Virtual AskQC Office Hours

Linked data, and the road to learning it
OCLC Metadata Quality
October 2020



Housekeeping

• This session is being recorded



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Housekeeping

- This session is being recorded
- All session recordings, slides, and notes are available at oc.lc/askqc
- After the session, you will be directed to a brief, optional survey



4 October 2020



On the call today



Nathan Putnam Director, Metadata Quality



Charlene Morrison

Database Specialist II



Shanna Griffith

Database Specialist II



Robert Bremer
Senior Consulting
Database Specialist



Becky Dean
Senior Product
Operations Analyst

October 2020



Linked data, and the road to learning it

Charlene MorrisonDatabase Specialist II

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Overview

- Linked data basics
- OCLC and linked data services
- Metadata Quality's Journey
- Your Journey: Sources & Resources



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Li	Linked data terms								
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i	b	е	j	F	r	а	O		
р	j	d	е		t	S	р		
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e	С	С	t		е		r		
s	t	a					t		
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Linked data terms

• Triple: Dreamcatcher was written by Stephen King

Class: Work & AuthorProperty: createdBy

• RDF: standard for exchanging data

• Turtle: an RDF format designed to be easy to read

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Sources:

https://www.w3.org/TR/ld-glossary/&

https://www.w3.org/2001/sw/wiki/Semantic_Web_terminology

https://www.w3.org/TR/Id-glossary

https://en.wikipedia.org/wiki/RDF_Schema#Properties

https://en.wikipedia.org/wiki/Internationalized_Resource_Identifier

Linked data example

Two titles

Optimizing digestive health with timothy hay and bluegrass

The nutritious carrot

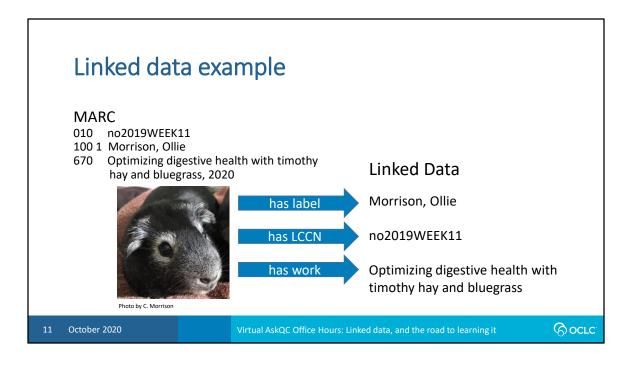
Two authors

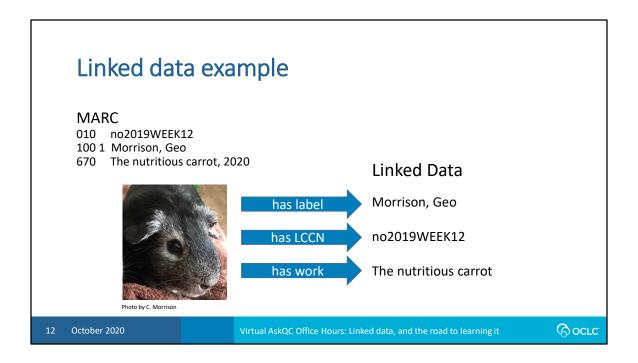


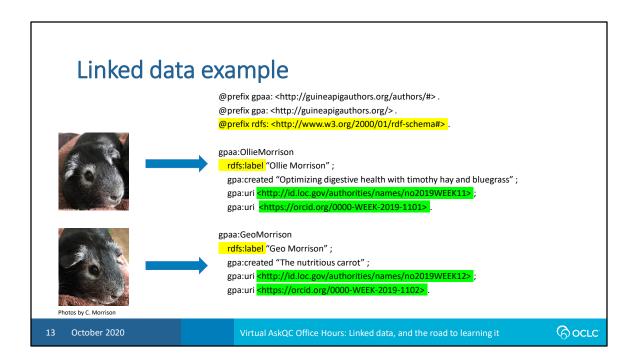
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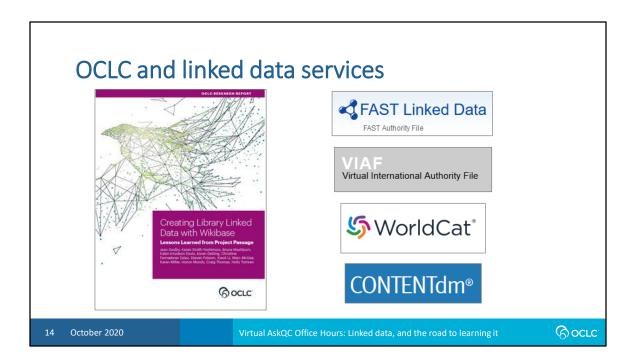
Other Examples of Linked Data in Action:

https://civilwaronthewesternborder.org/

https://www.loc.gov/bibframe/implementation/index.html

https://lod-cloud.net/

https://id.loc.gov/tools/bibframe/



Sources & Further reading:

CONTENTdm - https://www.oclc.org/en/contentdm.html

FAST Linked Data - http://experimental.worldcat.org/fast/

VIAF - http://viaf.org/

WorldCat.org - https://www.worldcat.org/

OCLC Research - oc.lc/linkeddataresearch

OCLC Expert Cataloging Community Sharing Session minutes, January 2020

https://help.oclc.org/WorldCat/Metadata_Quality/Expert_community/OCLC_Expert_Cataloging_Community_Sharing_Sessions/OCLC_Expert_Cataloging_Community_Sharing_Session_minutes_January_2020

OCLC awarded Mellon Foundation grant to develop infrastructure to support linked data management initiatives

https://www.oclc.org/en/news/releases/2020/20200109-oclc-awarded-mellon-grant-linked-data-management-infrastructure.html/

Transitioning to the Next Generation of Metadata

https://www.oclc.org/research/publications/2020/oclcresearch-transitioning-next-

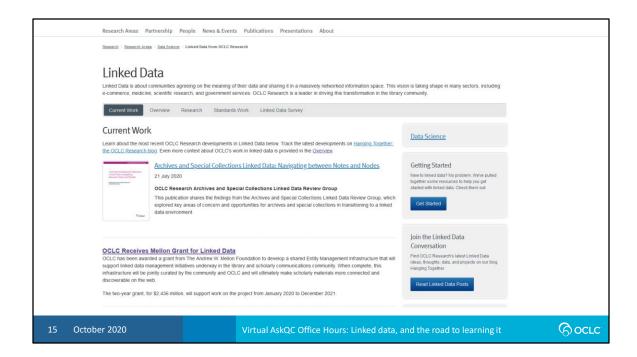
generation-metadata.html

Getting Started with Linked Data presentations: Has beginner, intermediate, and advanced learning opportunities.

https://www.oclc.org/research/areas/data-science/linkeddata/linked-data-getting-started.html

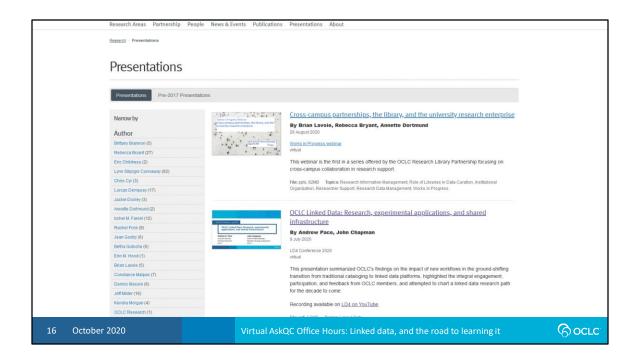
OCLC Research presentations:

https://www.oclc.org/research/presentations.html



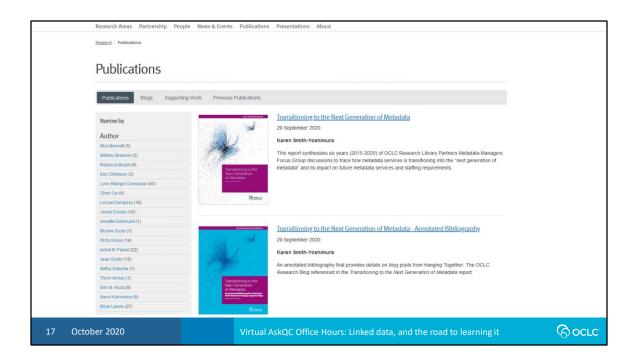
Source:

https://www.oclc.org/research/areas/data-science/linkeddata.html https://hangingtogether.org/?cat=124



Source:

https://www.oclc.org/research/presentations.html



Source:

https://www.oclc.org/research/publications.html

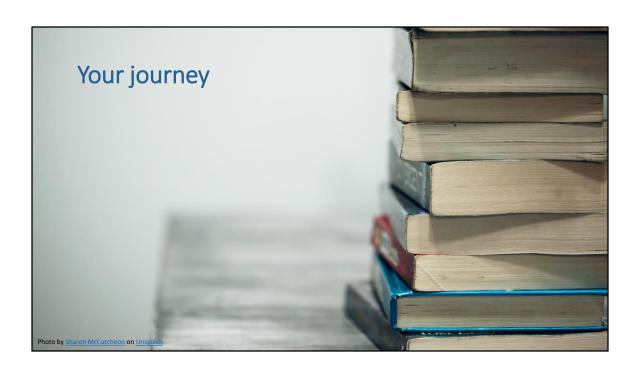
Metadata Quality and linked data

- MARC Advisory Committee
- Committee on Cataloging: Description and Access (CC:DA)
- IFLA Permanent UNIMARC Committee
- Music Library Association Cataloging and Metadata Committee
 - Content Standards
 - Encoding Standards
 - Vocabularies
- PCC Standing Committee on Standards
 - BIBFRAME and MARC Bibliographic Encoding for Languages (BABEL) Task Group
- PCC Standing Committee on Training
 - · SCT RDA 3R Training Task Group
- MARC/RDA Working Group
- LD4-Wikidata Affinity Group

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Your journey

- Courses
 - · Linked Data for Beginners
 - Library Juice
 - Codecademy
- Conferences, Webinars & Presentations
 - 2020 LD4 Conference
 - RDA New Concept Series
 - Linked Data for the Real World: Leveraging Metadata for Cataloging (Georgia Public Library Service)

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Linked Data for Beginners – taught by Steven J. Miller from the University of Wisconsin Milwaukee https://sites.uwm.edu/mll/linked-data-for-beginners/

Library Juice, XML and RDF-Based Systems https://libraryjuiceacademy.com/certificate/xml-and-rdf-based-systems/

Library Juice, The SPARQL Fundamentals https://libraryjuiceacademy.com/shop/course/055-sparql-fundamentals-1/?attribute pa session=2021-01-jan

2020 LD4 Conference https://sites.google.com/stanford.edu/ld42020/

RDA New Concept Series https://www.alastore.ala.org/search/store/producttype/elearning/subject/cataloging-knowledge-and-information-management Linked Data for the Real World: Leveraging Metadata for Cataloging (Georgia Public Library Service) https://vimeo.com/421133664

Your journey

- 2020 LD4 Conference
 - Data Sources Track
 - Discovery Track
 - Infrastructure Track
 - LD for Beginners Track
 - Special Collections Track
 - Wikidata Track, Day 1
 - Wikidata Track, Day 2

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2020 LD4 Conference: https://sites.google.com/stanford.edu/ld42020/

LD for Beginners track

"I don't think I'll ever understand linked data": https://youtu.be/Q0Y2IVoYLFo

Being solo no more: https://youtu.be/NUdtncPcQyk
Diving into Wikidata workshop: https://youtu.be/f756VIWN360

Wikidata Track, Day 1

Welcome: https://youtu.be/GOmHzxXNN3Q
Wikidata Tutorial: https://youtu.be/-pFTxOoiuYI

Advanced Wikidata Tools and Concepts: https://youtu.be/252mXCjFaCQ

Developing a Wikidata Project: https://youtu.be/WkIS8s2IKM0

Wikidata Track, Day 2

Welcome: https://youtu.be/z7MGto1iStk

VanderBot: Using a Python Script...: https://youtu.be/xjQ8rJufeOU

No bricks without clay: https://youtu.be/BDsKvFkdqRU

Adding References to Wikidata: https://youtu.be/ ZEwMrUjGg0

Data Sources track

ISSN; IFLA; ID.LOC.GOV: https://youtu.be/96r2uu0hUPE

Identity management principles: https://youtu.be/6FIJCcnniTI

Discovery track

What does LD discovery really look like?: https://youtu.be/XGmMj1efv-M Special Collections Track

Women Writers, Wikidata for Archives: https://youtu.be/Tluagd55k5k Linked data with SNAC: https://youtu.be/Se5Hr qtovc

Infrastructure Track

Library of Congress BIBFRAME Editor experience:

https://youtu.be/MuS7 KOIPGk

Linked data for libraries with Wikibase: https://youtu.be/FVmxpaB-Th4
OCLC linked data research, Infrastructure track: https://youtu.be/nqQgJ9f3MOc

Your journey

- Europeana
 - Linked Open Data
- LD4 Affinity Groups
- RDA
 - RDA Learning
 - RDA YouTube channel
 - RDA Lab Series (ALA store)
- University of Minnesota Libraries, Linked Data page

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Europeana produced a brief explanation of linked open data.

Linked Open Data: https://vimeo.com/36752317

LD4 Affinity Groups:

LD4-Wikidata Affinity Group:

https://wiki.lyrasis.org/display/LD4P2/LD4-

Wikidata+Affinity+Group

Bi-weekly meetings on Wikidata related topics Wikidata Working Hours

Ethics in Linked Data Affinity Group:

https://wiki.lyrasis.org/display/LD4P2/Ethics+in+Linked+ Data+Affinity+Group

Non-Latin Script Materials Affinity Group:

https://wiki.lyrasis.org/display/LD4P2/Non-

Latin+Script+Materials+Affinity+Group

LD4 Profiles Affinity Group:

https://wiki.lyrasis.org/display/LD4P2/LD4+Profiles+Affinity+Group

RDA

RDA Learning: https://www.rdatoolkit.org/learning

RDA YouTube: https://www.youtube.com/c/RDAToolkitVideo

RDA Lab Series: https://www.alastore.ala.org/content/rda-lab-series

University of Minnesota Libraries, Linked Data:

https://www.minitex.umn.edu/services/cataloging-metadata/cataloging-metadata-

standards/linked-data

Your journey

- Wikimedia
 - A Gentle Introduction to Wikidata for Absolute Beginner
 - Querying Wikidata with SPARQL for Absolute Beginners
- Wiki Education
- W3C
 - · Semantic Web Tutorials
 - Semantic Web Data
 - Semantic Web Ontology
 - Linked Data Glossary

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Wikimedia

A Gentle Introduction to Wikidata for Absolute Beginners:

https://youtu.be/eVrAx3AmUvA

Querying Wikidata with SPARQL for Absolute Beginners:

https://www.youtube.com/watch?v=kJph4q0Im98

Wiki Education: https://wikiedu.org/professional-development/

W3C:

Semantic Web Tutorials:

https://www.w3.org/2002/03/tutorials

Semantic Web Data Semantic Web Ontology

W3C Linked Data Glossary:

https://www.w3.org/TR/ld-glossary/

Questions?



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Database Specialist II



Shanna Griffith

Database Specialist II



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Database Specialist



Becky Dean
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Thank you!

November Virtual AskQC Office Hours OMG, there are so many 5xx fields, what do I do?

Thursday, 5 Nov. at 9:00 AM Eastern Thursday, 12 Nov. at 4:00 PM Eastern

Registration and session links available at oc.lc/askqc

Send cataloging policy questions at any time to askqc@oclc.org



25 October 2020

