

THINKING IN BIBFRAME...

NOT SO FAR FETCHED AFTER ALL!



ALA Midwinter 2015
ALCTS CaMMS Forum
February 1, 2015

Jackie Shieh
jshieh @gwu.edu
Coordinator
Resource Description Group
GW Libraries

Raison d'être:

Linked data describes **a method of publishing structured data** so that it can be interlinked and become more useful.

The Semantic Web isn't just about putting data on the web. It is about **making links**, so that a person or machine can **explore the web of data**. With linked data, when you have some of it, **you can find other, related, data**.

- A roadmap to the Semantic Web by Tim Berners-Lee

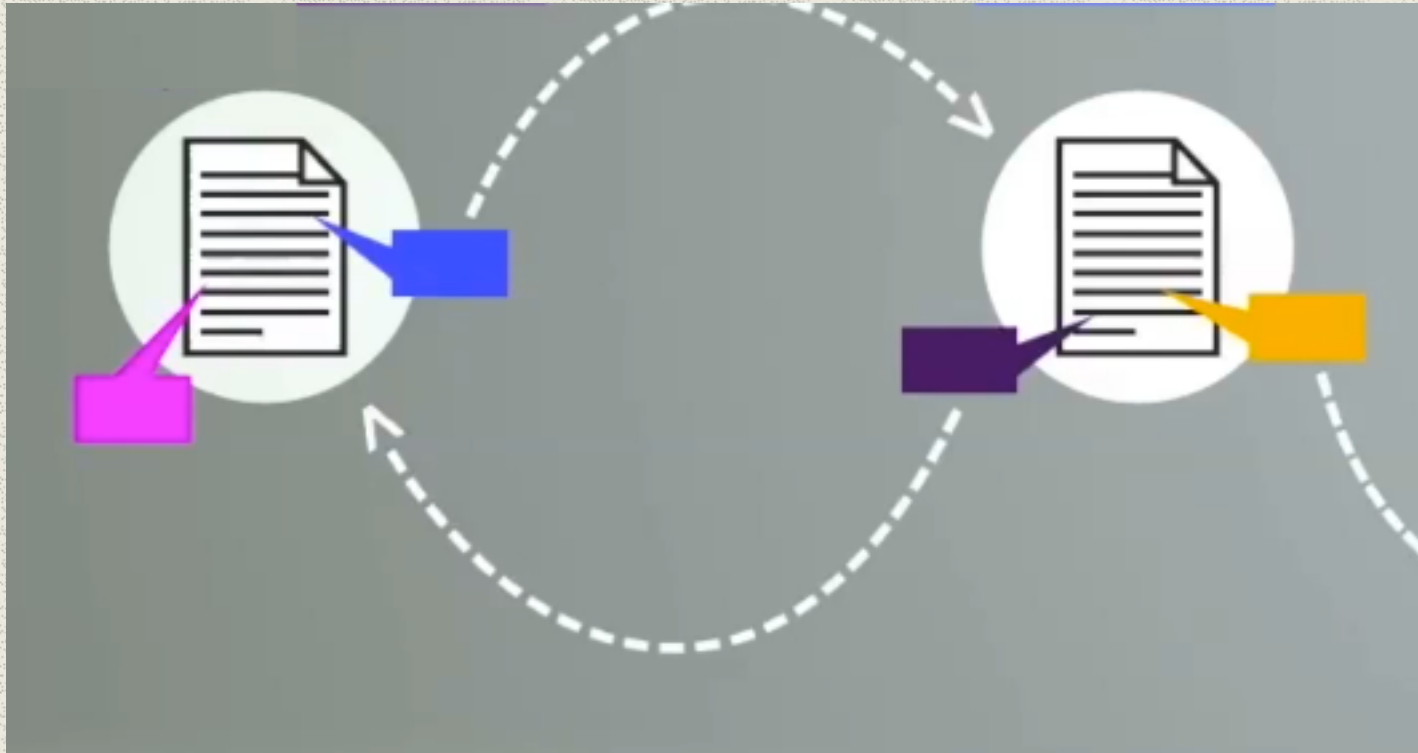


Teasing Strings Apart to Data Entities



Images: Eneko Egaña, vimeo.org/42962819

Teasing Strings Apart to Data Entities



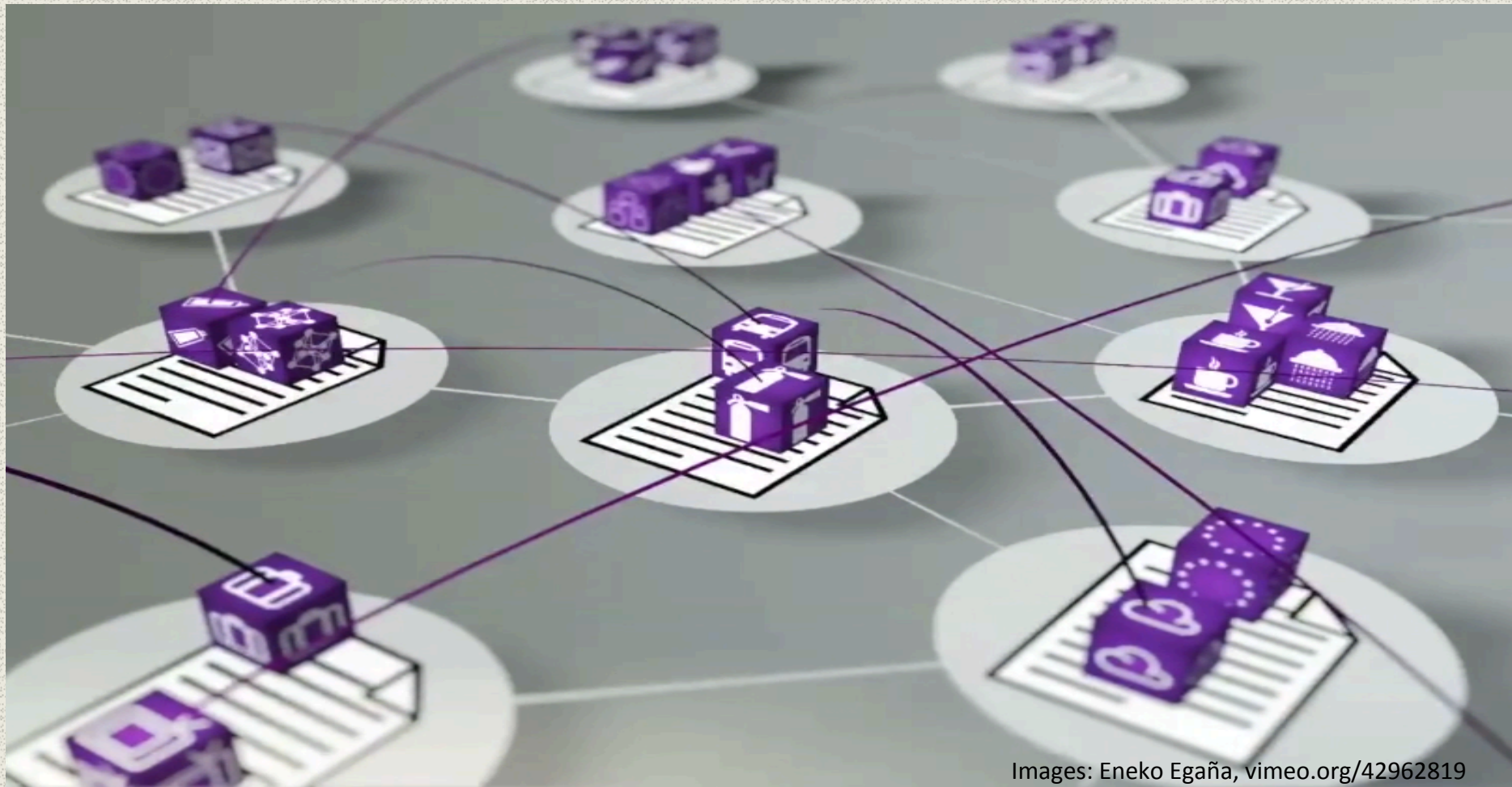
Images: Eneko Egaña, vimeo.org/42962819

Teasing Strings Apart to Data Entities



Images: Eneko Egaña, vimeo.org/42962819

Entities Linking



Images: Eneko Egaña, vimeo.org/42962819

A 3D visualization of a network graph. The nodes are represented as small, purple, cube-like objects with various white icons on their faces. These icons include a heart, a cloud, a star, a person, a car, a house, a shopping cart, and a smartphone. The nodes are interconnected by thin, dark purple lines that curve through the space, creating a complex web of connections. The background is a light, hazy blue with some faint, out-of-focus shapes, suggesting a virtual or digital environment.



Drill Down Key Concepts

- Identifiers
- Things
- Representation in Context

Learning Basics: Class & Property

- Class: a capital letter, always singular → bf:Work
- Property: a lower case letter → bf:creator ;
→ bf:creationDate
- Object property: has verb → bf:hasExpression ;
→ bf:hasAnnotation
- Data type: has noun → bf:isbn
- Camel case for more than one words
→ bf:otherPhysicalFormat
- Sub Class and Sub Property

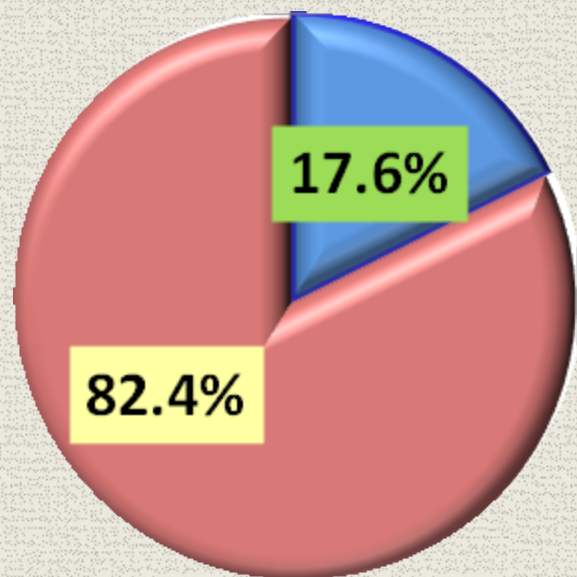
BIBFRAME: Purpose and Promise

- Replacing MARC (perhaps many more?)
- Maximizing Web Platform via Inter-Linking Library Collections
- Elevating Library's Visibility on the Web
- Enabling user discover and find related data

Approaches

- Data
- Team
- Process

GW MARC Data



- Selecting Datasets
- Analyzing Data
- Mapping Data
- Transforming Data
- Obsolete Fields
 - 011,029,039
 - 262,350
 - 440,503
 - 870-873

Data Selections

- Simple Monograph
- Whole-Part Monograph
- Variant Formats

Data Transformation

- MARC2BF
 - Data in place of String
- RDA in BF
- EAD and BF

GW Team

- Resource Description Group (3)
- Global Resource Center (1)
- Digital Archivist (1)
- Burns Law Library (First half of 2014)
 - Cataloging & Metadata Services (3)

Team Building

- Identify Talents and Strengths
- Foster and Encourage Independent Learning
- Nurture Relationships
- Mentor Potential Leadership
- Develop Project Management Skills

Learning Process

- Webinars
- Classroom Instructions
- Study Halls
- Workshops

Reason Together via Use Cases

3.1.2. Sample Response

The search returns a BIBFRAME Work and Instance for the title "Phantom Tollbooth" four

```
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
```

```
@prefix bf: <http://bibframe.org/vocab/> .
```

```
<http://local.library.org/examples/phantom-tollbooth/test001/w1>
```

```
  a bf:Monograph ;
```

```
  a bf:Work ;
```

```
  bf:author <http://bibframe.org/auth/person/norton_juster> ;
```

```
  bf:language <http://id.loc.gov/vocabulary/languages/eng> ;
```

```
  bf:subject <http://bibframe.org/auth/subject/adventure-novel> ;
```

```
  bf:subject <http://bibframe.org/auth/subject/modern-fairy-tale> ;
```

```
  bf:title "Phantom Tollbooth" ;
```

```
  bf:summary "The Phantom Tollbooth is a children's adventure novel and modern fairy tale by Norton Juster." .
```

```
<http://local.library.org/examples/juster/test001/i1>
```

```
  a bf:HardcoverBook ;
```

```
  a bf:Instance ;
```

```
  bf:ISBN "0-394-81500-9" ;
```

```
  bf:date "1961" ;
```

```
  bf:publisher <http://bibframe.org/auth/org/Random-house> ;
```

```
  bf:isInstanceOf <http://bibframe.org/examples/phantom-tollbooth/test001/w1> .
```

3.2. BIBFRAME Work

In BIBFRAME, Uniform Resource Identifiers (URI) are used to uniquely identify 'things' we want to talk about. This URI uniquely identifies this BIBFRAME Work. 'a bf:Monograph' indicates this type of BIBFRAME Work is a Monograph. The URIs following bf:author and bf:subject represent the unique BIBFRAME Authority authorized access points for this specific author and these specific subjects.

<http://bibframe.org/documentation/bibframe-usecases/>

Reason Together via Use Cases

As a...

A linking service, e.g. ORCID

I want to...

Use your generated ORCID numbers to connect to other authorities generated elsewhere.

So that...

We can disambiguate those users with similar names, and connect different sources of information together to get a more complete picture of a creator's output.

Credit: B Bushman

Main Page



Contents [\[hide\]](#)

- 1 GW-BIBFRAME Implementation Wiki Page
- 2 General Information
- 3 Membership Knowledge & Skills Survey Form
- 4 Membership
- 5 Meeting Minutes
- 6 BF Tools (LC Based)
- 7 BF Primer and Other Working Documents
- 8 BF Presentations (LC Based)
- 9 BF Use Cases
- 10 BF Vocabulary
- 11 Other Presentations and Papers
- 12 Video Presentations
- 13 GW BIBFRAME Experiments
- 14 GW BIBFRAME : Solr/Blacklight
- 15 MediaWiki Helps

GW-BIBFRAME Implementation Wiki Page

- [GitHub forum](#) for MARC-to-BF transformation issues
- [BIBFRAME Validation](#)

BF Primer and Other Working Documents [\[edit\]](#)

- [Bibliographic Framework as Web of data](#)
- [Discussion Paper: Resource Type](#)
- [Discussion Paper: Authority](#)
- [Description and specification: Annotations](#)

BF Presentations (LC Based) [\[edit\]](#)

- [BIBFRAME Webcasts & Presentations](#)
- [BIBFRAME and WWW](#)
- [The BIBFRAME Model: High-level concepts and objectives](#)
- [Transitioning from MARC to BIBFRAME: The Environment and the Format](#)
- [When URIs become Authority](#)
- [Activities](#) at the 2014 ALA Annual Conference and Exhibits

BF Use Cases [\[edit\]](#)

- [Use Cases and Requirements](#)

BF Vocabulary [\[edit\]](#)

- [Description](#)
- [Terminology and Conventions](#)
- [CreativeWork](#)
- [Instance](#)
- [Authority](#)
- [Annotation: Holdings, Review, CoverArt](#)

Other Presentations and Papers [\[edit\]](#)



2014 GW Implementation Overview

- Tested data: analyses, selection and transformation
- Established Wiki and Listserv to facilitate communication
- Implemented LC's *Editor*
- LC BF Transformation Issue Tracking
 - <https://github.com/lcnetdev/marc2bibframe/issues>
- Expanded Training via Zepheira
 - <http://editor.bibframe.zepheira.com/static/>
- Thinking BF as routine... Almost there!

Current Routines...

- Ability to apply actionable identifier (HTTP)
- Ability to discern Work and Instance
- Awareness of the global nature of our data
- EAC-CPF
- Publication statement as an Event
- Collaboration, a new norm

Remaining Challenges

- Profile (Modular) Approach to Data Modeling
- Identity Service (Work, Authority)
- Annotation Model for Holdings
- Index and retrieve created BF data
- Incorporate or extend other schemas
- Provide ordinal sequence of description
- Pair fields of Latin and Vernacular scripts

BIBFRAME Outlook in 2015

- Community Test Core Vocabularies
- Web Interface for Practitioners Data Input
- Search and Retrieving native MARC and BIBFRAME to Output BF
- Search and Retrieval via SRU