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

Atlas Systems

Libhub Initiative Sponsor

Innovative Interfaces Inc.

Libhub Initiative Sponsor

SirsiDynix

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.

Anythink Libraries

Arapahoe Library District

Calgary Public Library

Denver Public Library

Dallas Public Library

Deutsche Nationalbibliothek

Douglas County Libraries

Edmonton Public Library

Phoenix Public Library

Hamilton Public Library

MarcEdit

Multnomah County Library

Worthington Public Library

zepheira

POLARIS
LIBRARY SYSTEMS

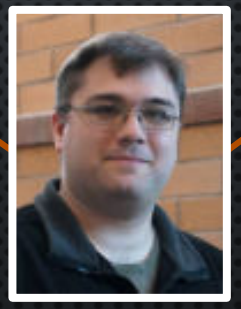
Diana Clementson
Cataloging

Colleen Brazil
Content Access Manager

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

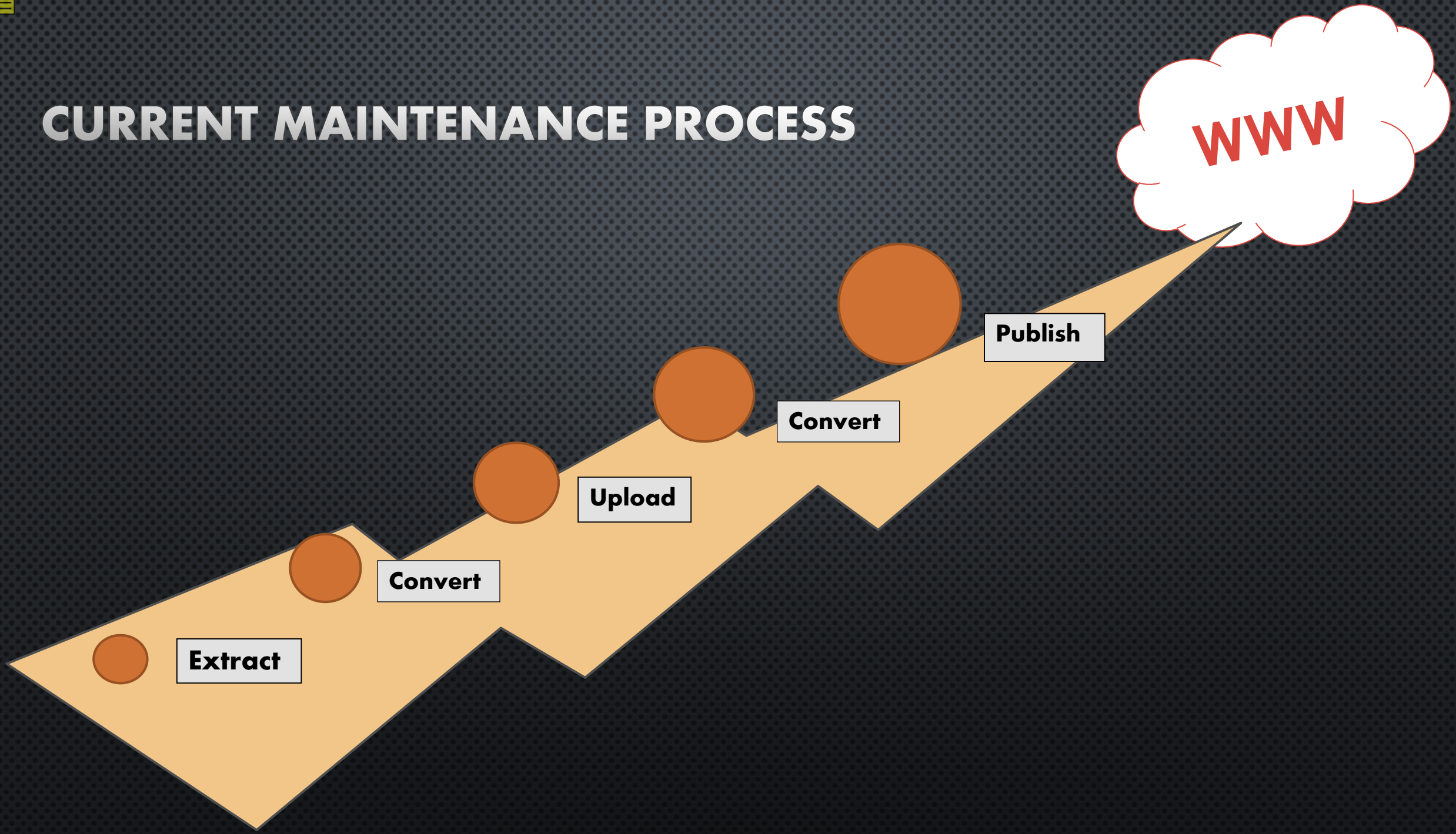
[June/July]

Awareness and Education ✓

Readiness Assessment ✓

Implementation and Exploration

CURRENT MAINTENANCE PROCESS



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

Home Page http://www.sno-isle.org
Address 7312 35th Ave NE, Marysville, WA, 98271-7417, USA
Logo

Details | Map

Arlington Library

Home Page http://www.sno-isle.org/locations/arlington/
Address 135 N Washington Ave, Arlington, WA, 98223-1422, USA
Location 48.193360 -122.118393
Hours Mo, 09:00-20:00
Tu, 09:00-20:00
We, 10:00-20:00
Th, 10:00-20:00
Fr, 10:00-18:00
Sa, 09:00-18:00
Su, 13:00-17:00
Image(s)

Brier Library

Resources

- Agent (38589)
- Collection (28828)
- Concept (277214)
- CopyrightEvent (424)
- Family (357)
- Form (2156)
- Instance (452719)
- Meeting (576)
- Organization (24301)
- Person (227307)
- Place (17389)
- ProviderEvent (137472)
- Temporal (1483)
- Topic (41057)
- Work (398518)

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

Linked Data Page for a Title - Thumbelina

Library.Link Network : Sno-Isle Libraries

Libraries are Wonderful!

Taking you to your library catalog in 8

Take me there now! | No thanks, I'll stay here.

Thumbelina, Hans Christian Andersen ; retold by Brian Alderson ; illustrated by Bagram Ibatoulline

Title	Thumbelina
Statement of respo	Hans Christian Andersen ; retold by Brian Alderson ; illustrated by Bagram Ibatoulline
Creator	Alderson, Brian
Contributor	Ibatoulline, Bagram
Subject	Fairy tales
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
Related	Tommelise
Cataloging source	DLC
Dewey number	[E]
Illustrations	illustrations
Index	no index present
LC call number	PZ8.A36
LC item number	Th 2009

Library Locations

- Arlington Library
  135 N Washington Ave, Arlington, WA, 98223-1422, USA
- Brier Library
  23303 Brier Rd, Brier, WA, 98036-8247, USA
- Camano Island Library
  848 N. Sunrise Blvd, Camano Island, WA, 98282-8770, USA
- Clinton Library
  4781 Deer Lake Rd, Clinton, WA, 98236-0530, USA
- Coupeville Library
  788 NW Alexander St, Coupeville, WA, 98239-0745, USA
- Darrington Library

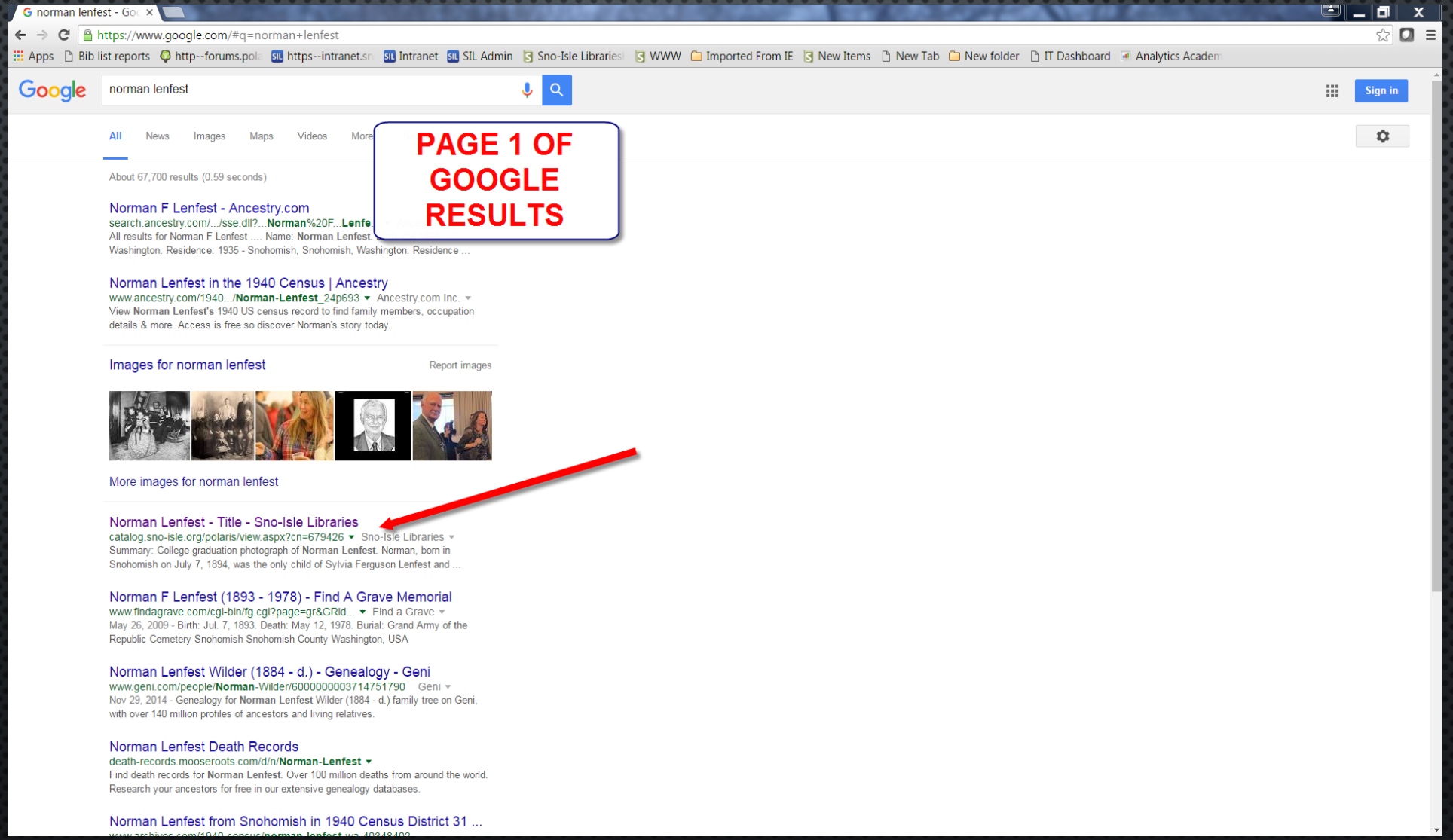
Context

Work

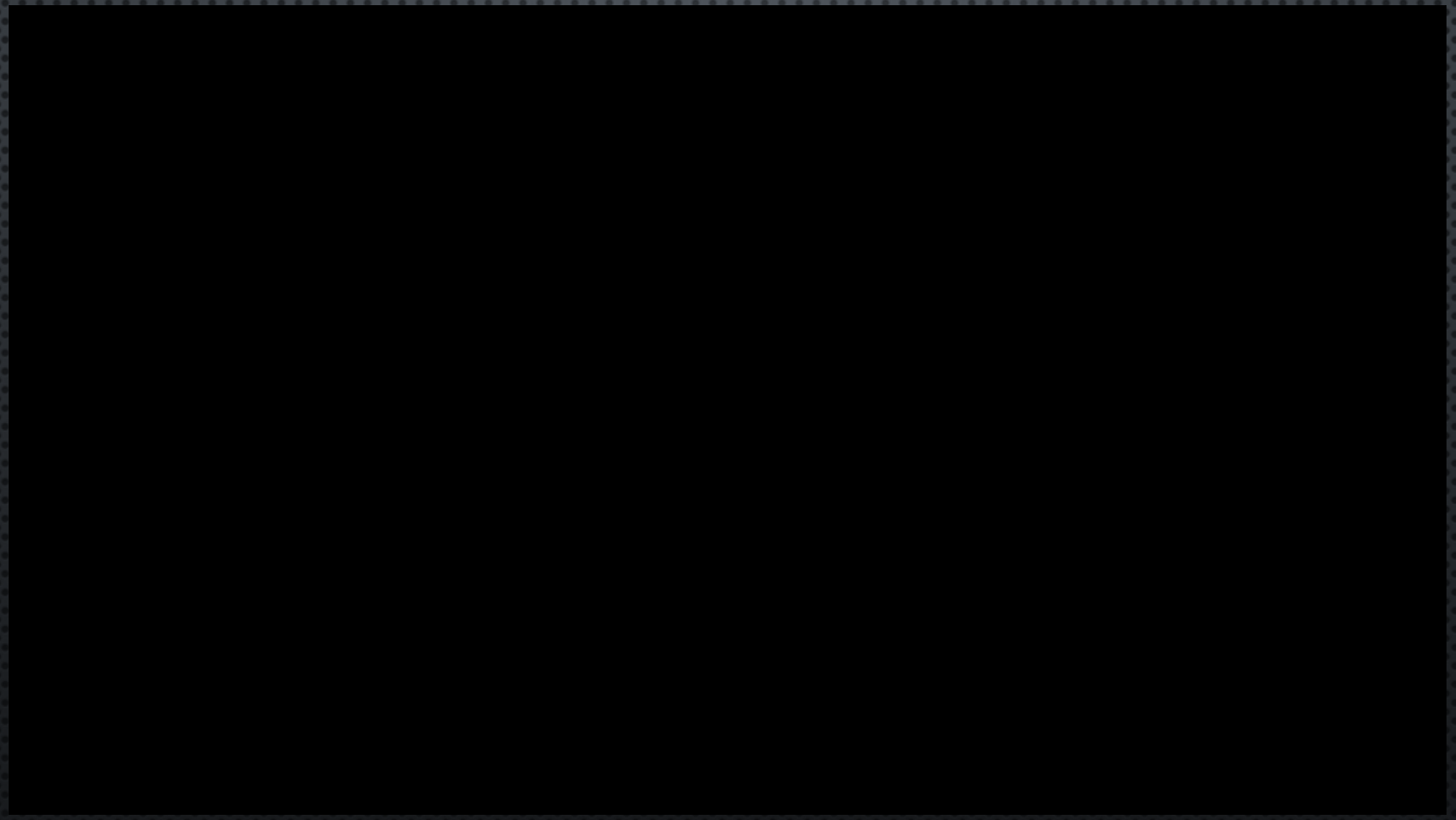
Thumbelina

Instance

Page 1 of Google Results



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

	AUTHORITY	BIBLIOGRAPHIC	HOLDINGS
MARC	SUBJECTS, NAMES, UNIFORM TITLES	SUBJECTS, NAMES, UNIFORM TITLES	HOLDINGS
RDA	WORK EXPRESSION	EXPRESSION MANIFESTATION	ITEM

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

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Resources

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- Form (2156)
- Instance (452719)
- Meeting (576)
- Organization (24301)

A ‘Person Resource’ doesn’t yet have a Catalog page, but look at what our data can teach the Web…

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

Library.Link Network : Sno-Isle Libraries

Gaiman, Neil

Name Gaiman, Neil

Show / Hide Supplemental data Raw data

Context

Contributor of

- Shelf life : fantastic stories celebrating bookstores
- Coraline
- A Slip of the Keyboard
- Free Country : a tale of the Children's Crusade
- Stories : all-new tales
- MirrorMask

Context

Contributor of

- Shelf life
celebrating b
- Coraline
- A Slip of
- Free Cou
Children's C
- Stories :
- MirrorM
- Songs of
in honor of J
- Unnatura

Creator of

- T
- N
- T
- F
- B
- T
editic
- C
- A

Focus of

- Gai
- Gai
manual
- Gai
- Gai
- Gai
interpr
- Gai

Conservator of

- Guardians of the Galaxy, [Vol. 2],
Angela
- an
- Chu's first day of school
- The truth is a cave in the Black

Writer of introduction of

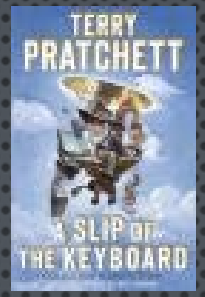
- The dream cycle of H.P. Lovecraft : dreams of terror and death

Context

Contributor of

- Shelf life : fantastic stories
celebrating bookstores
- ine
- of the Keyboard

Contributor of:



+24 more

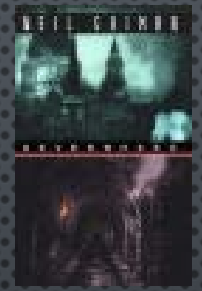
Creator of:

Author of:

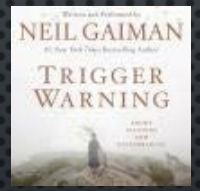
Conservator of:

Narrator of:

Focus of:

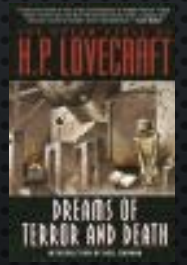


+100 more

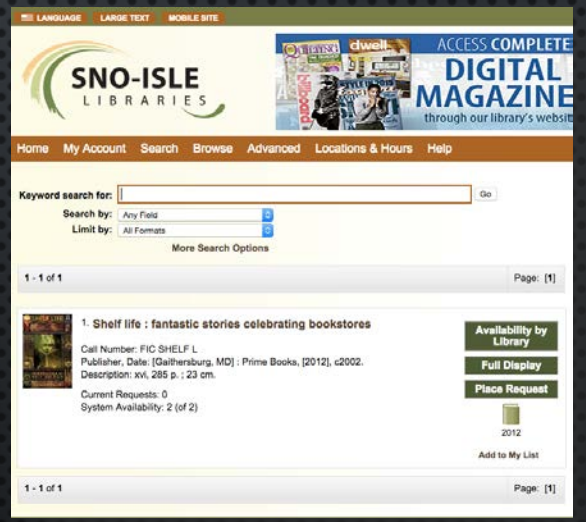


+20 more

Writer of Introduction of:



All connections link to library resources



Including Sources and Connections beyond the traditional catalog

Library Service & Content Providers

- Novelist
- OverDrive
- Atlas Systems

Library Generated & Community Curated Content

- Author Event @ Library
- YouTube archive of event
- Special Collections & Archives

Web Sources

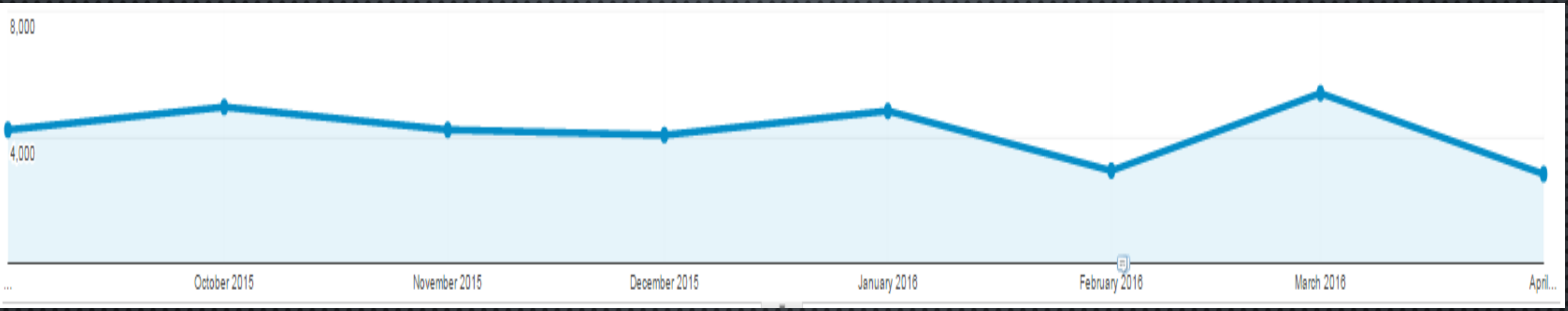
- Wikipedia
- Twitter
- Google +
- Facebook

Authority Services

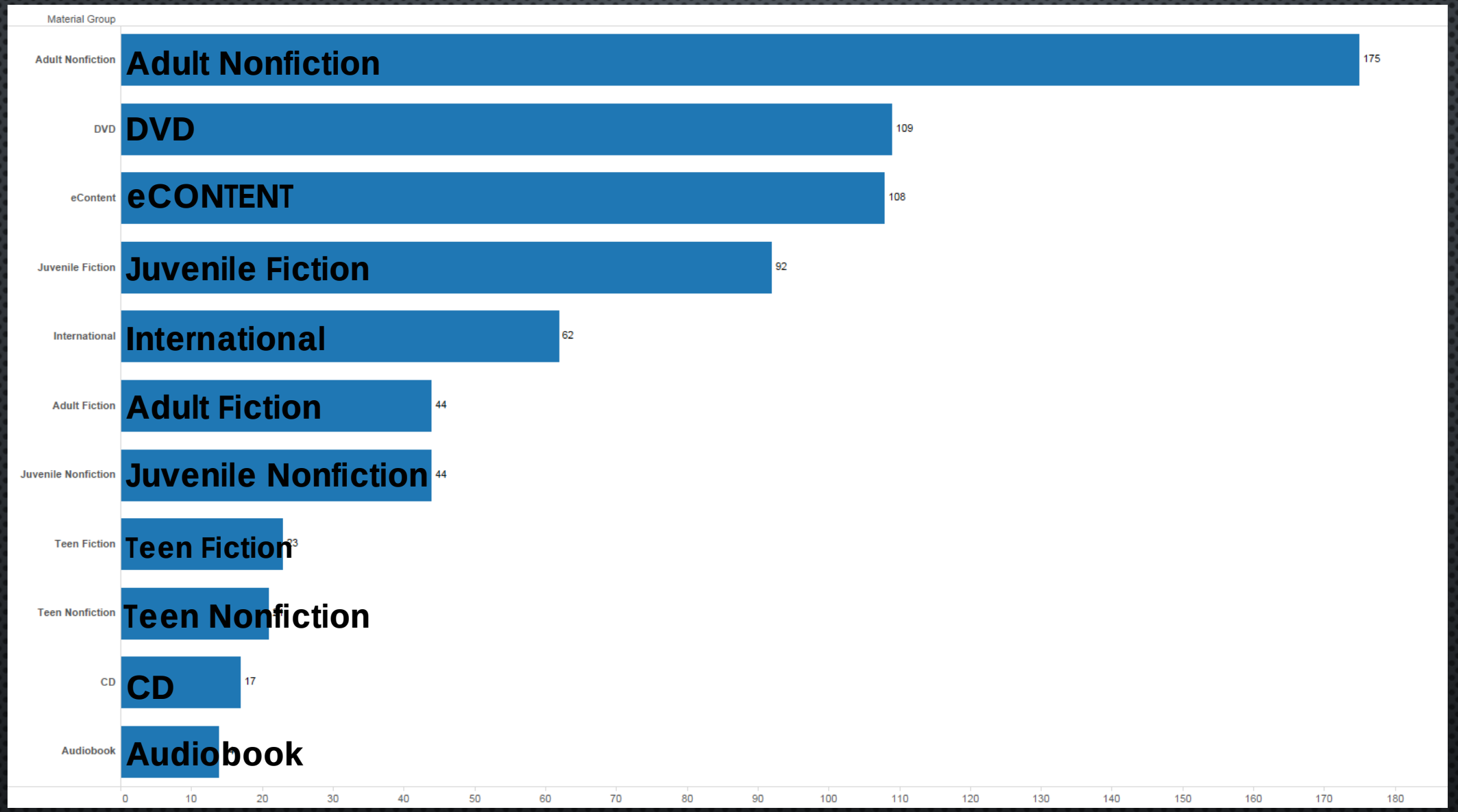
- VIAF
- LC
- …

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
www.google.com > catalog.sno-isle.org


Material Group
Adult Nonfiction
Adult Nonfiction
175
DVD
DVD
109
eContent
eCONTENT
108
Juvenile Fiction
Juvenile Fiction
92
International
International
62
Adult Fiction
Adult Fiction
44
Juvenile Nonfiction
Juvenile Nonfiction
44
Teen Fiction
Teen Fiction
23
Teen Nonfiction
Teen Nonfiction
CD
CD
17
Audiobook
Audiobook
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

GETTING STARTED IS EASY

1. GRAB A BOOKMARK!
2. GO TO **HTTP://ZEPHEIRA.COM/LIBRARYLINKACTIVATION**
3. **CLAIM YOUR LINK DOMAIN**
4. **SET UP** YOUR LIBRARY LOCATION INFORMATION

The Library.Link Network
Growing Library Visibility Together
A Zepheira Collaboration

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