

When I grow up, I want to be a Linked Data Librarian

What should you learn first

**Marta Michas¹, Mariana Paredes-Olea²,
Danoosh Davoodi², Sharon Farnel²**

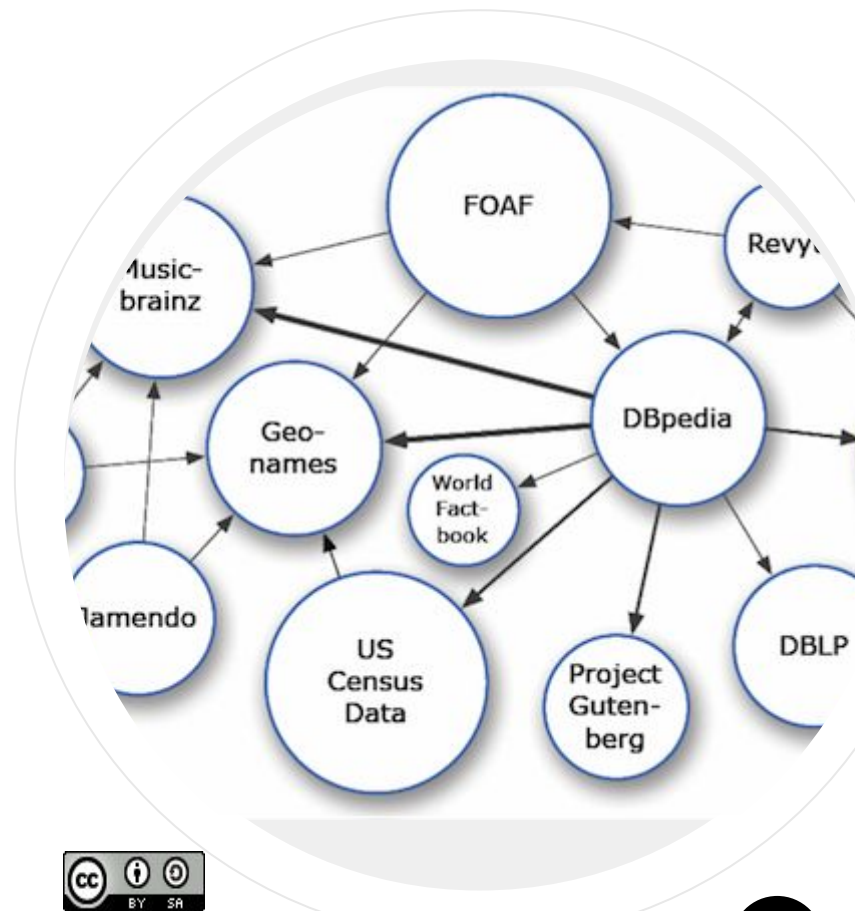
¹MacEwan University Library

²University of Alberta Libraries



Photographs by Unsplash
Presentation template by SlidesCarnival

- In contrast to “traditional” metadata, Linked Data refers to data published on the open Web in such a way that it is machine-readable;
- The data’s meaning is explicitly defined;
- It is linked to other external data sets to aid in discovery of library collections



Bizer, C., Heath, T., Berners-Lee, T. (2009), Linked data - the story so far. *International Journal on Semantic Web and Information Systems (IJSWIS)*, 5(3), 1-22. doi: 10.4018/jswis.2009081901



The Linked Open Data Cloud from lod-cloud.net as of 2007

Explore Learning Resources by Competency

Browse by Competency

▼ How does this work?

+ New Comp Index (621)

- + Fundamentals of Resource Description Framework (218)
- + Fundamentals of Linked Data (135)
- + RDF vocabularies and application profiles (181)
- + Creating and transforming Linked Data (82)
- + Interacting with RDF data (368)
- + Creating Linked Data applications (0)

To E:
topic
resou

The t
array
profe

This
proc

IMPC

1
2

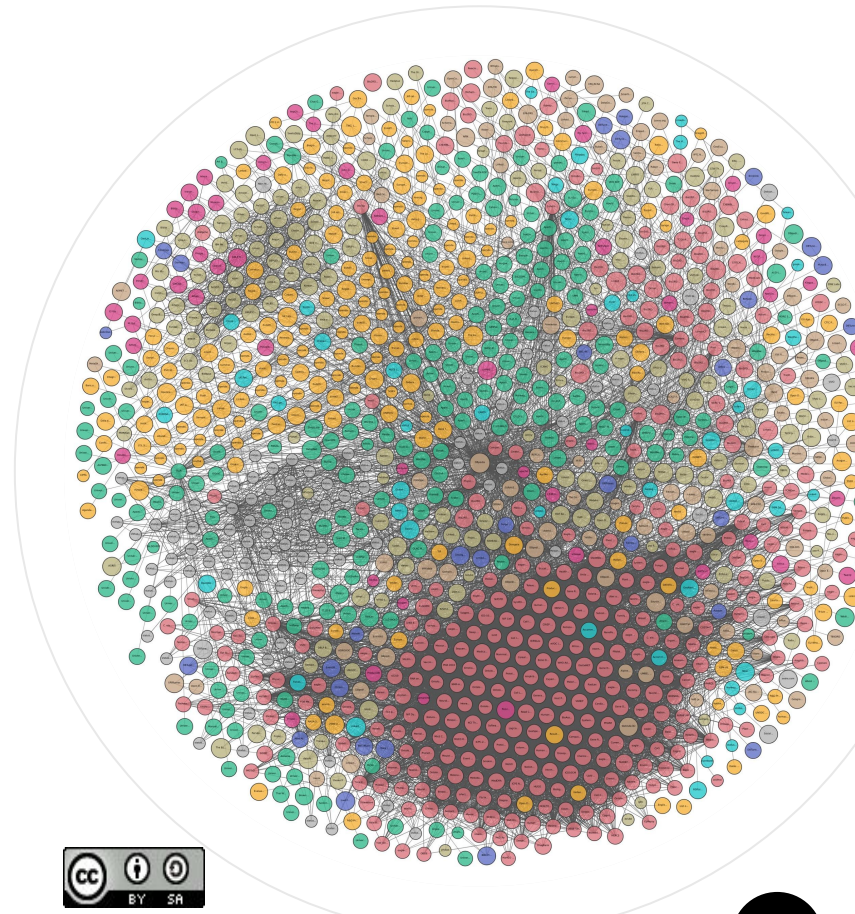
Why are we doing it?

- Linked data is a growing area in libraries
- More positions will be available in libraries for individuals with LD skills and knowledge
- LDCI and other tools provide a wealth of resources but it can be hard to determine what to focus on or where to begin
- Examining what employers are looking for can provide both professionals and educators with a concrete place to start



Goals

- Gather a body of recent job postings mentioning linked data/semantic web competencies or knowledge
- Analyse the nature of these mentions
- Suggest areas to prioritize for LD development



Methods

Sources:

- iSchool Job Board
- Association of Research Libraries (ARL) Position Description Bank
- Listservs: AUTOCAT, Metadataalibrarian, lita-l, oclc-l, oclib4lib, DH-l, oclc-l

Keywords:

- Linked Data
- Linked Open Data
- BIBFRAME
- Semantic Web
- RDF

Timeframe:

○ Jan 2017 - June 2019

83

unique job postings



Photo by João Silas on Unsplash

Methods

Data extraction - Google Forms

- Job title; library type; education (required and preferred)
- Experience level (entry-level vs. experienced)
- Linked data-related skills and level of expertise
- Other (hard) skills and level of expertise

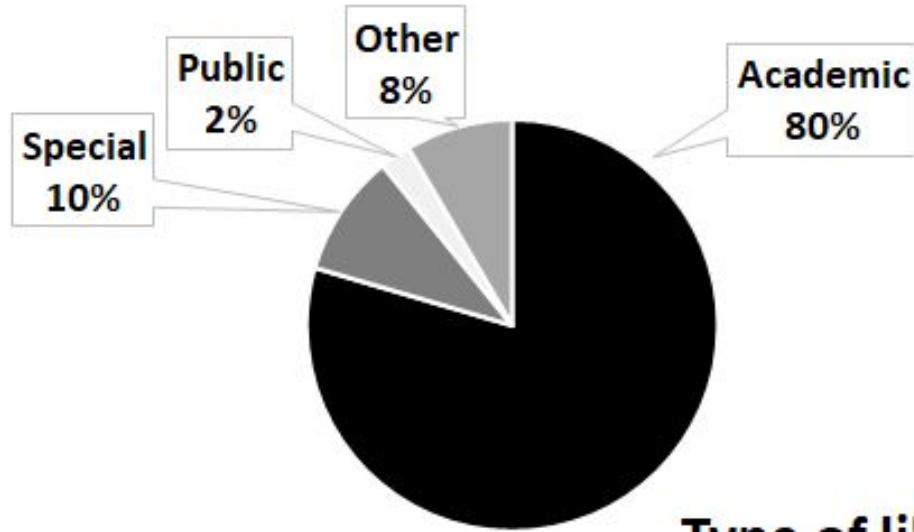




Limitations

- It's not systematic
- Focused on academic libraries
- Focused on Canada and USA

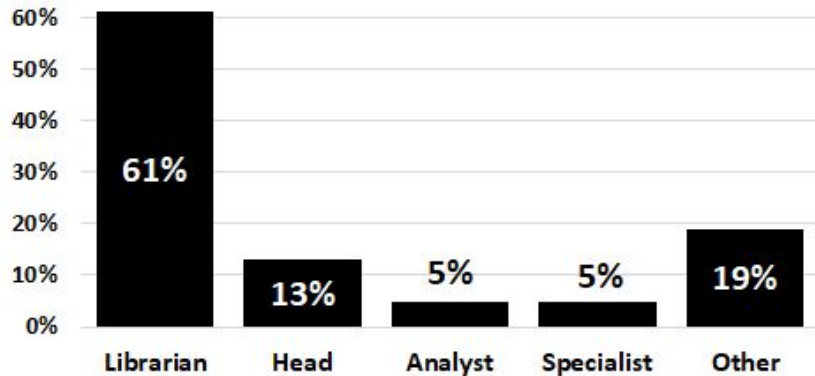
Where is the job?



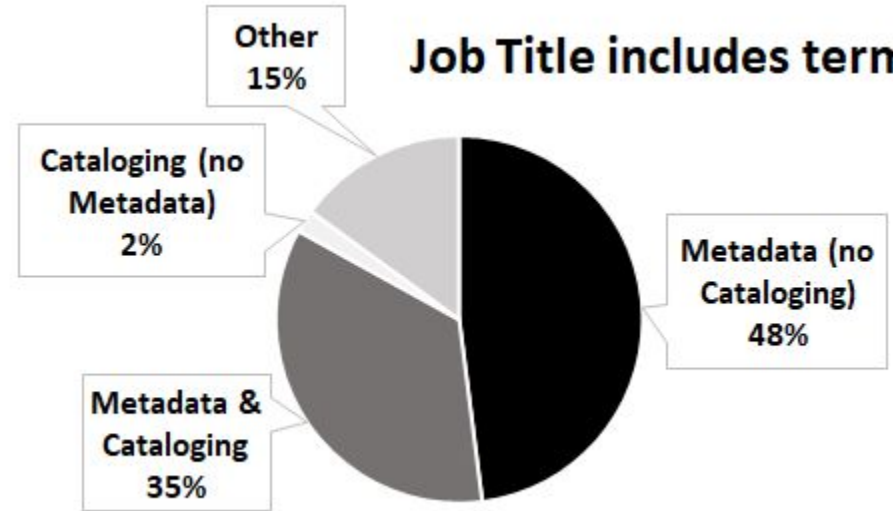
Type of library

What's in the (job) title

Function

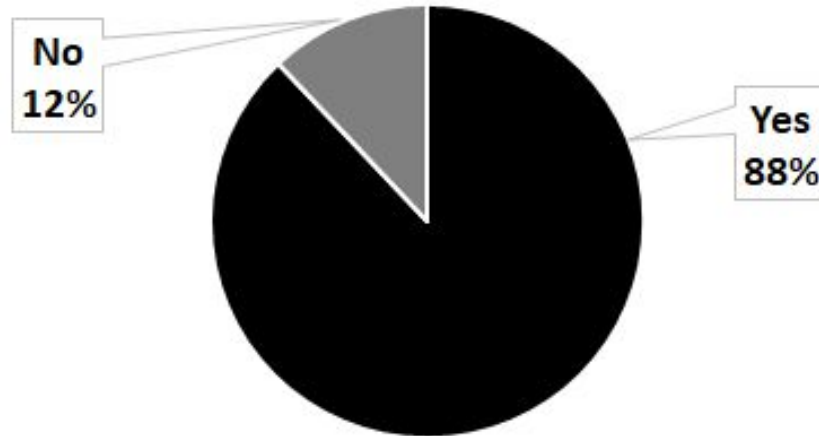


Job Title includes terms

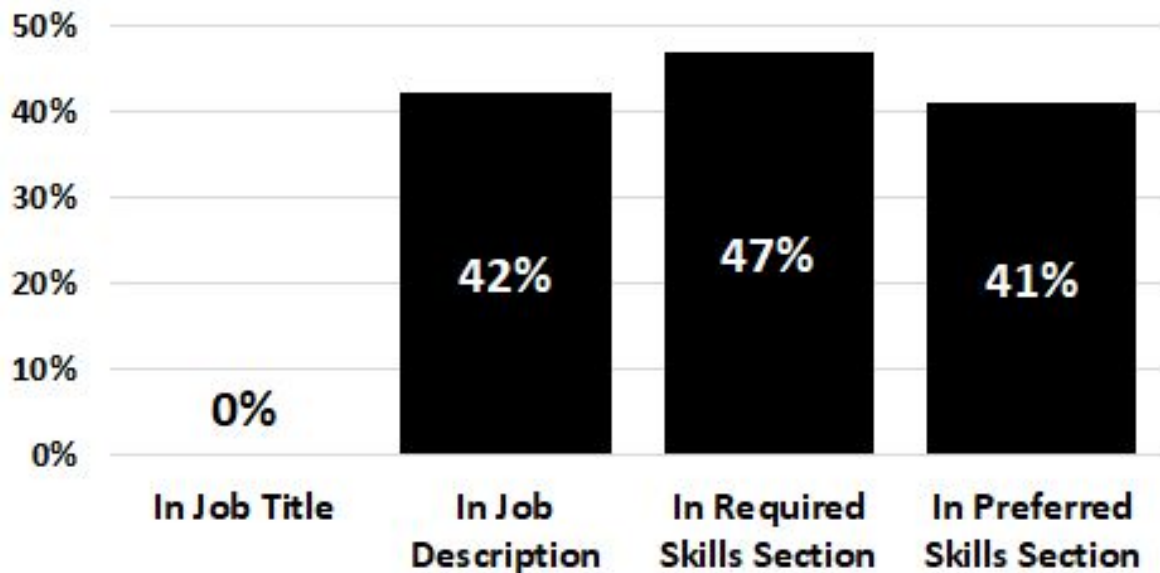


Education and Experience

ALA-accredited or equivalent degree



Where is Linked Data?





What are “they” looking for?

Ontologies
Linked Open Data
RDF
Semantic Web
Linked Data
SPARQL^{OWL}
BIBFRAME
Dublin Core



Who are “they” looking for?

- Experienced Metadata (& Cataloging) Librarian in Academic Library
- ALA-accredited degree
- Familiarity with Linked Data, BIBFRAME, RDF – most desired
- Some knowledge of SPARQL, ontologies (OWL), Semantic Web – less desired

Next Steps

- Seek out additional postings
- Further analyse the data
- Compare against LDCI
- *Suggest topics for LD education and training*





Thank you!

Marta Michas michasm@macewan.ca

Mariana Pareds-Olea paredeso@ualberta.ca

Danoosh Davoodi danoosh@ualberta.ca

Sharon Farnel sharon.farnel@ualberta.ca