The Linked Library Data Cloud

Stop Talking and Start Doing

Ross Singer
Tim Berners-Lee's Four Rules of Linked Data

1. Use URIs as names for things
2. Use HTTP URIs so that people can look up those names.
3. When someone looks up a URI, provide useful information, using the standards (RDF, SPARQL)
4. Include links to other URIs. so that they can discover more things.

Thing

Title

"A Shropshire Lad"
http://purl.org/dc/terms/title

"A Shropshire Lad"

http://purl.org/NET/llcn/94188266#i
http://purl.org/dc/terms/title

"A Shropshire Lad"

http://viaf.org/viaf/49249069.rwo

http://purl.org/NET/llcn/94188266#i

http://purl.org/dc/terms/creator
Linked Library Cloud: Code4lib 2009
Semantic Web

URI: <http://id.loc.gov/authorities/sh2002000569#concept>

Type: Topical Term

Broader Terms:
- Semantic integration (Computer systems)
- Semantic networks (Information theory)
- World Wide Web

Related Terms:
- Microformats

Sources:
- Engr. index online, May 6, 2002 (identifier: Semantic Web)
- ASTI on FirstSearch, May 6, 2002: in titles (semantic Web)

LC Classification: TK5105.88815

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Alternate Formats: RDF/XML, N-Triples, JSON

http://id.loc.gov/authorities/sh2002000569
Why it matters

- URIs (identifiers) for every subject authority
  - http://lcsubjects.org/subjects/sh85006071#concept
- Label lookup
- "Austrian Succession, War of, 1740-1748--Campaigns--Italy"
  - http://id.loc.gov/authorities/label/Austrian%20Succession,%20War%20of,%201740-1748--Campaigns--Italy
http://viaf.org/viaf/79454736
http://viaf.org/viaf/79454736.rdf
VIAF

- SRU Service for search
- VIAF schema result
**Main Title:** Calligraphic ceramics from eastern Iran: early Islamic pottery from the Collection of Ulfert Wilke: [exhibition] the University of Iowa Museum of Art, Iowa City, November 7 through December 15, 1974 / [Wendy Waldron].

**Published/Created:** [Iowa City]: The Museum, [1974?]

**Related Names:** Wilke, Ulfert, 1907- » More like this
Waldron, Wendy. » More like this

**Description:** 32 p.: ill.: 28 cm.

**Subjects:** Pottery, Iranian--Exhibitions. » More like this
Islamic pottery--Iran--Exhibitions. » More like this
Paleography, Arabic (Cufic) in art. » More like this
Wilke, Ulfert, 1907--Art collections. » More like this

**LC Classification:** NK4147 .I58 1974

**Dewey Class No.:** 738.3/7

**Geographic Area Code:** a-ir---
MARC STANDARDS
Library of Congress - Network Development and MARC Standards Office

The MARC formats are standards for the representation and communication of bibliographic and related information in machine-readable form.

New! RDA in MARC -- Summary of Additions
[MARC en ESPAÑOL]

Understanding MARC Bibliographic -- a brief description and tutorial
Understanding MARC Authority -- a brief description and tutorial

General Information
- Introductory MARC Information
- News & Announcements
- MARC FAQ
- MARC Forum (listserv)
- Unicode-MARC Forum
- Recommended Reading

MARC Formats
- Formats and Code Lists
- Format Overview
- Ordering Information
- National Level Requirements
- MARC Mappings
- MARC User Notes

MARC Code Lists
- Country
- GACs
- Languages
- Organizations
  - Relators
  - Sources

MARC Development
- Overview
- MARC Proposals
- MARC Discussion Papers
- MARC Change Form

MARC Records, Systems and Tools
- MARC Record Services
- MARC Systems
- MARC Specialized Tools

http://www.loc.gov/marc/
Iran

Also available as RDF
LCCN

- LCCNs available in many (US/OCLC) MARC records
- Linking directly to MARCXML
- Made a github project: [LinkedLCCN](https://github.com/LinkedLCCN)
- Partial redirect in purl.org
- Hosted at heroku.com
- Uses info:lccn URI syntax to make HTTP URIs
Blonde on Blonde

http://lccn.heroku.com/93710188#i
How to get yourself onto the cloud

- Only need as much RDF to get you to something with more data
- 010$a 99027665 can easily be made: http://purl.org/NET/lccn/99027665#i
For example

http://dilettantes.code4lib.org/vufind/
An even simpler approach

http://mirlyn.lib.umich.edu/Record/004579747
TODOs

- Agreement on data models
  - "FRBR" (or something like it)
  - "About"-ness vs. "Is"-ness
- More Linked Data available from very common identifiers
- More linkages to resources outside the library domain
  - How to get them?
  - UI issues
  - Education issues
- Sustainability/Preservation
Thank you

Any questions?

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