Virtual AskQC Office Hours

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

- This session is being recorded
Housekeeping

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- All session recordings, slides, and notes are available at oc.lc/askqc
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
On the call today

Nathan Putnam
Director, Metadata Quality

Charlene Morrison
Database Specialist II

Robert Bremer
Senior Consulting Database Specialist

Shanna Griffith
Database Specialist II

Becky Dean
Senior Product Operations Analyst

Virtual AskQC Office Hours: Linked data, and the road to learning it

5 October 2020
Linked data, and the road to learning it

Charlene Morrison
Database Specialist II
Overview

• Linked data basics
• OCLC and linked data services
• Metadata Quality’s Journey
• Your Journey: Sources & Resources
Linked data terms

T S P e O R T C P
r u r b D u l r
i b e j F r a o
p j d e t s p
l e i c l s e
e c c t e r
s t a t y
Linked data terms

- **Triple**: Dreamcatcher was written by Stephen King
- **Class**: Work & Author
- **Property**: createdBy
- **RDF**: standard for exchanging data
- **Turtle**: an RDF format designed to be easy to read

Sources:
https://www.w3.org/TR/ld-glossary/ &
https://www.w3.org/2001/sw/wiki/Semantic_Web_terminology
https://www.w3.org/TR/ld-glossary
Linked data example

Two titles
Optimizing digestive health with timothy hay and bluegrass

The nutritious carrot

Two authors
Linked Data

MARC
010 no2019WEEK11
100 1 Morrison, Ollie
670 Optimizing digestive health with timothy hay and bluegrass, 2020

Linked Data

has label
Morrison, Ollie

has LCCN
no2019WEEK11

has work
Optimizing digestive health with timothy hay and bluegrass
Linked data example

MARC
010  no2019WEEK12
100 1  Morrison, Geo
670  The nutritious carrot, 2020

Photo by C. Morrison

Linked Data

has label
Morrison, Geo

has LCCN
no2019WEEK12

has work
The nutritious carrot
Linked data example

@prefix gpaa: <http://guineapigauthors.org/authors/#> .
@prefix gpa: <http://guineapigauthors.org/> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .

gpaa:OllieMorrison
  rdfs:label "Ollie Morrison" ;
  gpa:created "Optimizing digestive health with timothy hay and bluegrass" ;
  gpa:uri <http://id.loc.gov/authorities/names/no2019WEEK11> ;
  gpa:uri <https://orcid.org/0000-WEEK-2019-1101> .

gpaa:GeoMorrison
  rdfs:label "Geo Morrison" ;
  gpa:created "The nutritious carrot" ;
  gpa:uri <http://id.loc.gov/authorities/names/no2019WEEK12> ;
  gpa:uri <https://orcid.org/0000-WEEK-2019-1102> .

Photos by C. Morrison

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/
OCLC and linked data services

Sources & Further reading:
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

Transitioning to the Next Generation of Metadata
https://www.oclc.org/research/publications/2020/oclcresearch-transitioning-next-
Getting Started with Linked Data presentations: Has beginner, intermediate, and advanced learning opportunities. 

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
### Cross campus partnerships, the library, and the university research enterprise

**By Brian Lavine, Rebecca Bryant, Annette Dormand**  
18 August 2020  
Virtual AskQC Office Hours: Linked data, and the road to learning it

This webinar is the first in a series offered by the OCLC Research Library Partnership focusing on cross-campus collaboration in research support.

File puts: [PDF](https://www.oclc.org/research/presentations.html)  
[Blog](https://www.oclc.org/)  
[About](https://www.oclc.org)  
[Contact](https://www.oclc.org)  

### OCLC Linked Data: Research, experimental applications, and shared infrastructure

**By Andrew Pace, John Chopman**  
9 July 2020  
Virtual AskQC Office Hours: Linked data, and the road to learning it

This presentation summarized OCLC’s findings on the impact of new workflows in this ground-shifting transition from traditional cataloging to linked data platforms. Highlighted the integral engagement, participation, and feedback from OCLC members, and attempted to chart a linked data research path for the decade to come.

Recording available on [Link on YouTube](https://www.oclc.org/)  
[OCM](https://www.oclc.org)  
[About](https://www.oclc.org)  
[Contact](https://www.oclc.org)

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**Source:**  
[https://www.oclc.org/research/presentations.html](https://www.oclc.org/research/presentations.html)
Virtual AskQC Office Hours: Linked data, and the road to learning it

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
Your journey

Photo by Sharon McCutcheon on Unsplash
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)

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

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
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

2020 LD4 Conference: [https://sites.google.com/stanford.edu/ld42020/](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](https://youtu.be/Q0Y2IVoYLFo)
  Being solo no more: [https://youtu.be/NUdtncPcQyk](https://youtu.be/NUdtncPcQyk)
Diving into Wikidata workshop: [https://youtu.be/f756VIWN360](https://youtu.be/f756VIWN360)
Wikidata Track, Day 1
  Welcome: [https://youtu.be/GOmHxzXNN3Q](https://youtu.be/GOmHxzXNN3Q)
  Wikidata Tutorial: [https://youtu.be/-pFTxOoiuYl](https://youtu.be/-pFTxOoiuYl)
  Advanced Wikidata Tools and Concepts: [https://youtu.be/252mXCjFaCQ](https://youtu.be/252mXCjFaCQ)
  Developing a Wikidata Project: [https://youtu.be/WkIS8s2IKM0](https://youtu.be/WkIS8s2IKM0)
Wikidata Track, Day 2
  Welcome: [https://youtu.be/z7MGto1iStk](https://youtu.be/z7MGto1iStk)
  No bricks without clay: [https://youtu.be/BDsKvFkdqRU](https://youtu.be/BDsKvFkdqRU)
  Adding References to Wikidata: [https://youtu.be/_ZEwMrUjGg0](https://youtu.be/_ZEwMrUjGg0)
Data Sources track
  ISSN; IFLA; ID.LOC.GOV: [https://youtu.be/96r2uu0hUPE](https://youtu.be/96r2uu0hUPE)
  Identity management principles: [https://youtu.be/6FIJCnniTi](https://youtu.be/6FIJCnniTi)
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

Europeana produced a brief explanation of linked open data.
Linked Open Data: [https://vimeo.com/36752317](https://vimeo.com/36752317)

**LD4 Affinity Groups:**

**LD4-Wikidata Affinity Group:**
[https://wiki.lyrasis.org/display/LD4P2/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](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-](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=kJph4q0lm98

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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24 October 2020  Virtual AskQC Office Hours: Linked data, and the road to learning it
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](http://oc.lc/askqc)

Send cataloging policy questions at any time to [askqc@oclc.org](mailto:askqc@oclc.org)

Photo by Eric Rothermel on Unsplash