What Will Future Librarians Look Like?

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University of Alberta









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The Best in Library Branding

Posted Friday, May 27, 2011 - 08:00

Winners of the 2011 John Cotton Dana Library Public Relations Award wow judges and their communities By Judith Gibbons



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Four local libraries honored for offering cutting-edge services

Edmonton Public Library Wins LAA Award of Excellence

Kathleen Pine, Manager Children's Division, Stanley A. Milner Library

The Edmonton Public Library has won the Library Association of Alberta Award of Excellence for its teen services. This award recognizes EPL's commitment to bringing teens into the library by enhancing its activities, collections and services for young peo-

Starting with its Year of the Teen, held in 2005, EPL has carried through with teen initiatives in several areas. Branches set up designated areas with "teen friendly" furniture to make them feel welcome. A special position was created so that a teen-services







| Management and Marketi | ng |
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14 April 2011 Press Release

IFLA 9th Marketing Award Winners Announced!

Current and future trends

- Communities: User experience/ information search behaviour
- Data librarianship and data science
 - Linked data
 - Library data
 - User data
 - Research data
- Open digital libraries
- Technology: Current and emerging
- Social media analytics

"The mission of librarians is to improve society by facilitating knowledge creation in their communities"



What Community Librarians Do and What EPL's Community-Led Service Philosophy is About



http://dysartjones.com/2012/03/epl-ca-engaging-public-library/



http://globalnews.ca/news/1145264/edmonton-public-library-launches-makerspace/





Libraries

Participating Libraries

The below libraries are currently all participating in the Me Card service. Check back

- · Edmonton Public Library
- Fort Saskatchewan Public Library
- Parkland Regional Library
 - Alix Public Library

 - · Alliance Public Library
 - o Amisk Municipal Library
 - o Bashaw Municipal Library o Bawlf - David Knipe Memorial Library
 - Bentley Municipal Library
 - o Big Valley Municipal Library
 - o Blackfalds Public Library o Bodo Public Library
 - o Bowden Public Library
 - o Brownfield Community Library o Cadogan Public Library
 - Camrose Public Library
 - Caroline Municipal Library
 - o Carstairs Public Library
 - o Castor Municipal Library
 - Clive Public Library
 - Coronation Memorial Library
 - o Cremona Municipal Library
 - Czar Public Library o David Knipe Memorial Library (Bawlf)
 - Daysland Public Library

 - Delburne Municipal Library
 - Didsbury Municipal Library
 - Eckville Municipal Library
 - o Donalda Public Library

 St. Albert Public Library · Strathcona County Library Spruce View Community Library

Edberg Public Library

o Elnora Public Library o Forestburg Public Library

Galahad Public Library

Hardisty Public Library

Innisfail Public Library

Lougheed Public Library

Olds Municipal Library

o Ponoka Jubilee Library

Provost Municipal Library

Rimbey Municipal Library

Killam Public Library

Hay Lakes Municipal Library

Heisler Municipal Library

Hughenden Public Library

Lacombe - Mary C. Moore Public Library

 Mary C. Moore Public Library (Lacombe) Nordegg Public Library

Penhold and District Public Library

Rocky Mountain House Public Library

o Sedgewick & District Municipal Library

- Stettler Public Library
- Sundre Municipal Library
- Sylvan Lake Municipal Library
- Water Valley Public Library



Tagcloud: Created from the EPL Program listing (February 26, 2014)

Communities

- Start up business owners
- Library as a networking venue
- Users as content creators: Self-publishing
- Career planning using social networks (LinkedIn)
- Learning management system

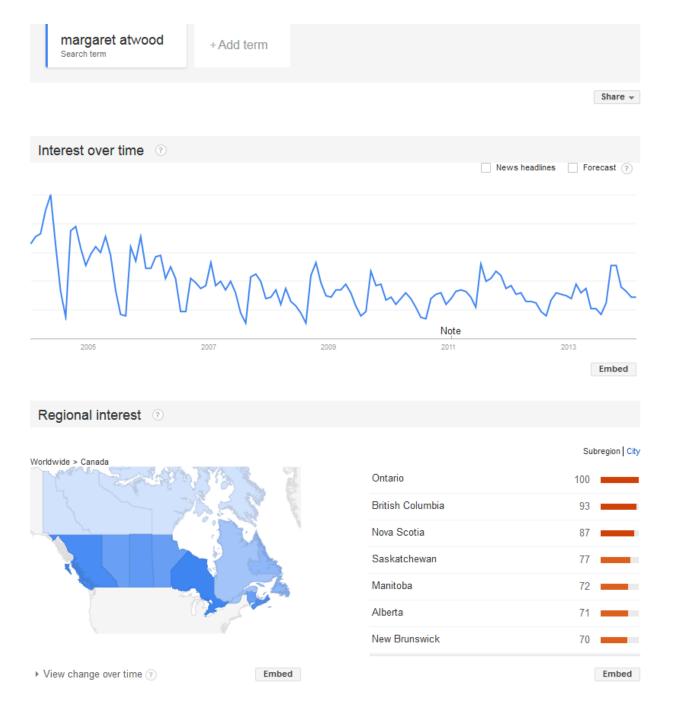
Creating online communities



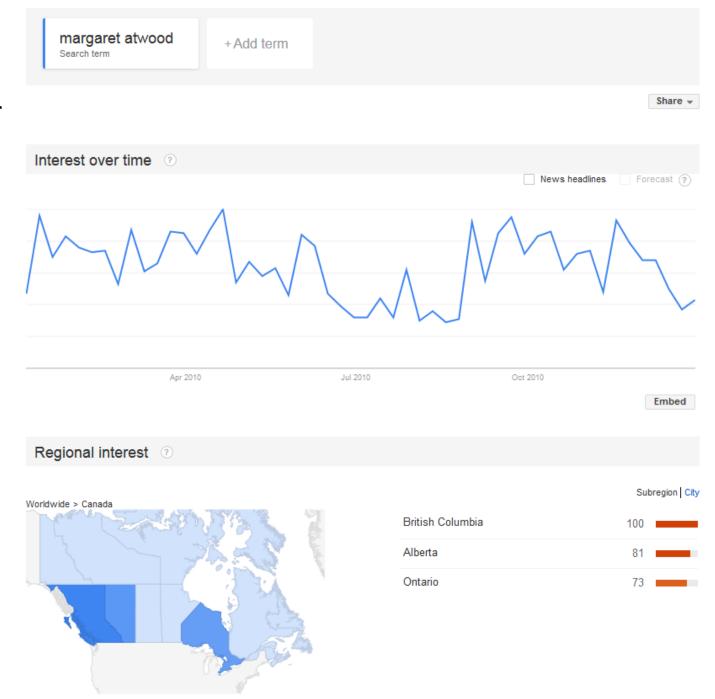
Online user communities

- Customization
- Personalization
- Localization
 - User context, profiles and Interests, behaviour
 - Example: Which topics/authors were searched where
- Recommendations
- Online education: Webinars, Massive Open
 Online Courses (MOOCs), virtual conferences

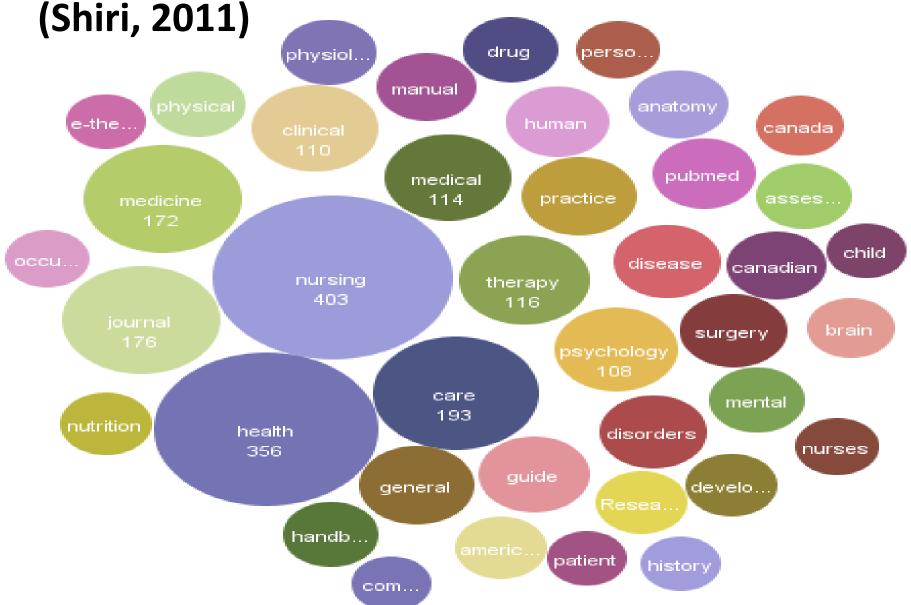
Search volume for Margaret Atwood 2004 – 2014 (Google Trends)



Search volume for Margaret Atwood 2010 - 2014



U of A Library Catalogue: Health Query Analysis



Data librarianship

"Managing, organizing, visualizing and presenting large structured and unstructured data".

Data Literacy

- Big data
- Open data
- Linked data
- User data

BIG DATA

BIG DATA

BIG DATA

BIG RATA

BIG RATA

BIG DATA



235 terabytes data

of Congress

collected by the Library





Walmart handles more than 1 million customer transactions every hour, the equivalent of 167 times the information contained in all the books in the US Library of Congress

Google answers 100 billion searches per month

More than 400 million tweets every day on Twitter



You Tube

ITU: There were about 7 billion mobile phone subscriptions at the end of 2013.

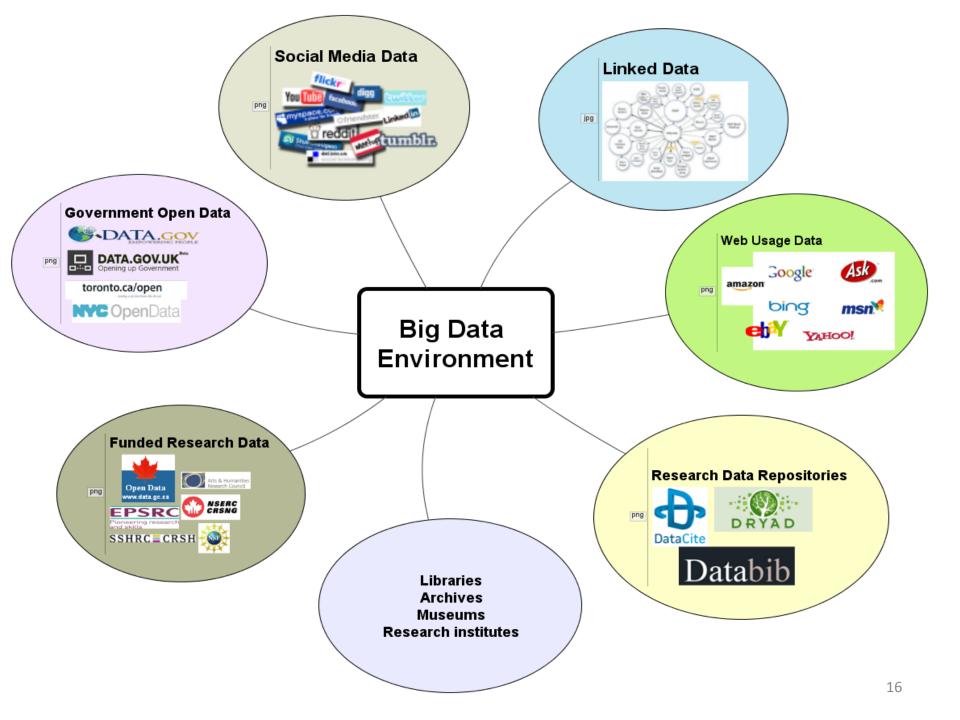
YouTube users upload 100 hours of new video every minute



Facebook handles 240 billion photos from its user base. 30 billion pieces of content shared on Facebook every month



4,464,270 articles in Wikipedia Average increase per day: 821



Big data visualization examples

- Wind Map
- Live Where?
- H1N1 Visualization
- U.S. election

By 2018, the United States alone could face a shortage of 140,000 to 190,000 people with deep analytical skills as well as 1.5 million managers and analysts with the know-how to use the analysis of big data to make effective decisions.

Open data and data literacy

Data should be available to everyone Data should be free, public and open

- Open source software
- Open content
- Open educational resources
- Open access

"Data literacy is the new skill"

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Text us: 780.800.4929



Open Data

City of Edmonton Open Data Links

- . Mack D. Male's Primer on open data in Edmonton for ChangeCamp
- · City of Edmonton Open Data Catalogue
- . EPL Branches in the City of Edmonton's Open Data Catalogue

Other Open Data Links

- Data To Go
- · International Open Data Hackathon

EPL Open Data -- Branches

- EPL Branches Form -- limit by branch and xml/csv format
- . EPL Branches File -- all branches, xml format
- EPL Branches File -- all branches, csv format
- · EPL Branches API -- Help

EPL Open Data -- Events

- EPL Events Form -- limit by start date, end date, branch, and xml format
- EPL Events API -- Help

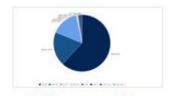
City of Edmonton Open Data Twitter Feed



Home > City Government > OpenGov > Open Data Catalogue

Citizen Dashboard

City of Edmonton is pleased to announce the relaunch of the Citizen Dashboard, an online tool that shows performance results for some of the services the City provides. The Citizen Dashboard provides performance information about municipal services that support the City's Strategic Plan - The Way Ahead.



2013 Edmonton Election - Results Summary -Mayor

2013 Election Results -Distribution of Votes for Mayor's Race



2013 Edmonton Election - Results Details (by Voting Station)

2013 Election Results by Voting Stations.



Really Grate Tree Project, Soil Analysis -2010-2013 (Map View)

Sidewalk trees



WiFi Locations - Map View

List of WiFi locations in Edmonton

Home

Data Catalogue

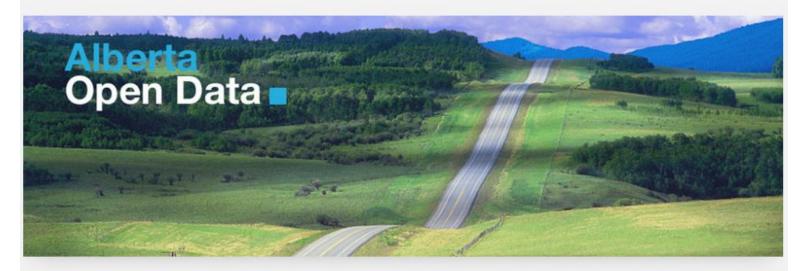
Licence

FAQ

Blog

Alberta.ca

Alberta Open Data



Welcome to the Alberta Open Data Portal

The portal makes data the provincial government collects on behalf of citizens publicly available in machine readable formats with an open licence. This means there are no technical or legal restrictions for using the data.

By sharing this data, the Alberta government is increasing the transparency of government business, promoting economic opportunity and increasing citizen involvement in government.

Popular Datasets

- Licensed businesses, charities. and fundraisers (150,843)
- Petroleum and Natural Gas Public Offerings and sales results (148,398)
- Frequency and Ranking of Baby Names by Year and Gender



Latest Datasets

- Ischemic Heart Disease -Age-Standardized Prevalence 20 min ago
- "Ischemic Heart Disease -Age-Standardized Incidence Rate 2 days 16 hours ago
- Ischemic Heart Disease -



Featured Sites

- Alberta BioDiversity Monitoring Institute &
- Alberta Official Statistics
- Alberta Oil Sands Information Portal
- Canada-Alberta Oil Sands Environmental Monitoring

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Search the Data Catalogue

Can't find the data you're looking for?

Request New Data



Search

LIVING IN TORONTO

DOING BUSINESS

VISITING TORONTO

ACCESSING CITY HALL

You are here: City of Toronto » Accessing City Hall » Open Data

Accessing City Hall

+ Share

52

Building a city that thinks like the web

Open Data

Welcome to Open Data - Toronto.

Open Data leads to transparent government: open, accessible and accountable.

Be informed and engaged - anyone can use the data!

n. Open-Data: o-pen da-ta /'ōpən//'datə/

The idea that certain data should be freely available to everyone to use and republish as they wish, without restrictions from copyright, patents or other mechanisms of control.

- Wikipedia

The dataset catalogue was last updated February 20, 2014

GET THE DATA

Contact Us

Open Data Team opendata@toronto.ca









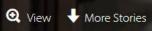






Using OpenData to help drivers navigate NYC

Track and analyze parking tickets and camera violations using data provided by the New York City Department of Finance (DOF), now available through NYC OpenData.



Search









City Government



Education



Environment



Health

Linked data

- Linked Data is about using the Web to connect related data that wasn't previously linked.
- Linking different data sets:
 - Library catalogues
 - Open data sets
 - Other open digital libraries



Find books, music, movies, and more.

Keyword popular baby names

Catalogue Website Articles





Welcome to the Alberta Open Data Portal

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Popular Datasets

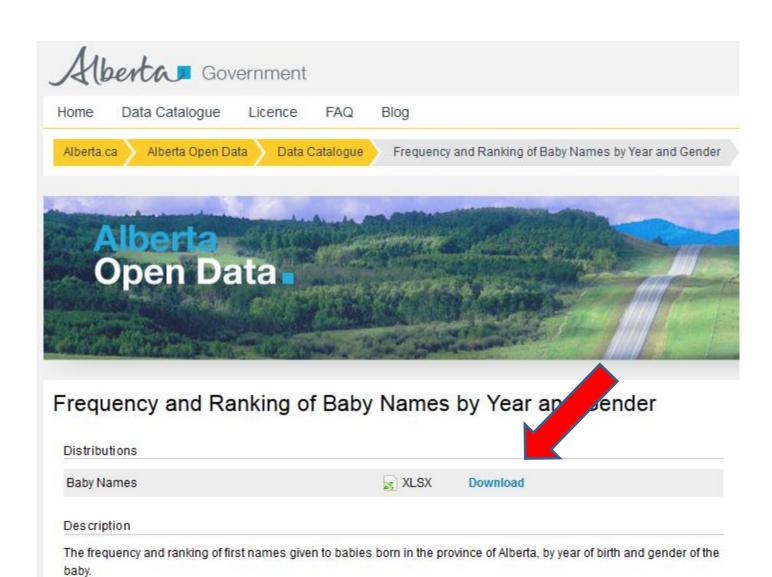
- Licensed businesses, charities, and fundraisers (153,120)
- Petroleum and Natural G Public Offerings and sale results (150,653)
- Frequency and Ranking of Baby Names by Year and Gender (149,328)

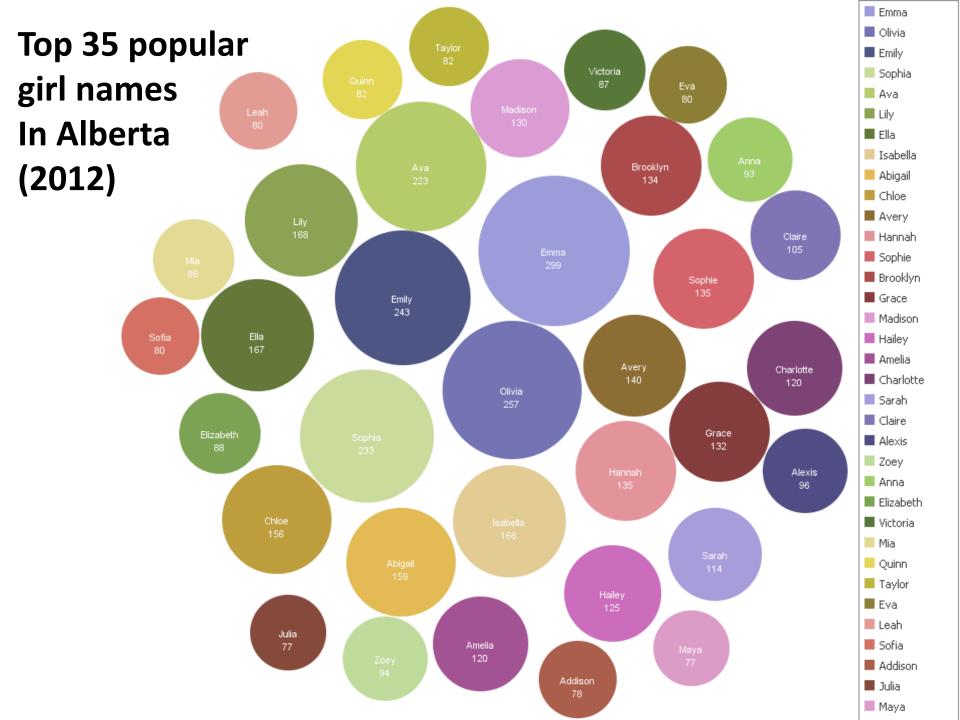
atest Datasets

- Inventory of Major Alberta
 Projects 1 week 19 hours ago
- Average Weekly Earnings 1 week 21 hours ago
- Apprenticeship and Provincial Labour Force Statistics 1 week
 22 hours ago
- Graduates Parchments

Featured Sites

- Alberta BioDiversity Monitoring Institute
- Alberta Official Statistics
- Alberta Oil Sands Information Portal
- Canada-Alberta Oil Sands Environmental Monitoring Information Portal





Open digital libraries

Digital librarians aggregate, integrate, make accessible open digital libraries along with their own libraries.

- World digital library
- Europeana
- Digital Public Library of America
- Open Library
- HathiTrust
- Canadiana.ca
- Project Gutenberg



| LANGUAGE | | |
|----------|---|----------|
| English | - | → |

BROWSE

Place Time Topic Type of Item Institution

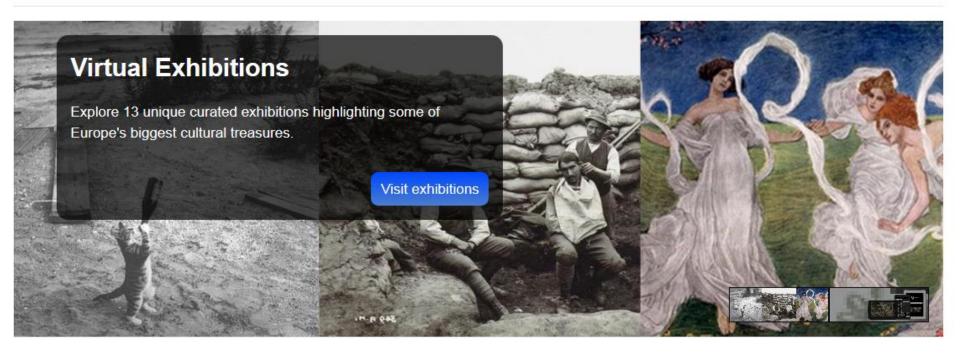




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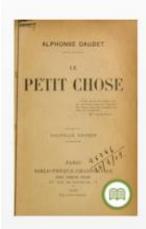
Explore by Date

Timeline »

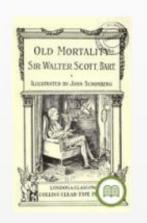


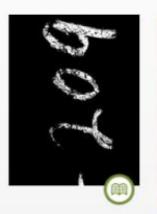


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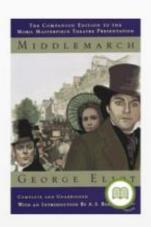


















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*requires institutional login



ABOUT EARLY CANADIANA ONLINE

These collections contain over 80,000 rare books, magazines and government publications from the 1600s to the 1940s.

This rare collection of documentary heritage will be of interest to scholars, genealogists, history buffs and anyone who enjoys reading about Canada's early days.

The Early Canadiana Online collection of rare books, magazines and government publications has over 80,000 titles (3,500,000 pages) and is growing. The collection includes material published from the time of the first European settlers to the first four decades of the 20th Century.

You will find books written in 21 languages including French, English, 10 First Nations languages and several European languages, Latin and Greek.

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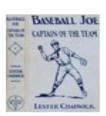
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Duncan A. MacRae (Class of 1913)



| Created Date | 1916-1918 |
|-----------------------------|----------------------|
| Partner | Digital Commonwealth |
| Contributing Institution | Springfield College |

View Object



Description

This lantern slide shows a portrait of Major Duncan A. MacRae wearing his military uniform. He graduated in 1913 from the International YMCA College, now known as Springfield College. MacRae was born in Edmonton, Alberta, Canada. Prior to attending college, MacRae volunteered at the YMCA from 1903 to 1909. From 1911 to 1912, he directed the Winchester Association Boys' Club in Springfield. After completing his undergraduate degree, he stayed at Springfield College for graduate school. However, in January 1916 he traveled to France and served as a Major in the Canadian Army, Infantry Division, 51st Battalion. In October 1917, MacRae became a flying officer with the Royal Air Force. He returned to Springfield, where he completed his education in 1919. After the war, he served as physical director at a high school in Montreal. MacRae died in January 1962.. Processed. Text on border reads, "European War D. A. McRae 1913.

Springfield College Digital Collections

Browse This Collection Home Search Search Advanced Search Home » College Archives Digital Collections » Duncan A. MacRae (Class of 1913) ₽ Reference URL + Share Add tags © Comment Rate **Duncan A. MacRae (Class of 1913)** View Description



Current Technologies



3D Printer (Edmonton Public Library)



3D Scanner (DC Public Library)



Melville House (Publisher) NY



Smart phones

Emerging technologies

- Gesture-based computing
 - Munich Digitization Center of the Bavarian State
 Library
 - The Leap Motion Controller (Plugin for PC and Mac)
- Double Robotics
- Eye tracking
 - Usability study
 - User interaction





Tobii











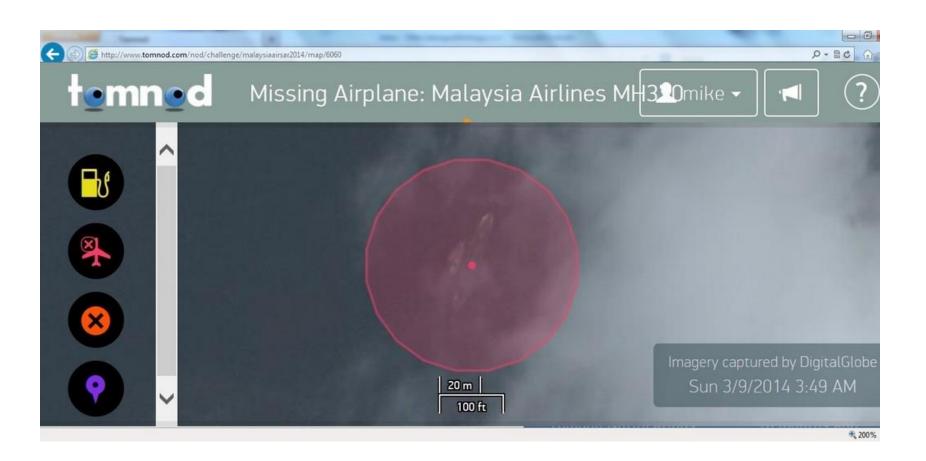
iPhone iPad Web

Social media analytics

- Libraries will increasingly benefit from user generated content and crowd-sourced data to provide customized and quality services and resources.
 - Tweets
 - Reviews
 - Ratings
 - Tags
 - Comments
 - Videos



Malaysia Airlines Missing Plane: Can Crowdsourcing Help Locate Flight MH370? DigitalGlobe Hopes So

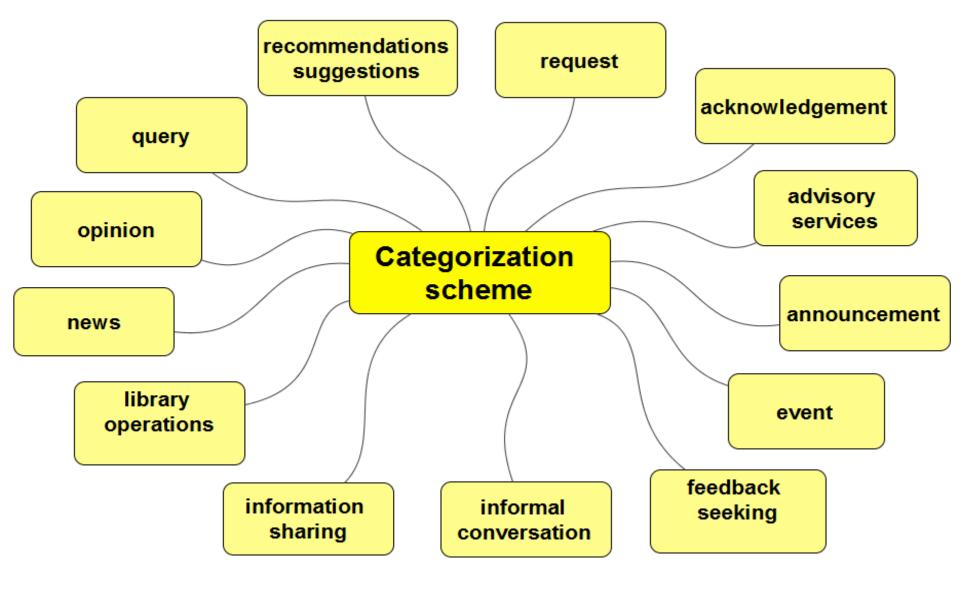


Example 1: Twitter content categorization

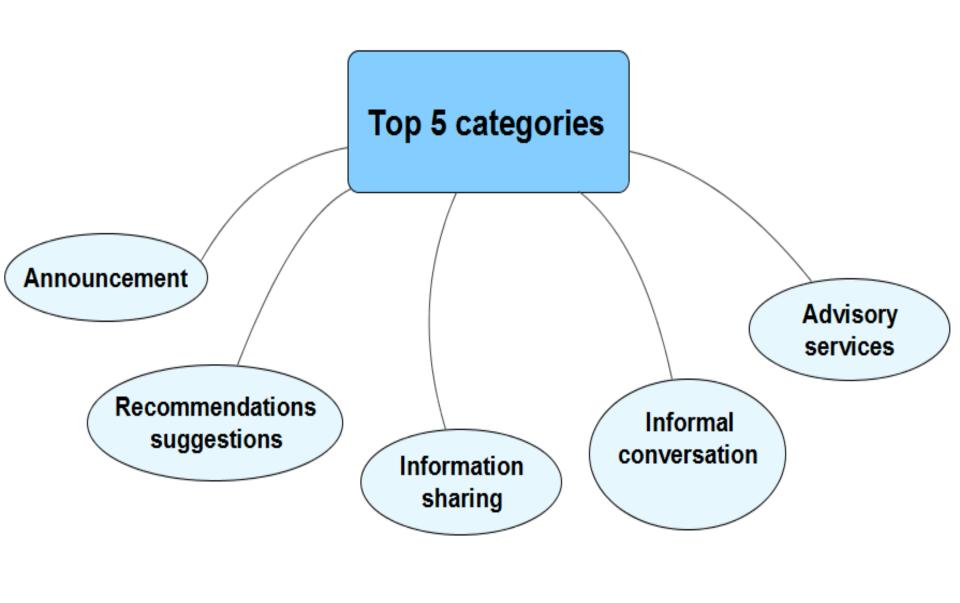
- Use of Twitter at EPL
- Examine the nature and content of tweets
- A proposed tweet categorization scheme

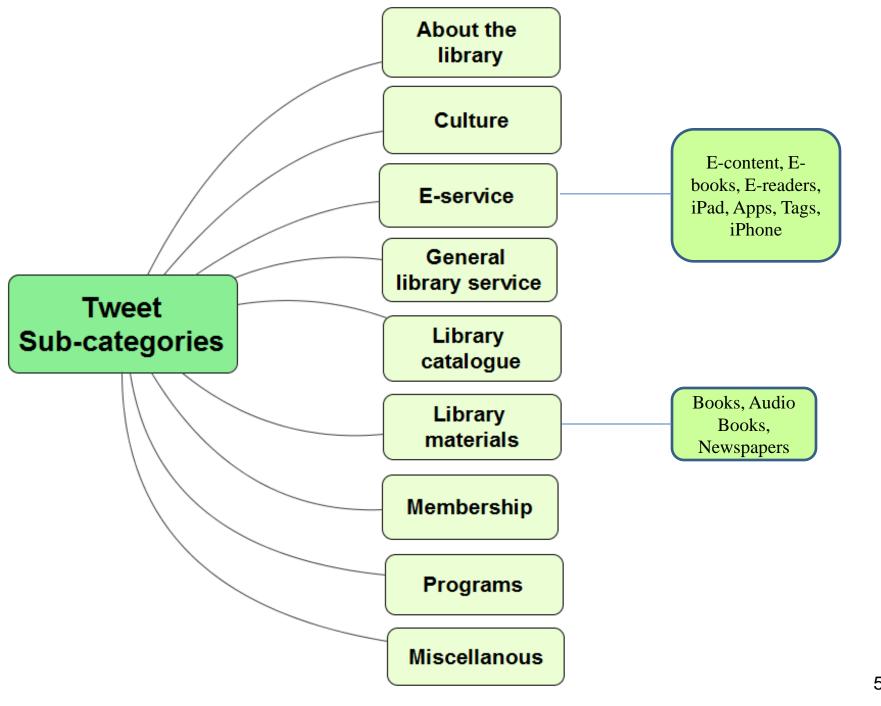
Shiri, A. & Rathi, D. (2013) Twitter Content Categorization: A Public Library Perspective. Journal of Information and Knowledge Management. 12 (4).





Categorization Scheme: 13 Main Categories





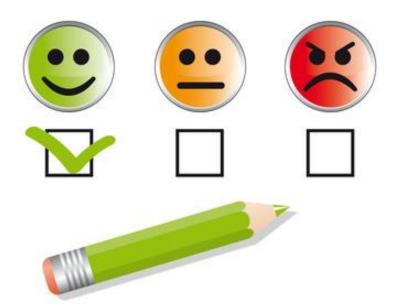
Example 2: User generated comments in the EPL catalogue

- Analysis and visualization of user comments
- Example: Twilight
- There are 290 comments made by readers
- Analysis and visualization

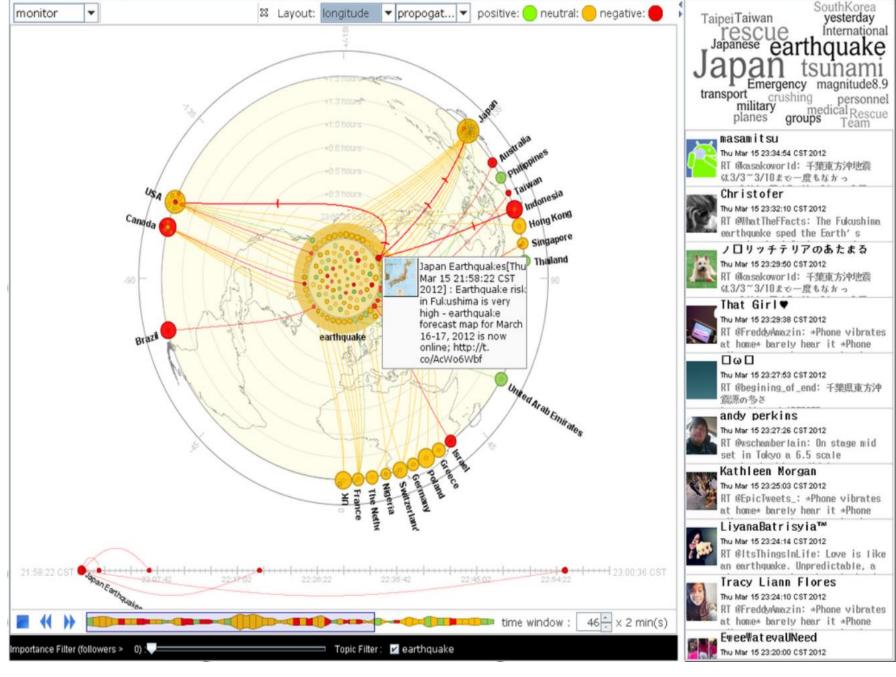


Sentiment analysis in social media:

- tweets
- blogs
- services
- programs







Future librarians

- Data, information and knowledge managers
- Innovators
- Educators
- Evaluators
- Leaders
- Online community facilitators
- Partners
- User experience experts

Thank you!

Double Robotics

Teleconferencing
Potential for library services

