Library Data and Its Future on the Web

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University of Missouri—Columbia

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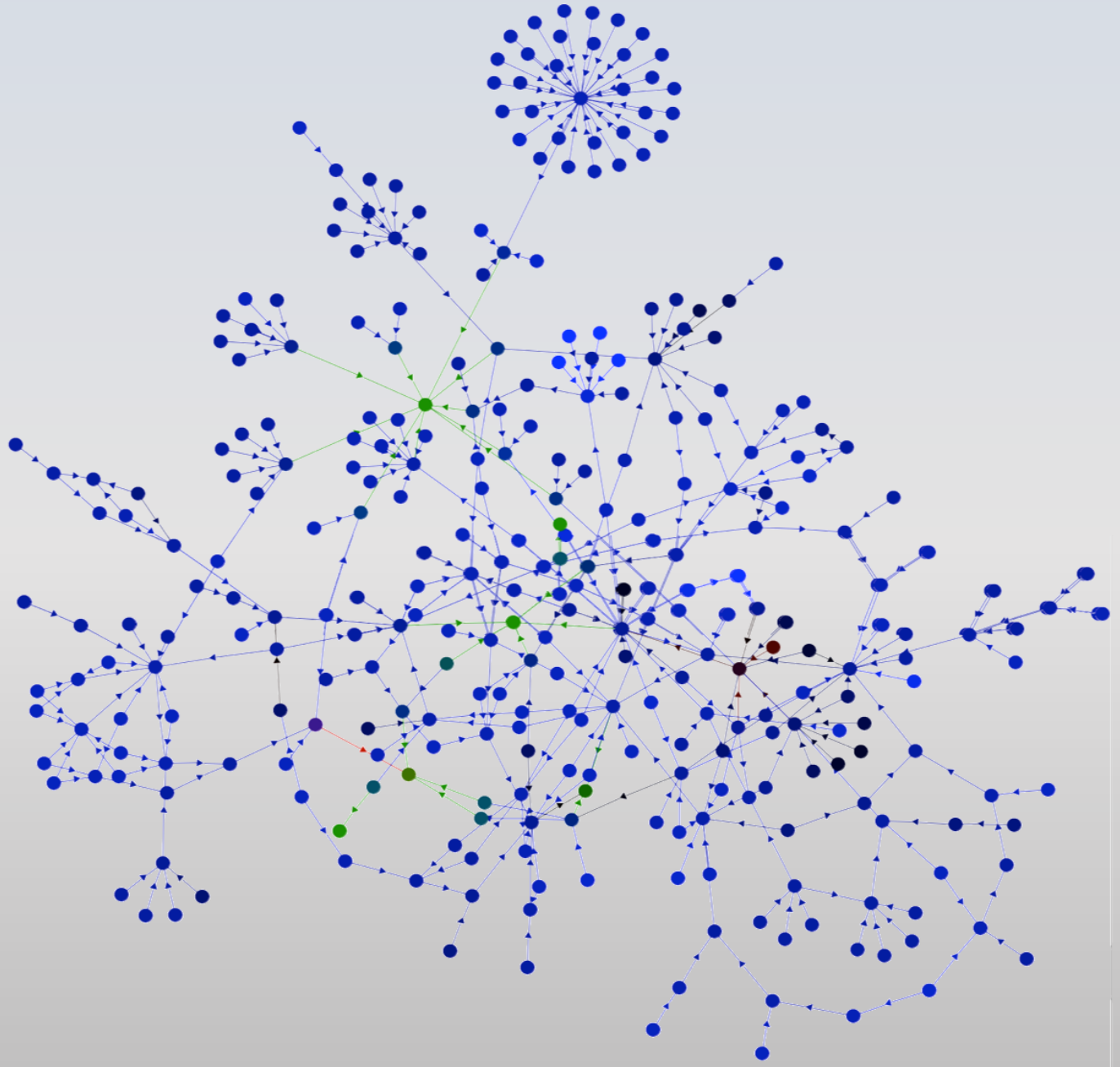
Missouri University of Science & Technology

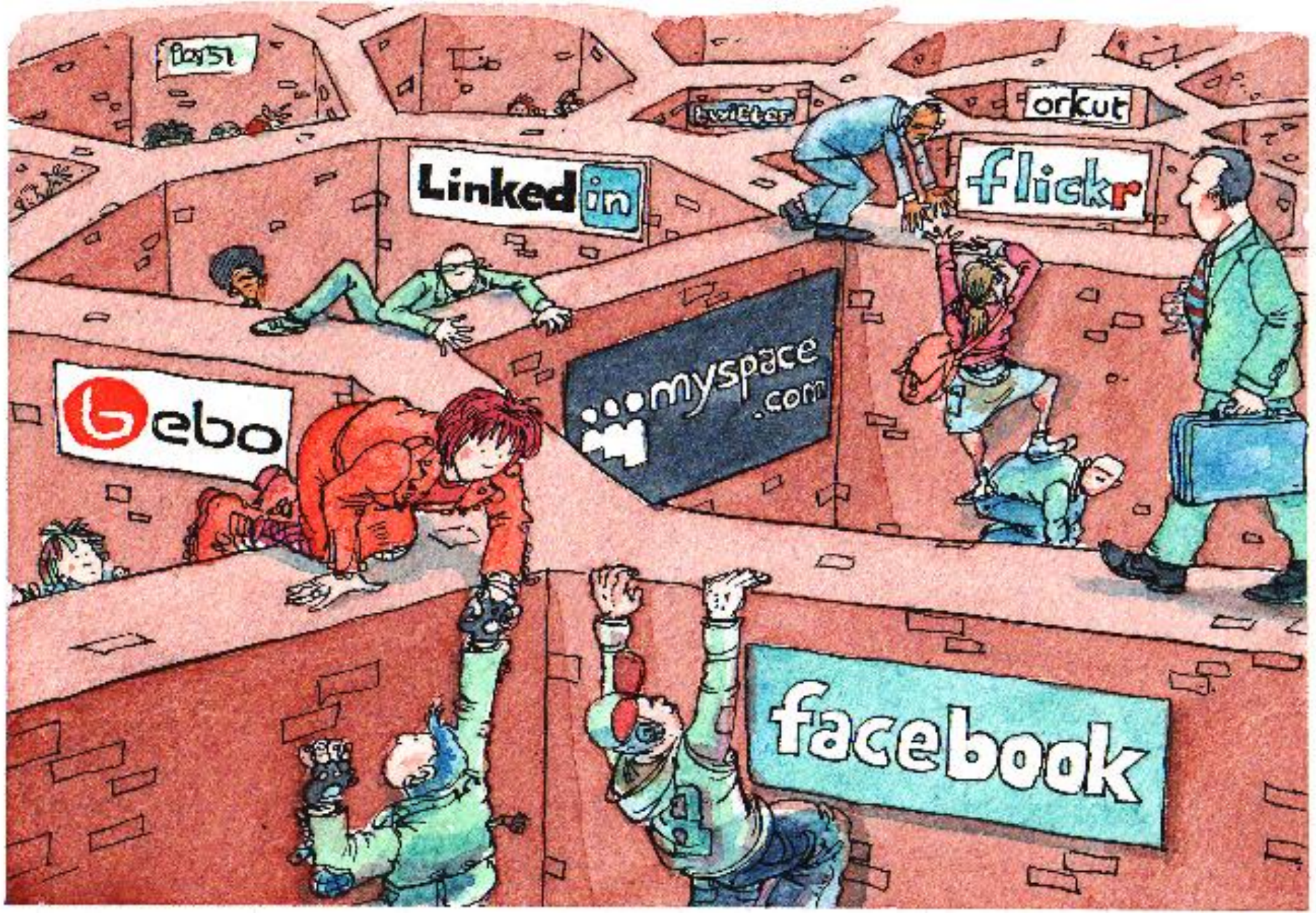


MOBIUS Annual Conference 2015

Outline

- Linked Data and Linked Open Data
- BIBFRAME
- Linked Data in Libraries

http://www.ilovedata.co.uk/


bebo
LinkedIn
myspace.com
orkut
flickr
facebook

Google convert feet to meters

Web Books Shopping News Apps More Search tools

About 16,900,000 results (0.27 seconds)

Length

1 Foot = 0.3048 Meter

Quick Answers

Disambiguation

See results about

Bonobo (Musician)
Born: March 30, 1976 (age 39), Brighton, United Kingdom
Record labels: Ninja Tune, Tru Thoughts

Bonobo (Primate)
Higher classification: Chimpanzee
Scientific name: Pan paniscus

Feedback

Enriched Data

Green Papaya Salad - ... Tum ส้มตำ - ThaiTable.com

www.thaitable.com › Recipes

★★★★★ Rating: 4.8 - 445 votes - 10 mins

Thai recipe for **Green Papaya Salad**. How it's really made in Thailand. Step-by-step photos. All the secrets revealed.

Green Papaya Salad Recipe

norecipes.com/recipe/**green-papaya-salad**-recipe/

★★★★☆ Rating: 4 - 12 reviews - 10 mins

Easy and delicious Som Tam (Thai **green papaya salad**) with green beans, tomatoes, peanuts, and dried shrimp with a tangy pungent chili lime dressing.

Tim Berners-Lee - World Wide Web Consortium

www.w3.org/People/**Berners-Lee**/ ▾ World Wide Web Consortium ▾

Tim Berners-Lee invented the World Wide Web in 1989. He founded and Directs the World Wide Consortium (W3C) the forum for technical development of the ...

Longer Biography - Answers for young people - Frequently Asked Questions - Card

Tim Berners-Lee - Wikipedia, the free encyclopedia

en.wikipedia.org/wiki/**Tim_Berners-Lee** ▾ Wikipedia ▾

Sir Timothy John "**Tim**" **Berners-Lee**, OM, KBE, FRS, FREng, FRSA, DFBCS (born 8 June 1955), also known as TimBL, is an English computer scientist, best ...

Awards and honours ... - DFBCS - Conway Berners-Lee - Mary Lee Woods

In the news

Tech Time Warp of the Week: A 1930s Futurist Envisioned the Web With a 'Televised Book'

Wired - 2 days ago

Tim Berners Lee created the world wide web in 1989. But the idea of hypertext stretches ...

More news for tim berners lee

Tim Berners-Lee | Internet Hall of Fame

internethalloffame.org › Inductees ▾ Internet Hall of Fame ▾

In 1989, **Tim Berners-Lee** invented the World Wide Web, an Internet-based hypermedia initiative for global information sharing while at CERN, the European ...

Tim Berners-Lee | Speaker | TED.com

https://www.ted.com/speakers/**tim_berners_lee** ▾ TED ▾

Tim Berners-Lee

Computer Scientist

Sir Timothy John "Tim" Berners-Lee, OM, KBE, FRS, FREng, FRSA, DFBCS, also known as TimBL, is an English computer scientist, best known as the inventor of the World Wide Web. Wikipedia

Born: June 8, 1955 (age 59), London, United Kingdom

Spouse: Rosemary Leith (m. 2014)

Organizations founded: World Wide Web Consortium, World Wide Web Foundation

Books: Weaving the Web: The Original Design and Ultimate Destiny of the World Wide Web by its Inventor

Parents: Mary Lee Woods, Conway Berners-Lee

Awards: Marconi Prize, MacArthur Fellowship, Charles Stark Draper Prize, Mountbatten Medal, President's Medal

Profiles

Linked Open Data: What Is It?

Don’t forget the bots

LINKED DATA

★ On the web, open license

★★ Machine-readable data

★★★ Non-proprietary format

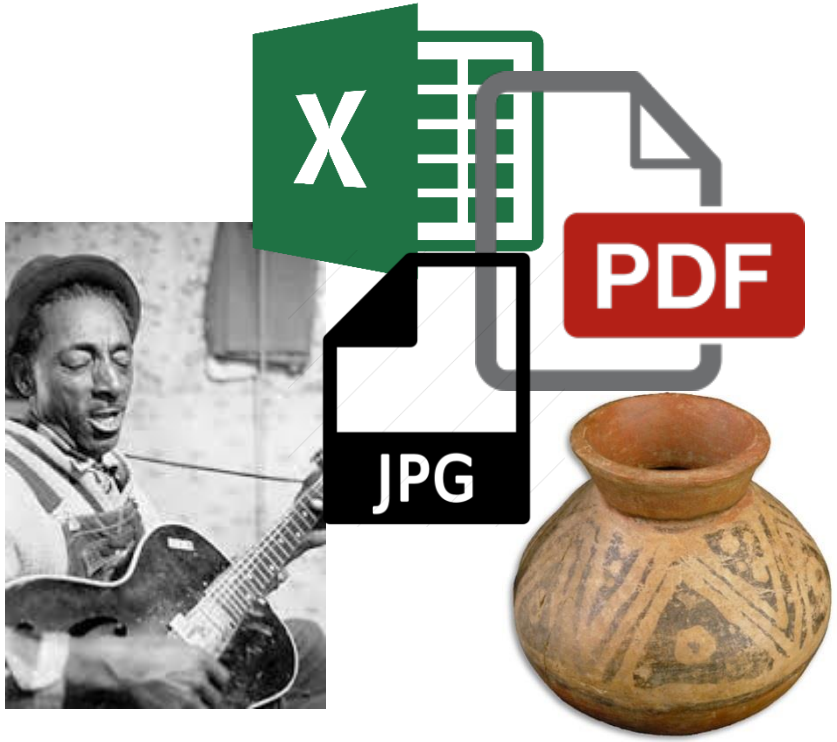
★★★★ RDF standards

★★★★★ Linked RDF

IS YOUR DATA 5★?

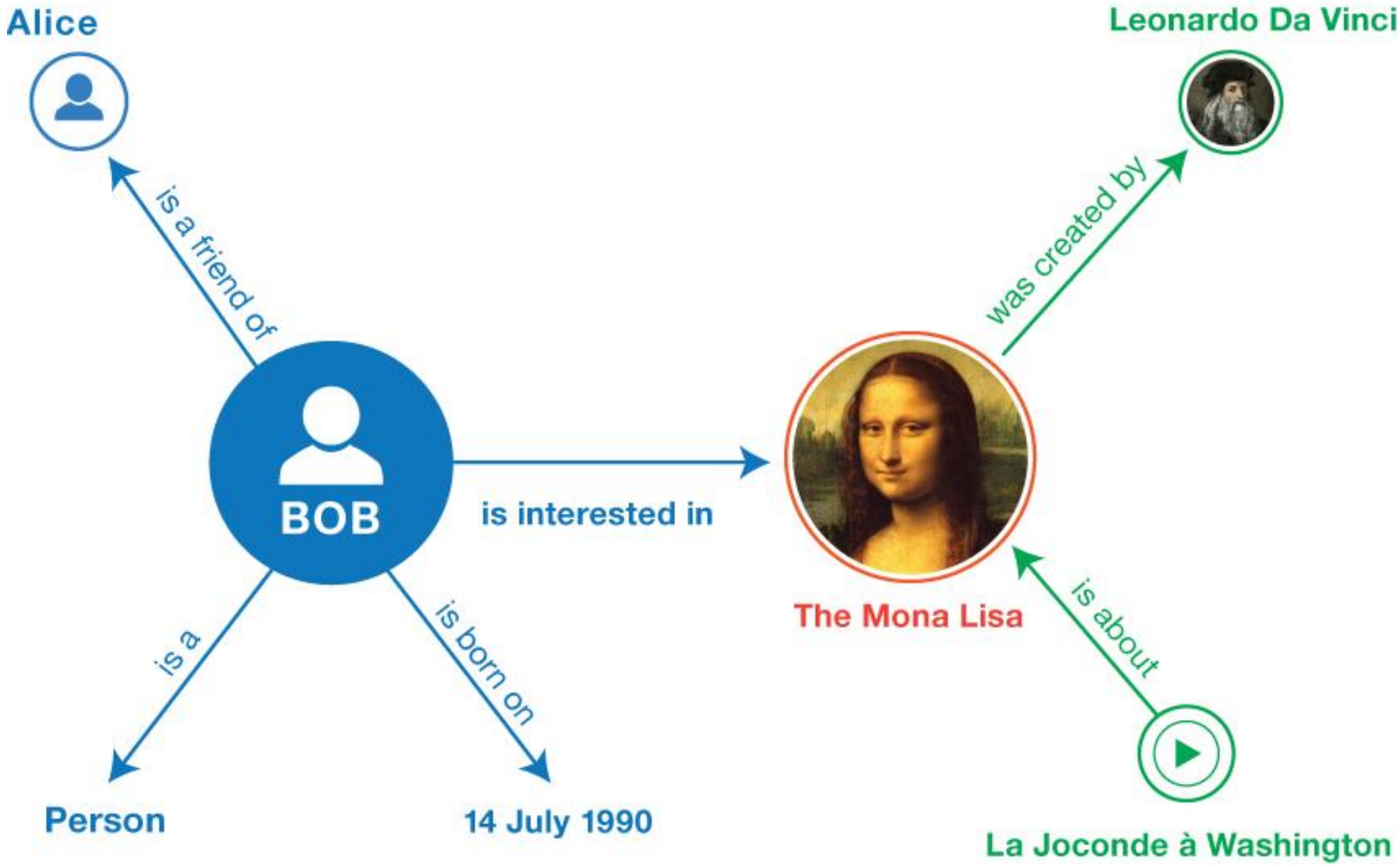
= Resource Description Framework

Standard model for publishing and linking data on the web



Designed for:

RDF Triples

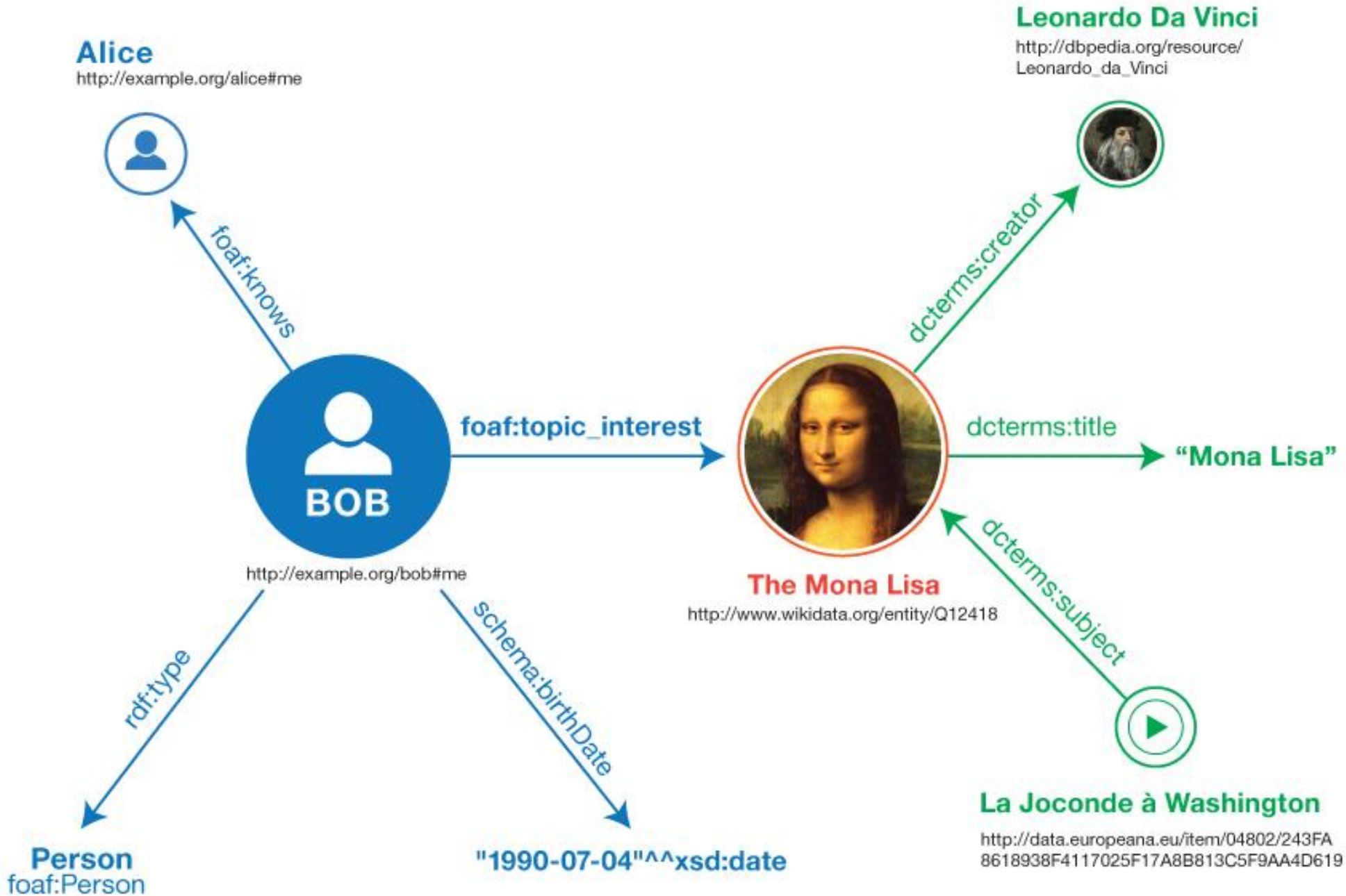


http://www.w3.org/TR/2014/NOTE-rdf11-primer-20140225/

Principles of Linked Data

1. Use URIs to name (identify) things.
2. Use HTTP URIs so that these things can be referred to and looked up (“dereferenced”) by people and systems.
3. Provide useful information when a URI is dereferenced, using open standards such as RDF.
4. Include links to other related things, using their URIs, when publishing data to the Web.

http://www.w3.org/DesignIssues/LinkedData.html



http://www.w3.org/TR/2014/NOTE-rdf11-primer-20140225/

RDF is a model ≠ notation

Common Serializations:

N-triples

Terse RDF Triple Language

RDF/XML

JSON-LD

RDFa

http://rdf-translator.appspot.com/

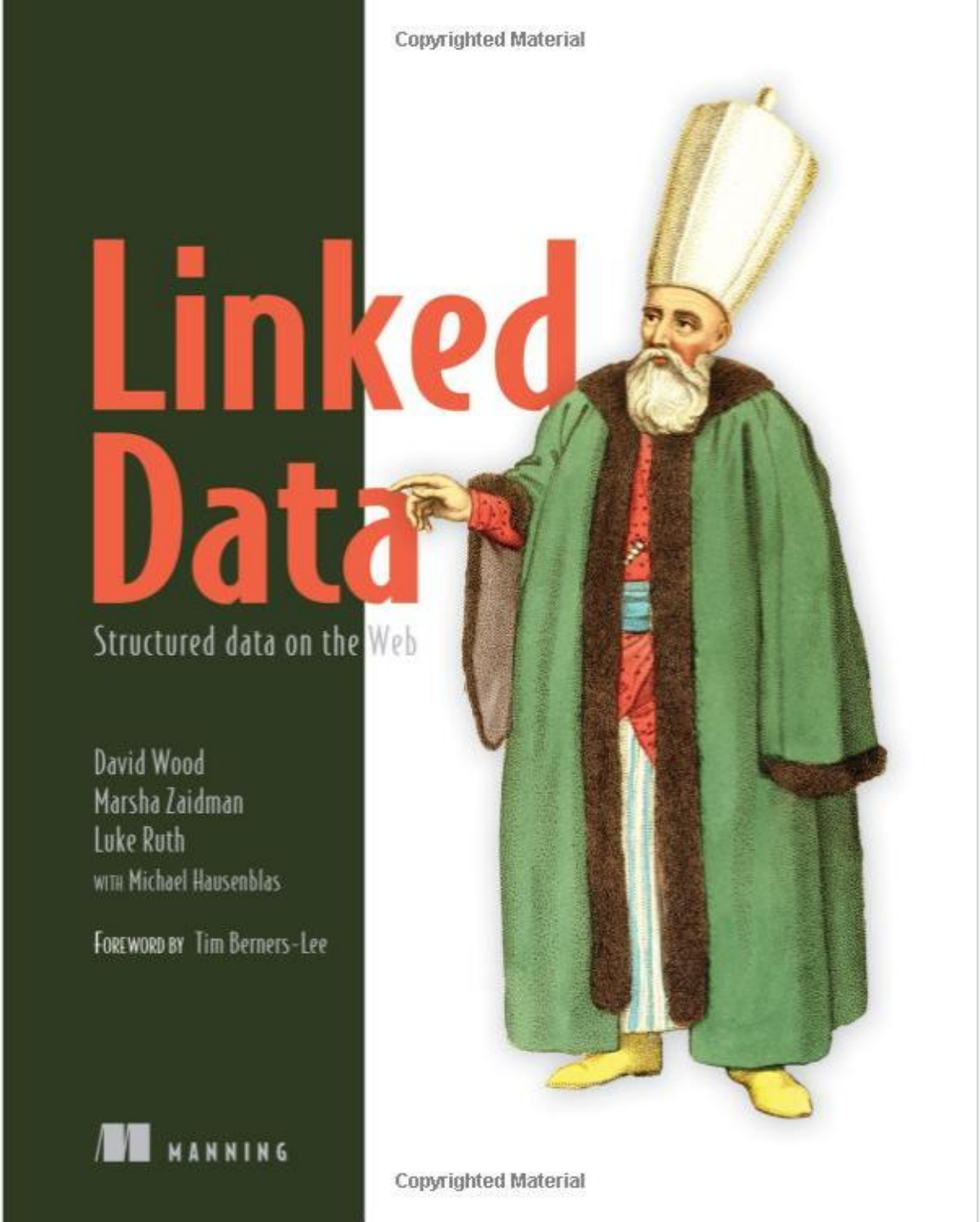
N-triples

```
<http://www.wikidata.org/entity/Q12418>
<http://purl.org/dc/terms/creator>
<http://dbpedia.org/resource/Leonardo_da_Vinci> .
```

Turtle

```
@prefix dc: <http://purl.org/dc/terms/> .

<http://www.wikidata.org/entity/Q12418> dc:creator
<http://dbpedia.org/resource/Leonardo_da_Vinci> .
```



Linked Data: Issues

Data quality

Service failures – Caching

Inefficiency of distributed queries

Schema term definitions

Wood, D., Zaidman, M., Ruth, L., & Hausenblas, M. (2014). *Linked data: Structured data on the Web*.

Linked Data Tools

Google refine VIAFMatching-Aug2013 Permalink

Facet / Filter | Undo / Redo 127

Refresh | Reset All | Remove All

ConcatName: judgment change invert reset

4 choices Sort by: **name** count

(unreconciled) 5

matched 2074 exclude

new 3

none 3416

Facet by choice counts

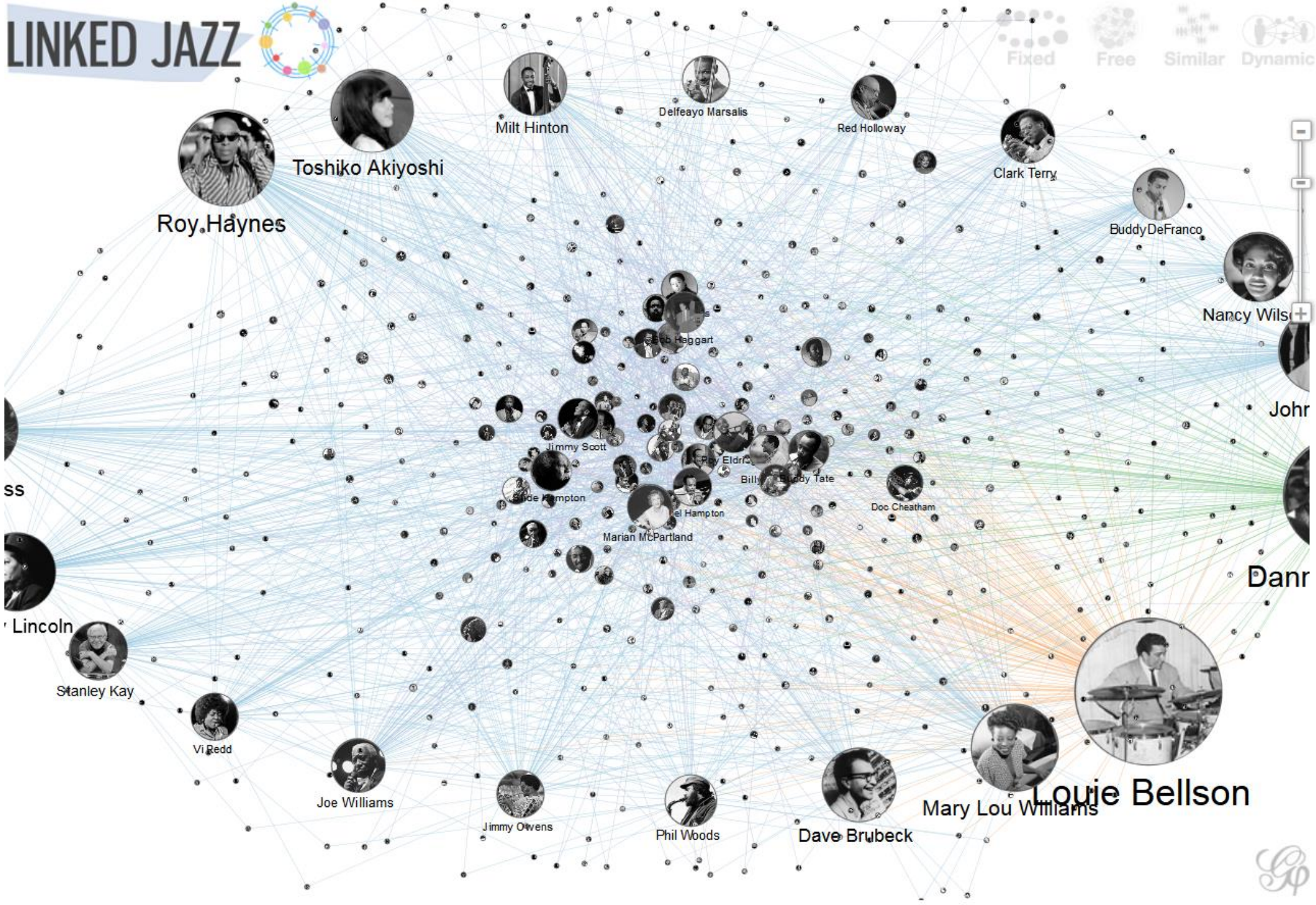
2057 matching records (5076 total)

Extensi

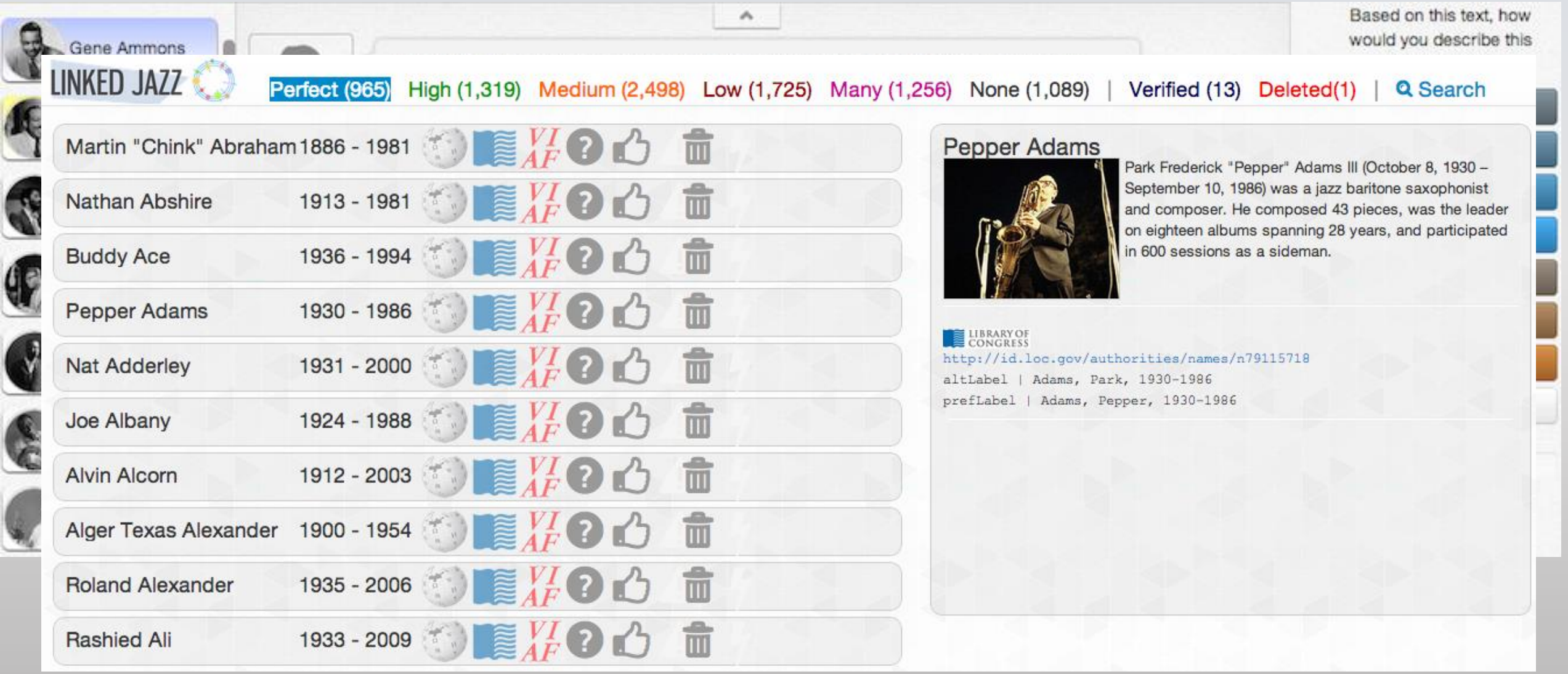
Show as: rows **records** Show: 5 10 25 **50** records

All		?FamilyName	?GivenName	?Dates	ConcatName	?Label
343.		Bell	Quentin Claudian Stephen	1910-1996	Bell, Quentin, 1910-1996 Choose new match	Bell, Quentin Claudian Stephen, 1910-1996, Author Art Critic
					Bell, Sir, Charles, 1774-1842, Knight, surgeon Create new topic	Bell, Sir, Charles, 1774-1842, Knight, surgeon
349.		Bell	William Blair-	1871-1936	Blair-bell, William Choose new match	Bell, William Blair-, 1871-1936, British gynaecologist and obstetrician
					Bellairs, Carlyon, 1871-1955, RN Commander, politician Create new topic	Bellairs, Carlyon, 1871-1955, RN Commander, politician edit

http://blog.archiveshub.ac.uk/2013/08/16/hub-viaf-namematching/


LINKED JAZZ
Fixed
Free
Similar
Dynamic
Milt Hinton
Delfeayo Marsalis
Red Holloway
Clark Terry
Toshiko Akiyoshi
Roy Haynes
Buddy DeFranco
Nancy Wilson
Johr
Danr
Jimmy Scott
Doc Cheatham
Marian McPartland
Lincoln
Stanley Kay
Vi Redd
Joe Williams
Jimmy Owens
Phil Woods
Dave Brubeck
Mary Lou Williams
Louie Bellson

Linked Jazz – Developing Tools



Be Bold

Is there a place for libraries in a linked data environment?

bf:
BIBFRAME

Bibliographic Framework Initiative

- Initiated by the Library of Congress
- Development of a bibliographic framework, called BIBFRAME
  - provide a foundation for the future of bibliographic description, both on the web, and in the broader networked world.
  - replacement for MARC
  - serve as a general model for expressing and connecting bibliographic data
  - A major focus of the initiative will be to determine a transition path for the MARC 21 formats while preserving a robust data exchange that has supported resource sharing and cataloging cost savings in recent decades.

http://www.loc.gov/bibframe/

www.loc.gov/bibframe/

LIBRARY OF CONGRESS

ASK A LIBRARIAN | DIGITAL COLLECTIONS | LIBRARY CATALOGS

Search | Search Loc.gov | GO

BIBFRAME

bf: BIBFRAME

- Home
- Frequently asked questions
- Webcasts & presentations
- Contact us

Model & Vocabulary

- BIBFRAME model
- BIBFRAME vocabulary
  - Model view
  - Category view
  - List view
- BIBFRAME specifications

Print | Subscribe | Share/Save | Give Feedback

Bibliographic Framework Initiative

Initiated by the Library of Congress, BIBFRAME provides a foundation for the future of bibliographic description, both on the web, and in the broader networked world. This site presents general information about the project, including presentations, FAQs, and links to working documents. In addition to being a replacement for MARC, BIBFRAME serves as a general model for expressing and connecting bibliographic data. A major focus of the initiative will be to determine a transition path for the MARC 21 formats while preserving a robust data exchange that has supported resource sharing and cataloging cost savings in recent decades.

bf: BIBFRAME

General Information

- Frequently asked questions
- Webcasts and presentations
- Contact us
- Document archive

Implementation & Testing

- BIBFRAME testbed

Model & Vocabulary

- BIBFRAME model
- BIBFRAME vocabulary
  - Vocabulary description
  - Terminology & conventions
- BIBFRAME draft specifications
  - BIBFRAME Profiles
  - BIBFRAME Authorities
  - BIBFRAME Relationships
- Analyses

What's New

BIBFRAME Update Forum at ALA

February 1, 10:30-11:30am
McCormick Place West, W196a

BIBFRAME at ALA »

New White Paper Available

Common Ground: Exploring Compatibilities Between the Linked Data Models of the Library of Congress

- **Zepheira is a privately held company** driven by a team of knowledge management and specific domain area experts …
- Zepheira's expert team has led the **development and deployment of the Semantic Web** …
- … has provided much of the vision and technical foundation for the next generation of the Web.
- … deeply experienced in successfully implementing these technologies …

https://zepheira.com/about/

Result of Zepheira's Work

- "Bibliographic Framework as a Web of Data: Linked Data Model and Supporting Services"
  November 21, 2012
- 42 pages
- **New, proposed model called BIBFRAME**
- 18 pages about the model, including illustrations and examples
- 5 pages about linked data
- 9 pages about related library initiatives
- Conclusion
- Glossary

#1. BIBFRAME is not a ready-to-go, off-the shelf standard that you can pick up and start using

Library of Congress FAQ

- “**When should we move to BIBFRAME?**”

- BIBFRAME is far from an environment that you could move to yet. The model and its components are still in discussion and development -- a work in progress. When it is more mature, vendors and suppliers will need time to adjust services to accommodate it. And then we can expect a mixed environment for some time.”

http://www.loc.gov/bibframe/faqs/#q08

“So, Can I Ignore it for now?” No. Stay alert!

Although **the BIBFRAME model is a draft and expected to change**, the Library of Congress wants to share it now with the **community** not only so that it is **informed of progress** being made but also to engender conversation and constructive feedback. The Library is leading this initiative, but it is important that the **library community as a whole work in concert** to create an environment for bibliographic description and data exchange that recognizes and **leverages the resources and scale of a global network of data**.

Bibliographic Framework as a Web of Data, 2012, Introduction

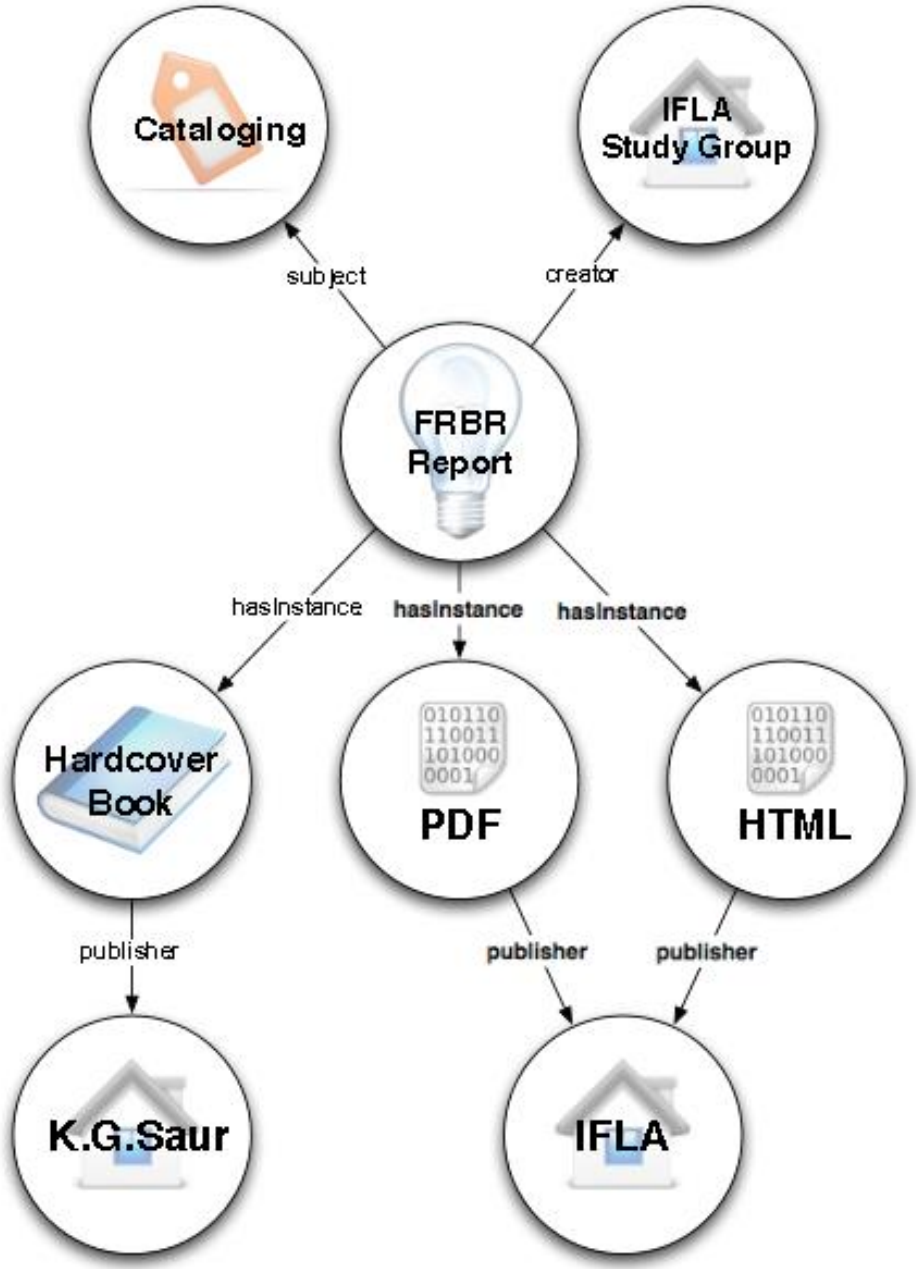
BIBFRAME Includes …

- BIBFRAME model
- BIBFRAME vocabularies
  - Classes
  - Properties
- BIBFRAME profiles

Work (Creative Work)	**Instance**	**Authority**	**Annotation**
Covers FRBR Work and Expression The conceptual essence of a resource Serves as a Web based control point and reference point	FRBR Manifestation and Item An individual, material embodiment of a Work Can be physical or digital	A thing or concept associated with a BIBFRAME Work or Instance Provides access points Includes: Agents (people, organizations, and jurisdictions), Places, Subjects	Used to give more information about a BIBFRAME Work, Instance, or Authority Examples: Library holdings, Reviews, Cover Images, Tables of Contents, Descriptions

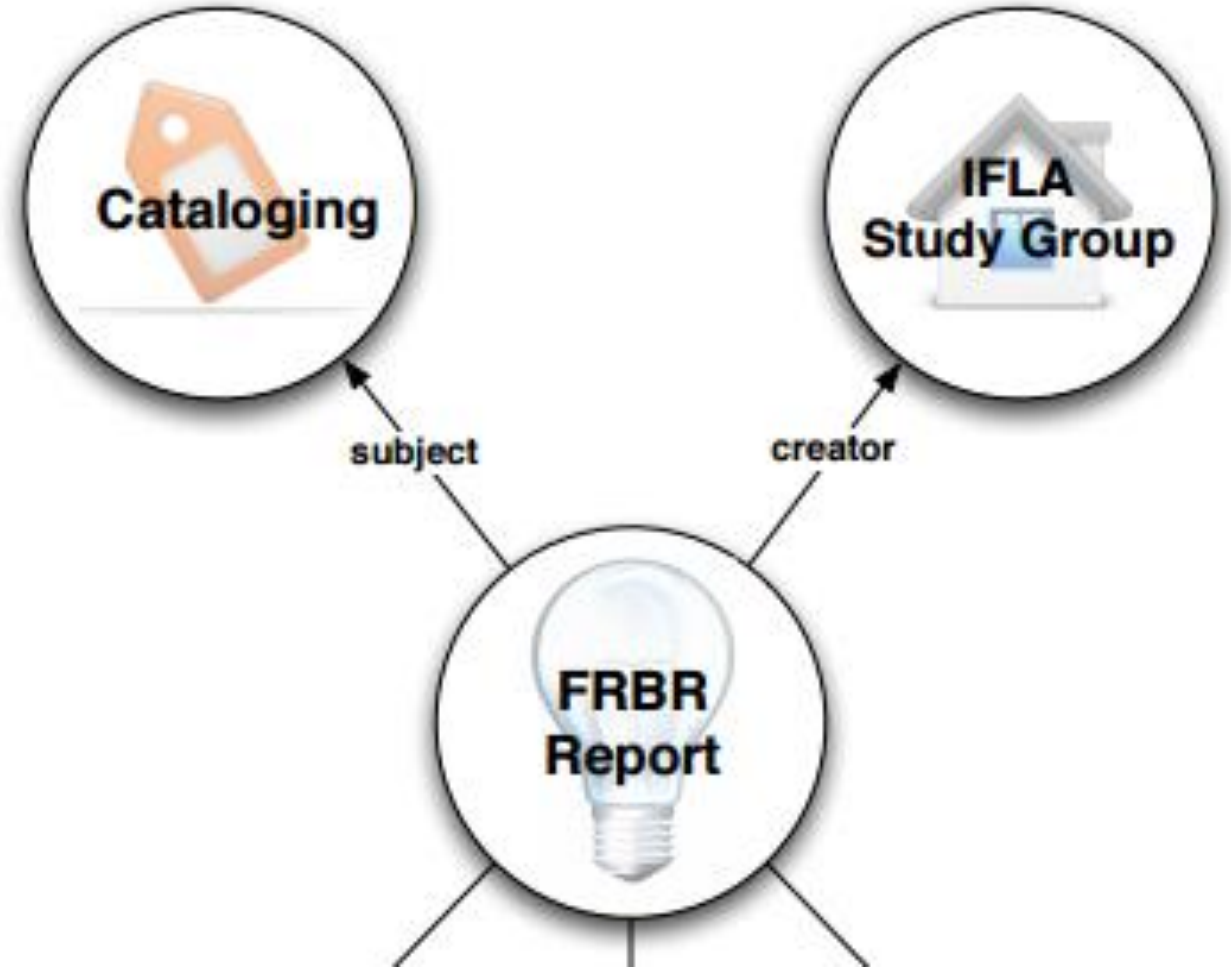
BIBFRAME Properties (Selected)

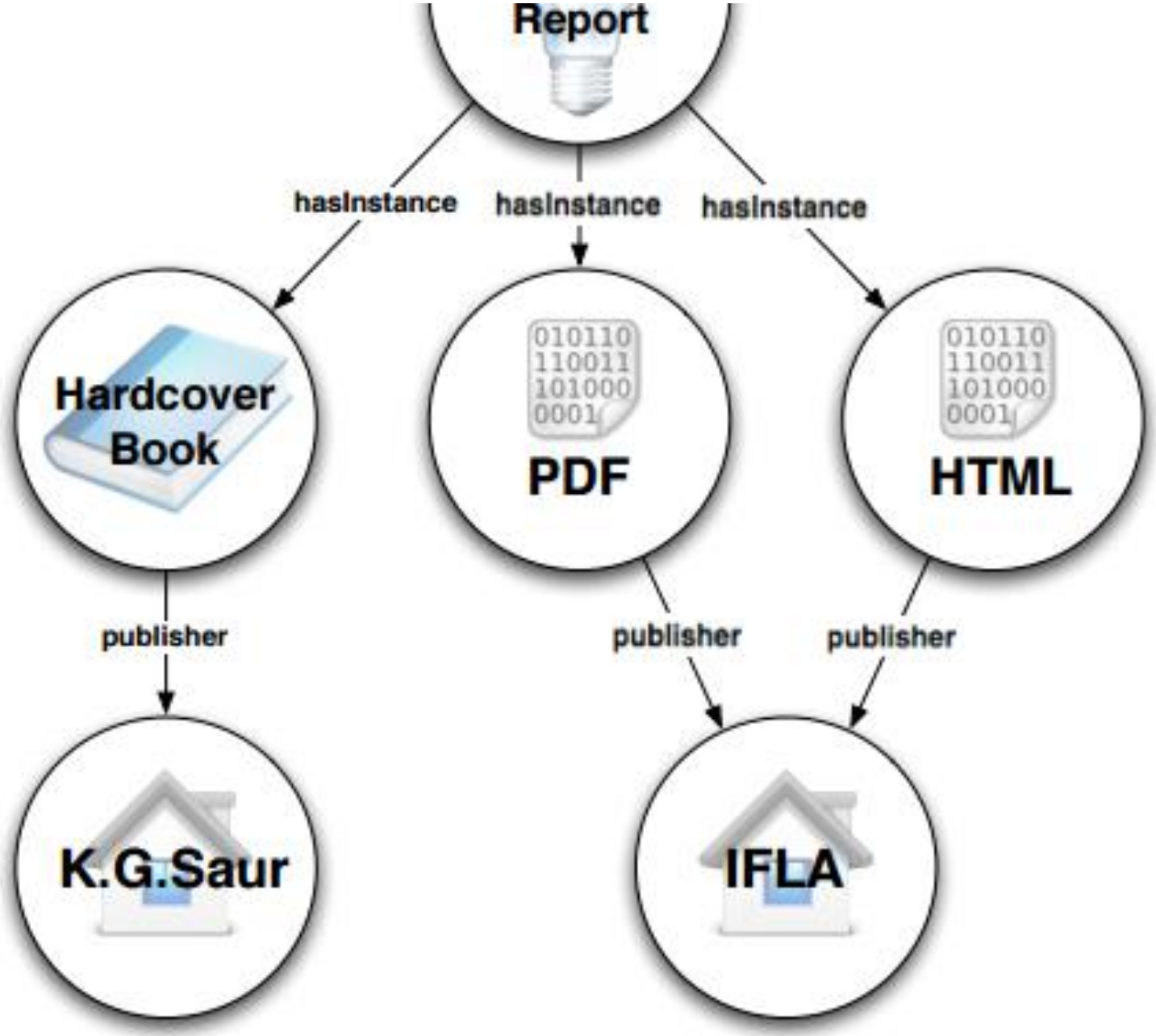
Work (Creative Work)	**Instance**	**Authority**	**Annotation**
absorbedBy classificationLcc contributor creator genre language series subject title workTitle	accompaniedBy colorContent contentNotes duration edition extent formatOfMusic frequency isbn10 title	Authorized AccessPoint identifier label relatedTo	annotates annotation AssertedBy

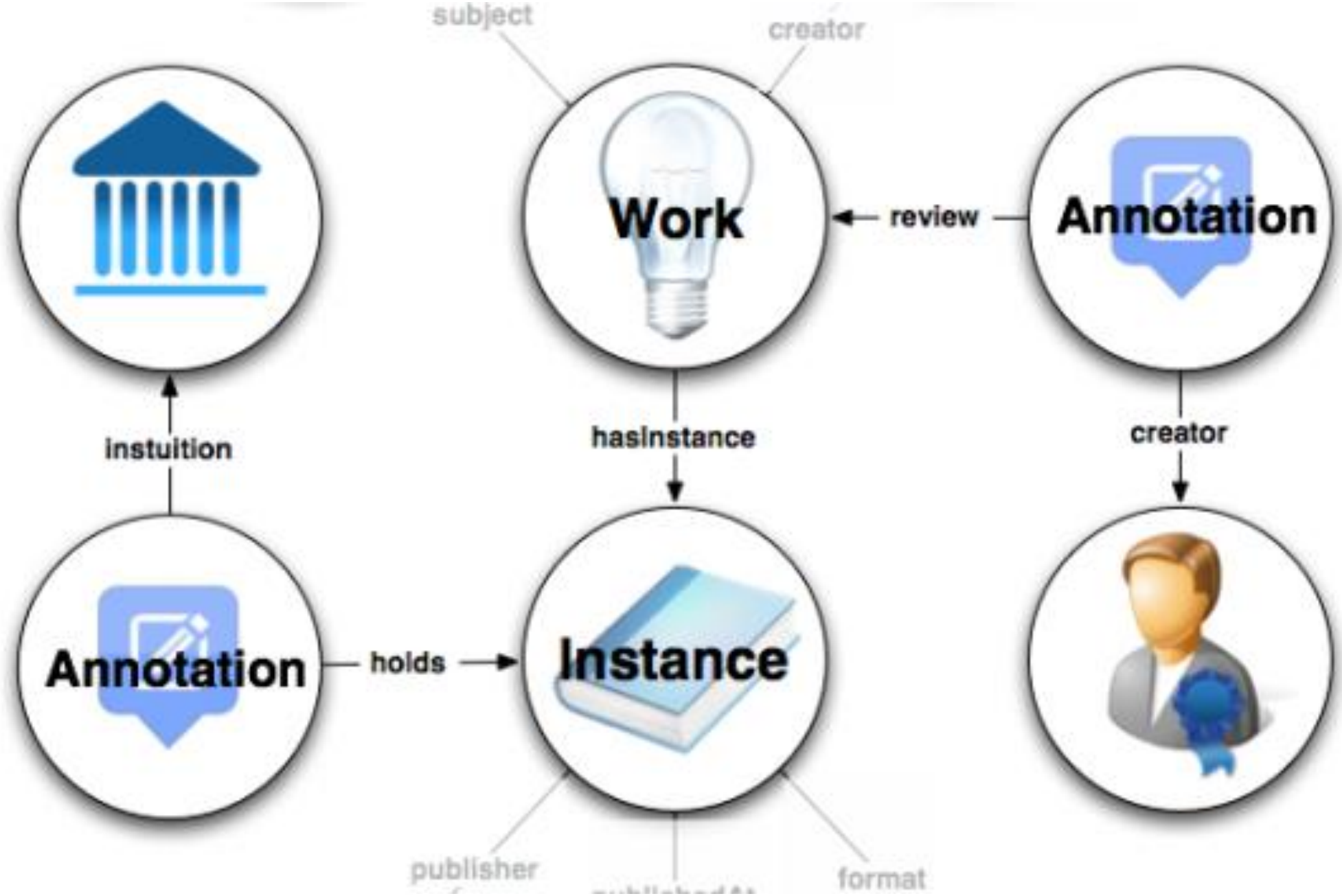


http://www.loc.gov/bibframe/pdf/marcld-report-11-21-2012.pdf

Instances as defined by this XML serialization is shown in Figure 5.




Report
hasInstance
hasInstance
hasInstance
Hardcover Book
PDF
HTML
publisher
publisher
publisher
K.G.Saur
IFLA



http://www.loc.gov/bibframe/pdf/marcld-report-11-21-2012.pdf

Focus on Data Elements

- Like FRBR and RDA, BIBFRAME focuses on data elements
- Not records

```
LEADER 00000cam a2200457 i 4500
001    885148293
003    OCoLC
005    20150406155922.0
008    140721s2015    iluab    b    001 0 eng
010    2014017912
016 7  016057710|2Uk
019    756280902|a757462586|a803890454|a891691753|a893977550
       |a894201357
020    9780838911310|qalk. paper
035    (OCoLC)885148293|z(OCoLC)756280902|z(OCoLC)757462586
       |z(OCoLC)803890454|z(OCoLC)891691753|z(OCoLC)893977550
       |z(OCoLC)894201357
040    DLC|beng|erda|cDLC|dOCLCO|dTXA|dYDXCP|dFDA|dERASA|dTOH
       |dWAU|dBTCTA|dBDX|dUKMGB|dCDX|dQGK|dUtOrBLW
042    pcc
049    UMSL
050 00 Z695.6|b.A555 2015
082 00 025.3/46|223
100 1  Andrew, Paige G.,|eauthor.
245 10 RDA, Resource description & access and cartographic
       resources /|cPaige G. Andrew, Susan M. Moore, Mary Lynette
       Larsgaard.
246 3  RDA, Resource description and access and cartographic
       resources.
246 10 Resource description & access and cartographic resources.
246 18 RDA and cartographic resources.
264  1 Chicago :|bALA Editions, an imprint of the American
       Library Association,|c2015.
300    viii, 144 pages :|billustrations ;|c26 cm
336    text|btxt|2rdacontent.
337    unmediated|bn|2rdamedia.
338    volume|bnc|2rdacarrier.
504    Includes bibliographical references and index.
505 0  The past is prologue -- RDA and FRBR entities as applied
       to cartographic resources : an overview -- Comparing
       standards : continuing, different and added practices --
       Navigating RDA to catalog cartographic resource elements -
       - Cartographic resources cataloging : moving forward.
520 8  As the cataloging universe moves into the era of RDA:
```

MARC fields with multiple data elements

264 1 $a Chicago : $b ALA Editions, an imprint of the American Library Association, $c 2015.

Date elements

Date of publication = 2015

Publisher = American Library Association

Place of publication = Chicago

http://www.niso.org/news/events/2013/dcmi/bibframework

BIBFRAME Vocabulary

Defines a set of classes and properties

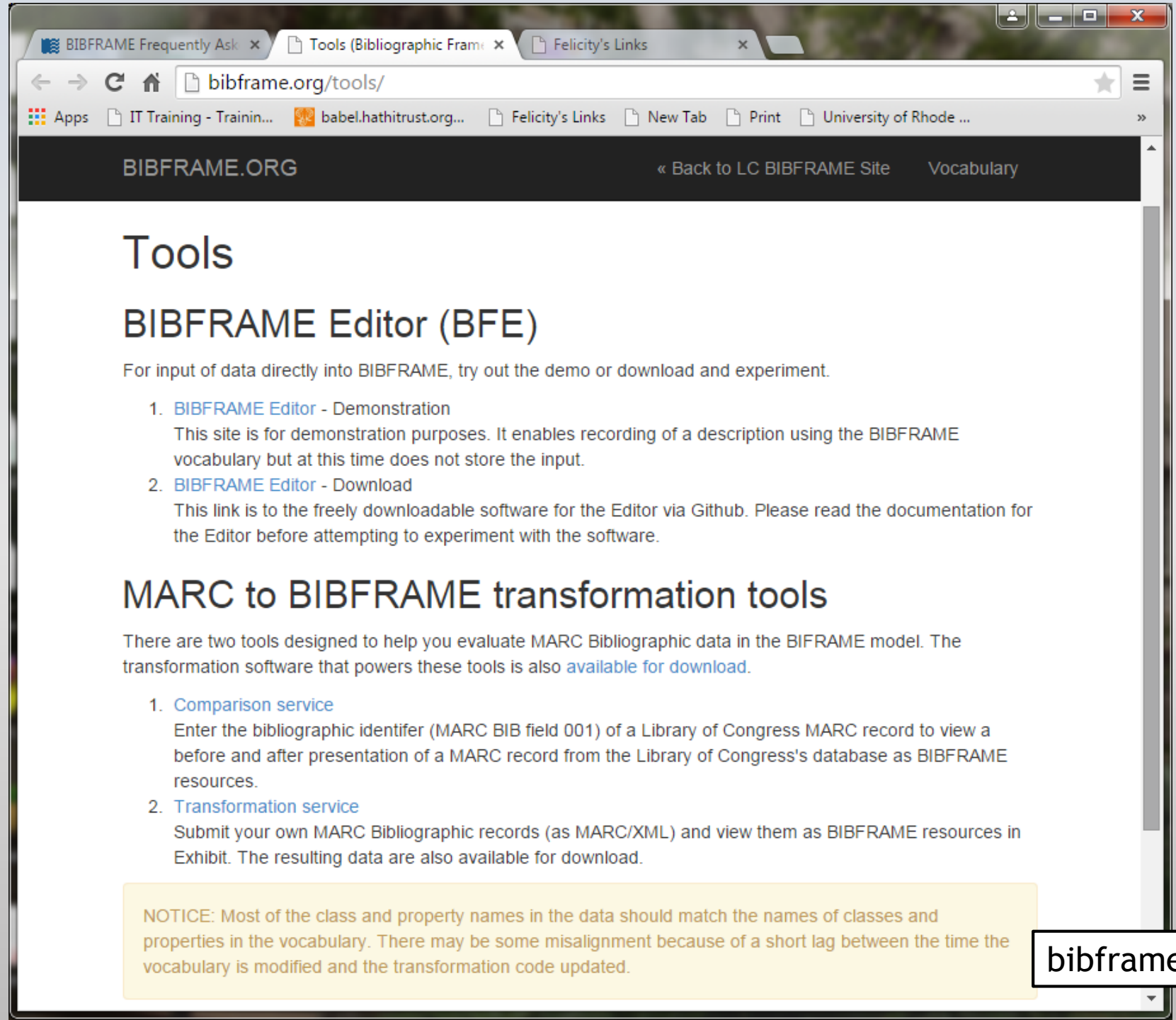
- Class: main categorization
- Properties
  - belong to classes
  - used to describe BIBFRAME resources

Argh! Will I have to learn rdf, triples, and BIBFRAME classes and properties to make this work?

BIBFRAME Profiles

BIBFRAME tools

- http://bibframe.org/tools/



bibframe.org/tools/

BIBFRAME Editor

Get the code here. In the meantime, select a Profile below to get started.

BIBFRAME - Kitchen Sink Profiles

- New HeldItem
- New Instance
- New Work
- New Work, Instance, & HeldItem

BIBFRAME - Simple Monograph

- New Holding
- New Instance
- New Work
- New monograph (New Work, Instance, and Holding)

Work

Authorized access point Authorized access

Simple label Simple label

Work title Title Entity

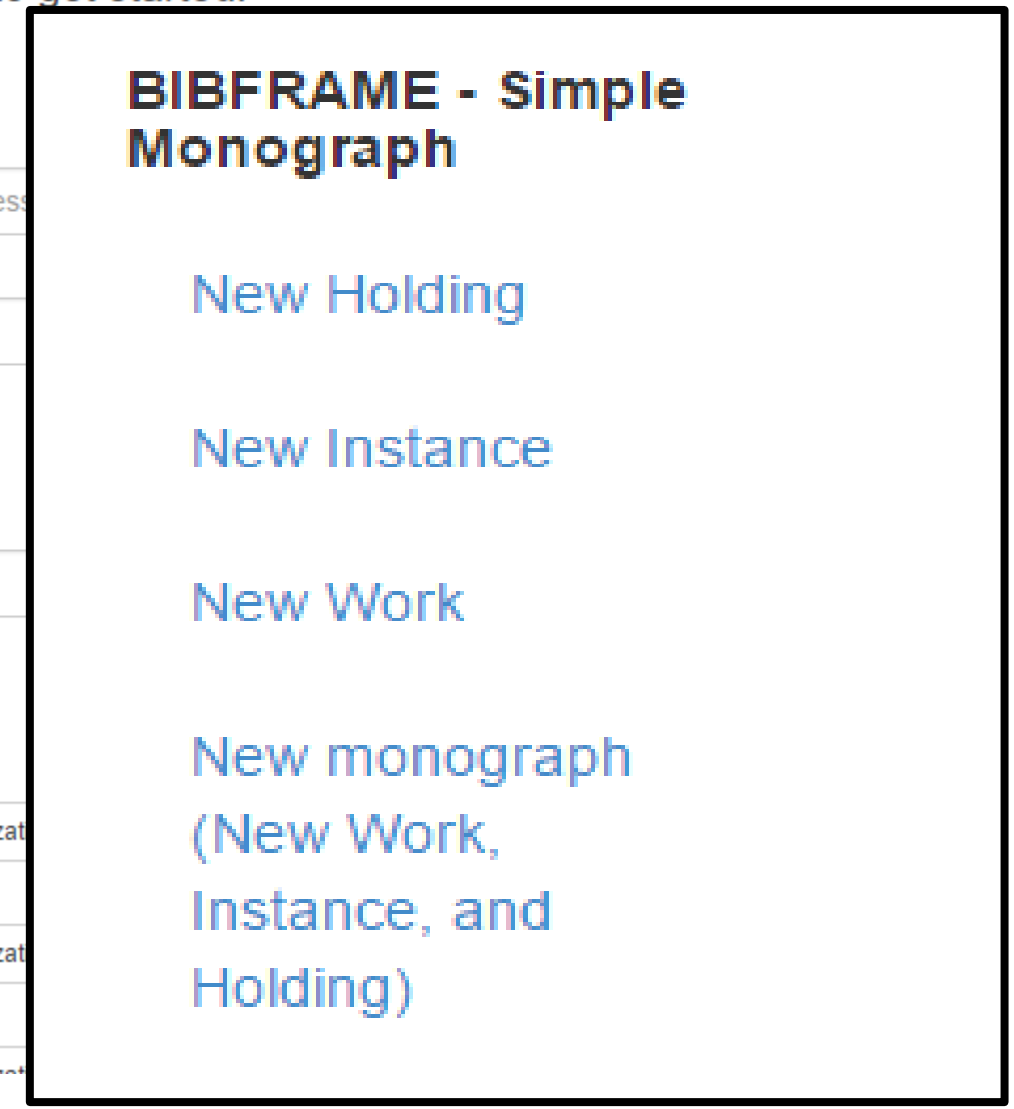
Any title Any title

Title variation Title Entity

Associated agent Person | Organizat

Creator role Person | Organizat

Person | Organizat



Work - Monograph

Authorized access point Authorized access point Set

Title Title Set

Title variation Title Entity

Author Person | Organization | Family | Meeting | Jurisdiction

Editor Person | Organization | Family | Meeting | Jurisdiction

Translator Person | Organization | Family | Meeting | Jurisdiction

Date of work Date of work Set

Place of creation Place

Person

Person

Lookup einstein, albert

LCNAF

Einstein, H. A. (Hans Albert), 1904-1973
Einstein, Albert, 1879-1955 (Spirit)
Einstein, Albert, 1879-1955
Brooks, Albert, 1947-

Save changes

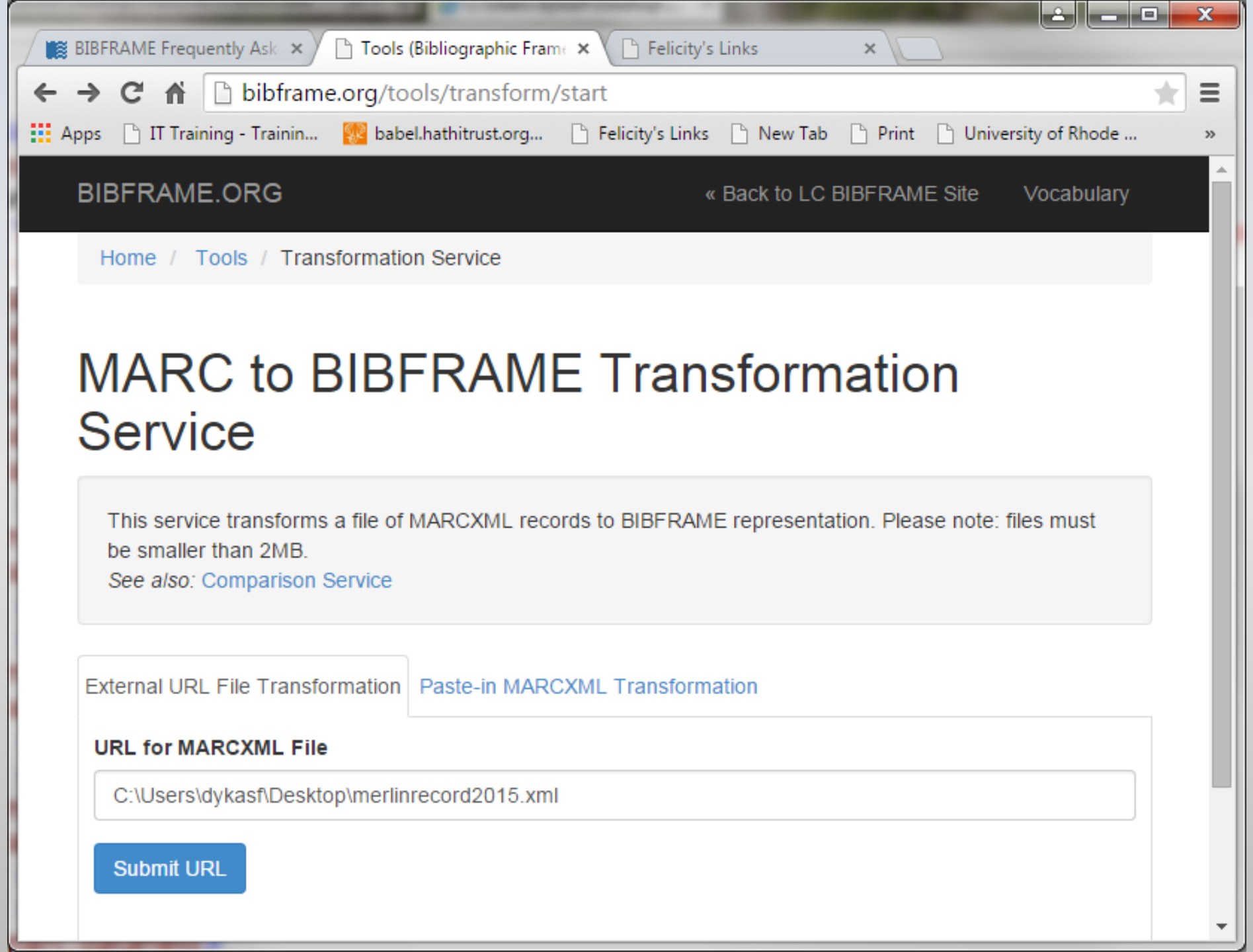
Authorized access point Authorized access point — Set

Einstein, Arik e x

Authority assigner Person | Organization | Family | Meeting | Jurisdiction

Authority source Authority source — Set

http://id.loc.g... e x


BIBFRAME Frequently Ask
Tools (Bibliographic Fram
Felicity's Links
bibframe.org/tools/transform/start
Apps
IT Training - Trainin...
babel.hathitrust.org...
Felicity's Links
New Tab
Print
University of Rhode ...
BIBFRAME.ORG
« Back to LC BIBFRAME Site
Vocabulary
Home / Tools / Transformation Service
MARC to BIBFRAME Transformation Service
This service transforms a file of MARCXML records to BIBFRAME representation. Please note: files must be smaller than 2MB.
See also: Comparison Service
External URL File Transformation
Paste-in MARCXML Transformation
URL for MARCXML File
C:\Users\dykasf\Desktop\merlinrecord2015.xml
Submit URL

Examples of Transformations

- **505** 0 $a What is RDA? -- RDA and the international context – FRBR and FRAD in RDA -- Continuity with AACR2 -- Where do we see changes? -- Implementing RDA -- Advantages, present and future.
- **bf:contentsNote** "What is RDA? -- RDA and the international context -- FRBR and FRAD in RDA -- Continuity with AACR2 – Where do we see changes? -- Implementing RDA – Advantages, present and future." ;

- **300** $a vii, 117 p. : $b ill. ; **$c** 28 cm.
- **bf:dimensions** "28 cm." ;

```
    bf:classificationLcc <http://id.loc.gov/authorities/classification/2094.15.K4
7> ;
    bf:contributor [ a bf:Organization ;
            bf:authorizedAccessPoint "American Library Association." ;
            bf:hasAuthority [ a madsrdf:Authority ;
                    madsrdf:authoritativeLabel "American Library Association." ] ;
            bf:label "American Library Association." ] ;
    bf:creator [ a bf:Person ;
            bf:authorizedAccessPoint "Oliver, Chris, 1951-" ;
            bf:hasAuthority [ a madsrdf:Authority ;
                    madsrdf:authoritativeLabel "Oliver, Chris, 1951-" ] ;
            bf:label "Oliver, Chris, 1951-" ] ;
    bf:derivedFrom <http://id.loc.gov//resources/bibs/16266874.marcxml.xml> ;
    bf:hasAnnotation [ a bf:Annotation ;
            bf:annotates <http://id.loc.gov//resources/bibs/16266874> ;
            bf:changeDate "2011-02-02T15:44" ;
            bf:derivedFrom <http://id.loc.gov//resources/bibs/16266874.marcxml.xm
l> ;
```

Schema.org

- Standard for semantic markup of web data
- Developed by Yahoo!, Google, Bing, and Yandex
- Structures data on the Web

- Schema Bib Extend Community Group
  - https://www.w3.org/community/schemabibex/

- Overlap with and complements BIBFRAME

February 2015 update

- Year of experimentation completed
- Next steps
  - Adjust BIBFRAME vocabulary
  - Continued development of tools
  - Pilots for original cataloging
    - Library of Congress
    - Stanford and five other libraries
  - Further development of MARC to BIBFRAME and BIBFRAME to MARC conversion tools
  - OCLC: more work with OCLC Schema.org and BIBFRAME approaches
  - Zepheira working on tools and working libraries on projects
  - Large scale experimentation

http://www.loc.gov/today/cyberlc/feature_wdesc.php?rec=6647

Bibliographic Fran | BIBFRAME Propert | MERLIN Catalog | schema yanex - G | Search Results for | harry truman - Go | MERLIN Library Ca

https://www.google.com/search?q=william+and+mary+college+library+data+on+web&oq=william+and+mary+college+library+data+on+\

Apps | IT Training - Trainin... | babel.hathitrust.org... | Felicity's Links | New Tab | Print | University of Rhode ... | Skillsoft Browser Ca...

Google

harry truman

Sign in

Web | Images | Videos | Books | Shopping | More | Search tools

About 27,400,000 results (0.49 seconds)

Biographical Sketch: Harry S Truman
www.**truman**library.o... ▾ Harry S. Truman Presidential Library and Museum ▾
[**Harry Truman** and family] Harry S. Truman was born in Lamar, Missouri on May 8, 1884, the son of John Anderson Truman and Martha Ellen (Young) Truman.

Harry S. Truman - Wikipedia, the free encyclopedia
en.wikipedia.org/wiki/**Harry**_S._**Truman** ▾ Wikipedia ▾
Harry S. **Truman** (May 8, 1884 – December 26, 1972) was the 33rd President of the United States (1945–53). As the final running mate of President Franklin D.
Haberdasher - Bess Truman - Margaret Truman - Alben W. Barkley

Harry S. Truman | whitehouse.gov
https://www.whitehouse.gov/1600/presidents/**harrystruman** ▾ White House ▾
During his few weeks as Vice President, **Harry Truman** scarcely saw President Franklin Roosevelt, and received no briefing on the development of the atomic ...

Harry Truman - U.S. Presidents - HISTORY.com
www.history.com/topics/us-presidents/**harry-truman** ▾ History ▾
Find out more about the history of **Harry Truman**, including videos, interesting articles, pictures, historical features and more. Get all the facts on HISTORY.com.

Harry S. Truman - Biography - U.S. President - Biography.com
www.biography.com/people/**harry**-s-**truman**-9511121 ▾ FYI ▾
Sworn in as the 33rd president after Franklin Delano Roosevelt's sudden death, **Harry** S. **Truman** presided over the end of WWII and dropped the atomic bomb ...

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Harry S. Truman
33rd U.S. President

Harry S. Truman was the 33rd President of the United States. As the final running mate of President Franklin D. Roosevelt in 1944, Truman succeeded to the presidency on April 12, 1945, when Roosevelt died after months of declining health. Wikipedia

Born: May 8, 1884, Lamar, MO
Died: December 26, 1972, Kansas City, MO
Full name: Harry S. Truman
Presidential term: April 12, 1945 – January 20, 1953
Vice president: Alben W. Barkley (1949–1953)
Education: University of Missouri–Kansas City, More

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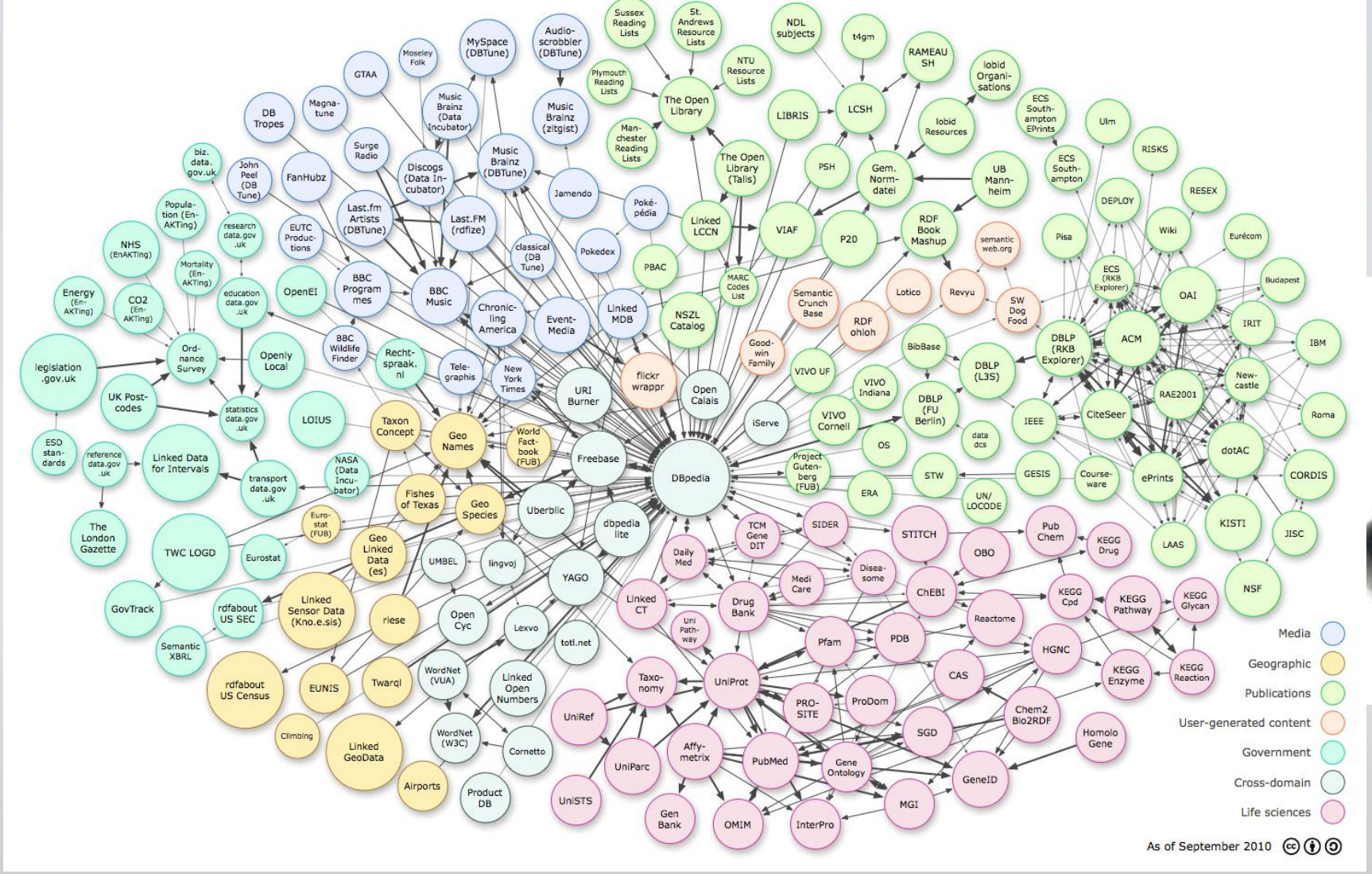
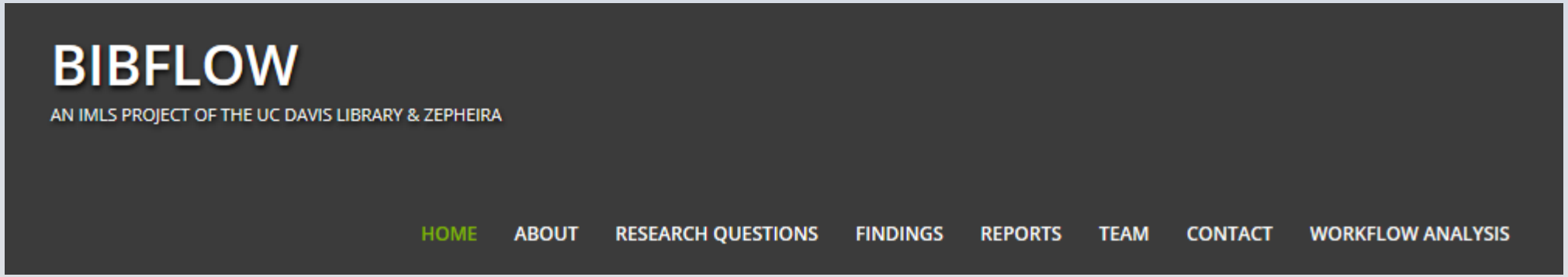


Show Me the Linked Data in Libraries!



- A two year IMLS grant project of the University of California Davis Library & Zepheira
- Goal: Switch entire database to graph-based/triple-store
- Underlying model: BIBFRAME
- Software: Kuali Ole (with coding modifications)
- Seeking feedback and comments to make model as universal as possible
  - Use cases

Copy Cataloging for Non-Rare Books Using OCLC Connexion Client

posted on October 25, 2014 by Carl G Stahmer | 2 Comments

The following workflow represents the current work process in place at the UC Davis library when copy cataloging a non-rare book using OCLC connection client. It is one of the work functions that will be converted to a native Linked Data workflow as part of the project.

Actors

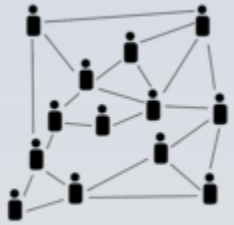
1. Cataloging Specialist – Medium level of experience.
2. Copy Cataloger – Lowest level of experience.
3. Supporting systems and tools (e.g. harvesting daemon).

Description

User Story: "As a library cataloger I need to find and claim a record in OCLC for a published book to include in my integrated library system with additional metadata for its location in library collection."

Success Metric(s)

1. The new set of bibliographic metadata elements will be present and discoverable by library users of the OCLC Melvyl System.



Libhub

Leading, Learning, and Linking

"I believe everyone benefits from the visibility of libraries and their content on the Web."

- **The Libhub Initiative Pledge**

- One of founding sponsors: Zepheira
- Other vendor sponsors: Atlas, Innovative, SirsiDynix
- Goal: “publish BIBFRAME resources to the Web” and enhance discoverability

Linked Data for Libraries (LD4L)

- Collaboration of Cornell, Harvard and Stanford
- Funded by nearly $1 million two-year grant (Andrew W. Mellon Foundation) in February 2014
- Goal of project: Create a triple store called the Scholarly Resource Semantic Information Store (SRSIS) model
  - Intent to use existing ontologies
  - Also to use open source software
  - One deliverable: to build a Blacklight interface to facilitate searching of triples

LODLAM

Linked Open Data in Libraries Archives and Museums

Latest News

Below, you'll find all of the latest news and goings on in the LODLAM community, including upcoming events, published reports, etc. You can also keep an eye on #LODLAM on the Twitter stream below and to the right.

LODLAM Resources

You can find resources about LODLAM in the full resources page. Here you can find archived talks, presentations, and articles to get up to speed on Linked Open Data with a particular emphasis on libraries, archives, and museums.

29 - 30 June Sydney, Australia

SUMMIT2015

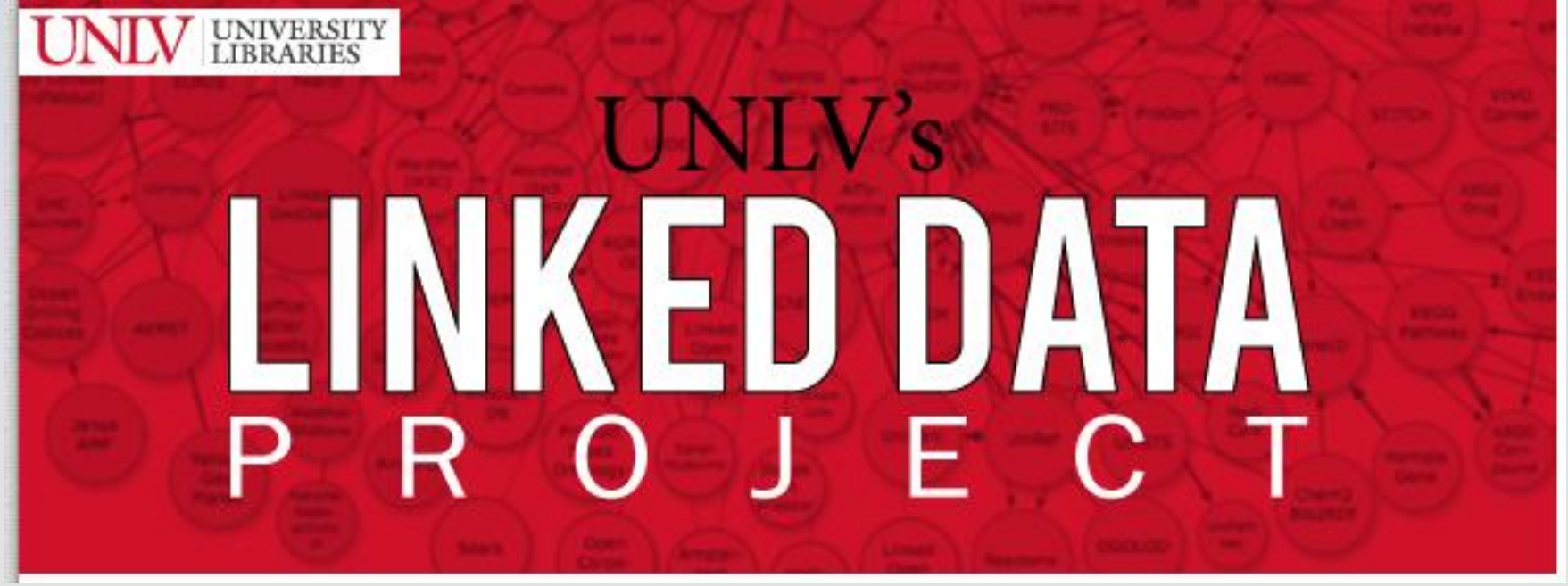
Linked Open Data in Libraries Archives and Museums

Save the date for the 3rd International LODLAM Summit, taking place in Sydney, June 29-30, 2015. More details available in the coming weeks.

#LODLAM Resources from Twitter

Comment

Search

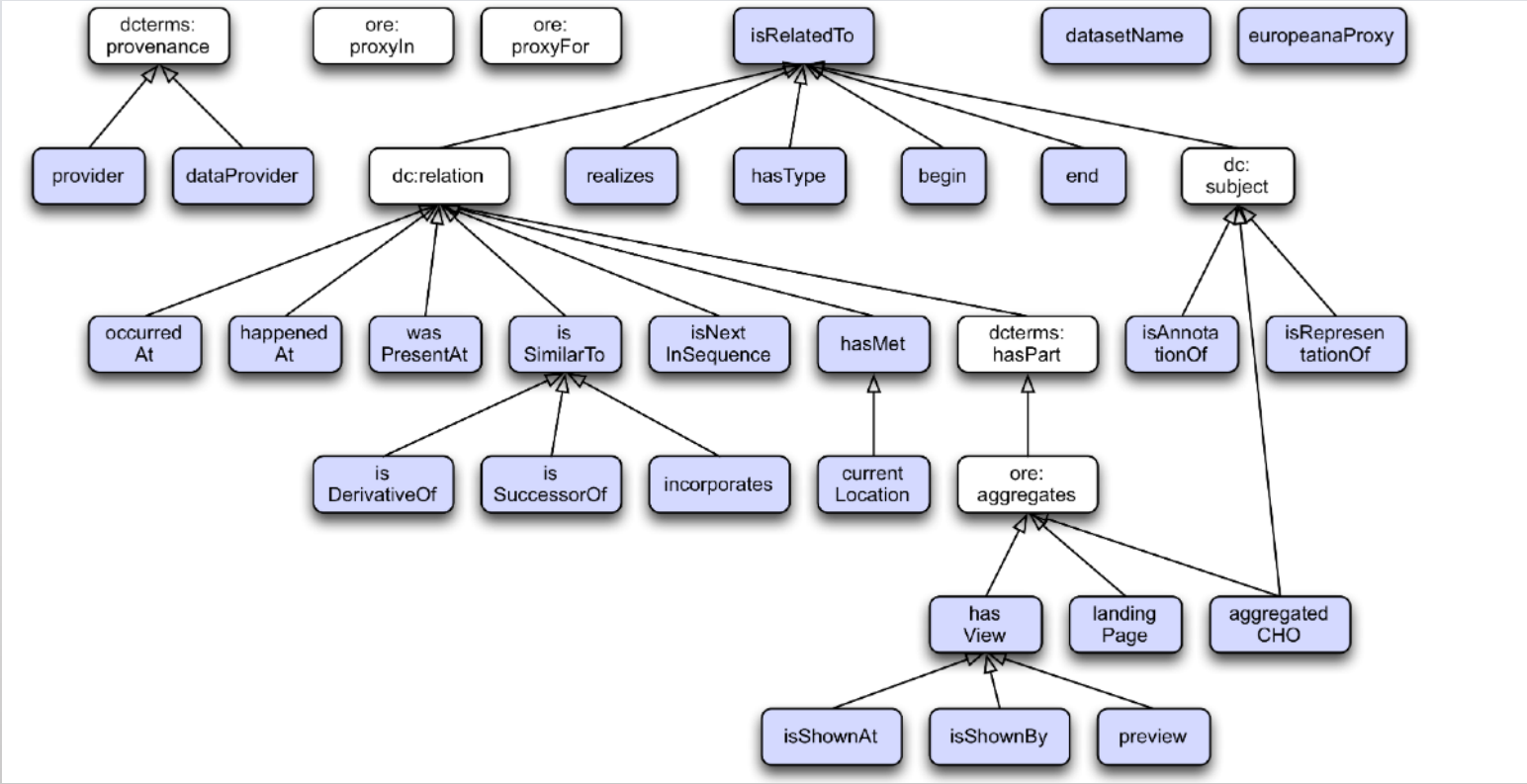


- Inspiring because presenters have emphasized that their "Project led, implemented & managed by 2 busy faculty librarians"
- Library first formed a study group on linked data
- Then after a year, worked on prototype
  - Enabled them to verify the ability to generate LOD without investment in new systems
  - Instrumental in acquiring administrative support for project

Design Phase

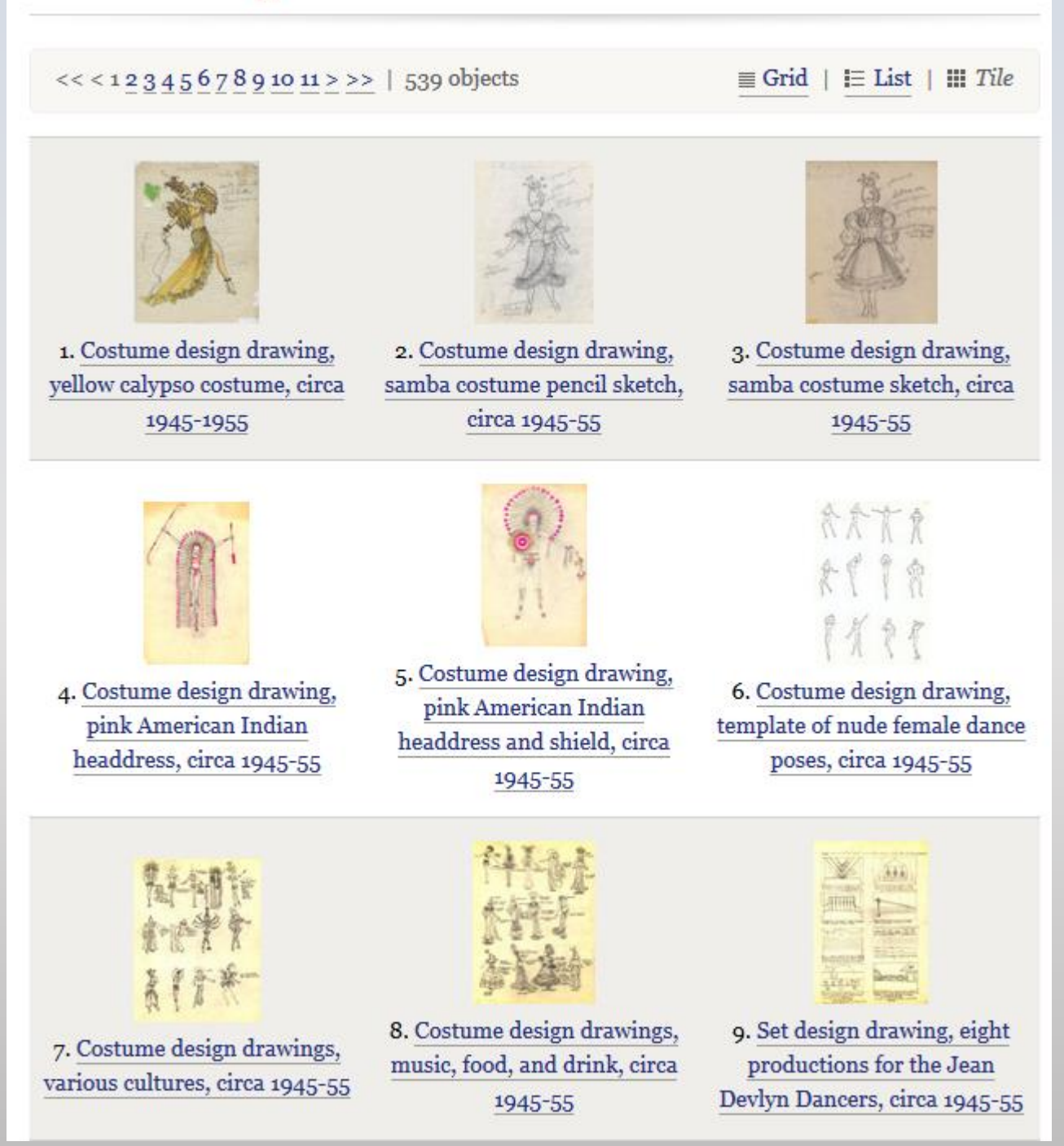
- Selecting Technologies
- Data model
- Mapping
- Determining rules

to create URI’s



Implementation

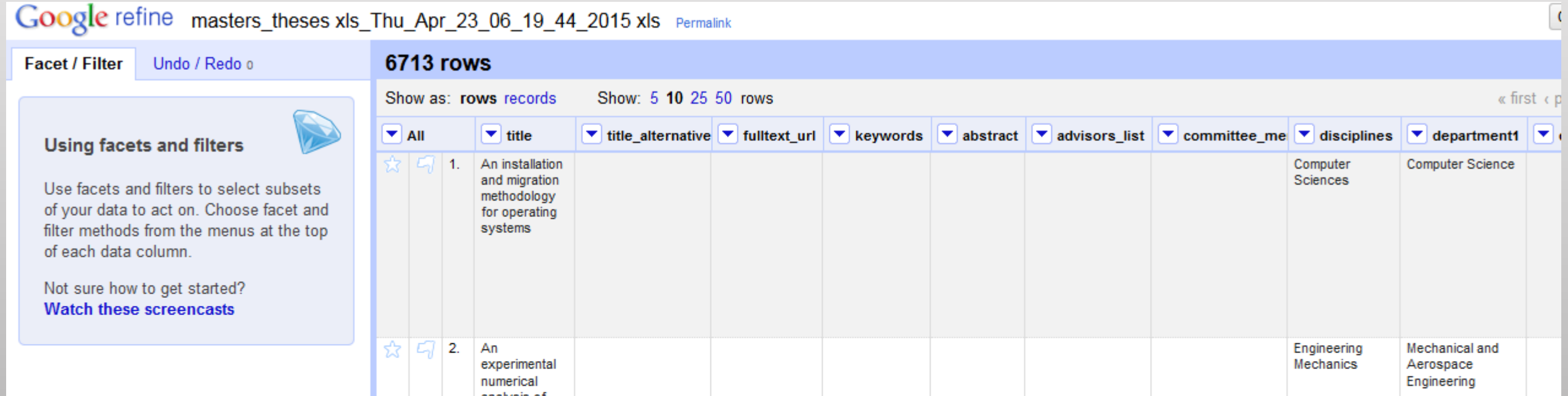
Initial Data prep in ContentDM repository



OpenRefine

A free, open source, powerful tool for working with messy data

- Further Metadata Work
- Reconciled Data
- Generated triples/RDF schema & exported theses



Import linked data into triple stores

- Runs parallel to their ContentDM repository

- Finished result: Video of content in Pivot Viewer:
  - https://youtu.be/-83FTKEkYZ0

How Feasible is it to Implement Linked Data?

- Independent project requires
  - Technical knowledge or willingness to learn (RDF, linked data principles)
  - Group project
  - Administrative support/buy-in
  - IT/Technical Support (triple store)

When Can We Expect to See Linked Data in Our Libraries?

- Pioneers/early adopters are paving the way
- Not financially feasible to leap until details have been worked out
- Momentum may propel linked data era forwards

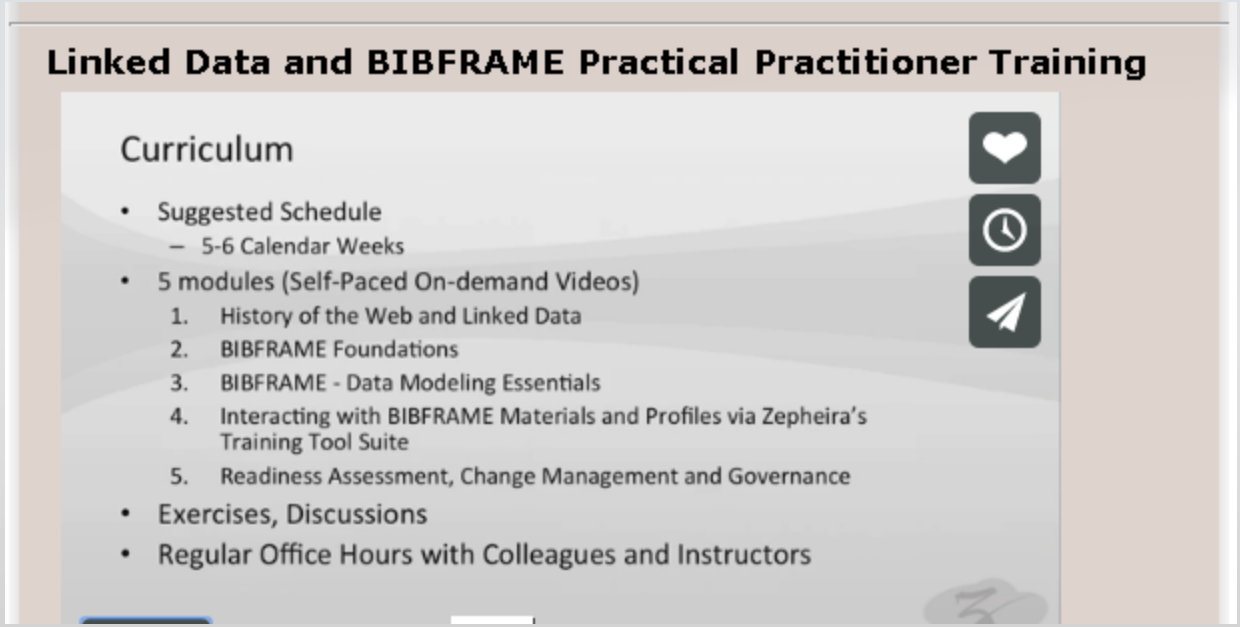
References

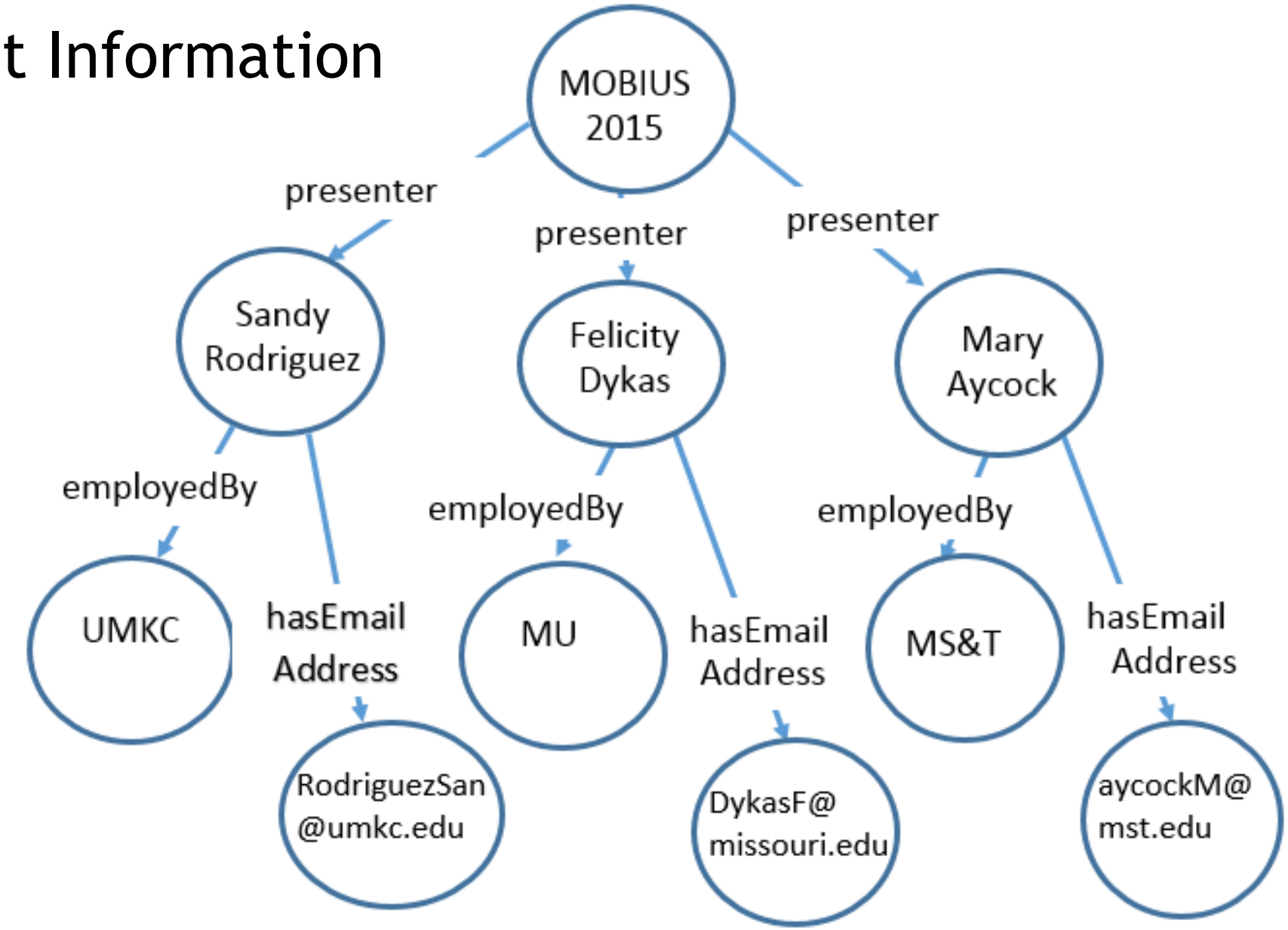
Will be posted on the MOBIUS Conference Website

Questions

- Humorous Disclaimers:
  - We’re 3 busy faculty librarians
  - We’re librarians, not “linked data specialists,” Jim
  - Our crystal balls work imperfectly

Zepheira Training



https://zepheira.com/solutions/library/

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