

DCMI @ 20

Past, Present, Future

#DCMI14

Austin, Texas USA

October 9, 2014

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[@erimille](https://www.linkedin.com/in/erimille)



Hi, i'm Eric

- President and Founder of Zepheira
- Former W3C Activity Lead for Semantic Web
- MIT Research Scientist
- Founder and Associate Director, Dublin Core Metadata Initiative
- Senior Scientist at OCLC



A Talk in 3 Parts

Act I

The Past

CERN DD/OC

Information Management: A Proposal

Tim Berners-Lee, CERN/DD

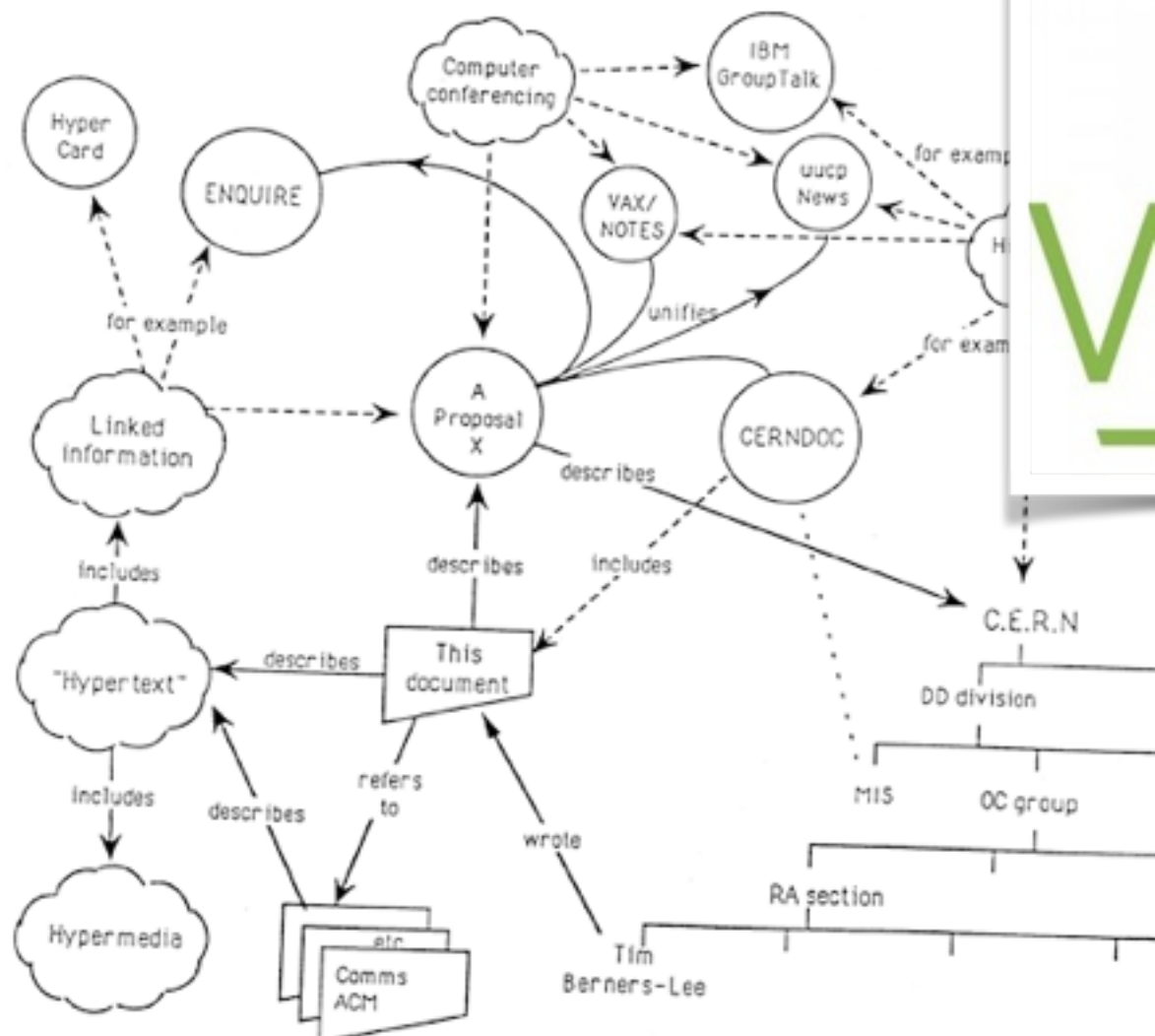
March 1989

Information Management: A Proposal

Abstract

This proposal concerns the management of general information about accelerators and experiments at CERN. It discusses the problems of loss of information about complex evolving systems and derives a solution based on a distributed hypertext system.

Keywords: Hypertext, Computer conferencing, Document retrieval, Information management, control



A hallway conversation 20 years ago...





1980's

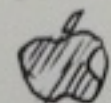
R.V. Guha

Cyc

Tim Berners-Lee
The World-Wide Web

1990's

R.V. Guha



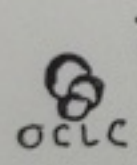
MCF
Metadata

Content



RDFS
XML

Don Brickley
R.V. Guha



Stu Weibel / OCLC

Dublin
Core

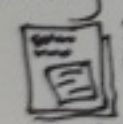
DCMI

Eve Miller

2000's

FOAF

Don Brickley



Semantic
Web

Tim Berners-Lee

W3C

SKOS

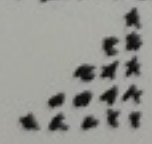
OWL

W3C

"A Web
of Things"
IETF/W3C

Linked
Data

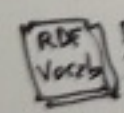
Tim Berners-Lee



cool URIs
://

LCSH.info

Ed Summers



Best
Practices

BIBO

2010's

FRSAD

BL Data Model

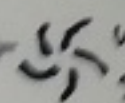
BIBFRAME

MADS/RDF

RDA

W3C Library
Linked Data
Incubator Group

NISO Web

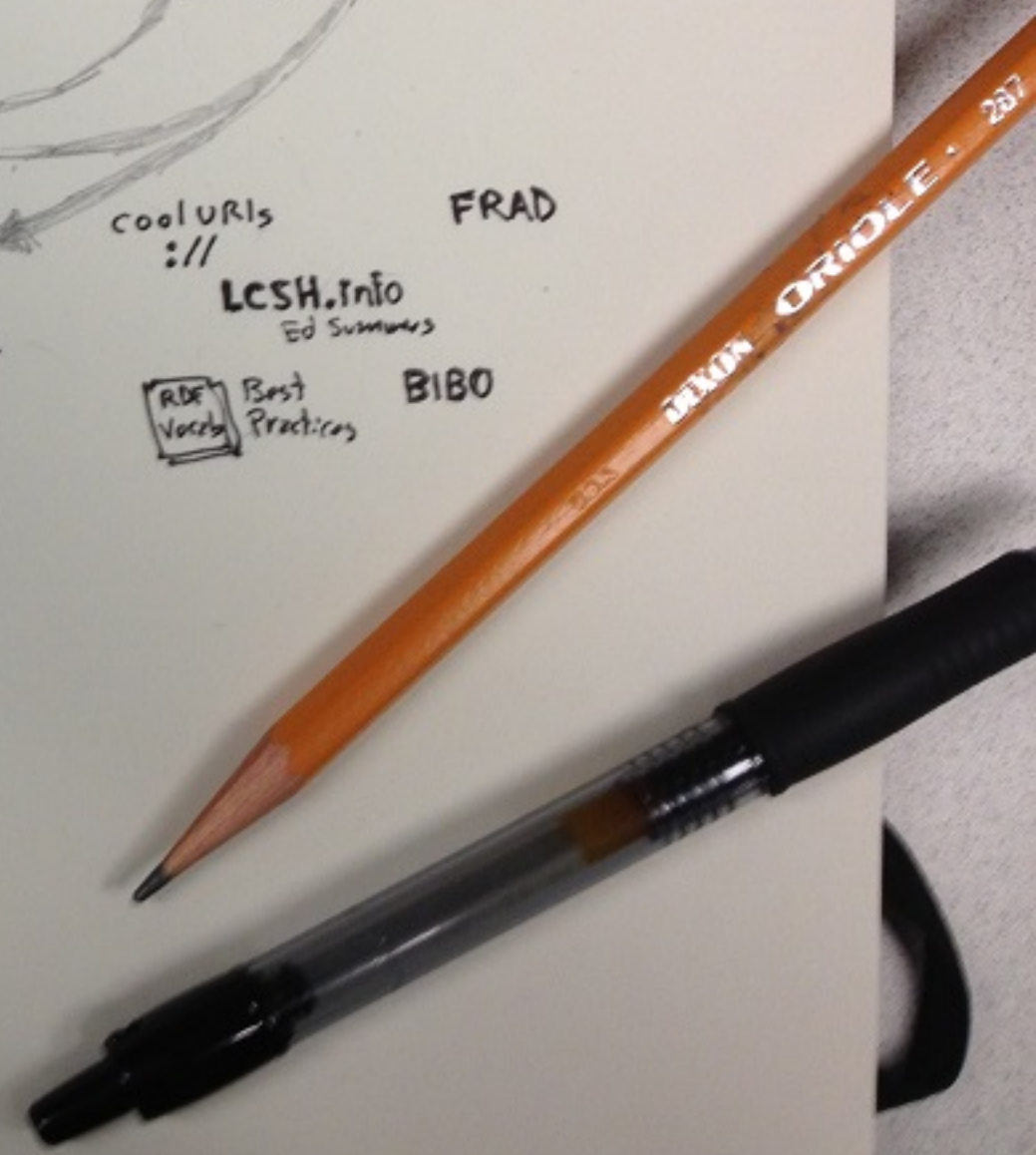


WorldCat
uses
Schemas

Schema
org

Web Schemas

Schema
Bib Edition



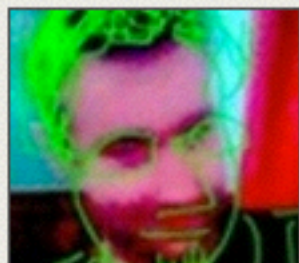
Raise your hand if...

- “Geeks, Freaks and People with Sensible Shoes”
- Warwick Framework
- “Dumb Down” rule
- “The Cambridge Communiqué”
- “The Finnish Finish”
- “1:1 principle”
- “Strings to Things”
- Application Profiles



2 Kinds of Pragmatism

- *'Simple vocabulary semantics' pragmatism*
 - "We don't want to spend lots of time building complex, un-tested, universal frameworks that allow all kinds of data to be mixed. Instead, let's make some useful and easily understood, technology-neutral metadata definitions and simple ways to publish it in HTML".
- *'One vocabulary can't cover it all' pragmatism*
 - "Whatever we do, it will be hard to meet all needs for multimedia, education, geo, rights, classification etc. Therefore let's find ways of mixing simple Dublin Core with vocabularies created by others."
- I think of these as "*Stu-pragmatism*" and "*Eric-pragmatism*", in honour of Stu Weibel and Eric Miller's early DC leadership, and their shared concern for keeping Dublin Core simple, mainstream and useful to many communities. Much of DC history comes from the interplay between these forms of DC pragmatism.



"What is left to do?", Dublin Core 2012 Keynote

by [Dan Brickley](#) , Other at FOAF project, SpyPixel Ltd., misc.
on Sep 17, 2012

“make the simple things simple and
the complex things possible”



Not a Product, but a Community

- A community
 - A social process designed to bring together different stakeholders,
- Weaving the best of People, Data and the Web together





Ahead of our time

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



Building on our strengths

- Social, community, process driven
- Applying these in areas that benefit the metadata industry
- Application Profiles 
- Linked Data Patterns 



Act 2

The Present



The 90's called.... they'd like their slides back



We live in exciting times

Purpose

The Web is the most successful platform ever conceived for sharing information and services



We live in exciting times

Promise

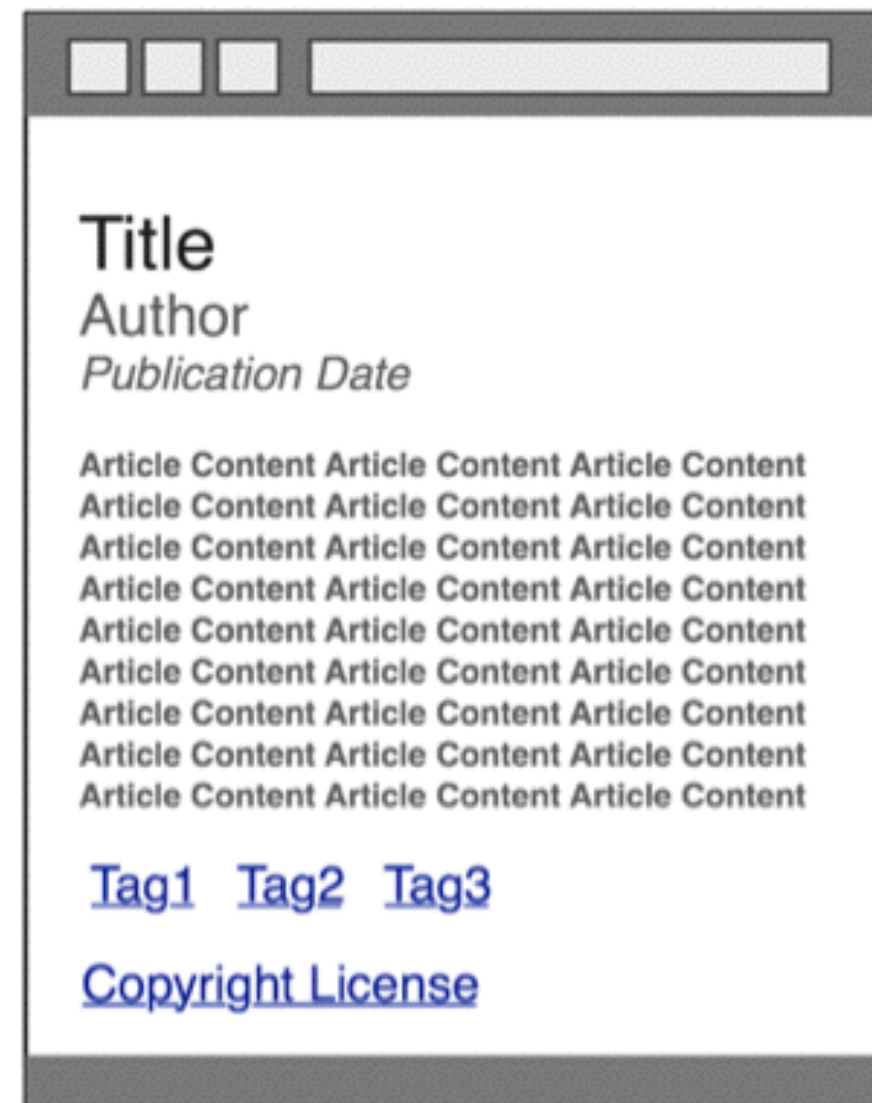
The Web is increasingly becoming
the most pervasive data
management and integration
platform ever imagined



Most of the Web is...

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





A significant gap between what browsers and humans see





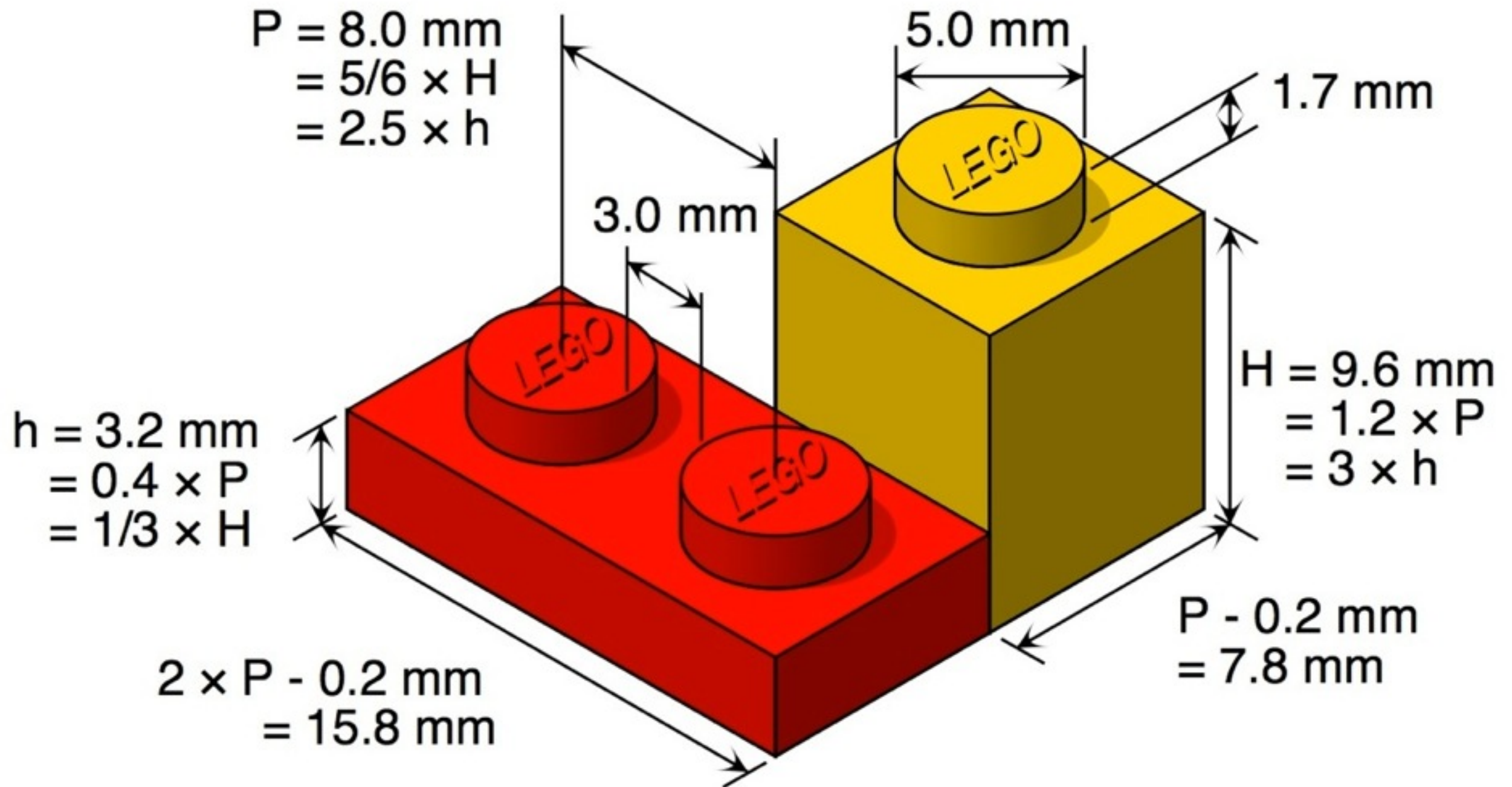
- Human readable



- Machine readable

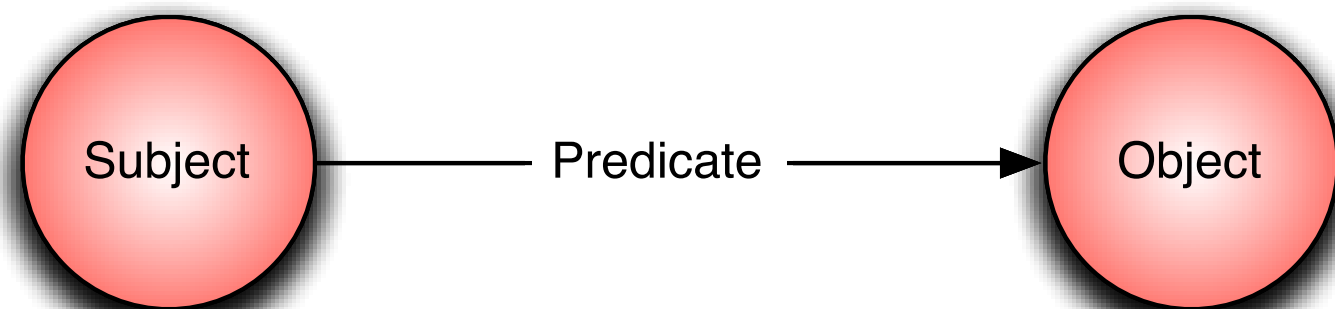


RDF



Resource Description Framework

Common Model for creating Web Data



The Power of Human Computing





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

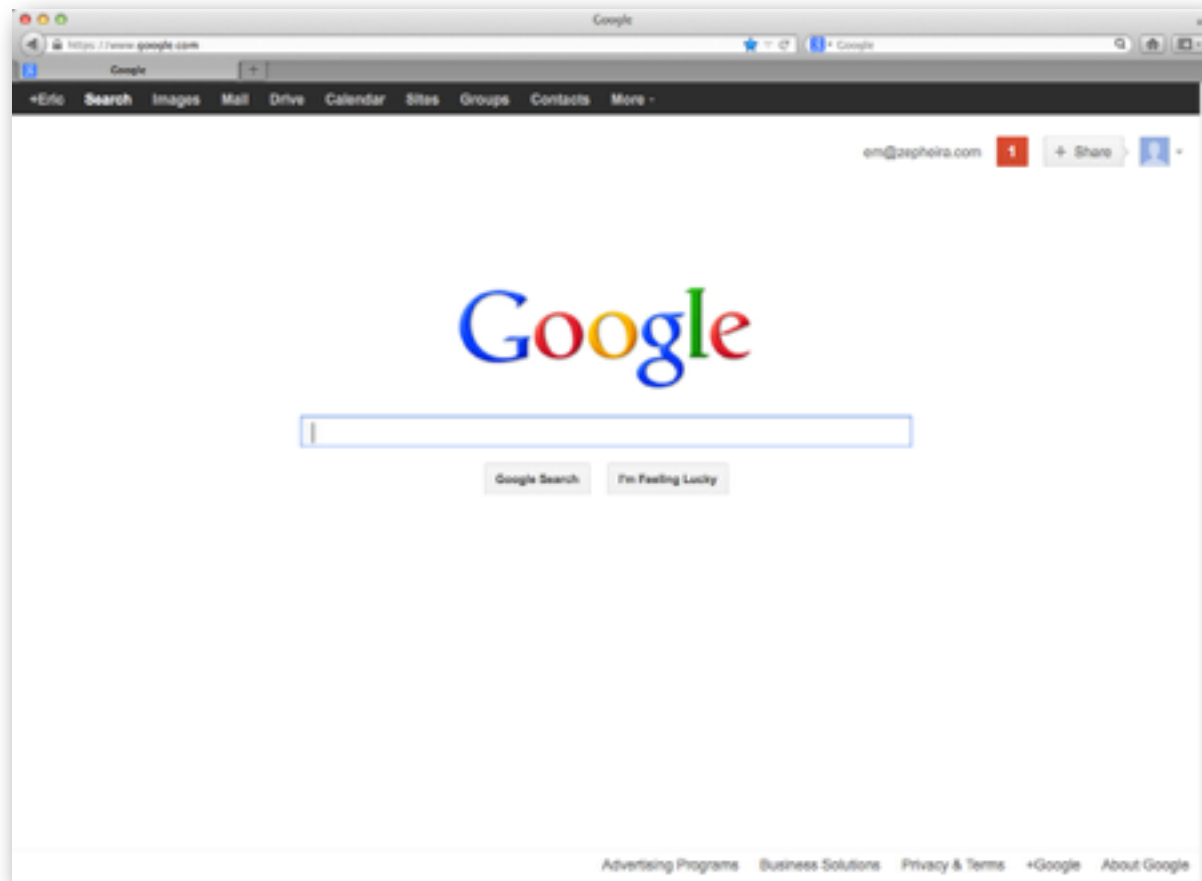


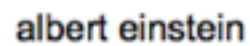
A tale of two Webs

- The Visible Web
- The Invisible web

The Visible Web

Web Search and Discovery





1

Search tools

>>

What is Schema.org?

This site provides a collection of schemas, i.e., html tags, that webmasters can use to markup their pages in ways recognized by major search providers. Search engines including Bing, Google, Yahoo! and Yandex rely on this markup to improve the display of search results, making it easier for people to find the right web pages.

Many sites are generated from structured data, which is often stored in databases. When this data is formatted into HTML, it becomes very difficult to recover the original structured data. Many applications, especially search engines, can benefit greatly from direct access to this structured data. On-page markup enables search engines to understand the information on web pages and provide richer search results in order to make it easier for users to find relevant information on the web. Markup can also enable new tools and applications that make use of the structure.

A shared markup vocabulary makes it easier for webmasters to decide on a markup schema and get the maximum benefit for their efforts. So, in the spirit of sitemaps.org, search engines have come together to provide a shared collection of schemas that webmasters can use.

We invite you to [get started!](#)

View our blog at blog.schema.org.

Introducing Graph Search

https://www.facebook.com/about/graphsearch

Google

Disable Cookies CSS Forms Images Information Miscellaneous Outline Resize Tools View Source Options

Introducing Graph Search


facebook

Search for people, places and things

Eric Miller Find Friends Home

Introducing Graph Search

Restaurants in London my friends have been to



Princi London

Restaurant · Cafe · \$ (0-10) · ★★★★★

Gint Woss

 was here · Gint has been friends with you since October


135, Wardour Street, London, United Kingdom

8:00am – 12:00 am

3,354 like this

Like

Map



Las Iguanas Royal Festival Hall.

Restaurant · Latin American Restaurant · \$\$ (10-30) · ★★★★★

Jonathan Chang

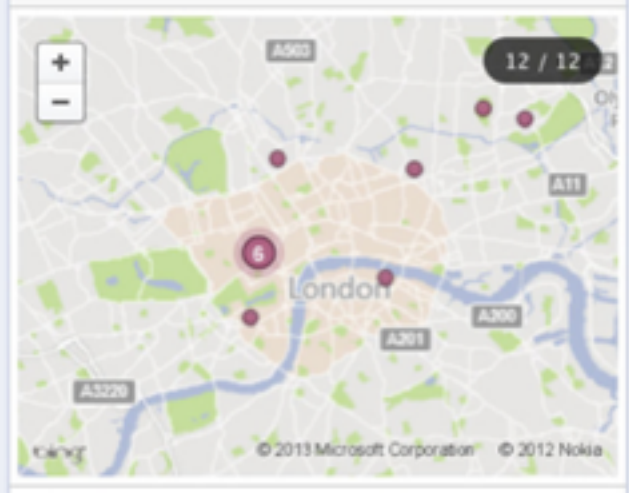
 was here · Jonathan has been friends with you since July

Festival Terrace, South Bank Centre, Belvedere Road, London, United Kin...

12:00 pm – 1:00 am

325 like this

16 Places



REFINE THIS SEARCH

Discover restaurants, music and more

Explore new places to eat and new bands to listen to—all through people you know.

Chat (9)

Identifier Wars

The image displays two overlapping web browser windows. The background window is a Facebook profile for Albert Einstein, showing a cover photo of a galaxy, a profile picture of Einstein, and various engagement metrics like 30,064,550 likes. The foreground window is a Google search results page for 'albert einstein', featuring a grid of image results, a list of news articles, and a detailed knowledge panel on the right side with biographical information and a list of related figures.

Facebook Profile: Albert Einstein

Public Figure
Official Facebook of the world's favorite Genius.

10m Likes

Albert Einstein shared a link via The Next Einstein. June 3

5 days left to enter the contest.

The Next Einstein

Searching for the next Einsteins Contest 2014
thenexteinstein.com

Searching for the Next Einstein 2014. Share your idea on how to improve the world and you could...

1 Friend Likes Albert Einstein

Invite Your Friends to Like This Page

Type a friend's name...

James J. Whitney

Masine Collier Ryal

Google Search Results: albert einstein

About 14,300,000 results (0.22 seconds)

Albert Einstein | Albert Einstein Official Site
einstein.biz/ +
Albert Einstein official Web Site and Fan Club, featuring biography, photos, trivia, rights representation, licensing, contact and more.

Albert Einstein - Wikipedia, the free encyclopedia
en.wikipedia.org/wiki/Albert_Einstein + Wikipedia +
Albert Einstein was a German-born theoretical physicist. He developed the general theory of relativity, one of the two pillars of modern physics (alongside ...
Hans Albert Einstein · Eduard Einstein · Family · Elsa Einstein

News for albert einstein

Albert Einstein: Challenging Thinking 60 Years After Death
The Inquirer · by Karl Lant · 47 minutes ago
Albert Einstein's ingenious insights were scientific. His amazing ability to predict the behavior of the natural world did not spill over into his ...

New Book Conveys Engineering Contributions of Einstein's ...
University of Wyoming News · 17 hours ago

Einstein in Love: Letters Illuminate Genius' Dark Side
Discovery News · 16 hours ago

More news for albert einstein

Albert Einstein - Biographical - Nobelprize.org
www.nobelprize.org/nobel_prizes/physics/einstein-bio.htm + Nobel Prize +
Albert Einstein was born at Ulm, in Württemberg, Germany, on March 14, 1879. ...
Later, they moved to Italy and Albert continued his education at Aarau, ...

Albert Einstein Biography - Facts, Birthday, Life Story ...
www.biography.com/.../albe... + The Biography Channel +
Biography.com offers a glimpse into the life of Albert Einstein, the most influential physicist of the 20th century ...

Albert Einstein
Theoretical Physicist

Albert Einstein was a German-born theoretical physicist. He developed the general theory of relativity, one of the two pillars of modern physics. He is best known for his mass-energy equivalence formula $E = mc^2$.
Wikipedia

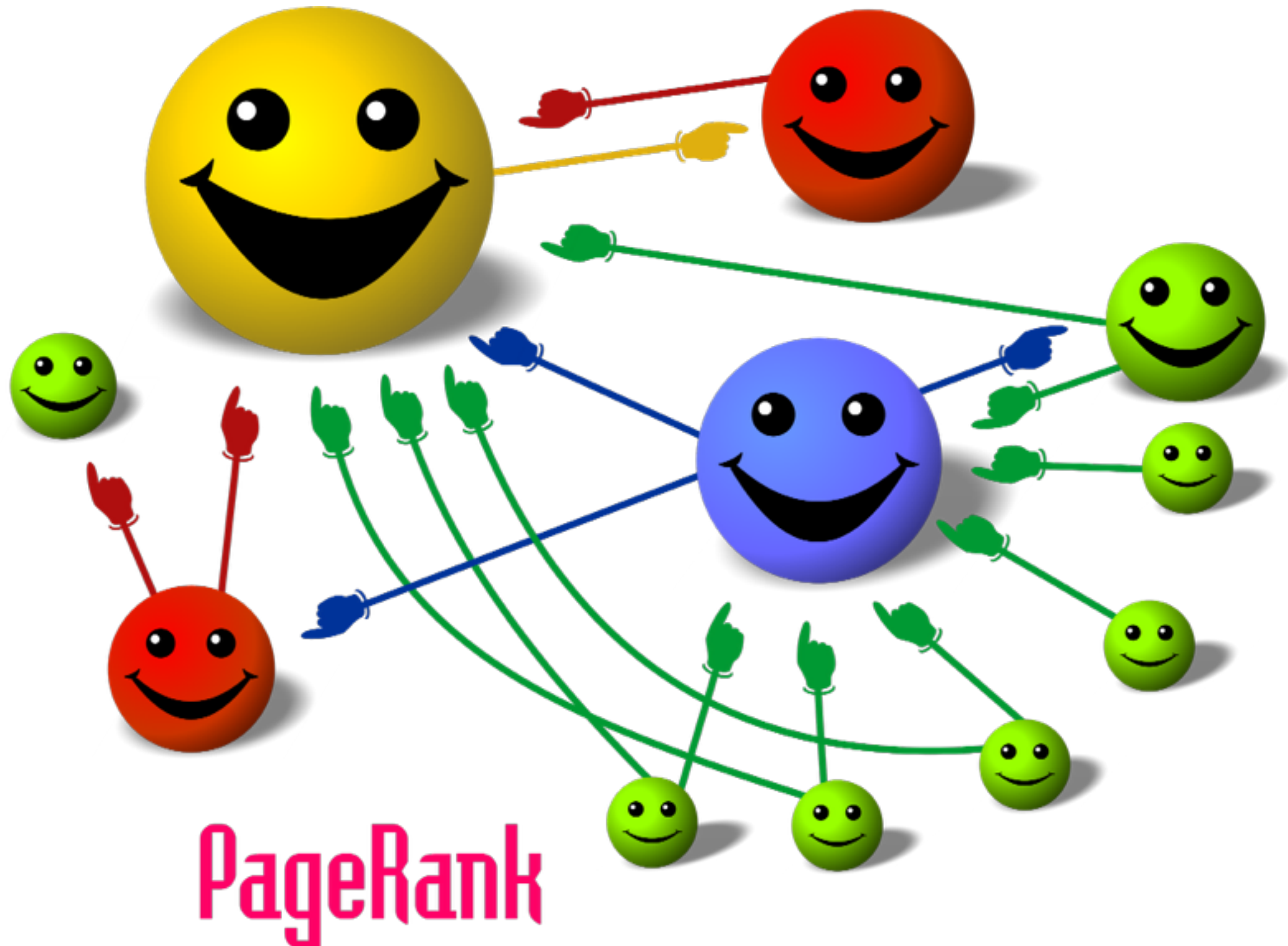
Born: March 14, 1879, Ulm, Germany
Died: April 18, 1955, Princeton, NJ
Spouse: Elsa Einstein (m. 1919–1936), Mileva Marić (m. 1903–1919)
Children: Eduard Einstein, Hans Albert Einstein, Lieserl Einstein, Margot Löwenthal, Ilse Löwenthal
Education: University of Zurich (1905), More
Awards: Nobel Prize in Physics, Copley Medal, Franklin Medal, More

People also search for View 15+ more

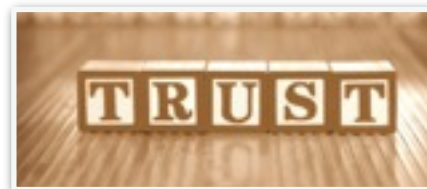
Isaac Newton · Stephen Hawking · Max Planck · Thomas Edison · Galileo Galilei

Feedback

A link is worth a 1000 words



Identifier Landscape



The Invisible Web



A Bibliographic Framework for the Digital Age (October 31, 2011)

[« Back to BIBFRAME Announcements, Resources, and Reports](#) | [Download and Print \[PDF, 58 KB\]](#)

The Working Group of the Future of Bibliographic Control, as it examined technology for the future, wrote that the Library community's data carrier, MARC, is "based on forty-year-old techniques for data management and is out of step with programming styles of today." [1] The Working Group called for a format that will "accommodate and distinguish expert-, automated-, and self-generated metadata, including annotations (reviews, comments) and usage data." [2] The Working Group agreed that MARC has served the library community well in the pre-Web environment, but something new is now needed to implement the recommendations made in the Working Group's seminal report. In its recommendations, the Working Group called upon the Library of Congress to take action. In recommendation 3.1.1, the members wrote:

"Recognizing that Z39.2/MARC are no longer fit for the purpose, work with the library and other interested communities to specify and implement a carrier for bibliographic information that is capable of representing the full range of data of interest to libraries, and of facilitating the exchange of such data both within the library community and with related communities." [3]

This same theme emerged from the recent test of the Resource Description and Access (RDA) conducted by the National Agricultural Library, the National Library of Medicine, and the Library of Congress. Our 26 test partners also noted that, were the limitations of the MARC standard lifted, the full capabilities of RDA would be more useful to the library community. Many of the libraries taking part in the test indicated that they had little confidence RDA changes would yield significant benefits without a change to the underlying MARC carrier. Several of the test organizations were especially concerned that the MARC structure would hinder the separation of elements and ability to use URLs in a linked data environment.

With these strong statements from two expert groups, the Library of Congress is committed to developing, in collaboration with librarians, standards experts, and technologists a new bibliographic framework that will serve the associated communities well into the future. Within the Library, staff from the Network Development and Standards Office (within the Technology Policy directorate) and the Policy and Standards Division (within the Acquisitions and Bibliographic Access directorate) have been meeting with Beacher Wiggins (Director, ABA), Ruth Scovill (Director, Technology Policy), and me to craft a plan for proceeding with the development of a bibliographic framework for the future.

Below this cover note, you will find our thoughts about the way ahead. We have identified the requirements for the new bibliographic framework, based on the recommendations made by both the Working Group on the Future of Bibliographic Control and the final report on the RDA Test.

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 led to libraries being able to share bibliographic data. This was an extraordinary achievement in that individual libraries became nodes

- Home
- Frequently Asked Questions
- Webcasts & Presentations
- Model & Vocabulary
- Implementation & Testing
- Contact Us

For the vocabulary, tools and technical documents, visit the **BIBFRAME** technical site at:

bibframe.org

Related Resources

- MARC 21
- Library Standards
- Working Group on the Future of Bibliographic Control

“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.”

“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.”





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





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.”

- robust enough to deal with 40 years ago
- flexible enough to deal with 40+ years from now





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.”

- memory organization (libraries, museums, archives)
- community / users they server



BIBFRAME

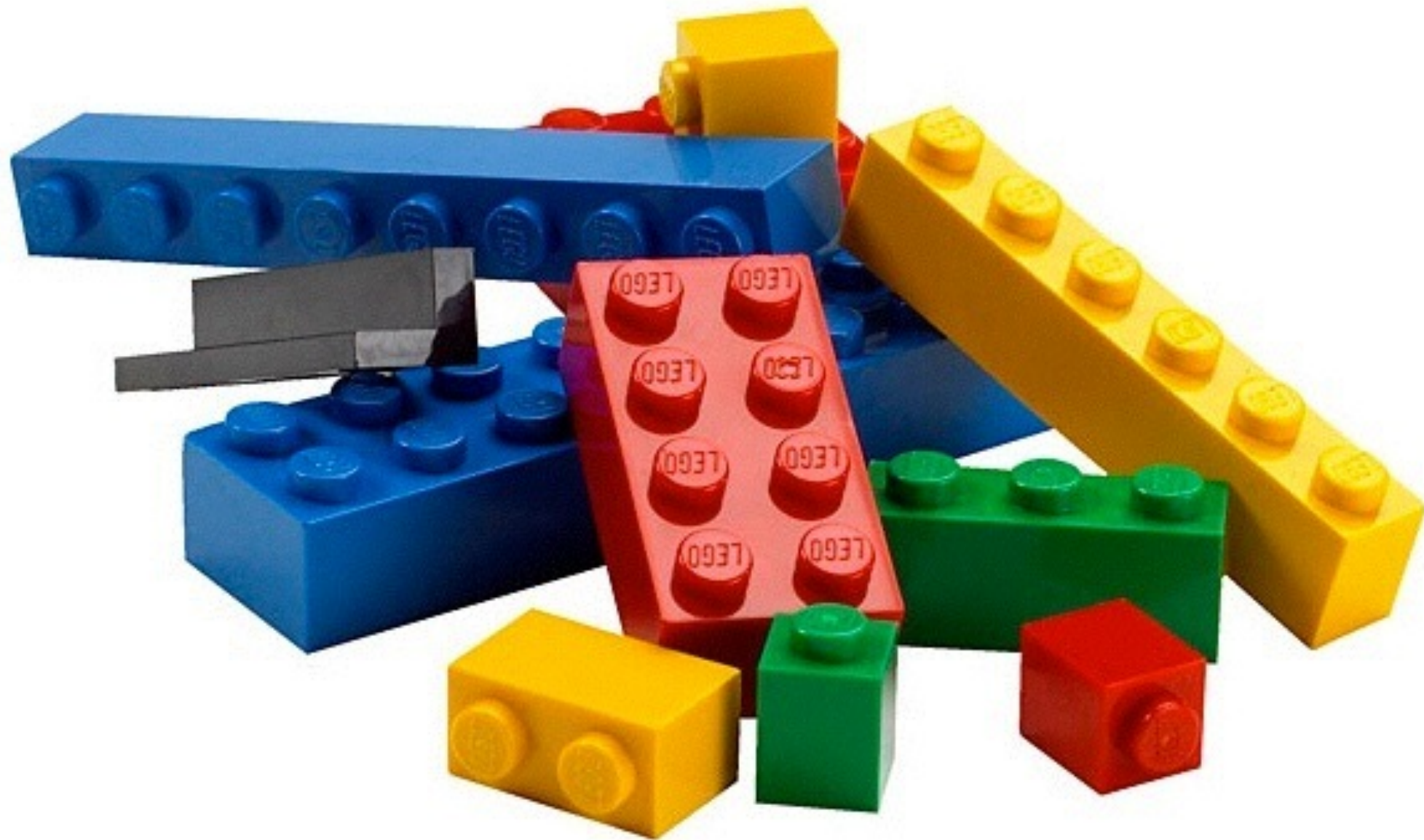
“The Initiative aims to re-envision and, in the long run, implement a new bibliographic environment for libraries that makes “the network” central and makes interconnectedness commonplace.”

- not just on the web
- but of the web





BIBFRAME



BIBFRAME



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

Model & Vocabulary

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

Implementation & Testing

- BIBFRAME testbed
- Implementation register

Print Subscribe Share/Save Give Feedback

BIBFRAME Profiles: Introduction and Specification

Draft — 5 May 2014

This document introduces and defines BIBFRAME Profiles, and describes how they are created, maintained and used. It gives an overview of the purpose of BIBFRAME Profiles, describes how they can be used to support unique community's descriptive practices, and provides specific examples of how profiles can be constructed.

Status of this Document

- Draft for public review (5 May 2014)
- Please send general comments about this document to the listserv bibframe@loc.gov or via email to bfcomments@loc.gov.
- To the extent possible under law, the Library of Congress has waived all copyright and related or neighboring rights to this work.

Table of Contents

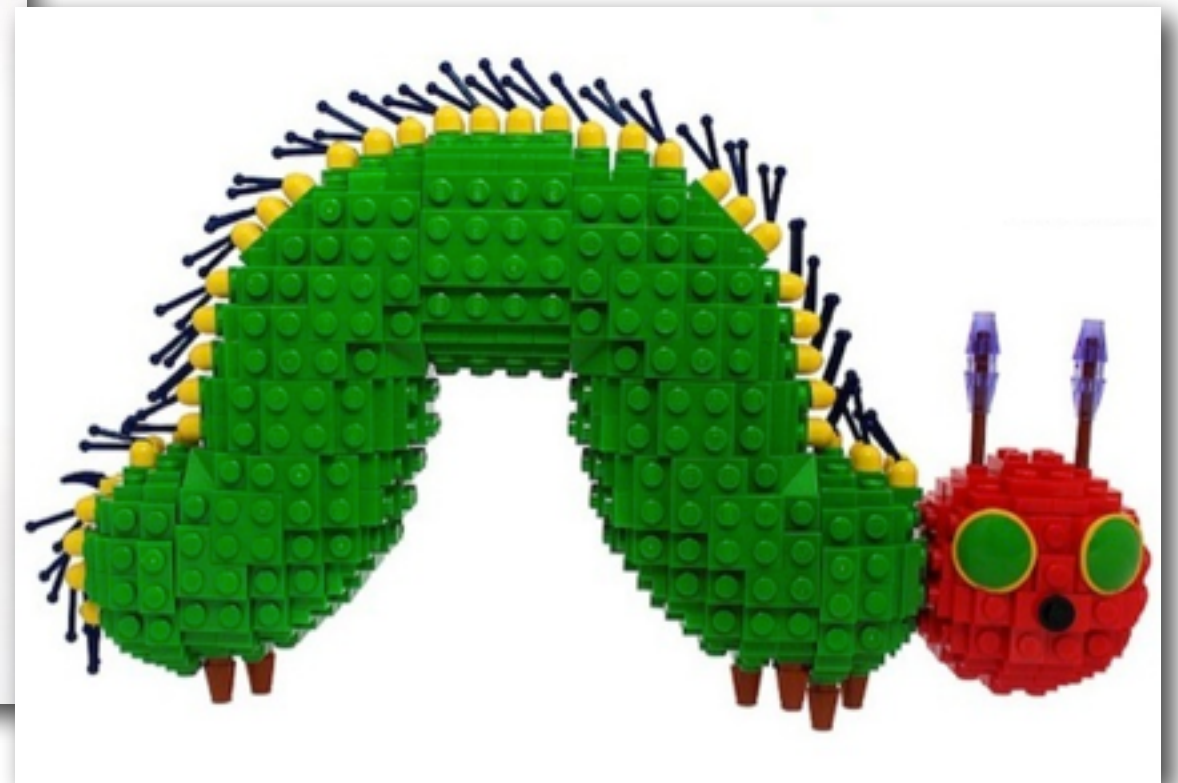
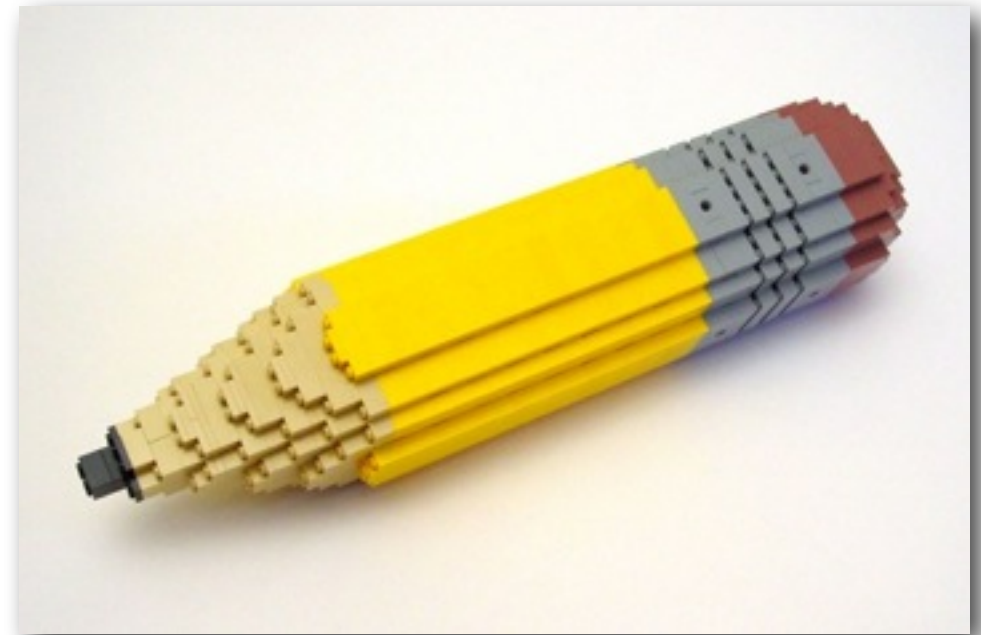
- Introduction
- Basic Structure
- Validation
- Serialization
- Usage Scenarios
- Examples
- Detailed Grammar
- Implementation
- History
- Credits

1. Introduction

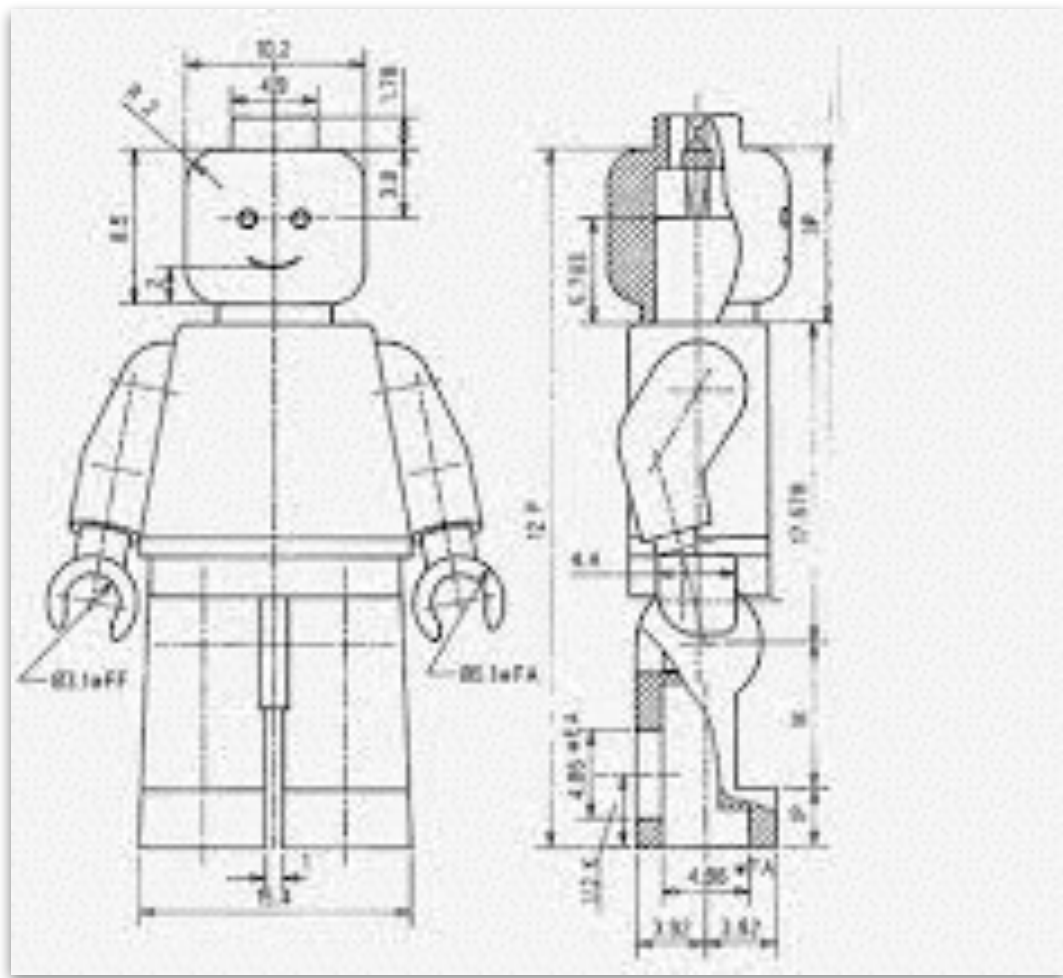
BIBFRAME is the result of the Bibliographic Framework Initiative. It is a framework or metamodel for discovery and exchange of library and other memory organization information using Web technology, publicly or privately. The BIBFRAME metamodel is designed to be lightweight, flexible and able to accommodate the declarative needs of both existing (RDA, DACS, VRA, etc..) and yet-to-be-developed community vocabularies. To best accomodate these communities the BIBFRAME RDF Schema is intentionally underspecified in terms of constraints such as domain and range. This same flexibility comes at a cost; without a way of constraining these vocabularies, authoring tools, for example, are unable to provide guidance to content authors for specific vocabularies and derived models. BIBFRAME Profiles provide such supplementary descriptions.

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



Descriptive Blueprint



- 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

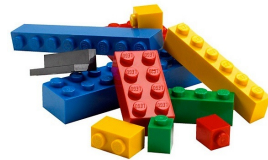
- Monograph

- RBMS

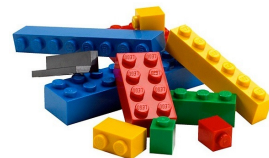
- A/V (Music)

- VRA

- ISAD(G)



+



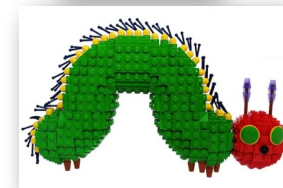
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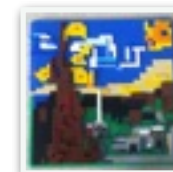
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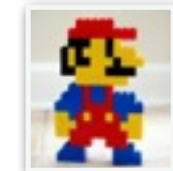
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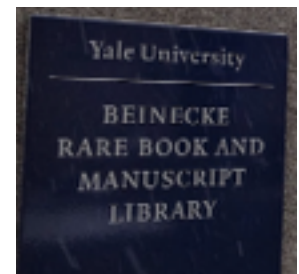


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DCMI Opportunity

- Development of Application Profiles
- Social, community, process driven, neutral environment to help define the shape of vocabularies to support the needs of community practice



As a cornerstone of [Zepheira's Practical Practitioner series](#), we believe participants need to get hands on with their own data. To that end, our training includes access to an introductory set of utilities to guide participants through data import, analysis and end user discovery.

The following MARC diagnostics and [BIBFRAME](#) transformation service is provided to participants of this training curriculum. To get started link to, paste in, or upload a MARC XML file (up to 100 records). Feel free to add a 'title' to the data to help describe what you've uploaded.

Load MARC Data from a URL

[Pasted MARC Text](#)

[Upload MARC File](#)




Title (optional)

URL

Submit URL

[Advanced Settings \(click to learn more\)](#)

Don't have access to a set of MARC records? Here are some examples others have uploaded. Drag or copy the following links to the URL Input form above to transform these records.

-  [George Washington sample collection \(small\)](#)
-  [National Library of Medicine sample collection \(medium\)](#)
-  [George Mason University DVD Backstage sample \(large\)](#)

Zepheira BIBFRAME Linked

←

→

↻

https://linksmith.zepheira.com/training/nlm-sample_1/

☆

☰

Zepheira's Linked Data Training Tool Suite

[0.4.5]

About

Feedback

Logout

NLM Sample

Views

MARC Diagnostics

BIBFRAME Resources

BIBFRAME Works

BIBFRAME Collections

i

f

NLM Sample

Excellent! The transformation and diagnostics process was successful. Feel free to bookmark this page to come back to it in the future. Now that you have, you're ready to begin!

1

To better understand your uploaded data first look at the

i

MARC Field Diagnostics Viewer

2

Now take a look at the

🧪

BIBFRAME Resource Viewer

to help better understand the MARC Records to BIBFRAME Resources transformation process.

3

And finally here is a

⚙️

BIBFRAME Work-focused Navigator

or a

📊

BIBFRAME Collection Navigator

to illustrate how your data might look like in a traditional discovery application.

4

Don't forget to

☁️

Download your RDF BIBFRAME data

5

And since the future direction of these tools rely on your input

💬

Help Shape What Comes Next

☑ Summary

• Processing started on 2014-10-08 at 12:33

193 MARC records converted to 1214 BIBFRAME Resources

☑ Observations

(Example)

• 193 MARC records converted to 1214 BIBFRAME Resources

222 BIBFRAME Resources

☑ Suggestions

(Example)

• Analysis recommends the following profiles are applicable:

Bibliographic



MARC FIELD DIAGNOSTICS VIEWER

GENERATED 2014-10-08 AT 12:33 FROM 193 RECORDS
USING CURRENT PIPELINE VERSION 0.4.5

NLM SAMPLE



127 Fields



Search

sorted by: [count](#); [then by...](#) • ☐ [grouped as sorted](#)

MARC Field Grouping

33 0XX
29 5XX
20 9XX
12 7XX
10 2XX
7 3XX
6 6XX
5 8XX
4 1XX
1 4XX

MARC Field

001
005
006
007
008
010

1. MARC Field 650 : Subject Added Entry - Topical Term 461

650\$a : Topical Term 461
650\$e : Relator term 1
650\$x : General subdivision 161
650\$8 : Field link and sequence number 11
650\$9 2

2. MARC Field 035 : System Control Number 304

035\$a : System control number 110
035\$z : Canceled/invalid control number 13
035\$9 193

3. MARC Field 060 : National Library of Medicine Call Number 264

060\$a : Classification number 264
060\$b : Item number 153



BIBFRAME WORK-FOCUSED NAVIGATOR

GENERATED 2014-10-08 AT 12:33 FROM 193 RECORDS
USING CURRENT PIPELINE VERSION 0.4.5

NLM SAMPLE

Search

Names

Subjects

Genres

180 Works

1.

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Contributor(s) 👤 Kharevin, A. V., ⓘ

Subject(s) 📁 Glavnyi voennyi gospiťal' (Moscow, R.S.F.S.R.) ⓘ
📍 Russia ⓘ
📁 Military Medicine > history ⓘ
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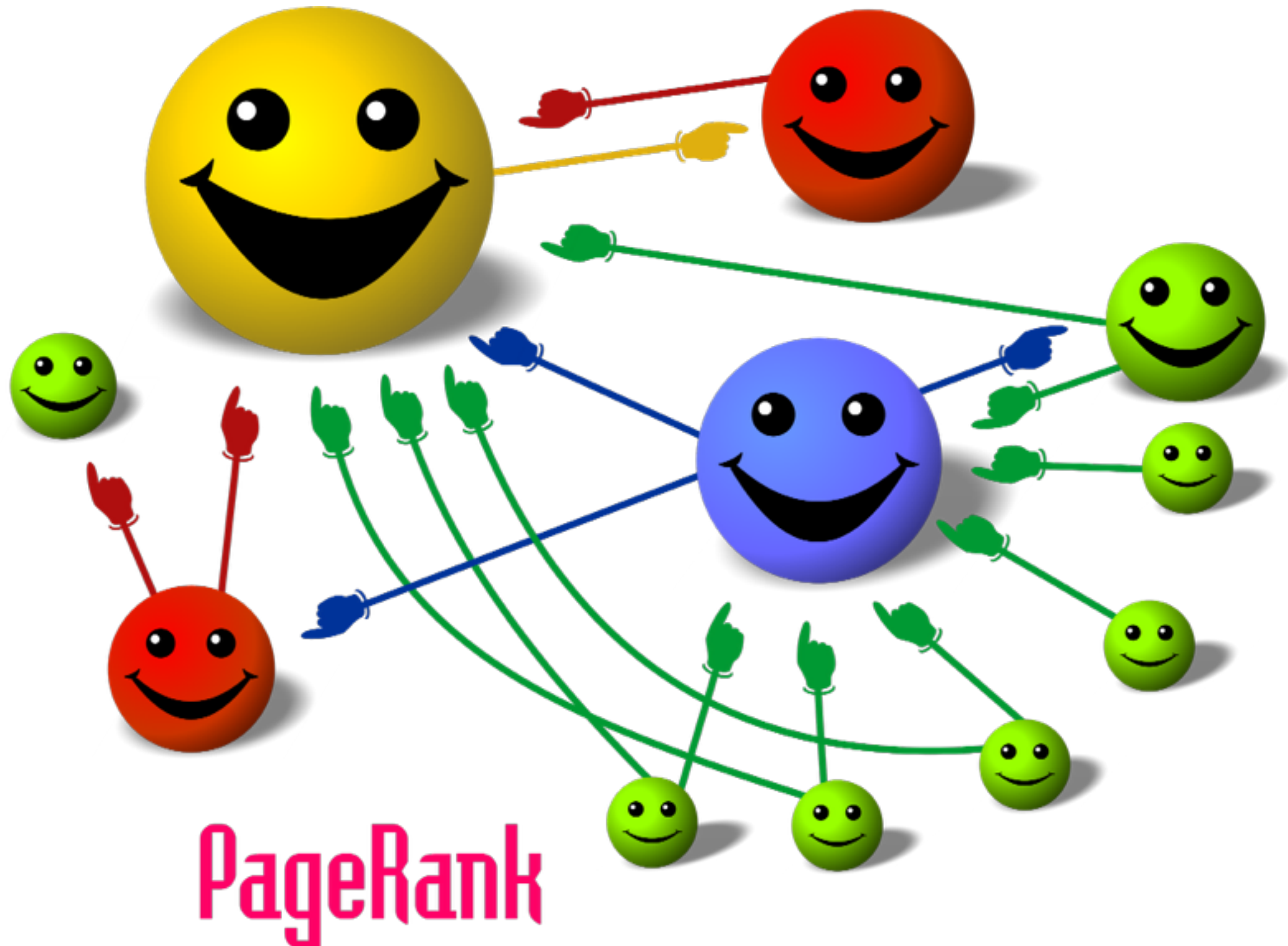
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A link is worth a 1000 words



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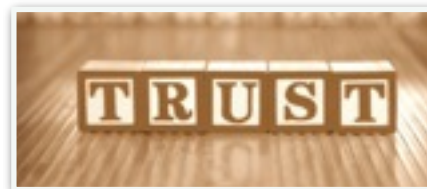
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language: rus
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Not the right match? Use the + button to create a new resource

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Opportunity



Identifier Landscape



DCMI Opportunity

- Linked Data Patterns
 - Identify, Document, Recommend best “micro-patterns” for support Linked Data interoperability for Memory Organizations
 - Recommended data patterns



BIBFRAME

Purpose and Promise

- **Purpose:** Replacing MARC
 - **Promise:** So much more
-
- **Purpose:** Serving Libraries
 - **Promise:** Related memory organizations and the users they serve
-
- **Purpose:** Leverage existing Web standards to speak with a consistent voice
 - **Promise:** Visibility, Discovery and Effectiveness

Act 3

The Future

Future

“The best way to predict your future is to create it”

— Abraham Lincoln

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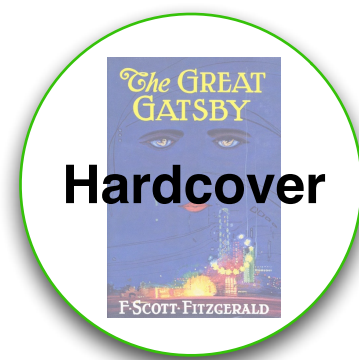
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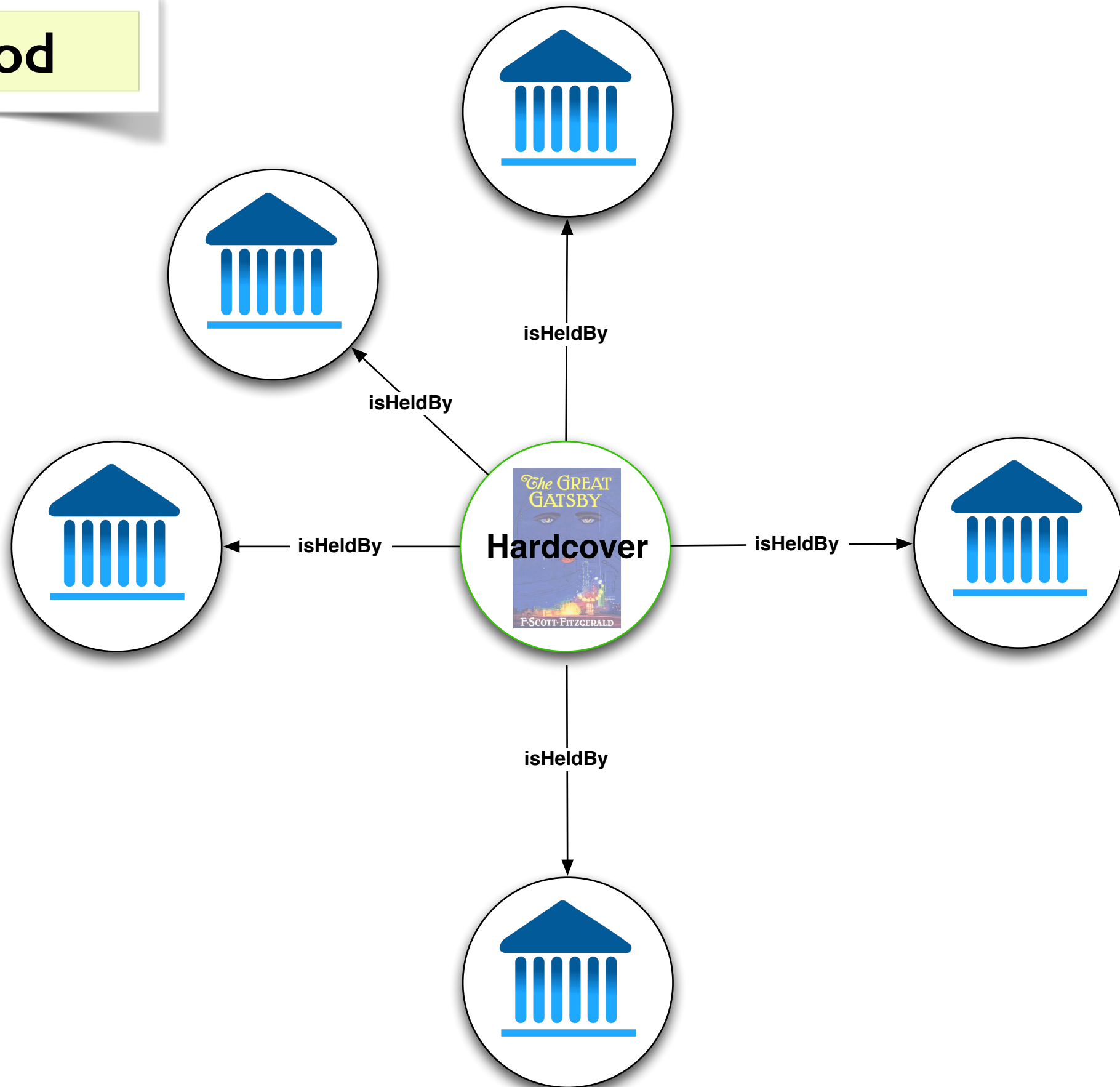
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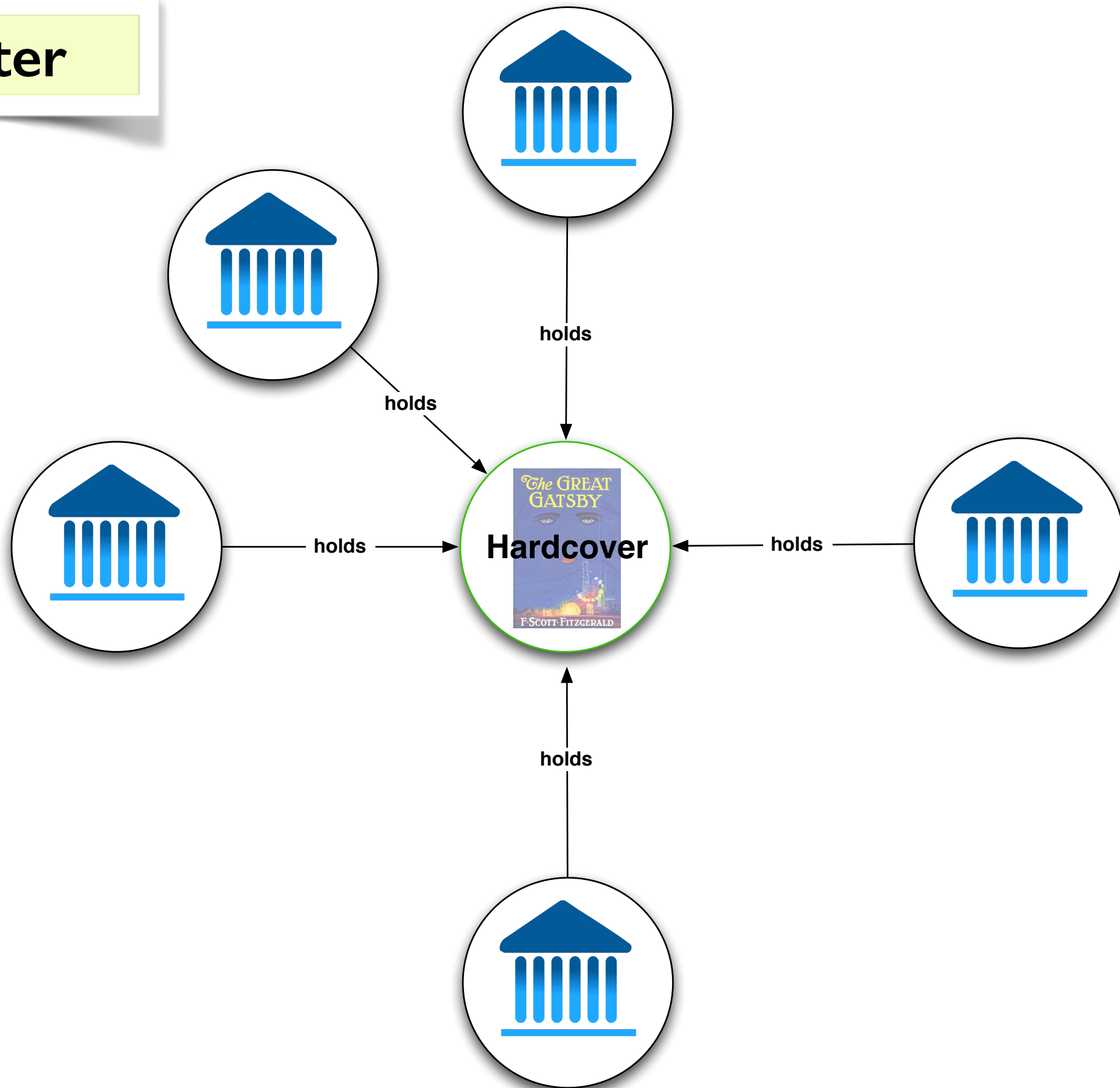
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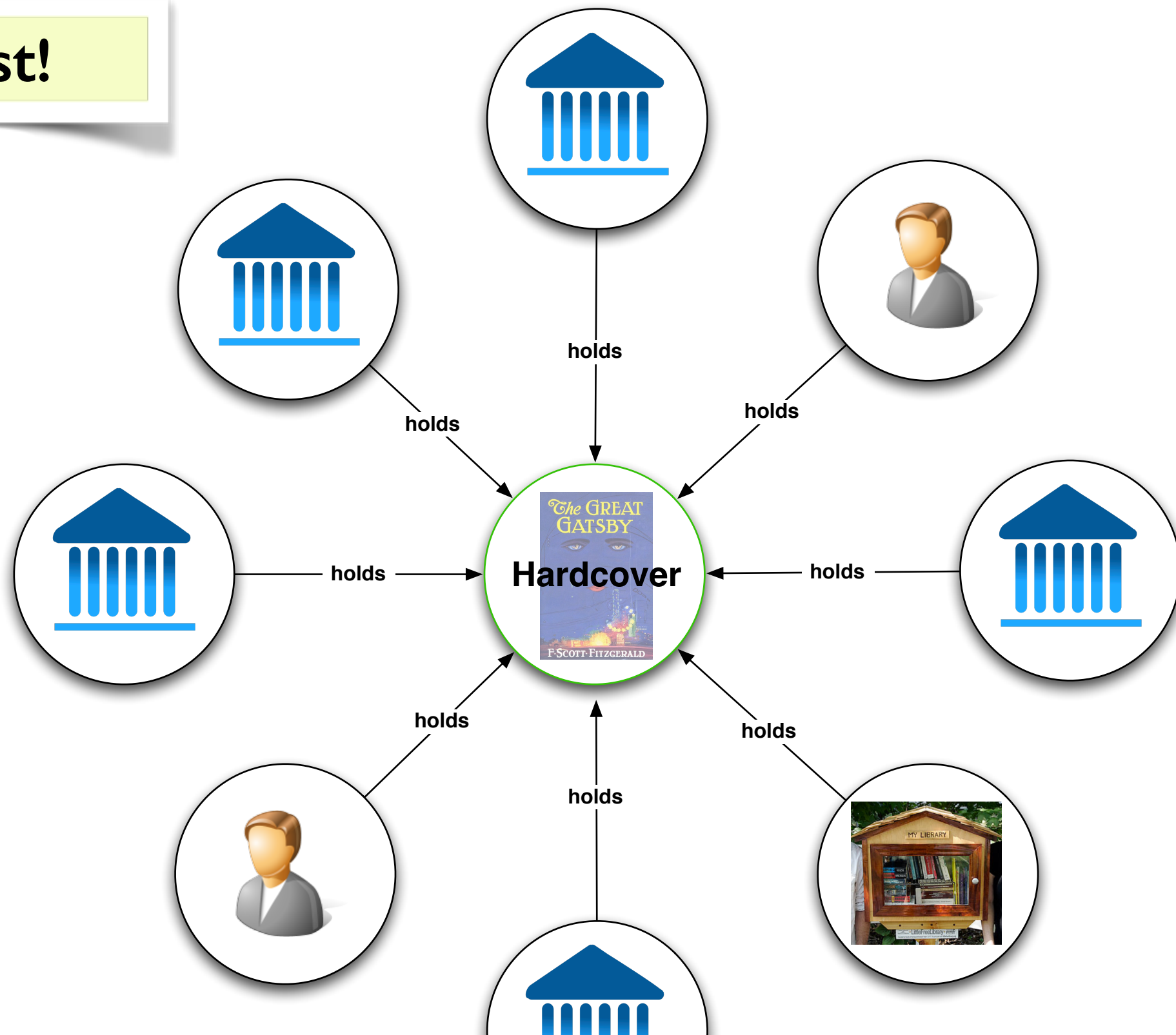
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Better



Best!



And Linked Data is a key

And this pattern is already happening
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[The Great Gatsby: F. Scott Fitzgerald Biography](#)

www.cliffsnotes.com/.../great-gatsby/f-scott-fitzgerald-biograph...

Early Years. September 24, 1896 marks the birth date of **F. Scott Fitzgerald**, one of the foremost twentieth century American writers. Born in St. Paul, Minnesota, ...

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The Great Gatsby

The Great Gatsby is a novel by American author F. Scott Fitzgerald. The story takes place in 1922, during the Roaring Twenties, a time of prosperity in the United States after World War I. Wikipedia

Published: April 10, 1925

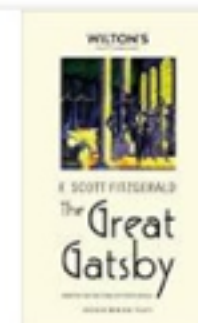
Author: [F. Scott Fitzgerald](#)

Original language: English

Characters: Jay Gatsby, Nick Carraway, Daisy Buchanan, Myrtle Wilson, Jordan Baker, Tom Buchanan, Henry Gatz

Genres: Novel, Fiction

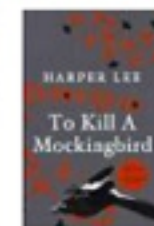
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We're not (yet) speaking the language of the Web

All the pieces are in place

- Maturation of Web Standards
- Invisible Web built on Linked Data
- Visible Web able to consume Linked Data
- Industry is ready



“Let's increase the Web visibility of all libraries”

- IMAGINE if libraries could collectively represent themselves in a way the Web could see and understand like restaurants, stores, or movie theaters.
- We believe that everyone benefits from the visibility of libraries and their content on the Web, and we feel this problem can be addressed in a relatively short timeframe.



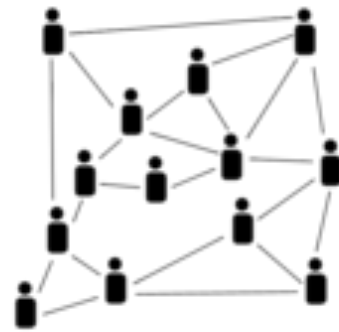


Libhub

Leading, Learning, and Linking

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
- Accelerate links between overlapping “visible” assets to prove out its value in raising search engine results, social platforms, geolocation services, etc.



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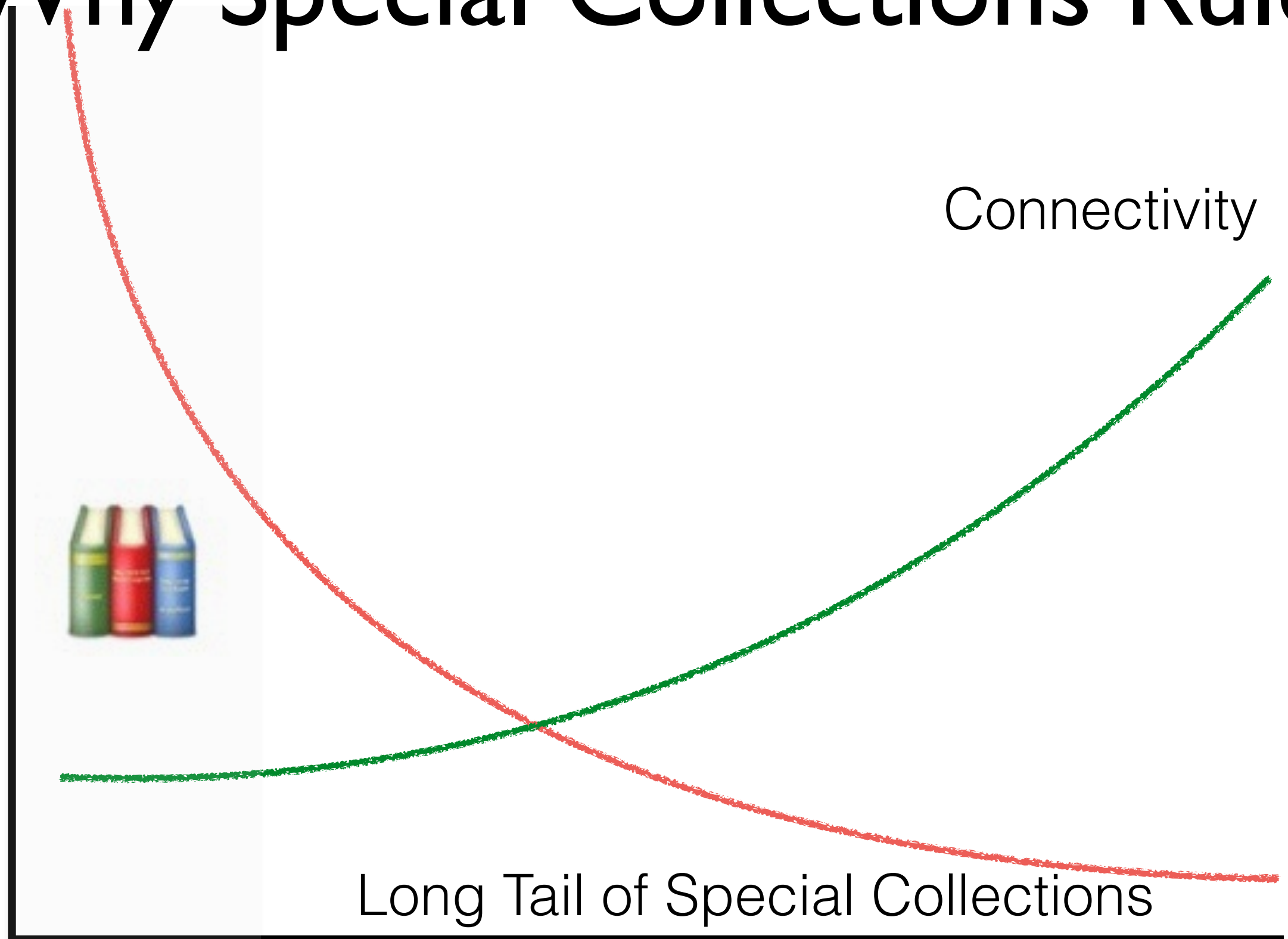
EDMONTON PUBLIC LIBRARY

Incremental Steps

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
 1. Relationships! RDFa (schema.org, BIBFRAME)
3. Increased discovery - accelerate Linking among / across assets
4. Learn! Inform! Educate!



Why Special Collections Rule





How to help

- As individual - “take the pledge”
- As library - get involved
- As sponsor - offer your support
- <http://libhub.org/>

Going forward

- Re-think your role in making Memory organizations become credibility engines for the Web
- Learn about schema.org and BIBFRAME efforts
- Participate in Libhub to help leave the best of the Web and Libraries together

DCMI going forward

- Social, community, process driven to help make libraries more visible
- Application Profiles 
- Linked Data Patterns 



**Every journey begins with a first
step (or halfway conversation)**



Thank you

Eric Miller
em@zepheira.com

