Library Linked Data Interest Group

BIBFRAME: The way forward for library visibility on the web

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Hi, i'm Vicki

- Senior Information Architect at Zepheira
- Former Product Manager, OCLC
- Co-chair ALA ALCTS MARC Formats Transition Interest Group
- Chief BIBFRAME Data
 Geek



Zepheira

- Web company with deep roots in library and web standards
- Data Architects of BIBFRAME
- Building Library Solutions to leverage linked data (including BIBFRAME)
- Focused on accelerating access to library assets on the web

Theme: Library Web Visibility

"When my community searches the Web for something we have, we better show up as an option."



Chuck Gibson, Director & CEO
 Worthington Public Library



You are here

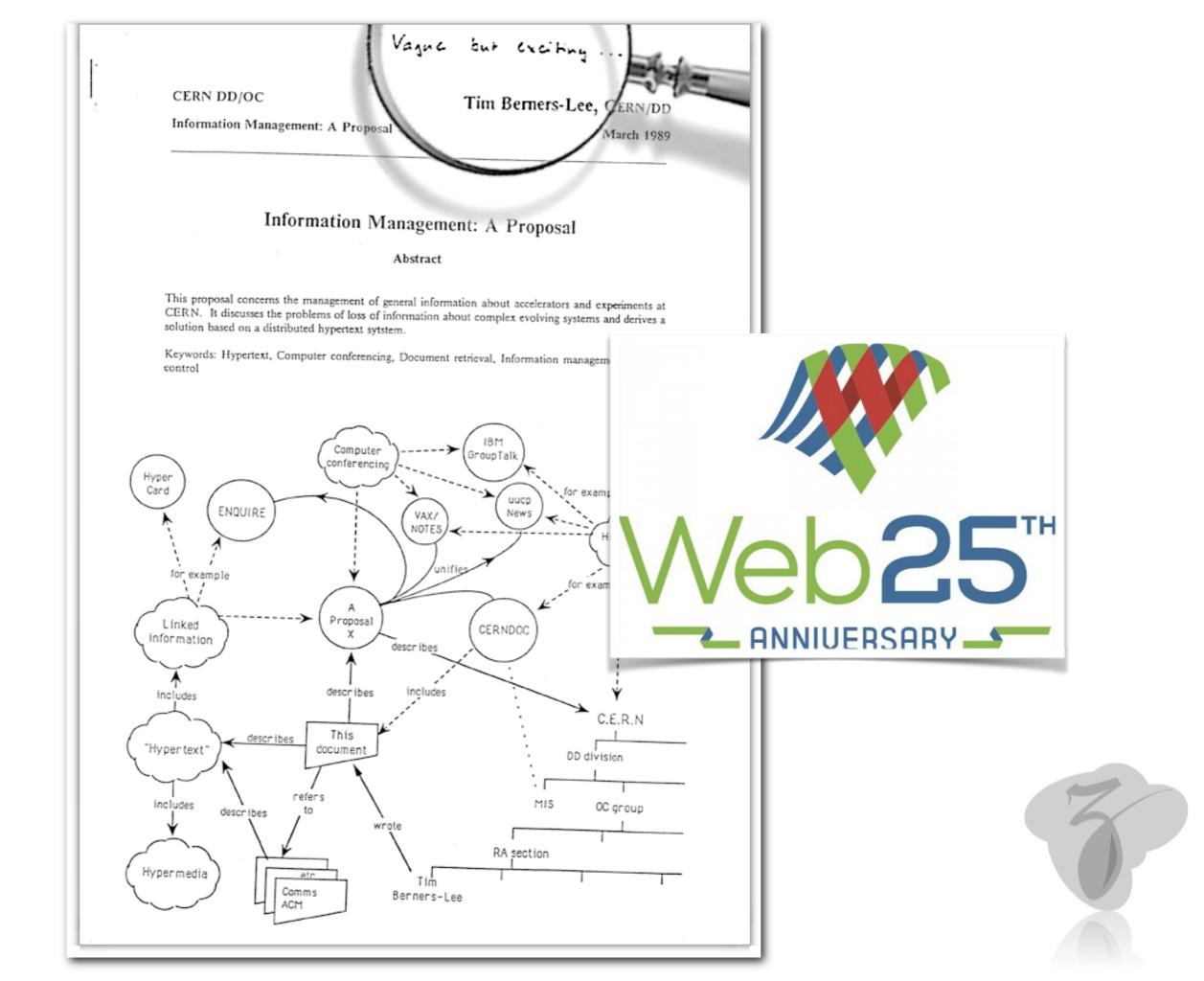
Talk in 3 parts

- 1. Set context with a peek into the history of linked data on the web
- 2. What is BIBFRAME and what will it do for me?
- 3. Taking Action make library assets visible on the web

Part 1

"The Web as I envisaged it, we have not seen it yet. The future is still so much bigger than the past."

-Tim Berners-Lee, April 2009



Not a Product, but a Community

- A community
- A social process designed to bring together different stakeholders who moved the standards forward together
- Weaving the best of People and Data



Librarians ahead of our time

- The new norms can happen extremely fast
 - "Data Scientist" anyone?



Part 2

"New paradigm: library data can be found using Semantic Web search engines—library data can be found outside of libraries!"

–Allison Jai O'Dell "On BIBFRAME Interfaces: The Application of Linked Data in Libraries" Medium. July 11, 2014

The new platform

The Web is increasingly becoming the most pervasive data management and integration platform ever imagined

By exposing library assets in a way the web understands, we gain all the benefits of this platform

Most of the Web is...

- Pages and links
- Designed for direct human consumption
- Simple linking ("points at")
- Data is hidden



Headline Subheadline Italics

Link1 Link2 Link3

Link4

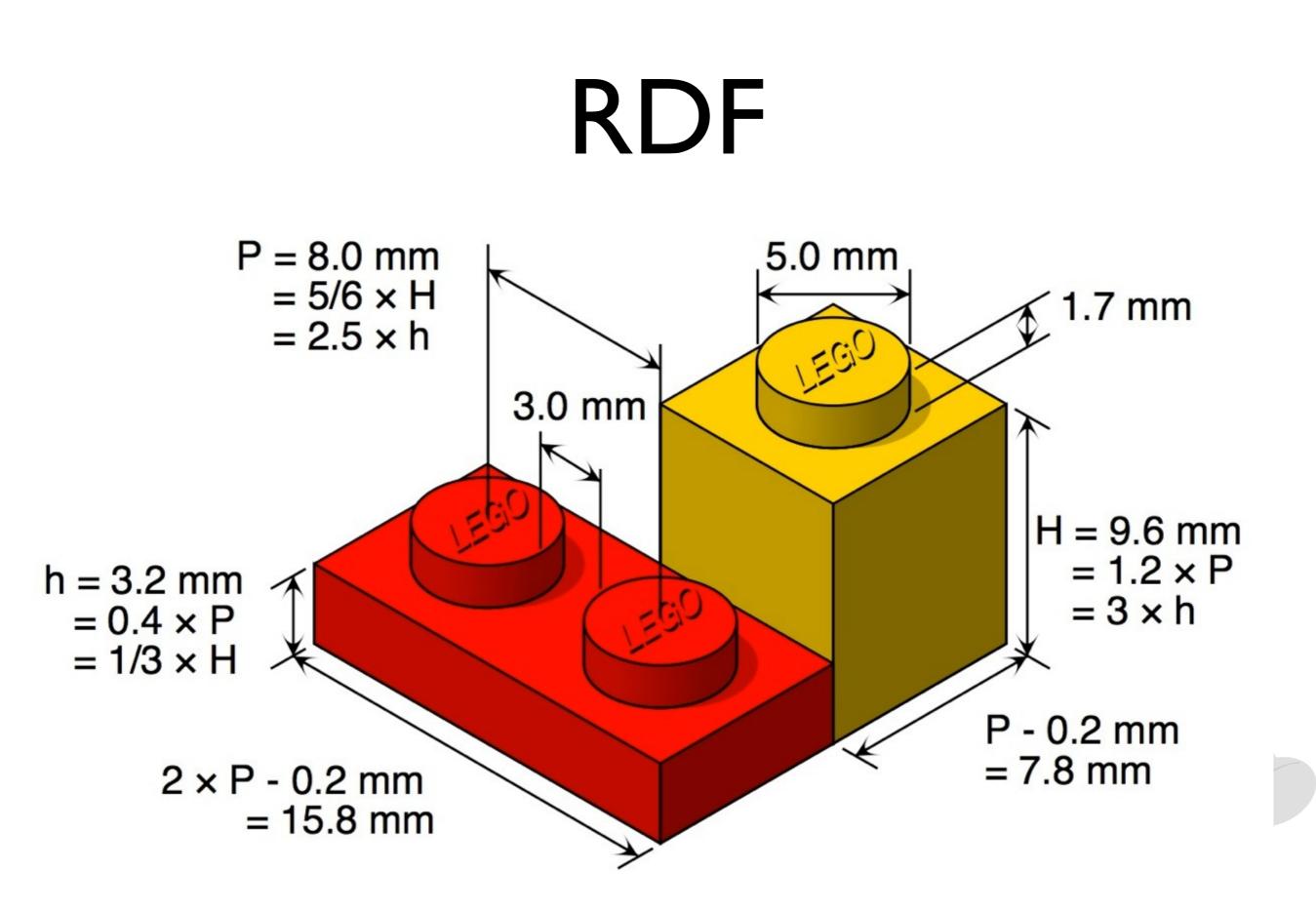
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Article Content Article Content

Tag1 Tag2 Tag3

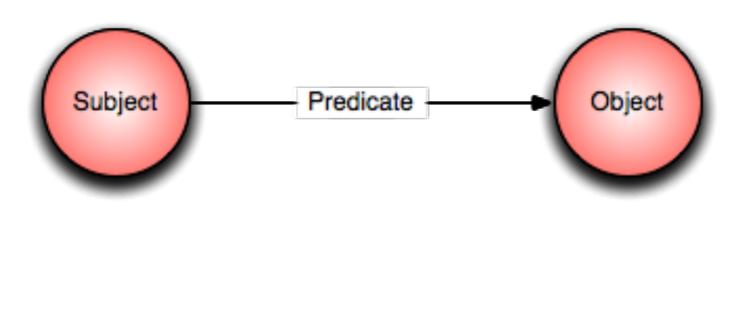
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A significant gap between what browsers and humans see



Resource Description Framework

Common Model for creating Web Data

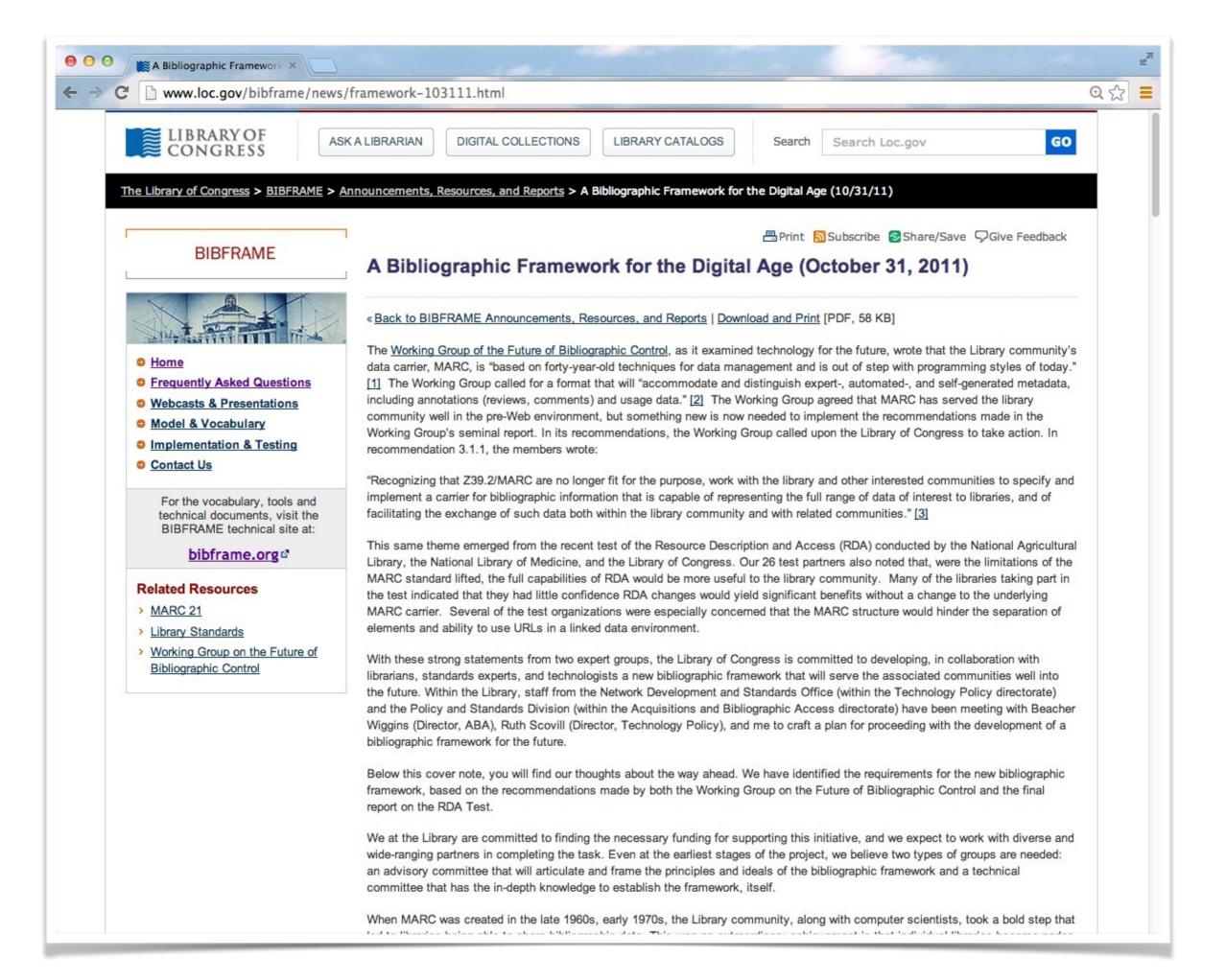


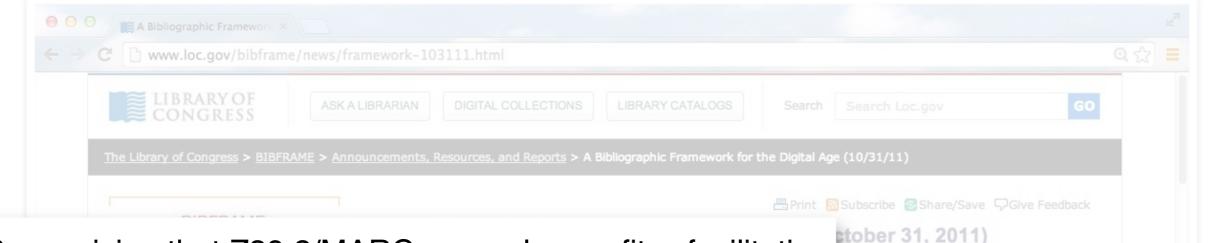


Linked Data

"a term used to describe a recommended best practice for exposing, **Sharing**, and **Connecting** pieces of **data**, information, and knowledge on the Semantic **Web** using **URIS** and RDF."

http://en.wikipedia.org/wiki/Linked_Data





"Recognizing that Z39.2/MARC are no longer fit ...facilitating the exchange of such [bibliographic] data both within the library community and with related communities."

Model & Vocabulary

Implementation & Testing

bibframe.org

[PDF, 58 KB]

or the future, wrote that the Library community's out of step with programming styles of today." ert-, automated-, and self-generated metadata, preed that MARC has served the library

mmunity well in the pre-Web environment, but something new is now needed to implement the recommendations made in the orking Group's seminal report. In its recommendations, the Working Group called upon the Library of Congress to take action. In commendation 3.1.1, the members wrote:

"The new bibliographic framework project will be focused on the Web environment, Linked Data principles and mechanisms, and the Resource Description Framework (RDF) as a basic data model. ... Likewise, it is expected that the use of RDF and other W3C (World Wide Web Consortium) developments will enable the integration of library data and other cultural heritage data on the Web for more expansive user access to information."

We at the Library are committed to finding the necessary funding for supporting this initiative, and we expect to work with diverse and wide-ranging partners in completing the task. Even at the earliest stages of the project, we believe two types of groups are needed: an advisory committee that will articulate and frame the principles and ideals of the bibliographic framework and a technical committee that has the in-depth knowledge to establish the framework, itself.

When MARC was created in the late 1960s, early 1970s, the Library community, along with computer scientists, took a bold step that ed to libraries being able to share bibliographic data. This was an extraordinary achievement in that individual libraries became nodes



BIBFRAME

"The Initiative aims to re-envision and, in the long run, implement a new bibliographic environment for libraries that makes "the network" central and makes interconnectedness commonplace."

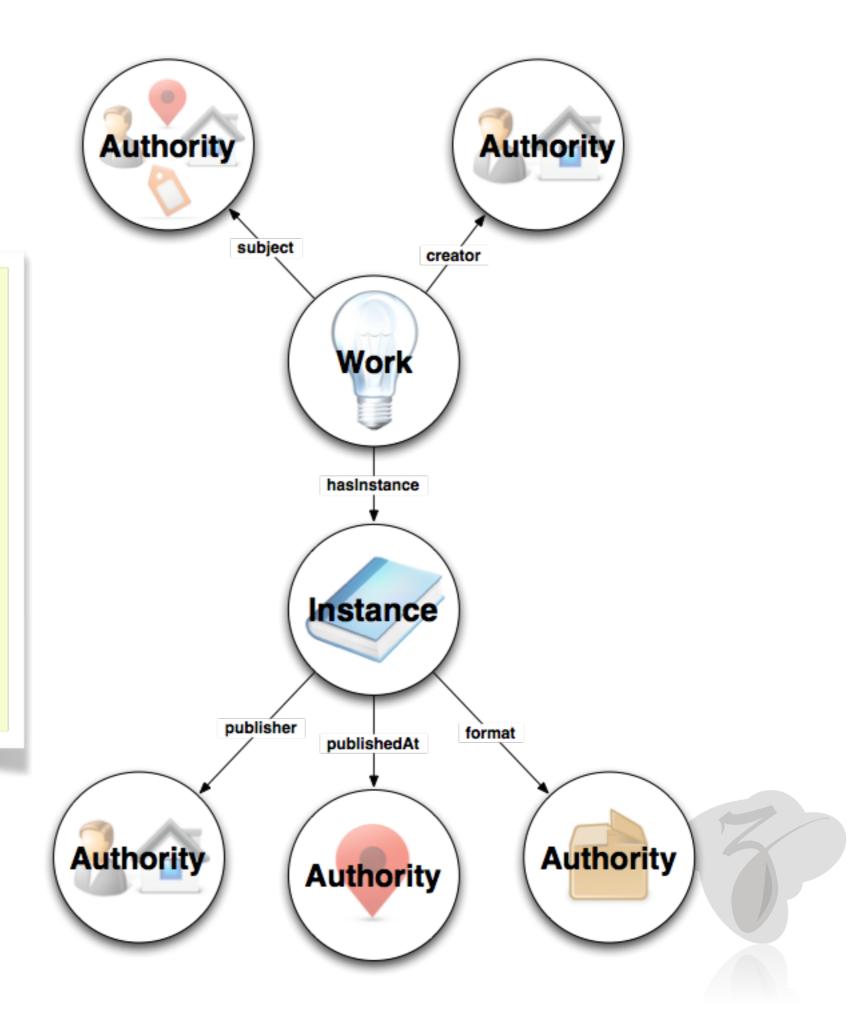
 Bibliographic Framework as a Web of Data: Linked Data Model and Supporting Services, Library of Congress, November 21, 2012 - Prepared by Zepheira

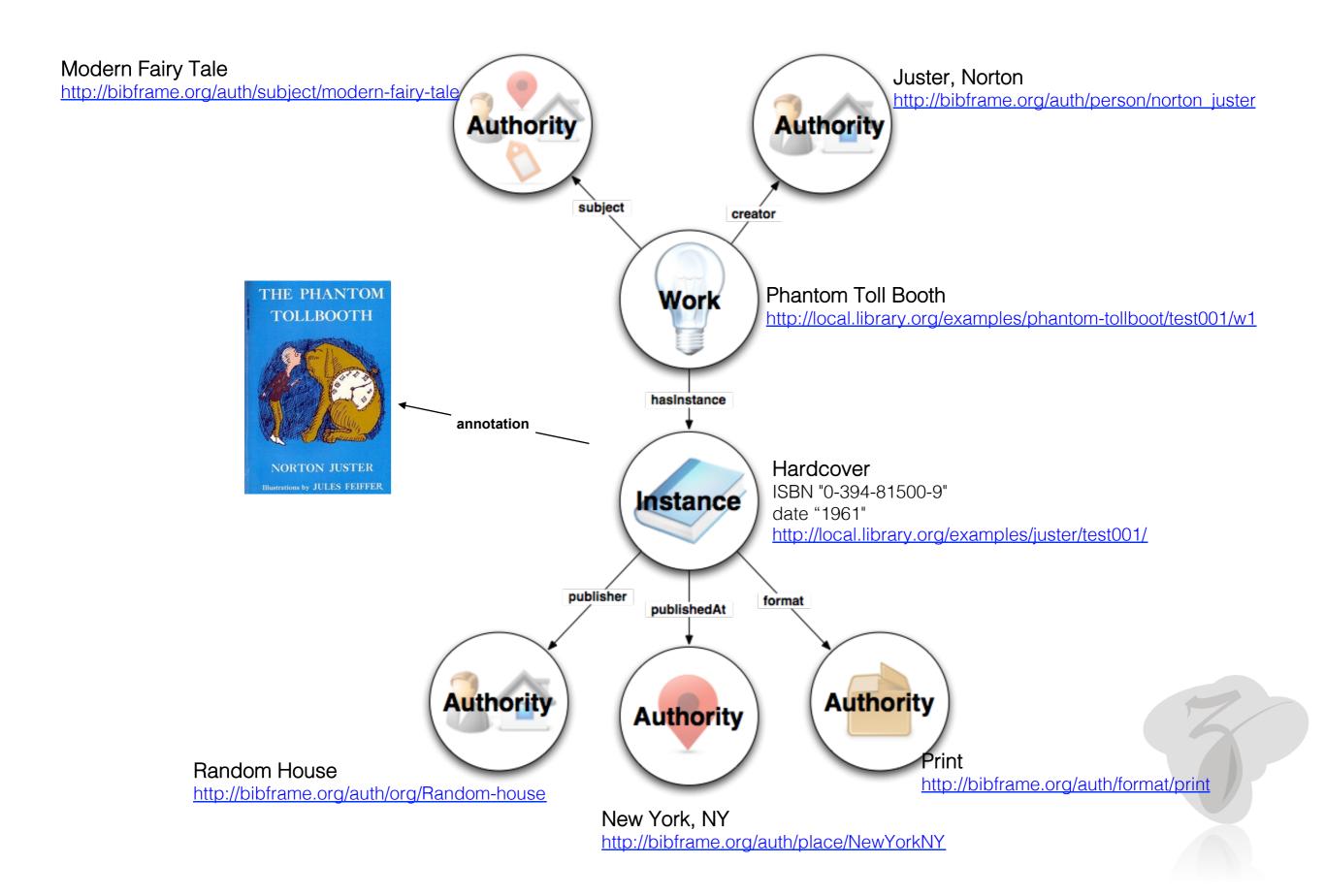
The BIBFRAME Model

- Work Reflect a conceptual essence of the cataloging item
- Instance Reflects the material embodiment of the Work.
- Authority Reflects the key authority concepts that have defined relationships reflected in the Work and Instance.
- Annotation decorates other BIBFRAME resources with additional information.

BIBFRAME

Core model for defining Web control points for more effective sharing, navigation and collaboration



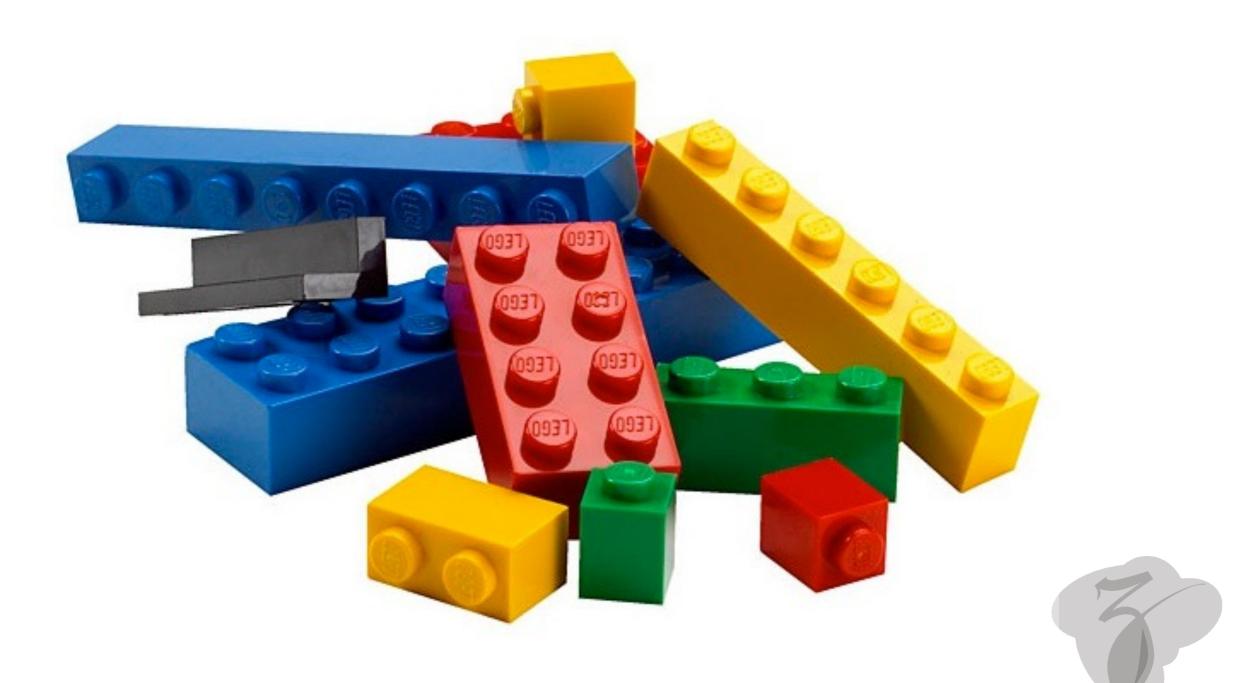


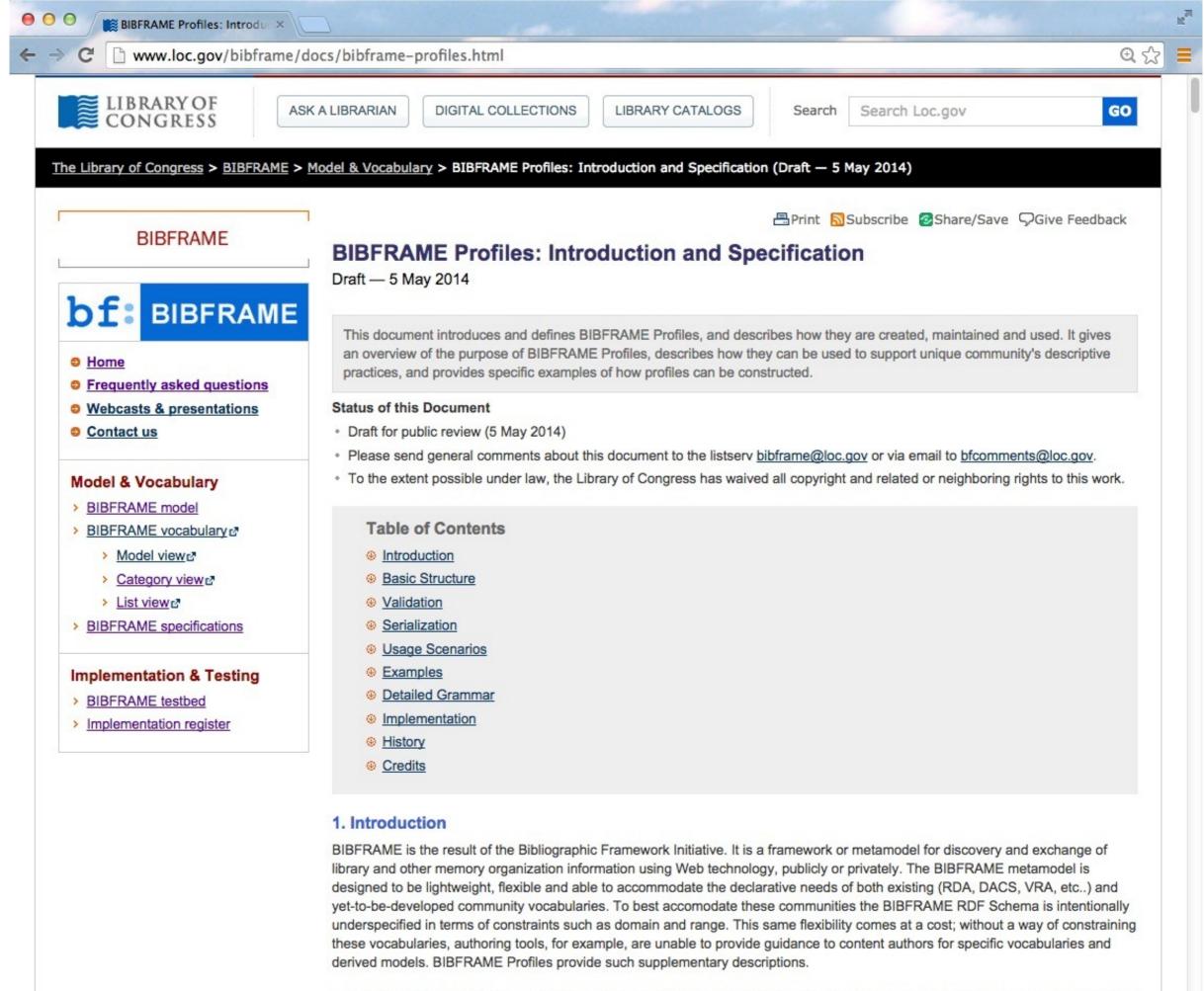
Not all about the "BIB"

- Initial focus on Bibliographic Data
- Quick to see benefits in non-bibliographic data (music, visual resources)
- Communities can define BIBFRAME Profiles to meet their data needs
- Anything can be modeled in BIBFRAME



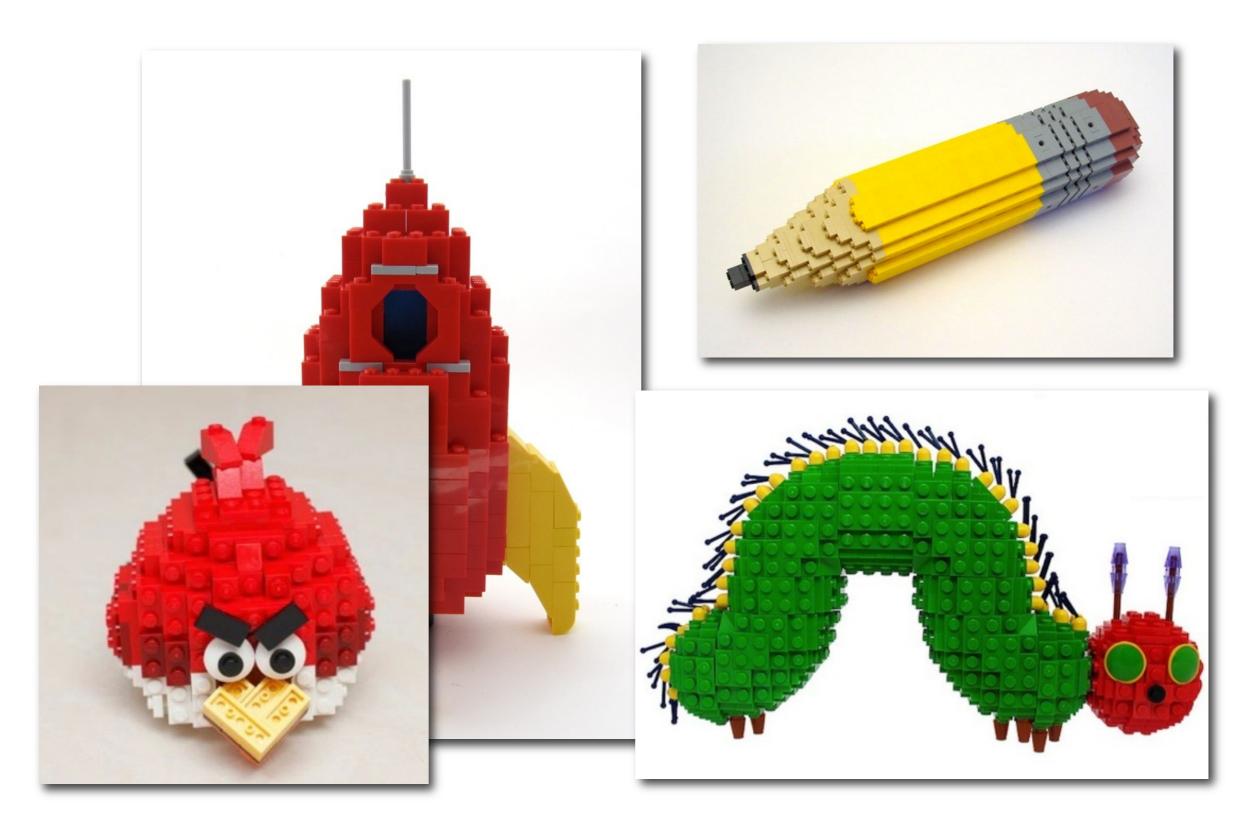




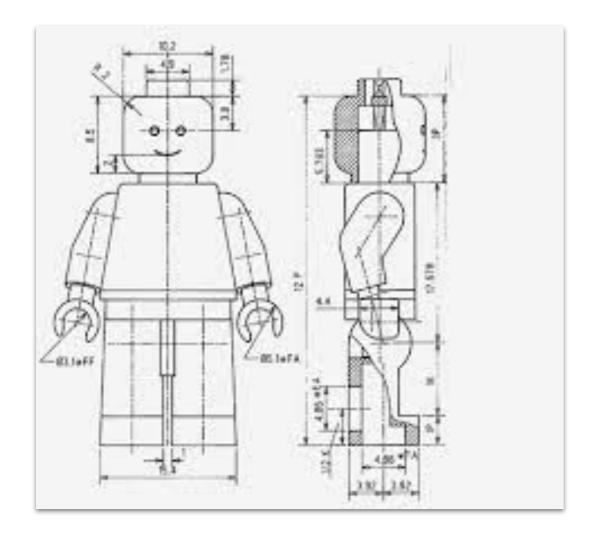


A BIBFRAME Profile is a document, or set of documents, that puts a Profile (e.g. local cataloging practices) into a broader context of

Profiles



Small is Beautiful

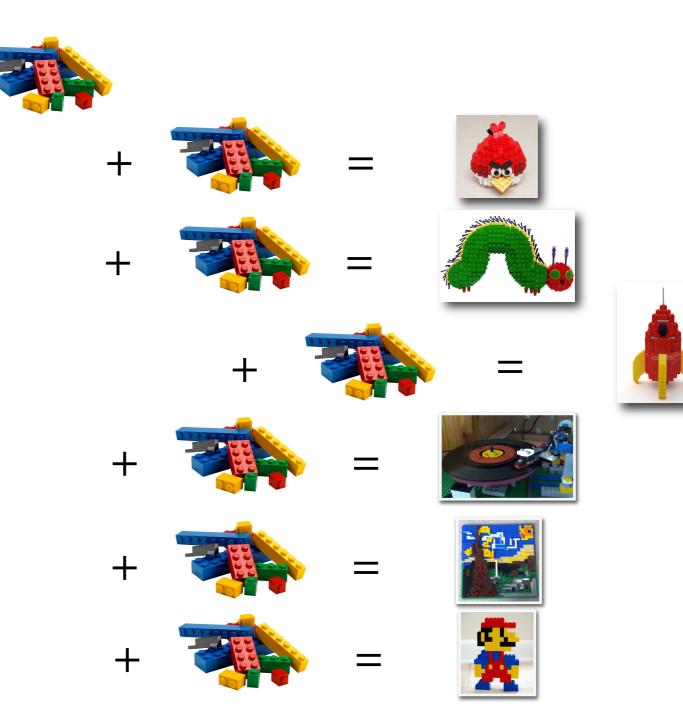


- BIBFRAME common model

 flexible, designed to
 accommodate the needs of
 our community.
- Recognize creative tension between past and future
- Profiles are a blueprint for a specific community or entity description

Combining Profiles

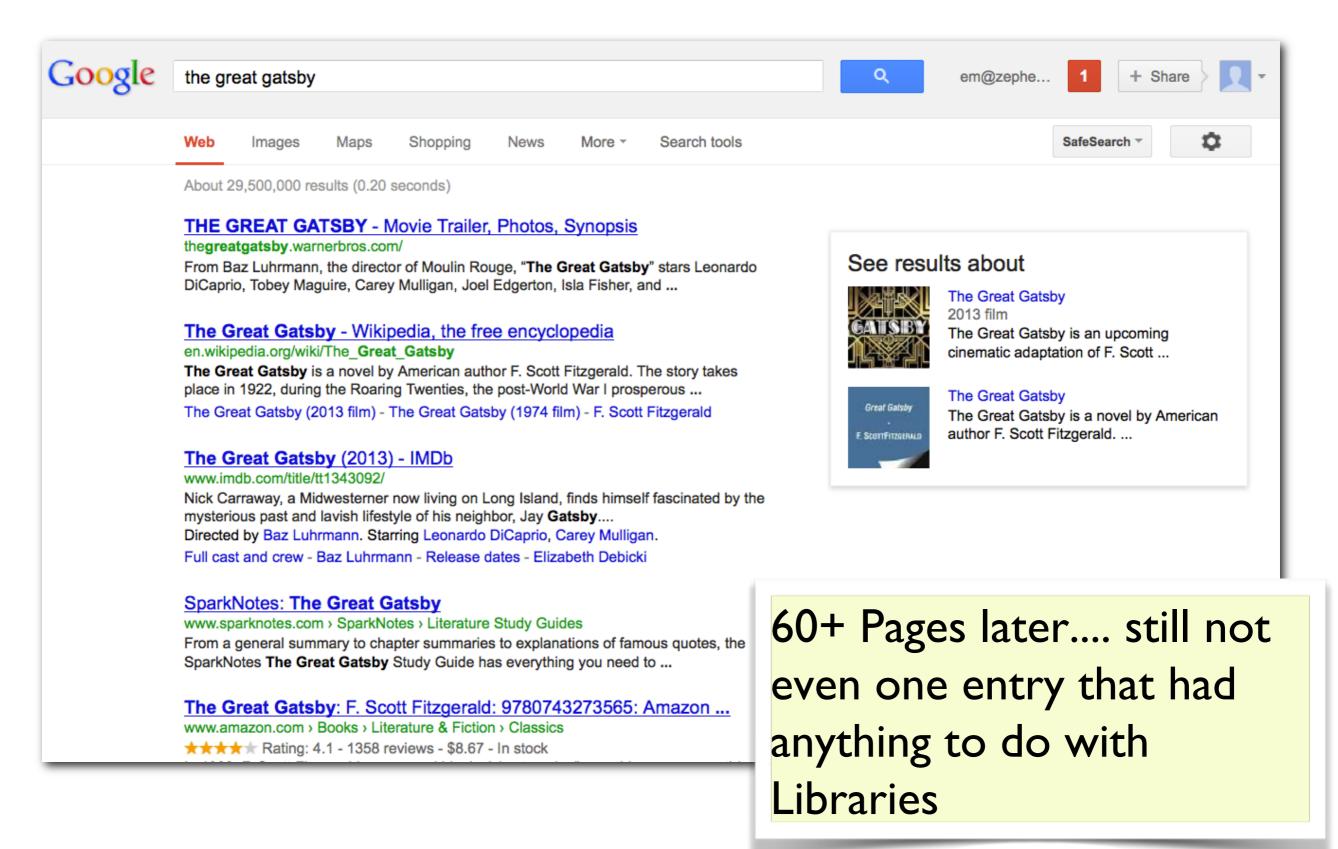
- BIBFRAME Lite
 - Series
 - Monograph
 - RBMS
 - A/V (Music)
 - VRA
 - ISAD(G)

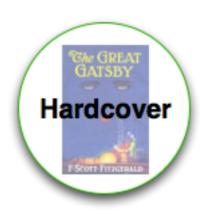


Part 3

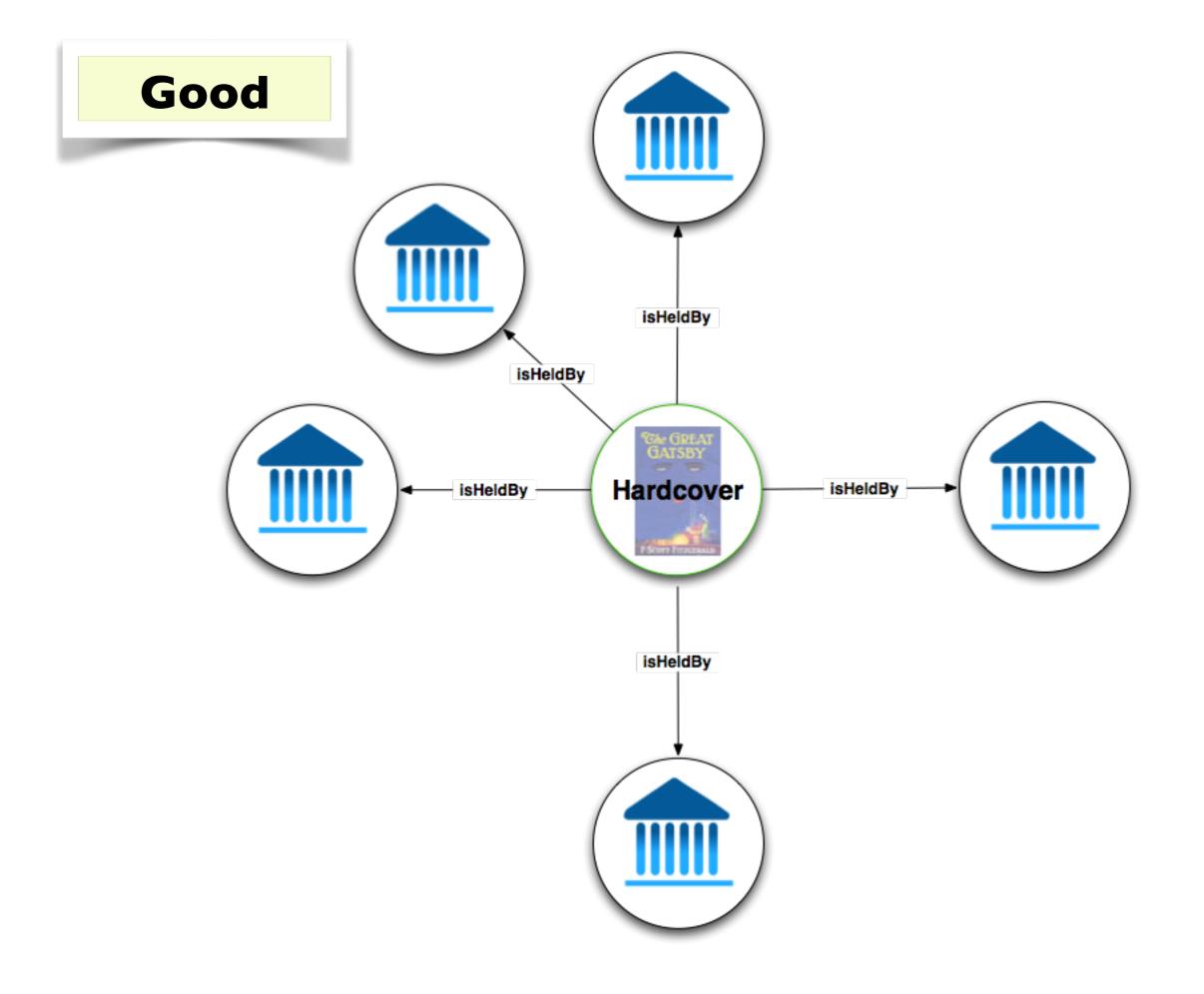
"The best way to predict your future is to write it." -Abraham Lincoln

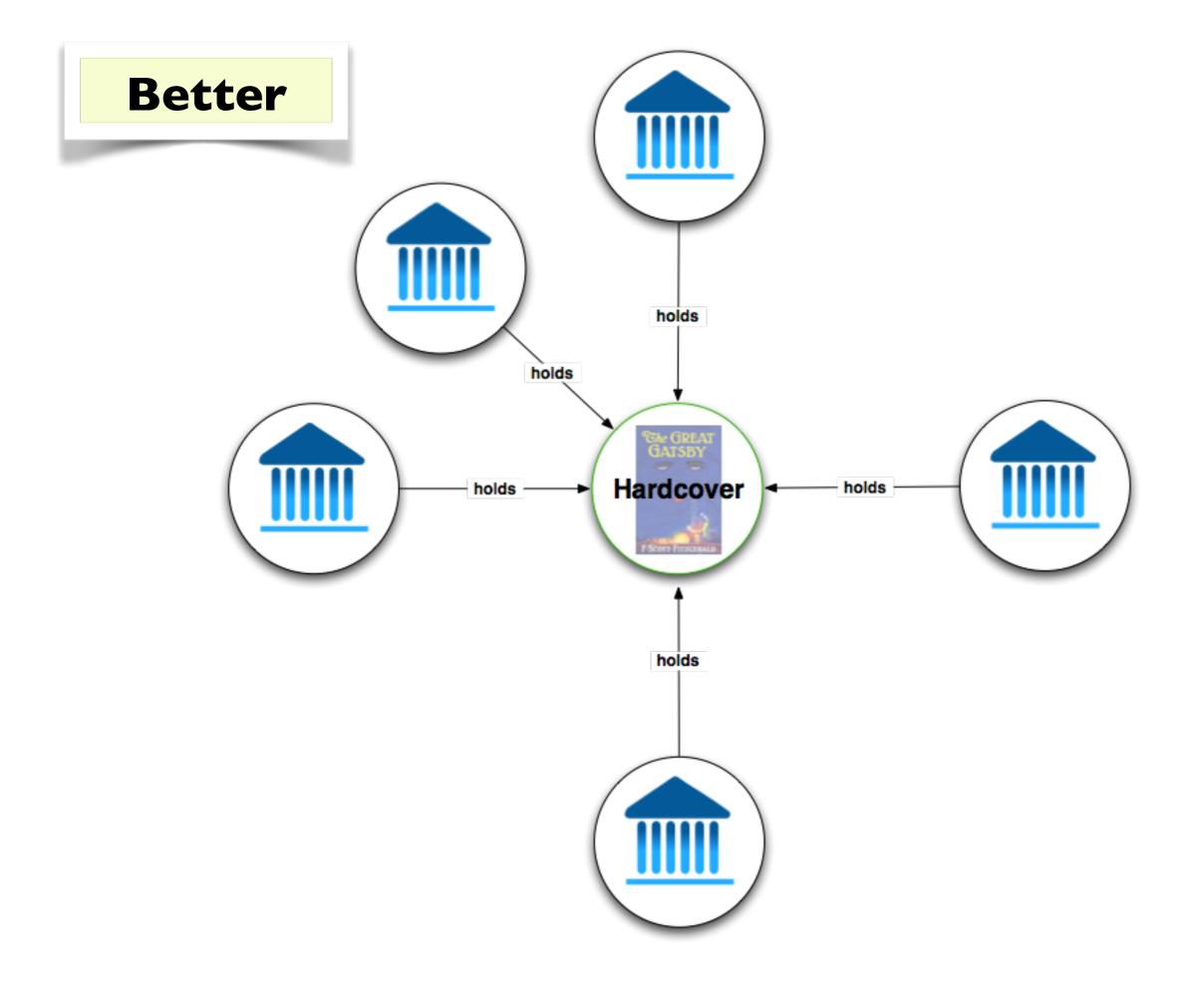
This is the now

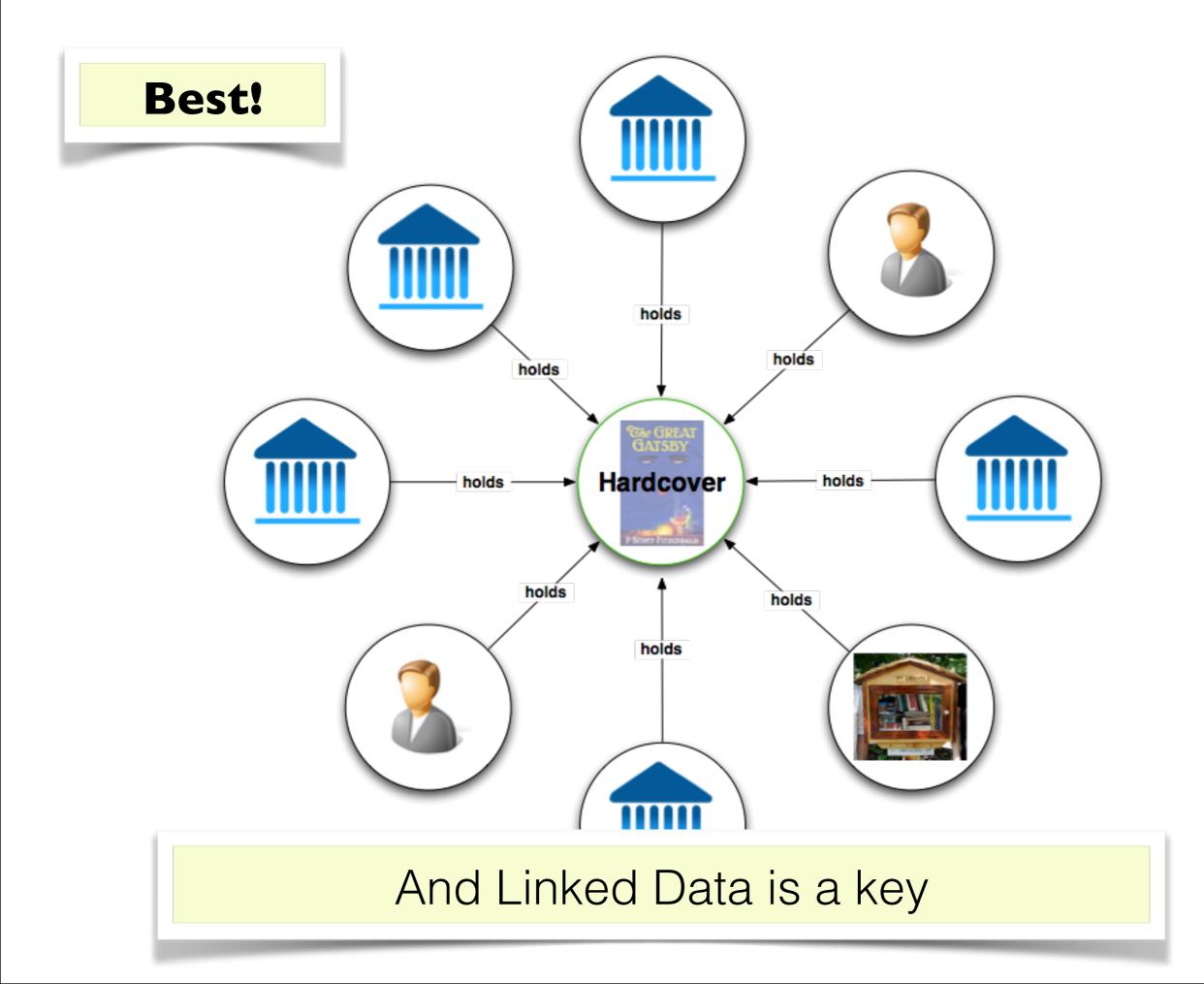




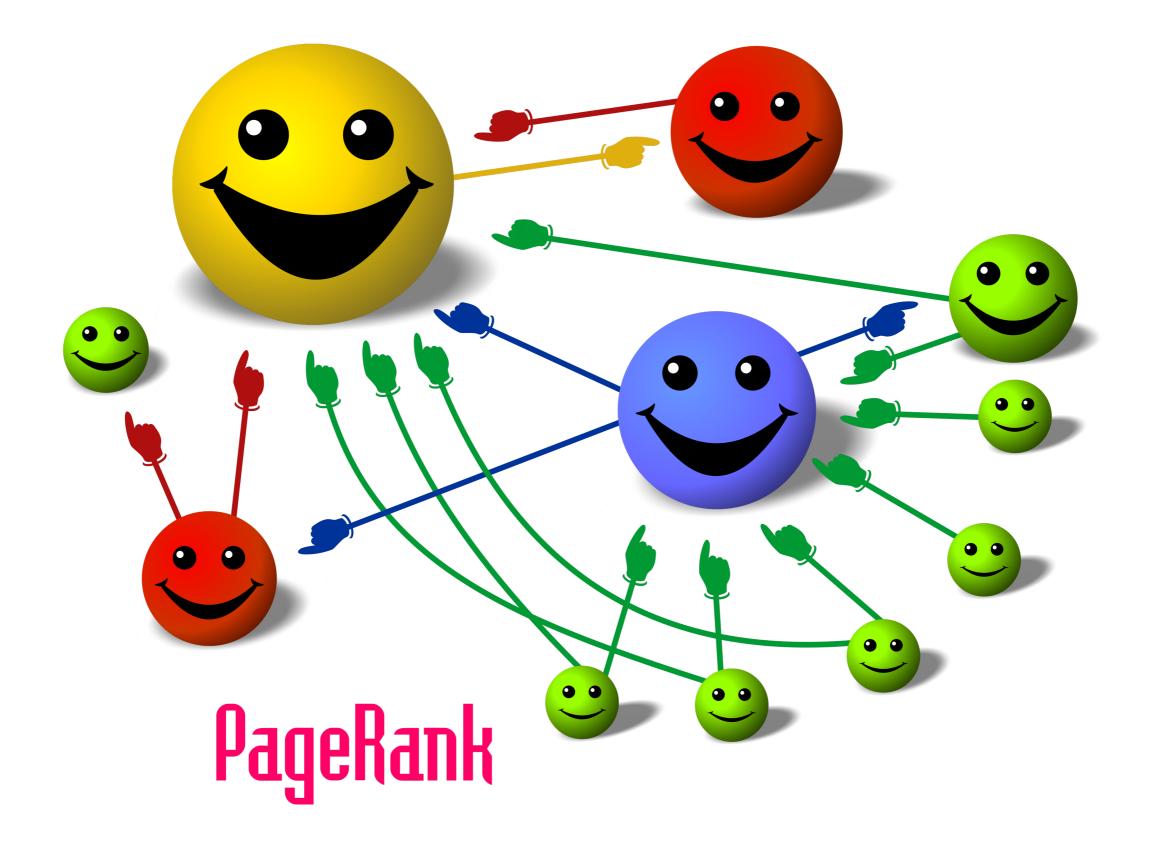
This is what a search engine harvester sees. Unconnected data results in poor page rank.







A link is worth a 1000 words



"Let's increase the Web visibility of all libraries"





Learning, Leading, Linking

- Libraries have spent a considerable amount of time, energy and effort to describe knowledge assets
- BIBFRAME is about reflecting these knowledge assets in the Web
- Building off the cooperative infrastructure the Web provides
- Accelerating the cooperative nature Libraries do better than any market

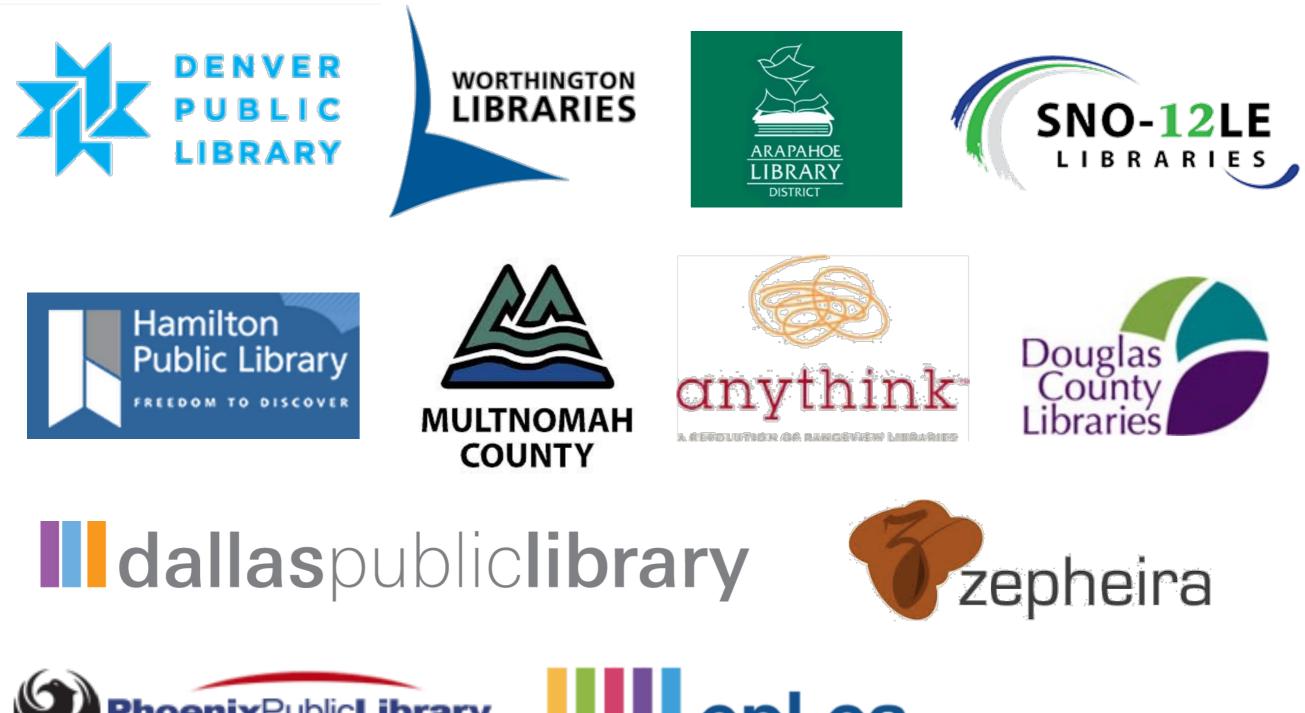
What's Involved

- 1. Make it *extremely* easy to project Library data to Linked Data (BIBFRAME)
- 2. Visibility publish this to the Web in a way the Web understands
- Increased discovery accelerate Linking among / across assets

You can www.libhub.org

- As individual "take the pledge"
- As library get involved
 - Early Adopter
 - Attend Linked Data/BIBFRAME Training

Learning though action together



epi.ca Edmonton Public Library

What can you do today?

- Re-think your role in making Memory organizations become the credibility engines for the Web
- Learn about linked data standards <u>schema.org</u> and BIBFRAME
- Participate in Libhub to help weave the best of the Web and Libraries together

Thank you

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