The Roles of Libraries in Open Data Literacy

University of Washington Information School Open Data Literacy



O D L OPEN DATA LITERACY

Why should libraries get involved in the open data movement?

curation expertise HISTORIC ROLE *lots of library data*



CORE VALUES

information experts

transparency



What roles do libraries play in open data literacy?





How do libraries <u>educate about</u> open data?





Open Data Day Hackathon at Edmonton Public Library

Edmonton Public Library (<u>epl.ca</u>) in Edmonton, Alberta, Canada offers a variety of open data resources to its patrons, including its annual Open Data Day Hackathon. EPL's Hackathon involves:

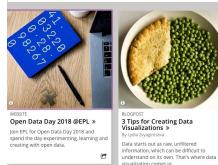
- City, library, and business representatives
- Open to any citizens interested in experimenting with open data

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• Encourages new projects and business ideas that utilize open data

Open Data Day

Edmonton Public Library is partnering with the City of Edmonton to celebrate International Open Data Day 2018.







Check Out Edmonton's Open Data Catalogue »

Check out hundreds of datasets, experiment with open analytics or tell the city what data you'd like to see!

C

<u>(Open Data Day - epl.ca)</u>

Learn More About Data »

Get savvy, get inspired and get coding with

1

practical guides, hot topics and online

recommended by ioiolibrarian

resources.

Open Data Content at Edmonton Public Library

Edmonton Public Library also offers some open data content on their website, including topic guides (on topics such as Python and R) and blog posts.

One blog post, <u>"3 Tips for Creating Data</u> <u>Visualizations That People Understand,"</u> has been very popular, offering tips and tricks for creating open data visualizations.

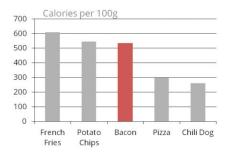
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1. Less is More

Visualization is communication—communication that can take something complicated like data ar meaningful. When you visualize data, it has the power to tell stories.

The key is: your visualization should only include that information which is needed to help the view the data. Often, this means less is more. Skip distracting fonts and use bold and italic sparingly. Le talking by communicating vital information to the viewer.

Lighten labels



<u>"3 Tips for Creating Data Visualizations That</u> <u>People Understand" - epl.ca</u>

Data Courses Offered or Developed by Libraries

- Data 101 Toolkit
 - Developed by Carnegie Library of Pittsburgh and Western Pennsylvania Regional Data Center
- Data Equity for Main Street
 - Developed by librarians as well as education and technology leaders
 - Pilot-tested in more than 20 libraries

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How do libraries <u>collaborate</u> with local government on open data?

- Local government collaborations
- Open data portal as a library service
- Data collection development
- Additional library and information science expertise



Library as Collaborator

Chapel Hill, North Carolina



www.chapelhillopendata.org

- Launched portal as library service in partnership with Town of Chapel Hill
- Contributes staff member to portal who serves jointly as library systems manager and open data project manager
- Publishes library data to portal

Library as Collaborator

Chattanooga, Tennessee



data.chattlibrary.org

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- Launched open data portal on library domain
- Publishes library data to portal

Library as Collaborator

Asotin County, Washington



- Leading collaborative efforts to open up county data to the public
- Opening up its own library data



What do libraries <u>publish</u> as open data?



BRANCH INFORMATION & PATRON DATA

- Branch Services
- Library Visitors / Attendance
- Program Attendance
- Library Cardholders
- Library Expenditures

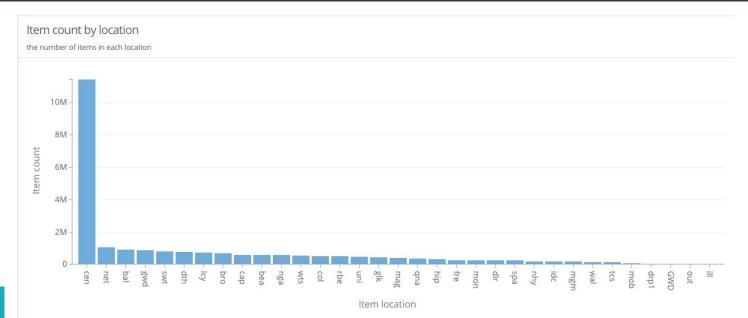
CIRCULATION DATA

- Most Popular Books by Branch
- Popular Fiction Titles
- Popular Nonfiction Titles
- Popular Teen Titles
- Library Holds
- Satisfaction with Library Materials

TECHNOLOGY DATA

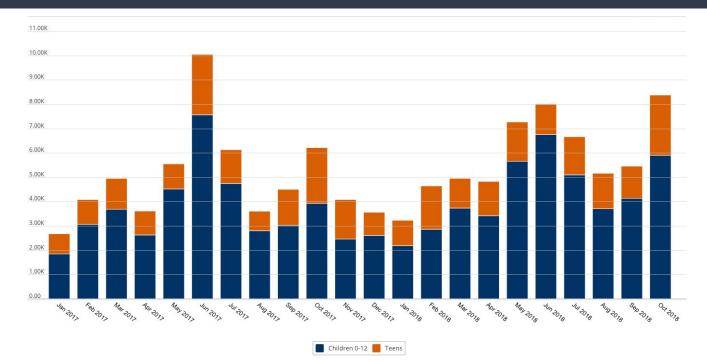
- Library WiFi Usage
- Library Computer Usage
- Electronic Resources

data.seattle.gov: Collection Items by Location



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data.memphistn.gov: Youth Library Program Attendance



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(City of Memphis, 2018)

data.cityofchicago.org: Popular Fiction Titles at the Chicago Public Library

RANK	:	TITLE	AUTHOR :	PUB YEAR	CATALOG RECORD
	1	The goldfinch	Tartt, Donna.	2013	http://chipublib.bibliocommon.
	2	Gone girl: a novel	Flynn, Gillian, 1971-	2012	http://chipublib.bibliocommon.
	3	Sycamore row	Grisham, John.	2013	http://chipublib.bibliocommon.
	4	The gods of guilt: a novel	Connelly, Michael, 1956-	2013	http://chipublib.bibliocommon.
	5	The invention of wings	Kidd, Sue Monk.	2014	http://chipublib.bibliocommon.
	6	Takedown twenty	Evanovich, Janet.	2013	http://chipublib.bibliocommon.
	7	Cross my heart	Patterson, James, 1947-	2013	http://chipublib.bibliocommon.
	8	And the mountains echoed	Hosseini, Khaled.	2013	http://chipublib.bibliocommon.
	9	The Interestings	Wolitzer, Meg.	2013	http://chipublib.bibliocommon.
	10	Inferno: a novel	Brown, Dan, 1964-	2013	http://chipublib.bibliocommon.
	11	The cuckoo's calling	Galbraith, Robert.	2013	http://chipublib.bibliocommon.
	12	King and Maxwell	Baldacci, David.	2013	http://chipublib.bibliocommon.
	13	The lowland: a novel	Lahiri, Jhumpa.	2013	http://chipublib.bibliocommon.
	14	Fifty shades of Grey	James, E. L.	2012	http://chipublib.bibliocommon.

(Chicago Data Portal, 2014)

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data.austintexas.gov: Wireless Usage at Austin Public Library

Wireless Usage at Austin Public Library	View Data	Visualize $$	Export	API	
Recreation and Culture					

The Library offers WiFi access at all locations. As of 10/2016 we are pulling the usage from Meraki, and it is the number of distinct clients using our WiFi. Prior to 10/2016, we pulled number of sessions/connections for each location from Google Analytics monthly.

Updated September 24, 2018	Imagine Austin (30 - Year horizon) Primary Priority			
September 24, 2018	Primary Priority	Workforce Development		
Data Last Updated Metadata Last Updated September 24, 2018 September 24, 2018	Imagine Austin (30 - Year horizon) Secondary Priority			
Date Created July 8, 2015	Secondary Priority	Healthy Austin		
Views Downloads	Strategic Plan Outcome (3-5 year horizon) Primary			
462 1,378	Primary Strategic Outcome	Cultural and Learning Opportunities		
Data Provided by Dataset Owner Austin Public Library Sarah	Strategic Plan Outcome (3-5 ye	ear horizon) Secondary		
Contact Dataset Owner	Secondary Strategic Outcome	Health		
	Additional Information			
	Department	Library		
	Frequency	Monthly		



(City of Austin, 2018)

trl.org/open-data: Overdrive Digital Circulation



Welcome to the Timberland Regional Library Open Data Portal

TRL recognizes the rights of citizens, organizations, and local government to public access to library records and information, as specified in the Open Data Policy.

Data Sets

Data sets may include

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i. Library information such as geolocations, profiles, hours, and other features.

ii. Cardholder statistics and measures such as aggregated demographic data, number of cardholders, number of cardholders active in the past 12 months, number of cardholders using various services or borrowing materials, or similar data that does not include personally identifiable information.

iii. Data regarding programs offered at the Library including information about overall attendance and other measures

iv. Technology information such as the number of computers available, internet and WiFi sessions used, and similar data.

v. Collections data on titles and items held by the Library and their use.

vi. Financial information including budgets, income, and expenditures.

Overdrive - Digital Circulation

Includes circulation of digital materials (eBooks and eAudiobooks by library).

Last Updated: July 2019, .xlsx format, updates monthly

1	Branch	Checkouts
2	Nisqually Timberland Library	1
3	Shoalwater Timberland Library	24
4	Rochester Timberland Library	43
5	Hawks Prairie Timberland Library	49
6	Timberland Regional Library	54
7	Morton Timberland Kiosk	58
8	Toledo Kiosk Library	125
9	Amanda Park Timberland Library	134
10	North River Timberland Library	152
11	Oakville Timberland Library	154
12	Packwood Timberland Library	232
13	Administrative Service Center	304
14	Naselle Timberland Library	313
15	South Bend Timberland Library	363
16	Mountain View Timberland Library	467
17	McCleary Timberland Library	495
18	Hoodsport Timberland Library	543
19	Westport Timberland Library	617
20	Raymond Timberland Library	832

(Timberland Regional Library, 2019)

How about your library?

What kind of open data would your library want to share with the public?

What do you think your community want to know about your library that you could tell them with open data?



Tips for Libraries Getting Started with Open Data

- Start small.
- Offer open data as a resource at reference.
- Talk with other government organizations about open data.
- Launch a dataset.

How will your library engage with open data?

Whether as a **publisher**, **collaborator**, or **educator**, libraries can play **a vital role in promoting open data literacy** in their communities.

Because they are open to all and have a long history of curation expertise, **libraries are perfectly positioned to connect patrons to the next information frontier:** <u>data</u>.



Contact Us

To learn more about the Open Data Literacy (ODL) project, contact us at:

- Web: <u>http://odl.ischool.uw.edu</u>
- Email: <u>odluw@uw.edu</u>
- Twitter: @ODLiteracy

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References

Chapel Hill Open Data. (n.d.). Retrieved from https://www.chapelhillopendata.org/page/home1/.

Chattanooga Open Data Portal. (n.d.). Retrieved from <u>https://data.chattlibrary.org</u>.

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City of Austin. (2018). *Wireless Usage at Austin Public Library* [Data file]. Retrieved from <u>https://data.austintexas.gov/Recreation-and-Culture/Wireless-Usage-at-Austin-Public-Library/cr83-wy4q</u>.



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City of Memphis. (2018). *MEMFacts Youth Library Attendance* [Data file]. Retrieved from <u>https://data.memphistn.gov/Neighborhoods/MEMFacts-Youth-Library-Attendance/2qhu-zch9</u>.

City of Seattle. (2018). *Items by Location*. Based on Library Collection Items [Data file]. Retrieved from <u>https://data.seattle.gov/Community/Items-by-Location/i9et-ud68</u>.

Open Data. (n.d.). Retrieved from https://www.epl.ca/open-data/.

Timberland Regional Library Open Data Portal. (n.d.) Retrieved from <u>https://www.trl.org/open-data</u>.

Zvyagintseva, L. (February 22, 2018). *3 Tips for Creating Data Visualizations That People Understand*. Retrieved from https://www.epl.ca/blogs/post/data-visualization-tips/.

Additional Resources

- ODL Resource Hub | <u>http://odl.ischool.uw.edu/resources/</u>
- Data.gov | <u>https://www.data.gov</u>
- Washington's Open Data Portal, Data.WA.gov | <u>https://data.wa.gov</u>
- Washington State Library's Open Data Information Page |
 <u>https://www.sos.wa.gov/library/libraries/projects/opendata/</u>
- Applications Created with Open Data | <u>https://www.data.gov/applications</u>

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