](#) members are now allowed to use the standard data products for non-profit, academic research and instruction.

Also under the licence agreement, institutional members of the [DLI](#) have access to the entire PUMFs collection, as outlined in the Appendix 1 of the [DLI Licence](#). They can use the PUMFs for statistical and research purposes but they cannot share the data files with non [DLI](#) members.

Statistics Canada Open Licence Agreement

This agreement is between Her Majesty the Queen in Right of Canada, as represented by the Minister for Statistics Canada ("Statistics Canada") and you (an individual or a legal entity that you are authorized to represent).

The following are terms governing your use of the Information. Your use of any Information indicates your understanding and agreement to be bound by these terms. If you do not agree to these terms, you may not use the Information.

Statistics Canada may modify this agreement at any time, and such modifications shall be effective immediately upon posting of the modified agreement on the Statistics Canada website. Your use of the Information will be governed by the terms of the agreement in force as of the date and time you accessed the Information.

Definitions

"Information" means any data files, data bases, tables, graphs, maps and text for which Statistics Canada is the owner or a licensee of all intellectual property rights and made available to you in accordance with this agreement, at cost or no cost, either on the Statistics Canada website or by other means as a result of a contract for goods or services.

"Value-added Products" means any products you have produced by adapting or incorporating the Information, in whole or in part, in accordance with this agreement.

Licence Grant

Subject to this agreement, Statistics Canada grants you a worldwide, royalty-free, non-exclusive licence to:

- use, reproduce, publish, freely distribute, or sell the Information;
- use, reproduce, publish, freely distribute, or sell Value-added Products; and,
- sublicense any or all such rights, under terms consistent with this agreement.

Where Do Libraries Fit In?

Public libraries are making their data open...

Ottawa Public Library - Organizations

Search datasets...



5 datasets found

Order by Relevance

Library programs, blog posts and Media Releases

RSS Feeds of library programs by branch and category, blog posts by category and media releases. Available in both French and English.

Resource Formats:

HTML

Library Holdings and Checkouts

Contains the MARC, bibliographic, records and items in system at a given point in time as well as the checkouts by year.

Resource Formats:

TXT

Library Locations and Hours (Ottawa Public Libraries)

Listing of Ottawa Public libraries, including their locations and hours.

Resource Formats:

XML

Library Search Terms

A listing of the search terms used on Ottawa Public Library's catalogue.

Resource Formats:

CSV

Library Catalogue API

Access library catalogue data through the BiblioCommons API. BiblioCommons is a social discovery layer for public libraries that combines search and account management capabilities with a social sharing and discovery platform. The API enables library ...

Resource Formats:

JSON



Browse



What's On



Digital Content



Library Resources

Open Data

Edmonton Public Library's Statement on Open Data

Edmonton Public Library's mission is "we share." In our [Shared Values document](#), we assert our public role as a champion of ideas, community activators, knowledge seekers, and open to all. True to our mission and values, EPL declares our support for the open data movement and recognizes the principles of the [G8 Charter on Open Data](#).

By recognizing the Charter, EPL accepts our responsibility as a public institution to work towards sharing all of our data by default, while recognising that there are legitimate reasons why some data cannot be released. Following the charter, the data we release will be:

- high-quality, timely, comprehensive and accurate;
- provided in plain clear language with thorough metadata, and
- available in formats readable by both machines and people.

Additionally, we accept responsibility for sharing our technical expertise and experience with other organizations, documenting our open data standards and publishing practices online in the interest of transparency, working to increase open data literacy and encouraging citizens to unlock the value of open data.

EPL shares data through [Edmonton's Open Data Catalogue](#) and under the [City's Open Government License](#).

Access EPL's Open Data

- [EPL Open Data in the City Open Data Catalogue](#)

Meanwhile, south of the border



Knight Foundation
Informed & Engaged Communities

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Chattanooga
Public Library



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[What we fund](#) / [Knight Library Initiative](#) / [Open Data to Open Knowledge](#)




Turning Boston's open data collection into an accessible resource by working with Boston Public Library to catalog it and introduce it to the public.

[Learn More](#) [+](#)



Welcome to the Chattanooga Open Data Portal

This portal contains data collected from the City of Chattanooga as well as the community. The goal of the Chattanooga Open Data Portal is to be the primary location for all open data to be utilized by its citizens.



Performance



Budget



Checkbook



Catalog



How to turn the (data) tables

LIVING LOTS NYC **596**
BY ACRES

[About](#) [Resources](#) [Contact](#) [FAQ](#) [Donate](#)

Welcome!

This map shows public vacant land in New York. Find the lot in your life. Contact the owner. Grow something. We can help.

You are currently viewing

- 836 acres of opportunity on 1349 sites
- 1334 acres of community projects on 602 sites

details

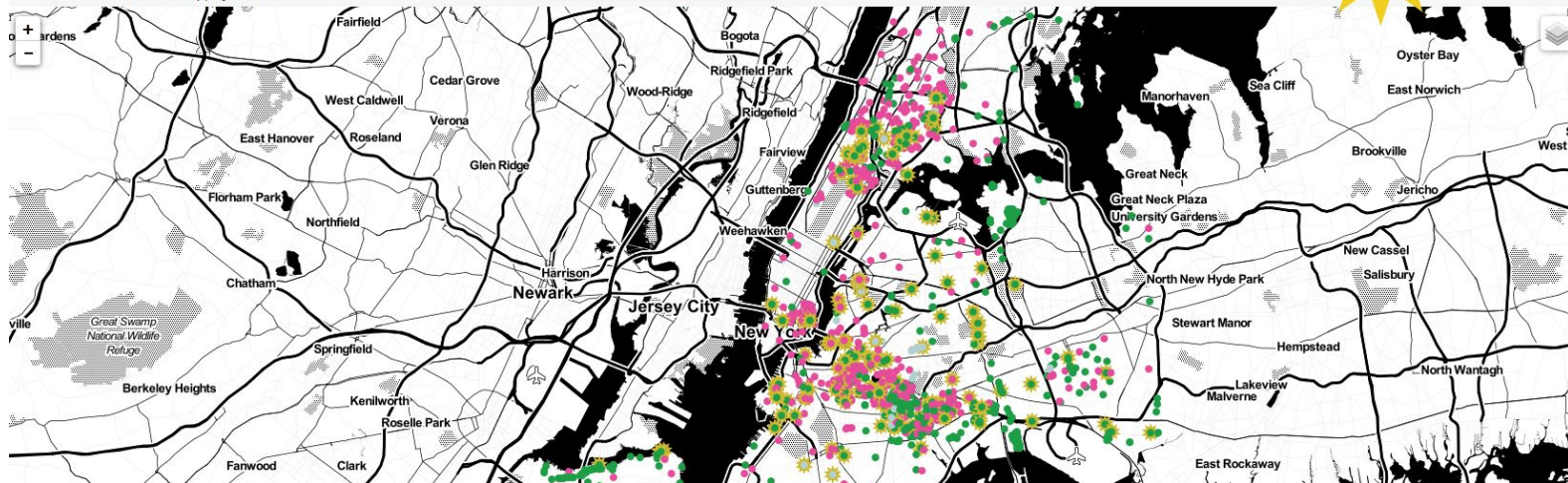
Search by address, zip code

GO


filter

organizing updates

download



Who will host the data of nonprofits?

[About](#) [Datasets](#) [Groups](#)

[Log in](#) [Register](#)

Open Data Windsor Essex (ODWE) is Hackforge's special interest group dedicated to supporting and encouraging efforts in open data. Funded by the Ontario Trillium Foundation, ODWE advocates for open data and assists organizations in our community share their work in a manner that's accessible and open for everyone.

ODWE wants to create a commons of data for Windsor Essex so residents and organizations who know the community best can share what they know in a way that supports new insights and services.

If your organization has data to share, please contact us.

[buildings](#) [time-series](#) [satisfaction](#)



Pathway to Potential

Pathway to Potential (P2P) is composed of a diverse group of stakeholders who collectively work to reduce...



Ford City Neighbourhood Renewal

Ford City Neighbourhood Renewal (FCNR) is a neighbourhood improvement strategy started by the Ford City...

The literacy challenge of Open Data

eaves.ca

if writing is a muscle, this is my gym

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June 10, 2010

Learning from Libraries: The Literacy Challenge of Open Data

42 Replies

We didn't build libraries for a literate citizenry. We built libraries to help citizens become literate. Today we build open data portals not because we have public policy literate citizens, we build them so that citizens may become literate in public policy.

Yesterday, in a [brilliant article](#) on The Guardian website, Charles Arthur argued that a global flood of government data is being opened up to the public (sadly, not in Canada) and that we are going to need an army of people to make it understandable.

I agree. We need a data-literate citizenry, not just a small elite of hackers and policy wonks. And the best way to cultivate that broad-based literacy is not to release in small or measured quantities, but to flood us with data. To provide thousands of niches that will interest people in learning, playing and working with open data. But more than this we also need to think about cultivating communities where citizens can exchange ideas as well as involve educators to help provide support and increase people's ability to move up the learning curve.

Interestingly, this is not new territory. We have a model for how to make this happen – one from which we can draw lessons or foresee problems. What model? Consider a process similar in scale and scope that happened just over a century ago: the library revolution.

In the late 19th and early 20th century, governments and philanthropists across the western world suddenly became obsessed with building libraries – lots of them. Everything from large

Libraries can Support Data and Policy Literacy



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Hours & Locations

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OPEN DATA DAY

[Open Data – Branches API – Help](#)

[About Open Data Day 2016](#)

[Open Data](#)

About Open Data Day 2016

Edmonton Public Library and the City of Edmonton are partnering again to celebrate [International Open Data Day 2016](#). We have a number of excellent events lined up this year.

Open Data Day Hackathon

Again we're calling all hackers, developers, designers, statisticians and anyone with an interest in open data to spend the day experimenting and creating with open data.

City of Edmonton staff involved in open data will be on site to answer questions, propose ideas and hear your thoughts on how open data can be mobilized to improve the lives of Edmontonians.

Saturday, March 5, 9:30 am–5 pm (Doors at 9am)

The Makerspace

[Stanley A. Milner Library](#)

Bring your laptops and we'll bring lunch

Welcome to
the new epl.ca!

Share your feedback.

GET A LIBRARY CARD

Spread the words.


This card makes
you smart.

EDMONTON PUBLIC LIBRARY

Host open data enthusiasts at your library

Maptime MSP


Home Members Sponsors Photos Discussions More [Join us!](#)



Minneapolis, MN


Founded Oct 14, 2014


[About us...](#)

- Map Lovers 241
- Group reviews 5
- Upcoming Meetups 1
- Past Meetups 15
- Our calendar 

February Maptime: Cartography Tricks

[Tell a friend](#) [Share](#)

 **Thursday, February 18, 2016**
5:30 PM to 7:30 PM

 **Saint Anthony Park Library**
2245 Como Ave, Saint Paul, MN ([map](#))

We'll be meeting at the **Saint Anthony Park Library** in **St. Paul** focused on **Cartography Tricks** using some awesome tools!





Liz Puhl (@LizPuhl) will show us **Illustrator/Inkscape** tips and tricks, and **David Montgomery** (@dhmontgomery) will showcase **Photoshop/GIMP** tips and tricks.

After the presentations, we'll have a group work session with a few samples for you to try. During the work session, we'll also have time for discussions, sharing of projects, and anything else

Want to go?

[Join and RSVP](#)

23 going

-  **Kitty Hurley**
CO-ORGANIZER
EVENT HOST
GIS Developer · Geogeek · Cartography · UI/UX
-  **Rachel Koch**
-  **Paul Paddock**
-  **Andrew K**

Archive Open Data in the Internet Archive?

The Dataset Collection

The Dataset Collection consists of large data archives from both sites and individuals.

Share
Favorite

About Collection

SORT BY VIEWS · TITLE · DATE ARCHIVED · CREATOR

221 RESULTS

“open data”

- collections 3
- data 215
- software 2
- web 1

TOPIC

- UPC 3
- Universal Product Code 3
- barcode 3
- dataset 2
- Agora 1
- Bitcoin 1
- Dataset 1
- E-mail 1
- Enron 1
- Evolution 1
- FOIA 1
- FOIL 1
- Silk Road 1
- Tor 1
- album covers 1
- big data 1
- black-markets 1
- cover art 1
- cover photos 1

Complete Public Reddit Comments Corpus

Dark Net Market archives, 2011-2015

Dumps of DISCOGS.ORG Metadata (2008-Present)

MusicBrainz Data Dumps

One Million Audio Cover Images for Research

Internet Census 2012

Complete Public Reddit Comments Corpus

NYC Taxi Trip Data 2013 (FOIA/FOIL)

UPC Database 2007-06-01

UPC Database 2010-06-01

Thank you!

Slides are available at:

<https://goo.gl/Bo6yDI>