# UNLOCKING LIBRARY DATA FOR THE WEB: BIBFRAME, LINKED DATA AND THE LIBHUB INITIATIVE

### WLA 2016

PRESENTED BY RICK NEWELL AND COLLEEN BRAZIL

# WHAT WE WILL COVER

# WHY LINKED DATA IS IMPORTANT HOW IT WORKS THE FUTURE

# WHY ARE WE DOING THIS?



# **EXPECTATIONS OF LIBRARY WEB VISIBILITY**

"WHEN MY COMMUNITY SEARCHES THE WEB FOR SOMETHING WE HAVE, WE BETTER SHOW UP AS AN OPTION."



- CHUCK GIBSON, DIRECTOR & CEO WORTHINGTON PUBLIC LIBRARY





ll innovative

Atlas Systems Libhub Initiative Sponsor Innovative Interfaces Inc. Libhub Initiative Sponsor





SirsiDynix

Calgary Public Library

Libhub Initative Sponsor

Zepheira Libhub Initiative Founder & Sponsor

#### Institutional and Organizational Partners

The Libhub Initiative is founded on active discussion and transparent exploration. The following institutions and organizations have played very active roles in pushing this agenda and philosophy forward through their involvement and experimentation.

ARAPAHOE

IBRARY

DISTRICT





A REVOLUTION OF RANGEVIEW LIBRARIES

Anythink Libraries

Hamilton Public Library

**dallas**public**library** Dallas Public Library



Deutsche Nationalbibliothek

MarcEdit

Arapahoe Library District





Denver Public Library





Edmonton Public Library



Phoenix Public Library







Multnomah County Library

Douglas County Libraries





Worthington Public Library



SYSTEMS







Colleen Brazil Diana Clementson Content Access Manager Cataloging



Mike Longley Web Developer

Google



Casey Gabehart ILS Manager



Jacob Thornton Web Developer



### Awareness and Education

### Readiness Assessment

### Implementation and Exploration

### [April/June]



### Awareness and Education

### Readiness Assessment

### Implementation and Exploration

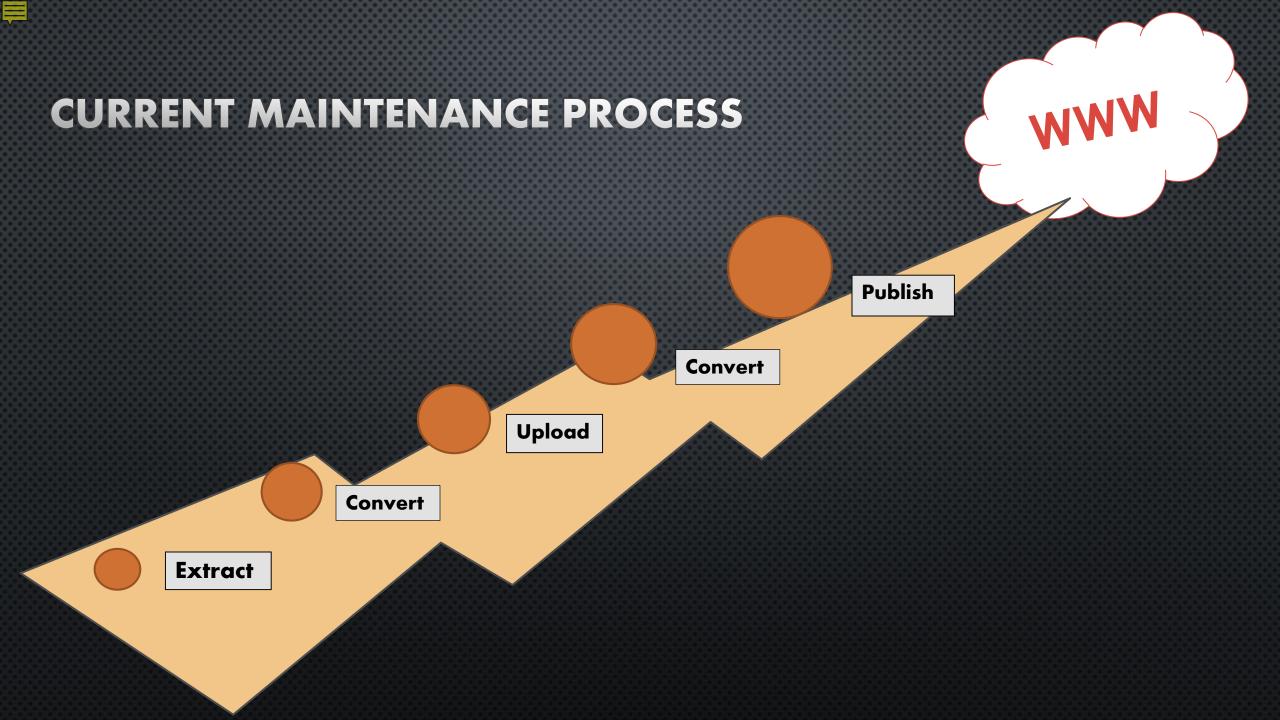
### [June/July]



### Awareness and Education

### Readiness Assessment

### Implementation and Exploration



# We Publish Linked Data through Local Link Graphs

# link.sno-isle.org is our portal page

#### 🐼 Library.Link Network : Sno-Isle Libraries

🏛 Sno-Isle Libraries	Resources
Home Page http://www.sno-isle Address 7312 35th Ave NE. N	.org [Arysville, WA, 98271-7417, USA]
Logo	Collection (28828)
	Concept (277214)
	CopyrightEvent (424)
Details Map	📽 Family (357)
🖀 Arlington Library	S ☆ Form (2156)
• •	.org/locations/arlington/
Address 135 N Washington A Location 48.193360 -122.118	ve, Arlington, WA, 98223-1422, USA 💼 Meeting (576)
Hours Mo, 09:00-20:00	Organization (24301)
Tu, 09:00-20:00 We, 10:00-20:00	<b>Person</b> (227307)
Th, 10:00-20:00 Fr, 10:00-18:00	♀ Place (17389)
Sa, 09:00-18:00 Su, 13:00-17:00	ProviderEvent (137472)
Image(s)	• Temporal (1483)
	<b>•</b> Topic (41057)
	• Work (398518)
🖀 Brier Library	

Each "Resource" is published and linked in the Library's Local Link Graph pages.

The data is designed to bring together disparate resources, surface relationships and provide entry paths for the Web into what's available in the library.

### Page 2 of Google Results

Google	thum	nbelina, Ha	ins Christia	an Andersen	: retold by	y Bria	PAGE 2 OF
	All	Images	Videos	Shopping	News	More	GOOGLE
	Page	2 of about 1.	540 results (	0.80 seconds)			RESULTS

### SULTS

KidsBookCircus.com: Thumbelina: Brian Alderson kidsbookcircus.com/book.php?ISBN=9780763620790 -Thumbelina Contributor(s): Alderson, Brian (Retold By), Andersen, Hans Christian, Ibatoulline, Bagram (Illustrator). ISBN: 0763620793 ISBN-13:

#### The Smallest Tall Tale - The New York Times

www.nytimes.com/2010/04/11/.../Jenkins-t.html - The New York Times -Apr 11, 2010 - Hans Christian Andersen's 1836 "Thumbelina" is the story of a tiny, passive girl, no bigger than your thumb. ... "She had no way of knowing how lovely she was," as Sylvia Long puts it in her retelling. ... Brian Alderson's "Thumbelina" is more of a departure from the original, ... Illustrated by Bagram Ibatoulline.

#### Hans Christian Andersen | Kirkus Reviews

https://www.kirkusreviews.com/.../hans-christian-anderse... 
 Kirkus Reviews by Hans Christian Andersen, retold by Allison Grace MacDonald, illustrated .... by Hans Christian Andersen, adapted by Brian Alderson, illustrated by Bagram Ibatoulline ... THUMBELINA, TINY RUNAWAY BRIDE by Hans Christian Andersen.

#### Thumbelina - Sno-Isle Libraries

link.sno-isle.org/portal/Thumbelina/SUSyv9Syhv8/ -Thumbelina, Hans Christian Andersen ; retold by Brian Alderson ; illustrated by Bagram Ibatoulline. Type. http://bibfra.me/vocab/lite/Work .

Thumbelina / Hans Christian Andersen : retold by Brian ... mwbooks.ie/.../thumbelina-hans-christian-andersen-retold-by-brian-alder... -Thumbelina / Hans Christian Andersen ; retold by Brian Alderson ; illustrated by Bagram Ibatoulline. €11.95. Product code: 19944. Availability: In stock. €11.95.

#### NEW Thumbelina by Alderson, Brian (RTL); Andersen, Hans ...

www.ebay.com/...Thumbelina...Alderson-Brian...Andersen-Hans-C... • eBay • Luminous illustrations by Bagram Ibatoulline combine with Brian Alderson's ... In a warm, witty retelling accessible to younger children, Hans Christian Andersen's tale of a girl no bigger than a thumb is lavishly illustrated by Bagram Ibatoulline.

#### Find in Library - National Library Board

www.nlb.gov.sg/newarrivals/item holding.aspx?bid... National Library Board \* Thumbelina / Hans Christian Andersen ; retold by Brian Alderson ; illustrated by Bagram Ibatoulline. Author: Alderson, Brian. Publisher: Somerville, MA.

Thumbelina BY Hans Christian Andersen Bagram ... - eBay www.ebay.com.au/.../Thumbelina...Hans-Christian-Andersen-Bagra... - eBay -Thumbelina By Hans Christian Andersen, Bagram Ibatoulline, Brian Alderson in ... Thumbelina Alderson, Brian (Retold By)/ Andersen, Hans Christian/ Ibatoulline, .... tale





Thumbelina; Hardcover; Retold by - Brian Alderson \$1.99 - Barnes & Noble

#### Sign in ά.

### Linked Data Page for a Title - Thumbelina

#### K Library.Link Network : Sno-Isle Libraries

	<ul> <li>Cibraries are Wonderful!</li> <li>Taking you to your library catalog in 8</li> <li>Take me there now! No thanks, I'll stay here.</li> </ul>			
	mbelina, Hans Christian Andersen ; retold by n Alderson ; illustrated by Bagram Ibatoulline	Arlington Library 135 N Washington Ave, Arlington, WA, 98223-1422, USA		
Title	Thumbelina			
Statement of respo	Hans Christian Andersen ; retold by Brian Alderson ; illustrated by Bagram Ibatoulline	Brier Library 23303 Brier Rd, Brier, WA, 98036-8247, USA		
Creator	👗 Alderson, Brian	Camano Island Library 848 N. Sunrise Blvd, Camano Island, WA,		
Contributor	🛓 Ibatoulline, Bagram	98282-8770, USA		
Subject	Fairy tales	Clinton Library 4781 Deer Lake Rd, Clinton, WA, 98236-0530, USA		
Language	eng			
Summary	A tiny girl no bigger than a thumb is stolen by a great ugly toad and subsequently has many adventures and makes many animal friends, before finding the perfect mate in a warm and beautiful southern land	Coupeville Library 788 NW Alexander St, Coupeville, WA, 98239- 0745, USA		
Related	• Tommelise	A Darrington Library		
Cataloging source	DLC			
Dewey number	[E]			
Illustrations	illustrations	Ø Context		
Index	no index present	√ Work		
LC call number	PZ8.A36	• Thumbelina		
LC item number	Th 2009	√ Instance		

# Page 1 of Google Results

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https://www.google.com/#q=norman+lenfest					
) Bib list reports 🛛 🖓 httpforums.pola 💷 httpsintranet.sn 🛛 💷 Ir	itranet 💷 SIL Admin 🖪 Sno-Isle Libraries 🕃 WV	VW 🗀 Imported From IE 🛛 New	Items 🗋 New Tab 🗀 New folder 🛽	IT Dashboard 🛛 Analytics Academ	
e norman lenfest	<mark>اب</mark> م				
All News Images Maps Videos More	PAGE 1 OF				
About 67,700 results (0.59 seconds)	GOOGLE				
Norman F Lenfest - Ancestry.com search.ancestry.com//sse.dll?Norman%20FLenfe All results for Norman F Lenfest Name: Norman Lenfest Washington. Residence: 1935 - Snohomish, Nashingtor					
Norman Lenfest in the 1940 Census   Ancestry www.ancestry.com/1940/Norman-Lenfest_24p693  Ances View Norman Lenfest's 1940 US census record to find family memb details & more. Access is free so discover Norman's story today.	stry.com Inc. 👻				
Images for norman lenfest	Report images				
More images for norman lenfest					
Norman Lenfest - Title - Sno-Isle Libraries catalog.sno-isle.org/polaris/view.aspx?cn=679426 ▼ Sno-isle I Summary: College graduation photograph of Norman Lenfest. Norm Snohomish on July 7, 1894, was the only child of Sylvia Ferguson Le	an, born in				
Norman F Lenfest (1893 - 1978) - Find A Grave M www.findagrave.com/cgi-bin/fg.cgi?page=gr&GRid ▼ Find a May 26, 2009 - Birth: Jul. 7, 1893. Death: May 12, 1978. Burial: Grar Republic Cemetery Snohomish Snohomish County Washington, USA	Grave <del>▼</del> nd Army of the				
Norman Lenfest Wilder (1884 - d.) - Genealogy - 0 www.geni.com/people/Norman-Wilder/6000000003714751790 Nov 29, 2014 - Genealogy for Norman Lenfest Wilder (1884 - d.) fan with over 140 million profiles of ancestors and living relatives.	Geni 🔻				
Norman Lenfest Death Records death-records.scom/d/n/Norman-Lenfest ▼ Find death records for Norman Lenfest. Over 100 million deaths fror Research your ancestors for free in our extensive genealogy databas					
Norman Lenfest from Snohomish in 1940 Census					

# HOW GOOGLE SEARCH WORKS

# TRANSFORMED

# LIBRARY DATA

# CAN TEACH

THE WEB

# FUTURE

# TRANSFORM > LINK > PUBLISH > CONSUME









Catalog, Enriched and Licensed Content Events, Strategic Purpose, Locations, Services Special Collections, Archives

# Libraries Publish Linked Data through Local Link Graphs

Each "Resource" is published and linked in the Library's Local Link Graph pages.

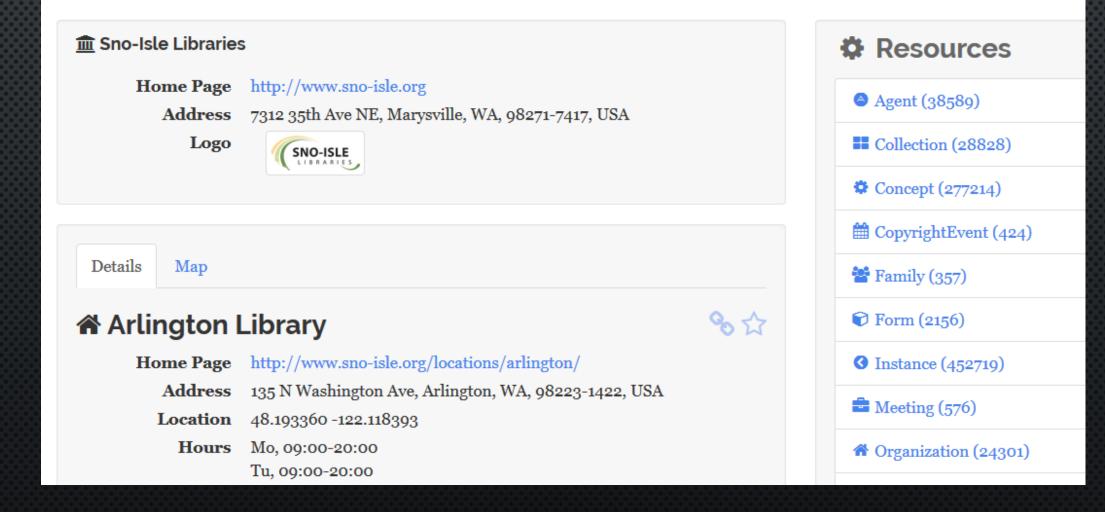
The data is designed to to bring together disparate resources, surface relationships and provide entry paths for the Web into what's available in the library.

# MARC AND RDA DATA



# HTTP://LINK.SNO-ISLE.ORG/

#### Dibrary.Link Network : Sno-Isle Libraries



# A 'Person Resource' doesn't yet have a Catalog page, but look at what our data can teach the Web...

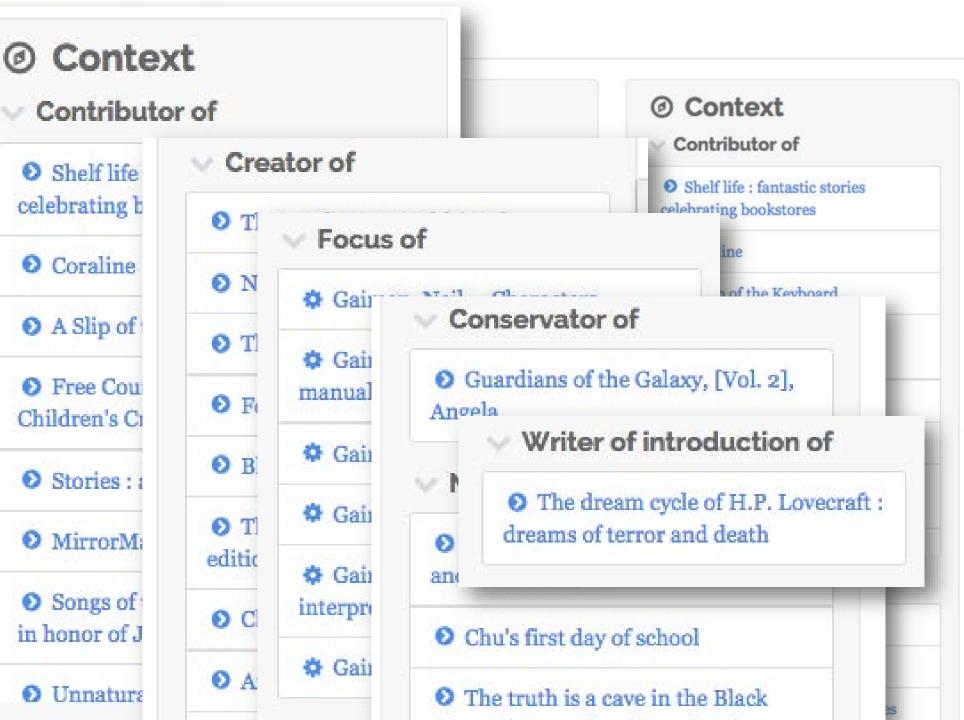
Library, Link Network : Sno-Isle Libraries

Works Persons Collection Place Topic Series 677,443 (369,239) (184,688) (33,954) (17,951) (32,698) (38,913)



iman, Neil		Ø Context
Name Gaiman, Neil		Contributor of
	O Show / Hide Supplemental data	Shelf life : fantastic stories celebrating bookstores
		<ul> <li>Coraline</li> </ul>
		<ul> <li>A Slip of the Keyboard</li> </ul>
		• Free Country : a tale of the Children's Crusade
		Stories : all-new tales
		MirrorMask





### Contributor of:

THE RADWAR



+24All more connections link to library NELL CLIMEN **Creator of:** SANDAR +100a de la compañía resources more Author of: **Conservator of:** DIGITA **SNO-ISLE** NEIL GAIMAN Narrator of: **AAGAZINE** LIBBABIE +20TRIGGER WARNING more Search by: Any Field Focus of: Limit by: All Format More Search Option 1 - 1 of Page: [1] Shelf life : fantastic stories celebrating bookstores Availability by Library all Number: FIC SHELF L Publisher, Date: [Gaithersburg, MD] : Prime Books, [2012], c2002. Description: xvi, 285 p. ; 23 cm. Full Display Place Request urrent Requests: 0 stem Availability: 2 (of 2 2012 Add to My List

### Writer of Introduction of:







1 - 1 of 1

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# Including Sources and Connections beyond the traditional catalog



Library Service & Content Providers Novelist OverDrive Atlas Systems

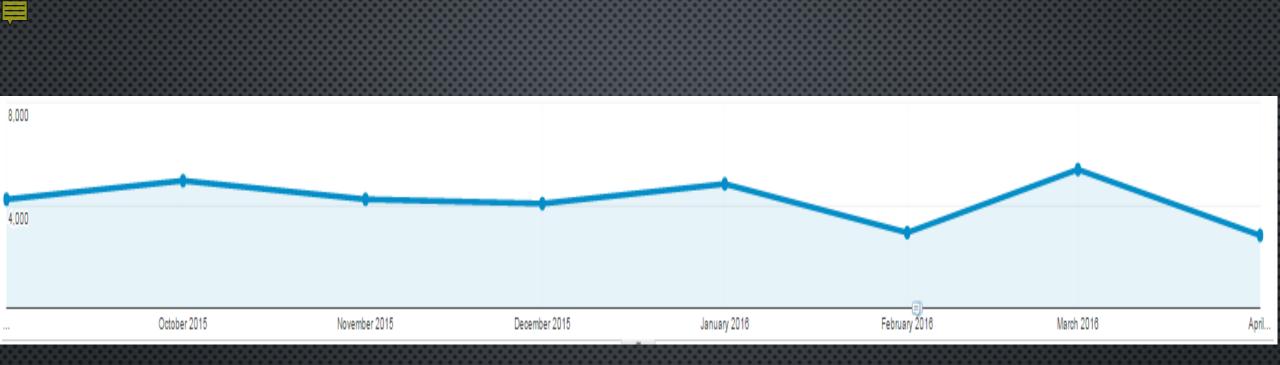
Web Sources Wikipedia Twitter Google + Facebook

Library Generated & Community Curated Content Author Event @ Library YouTube archive of event Special Collections & Archives Authority Services VIAF LC

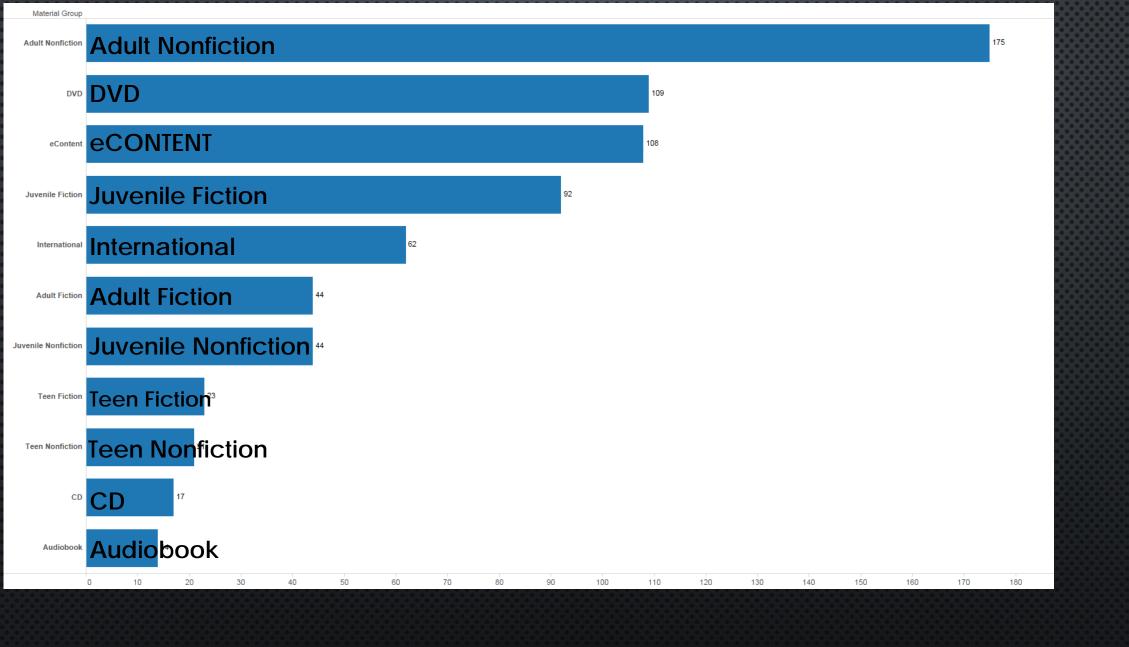
. . .

# WEAVING THE BEST OF LIBRARIES AND THE WEB TOGETHER

- THIS ISN'T ABOUT GAMING A SYSTEM
- IT'S NOT ABOUT OPTIMIZING TO ANY ONE SERVICE
- IT'S ABOUT SPEAKING IN A WAY THE WEB UNDERSTANDS
- LEVERAGING THE POWER OF OUR COMMUNITY
- AND BENEFITING FROM WHAT ALL THIS ENABLES



# Measuring the amount of referrals from <a href="http://www.google.com">www.google.com</a> <a href="http://www.google.com">catalog.sno-isle.org</a>



# **GETTING STARTED IS EASY**

- 1. Grab a bookmark!
- 2. GO TO <u>HTTP://ZEPHEIRA.COM/LIBRARYLINKACTIVATION</u>
- 3. CLAIM YOUR LINK DOMAIN
- 4. SET UP YOUR LIBRARY LOCATION INFORMATION



# RICK IS GOING TO TELL YOU MORE ABOUT OCLC'S INVOLVEMENT IN LINKED DATA