

4-8-2015

Linking to Our Future: Cataloging & Metadata in Transition

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April 8, 2015
11:00-12:30 pm,
Rm. 352



Linking to Our Future

Cataloging & Metadata in Transition

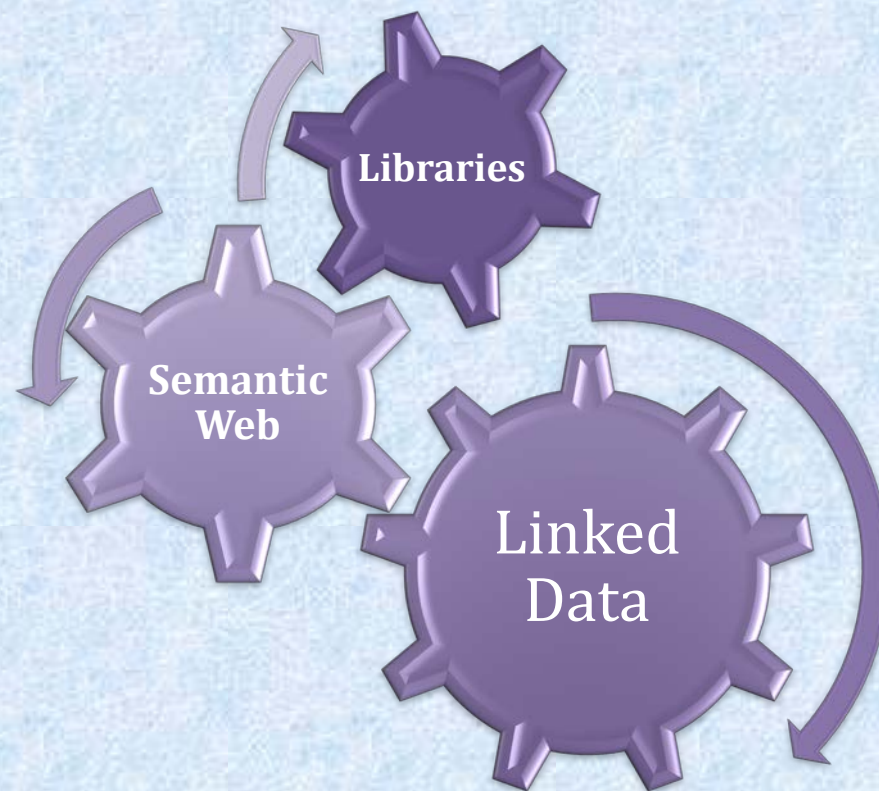
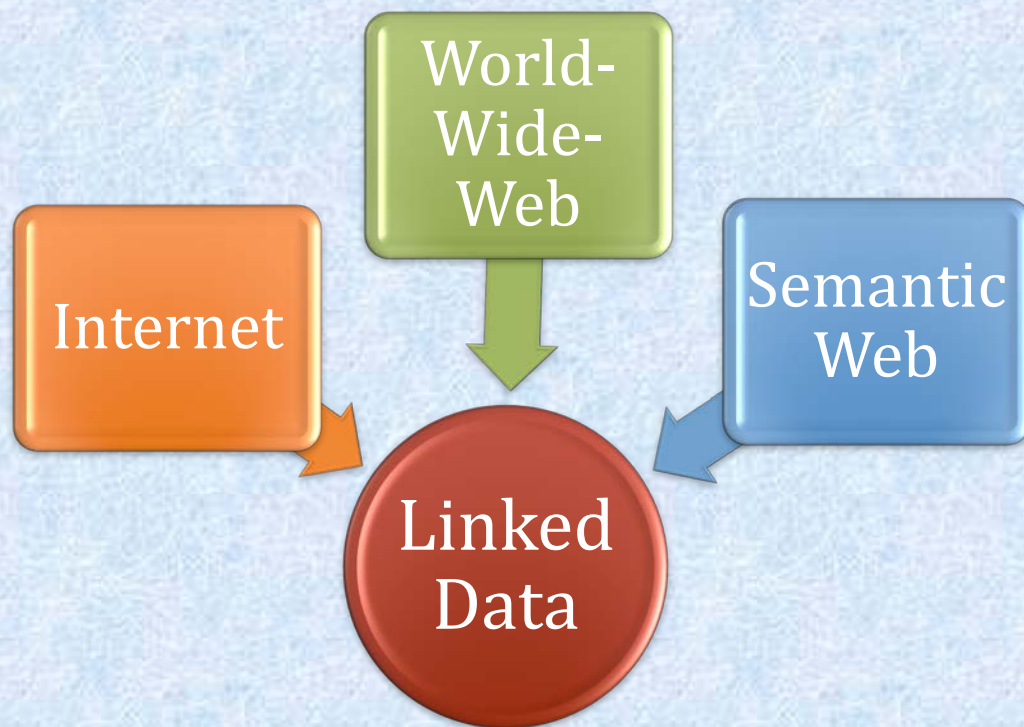
Sherry Vellucci



Today's Presentation

Part 1: Everything you need to know about the Web in (almost) 3 slides

Part 2: Linked data on the Web and in Libraries (almost)



Linked Data Overview



Using the Web to create defined (typed) links between data from different sources that weren't previously linked.



A method for sharing data—within and outside a library environment in a non-library-centered exchange format



Depends on everyone using standards that enable data exchange

Identifying relationships between entities is essential to the success of a linked data environment



Some Key Terms



- **Semantics:** The study of the **meanings** of words and phrases in language; the meanings of words and phrases **in a particular context**
- **Relationship:** The way in which two or more people or things are connected.
- **Link:** An *identifier* attached to an element in a system to indicate or permit connection with other similarly identified elements, *especially* a hyperlink in a computer file

More Key Terms



- o **Data:** The primary building block of information; factual statements or figures presented in a form that can be understood, interpreted, and communicated by a human being or **processed by a computer**; when contextualized by its use, data becomes information.
- o **Entity:** Independent, separate, or self-contained existence
- o **Record:** A collection of related items of information (as in a database) treated as a unit

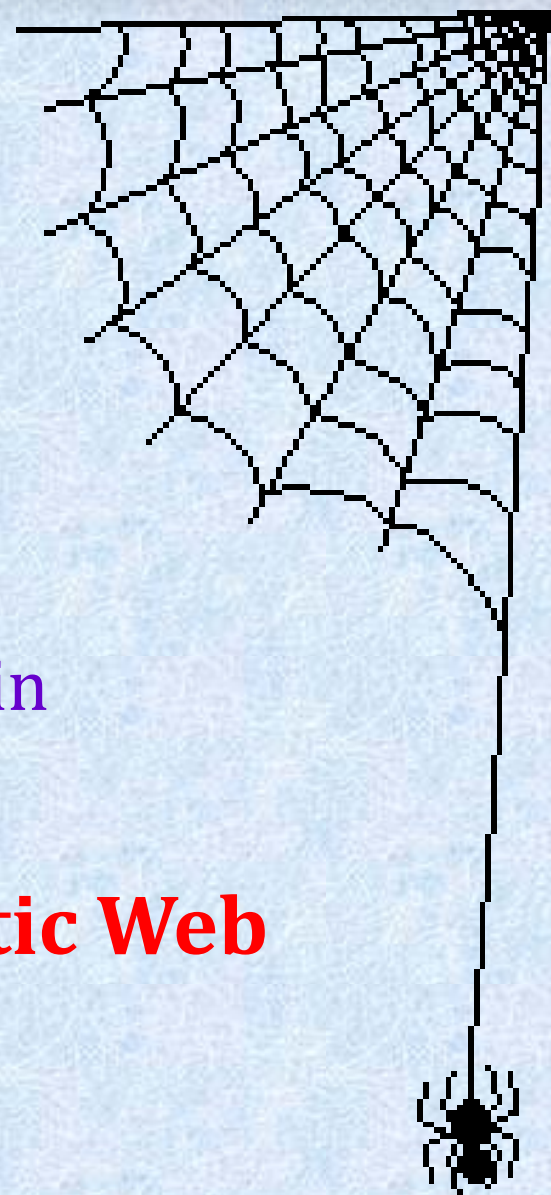
Evolution of the Web or, How Did We Get Here?

Everything you need to know about the Web in
5 slides!

Internet

World-Wide-Web

Semantic Web



NCP

FTP

TCP

TCP/IP

ARPANET



NSFNET



INTERNET

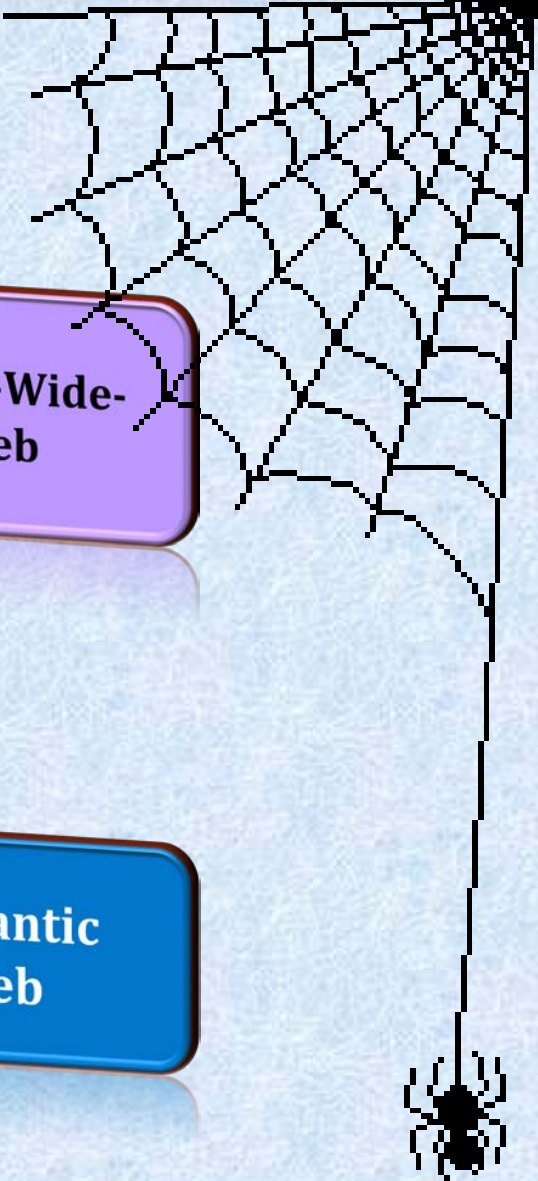
HTTP/HTML



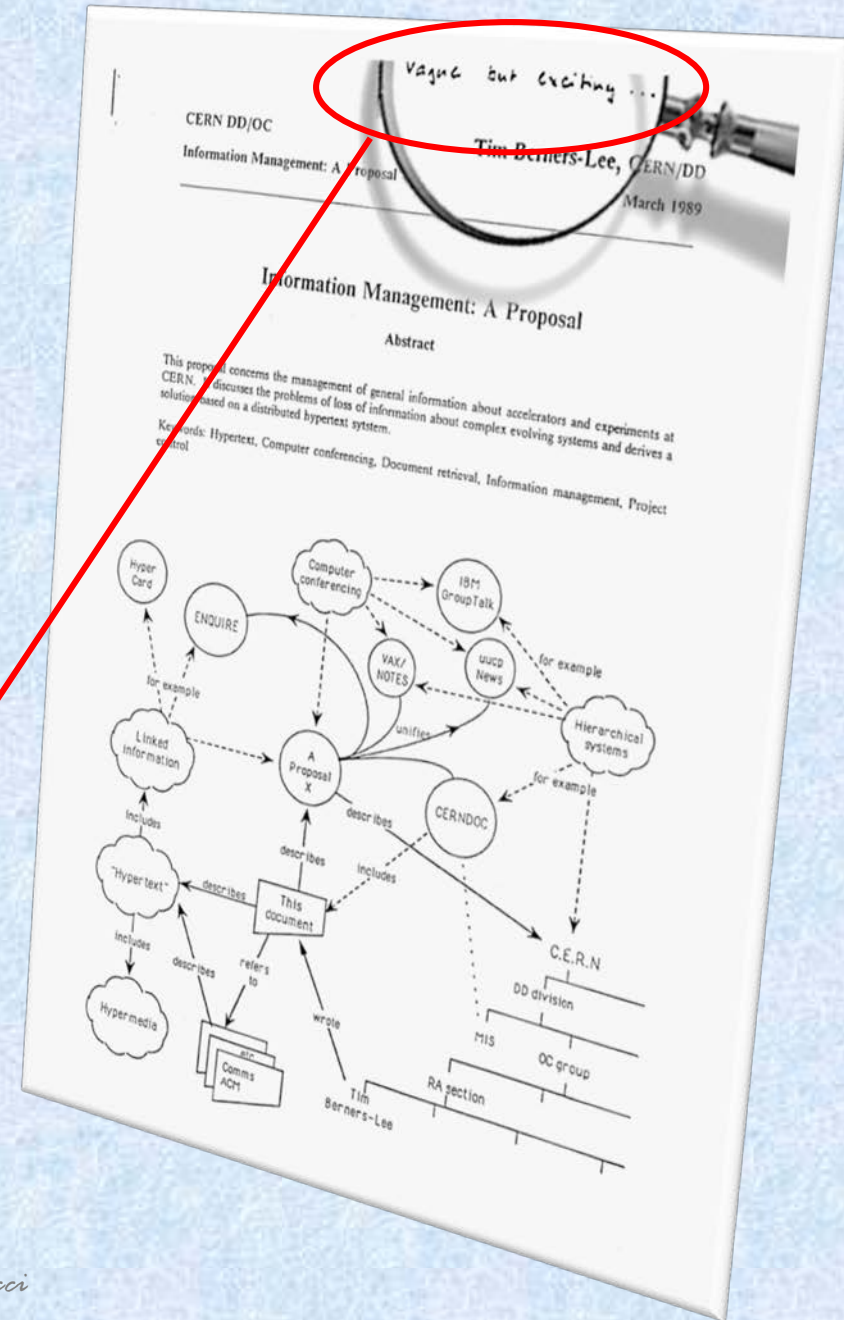
World-Wide-Web



Semantic Web



Tim Berners-Lee

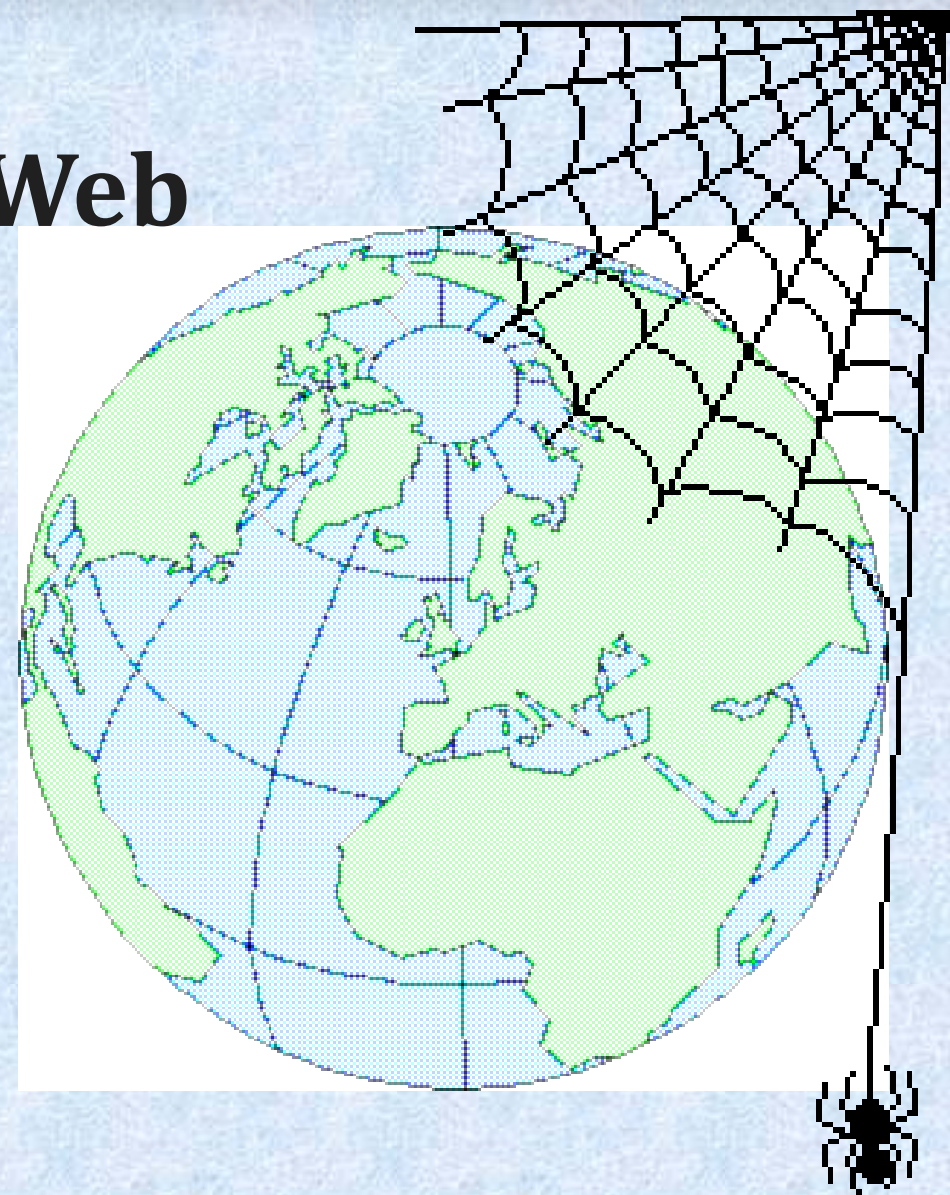


1989

“Vague but exciting”

The World-Wide-Web

- HTTP developed in 1991
- Web of Documents
 - Pages (HTML documents with hyperlinks)
- Web of Discovery
 - Search engines index and infer relevance
 - Implicit relationships between documents
 - Lack of semantics (not “typed” links)
- All are designed for humans



The Semantic Web of Linked Data

- Linked Data is *not* about searching for specific documents or visiting particular websites, it's about **identifying and connecting things**
 - Making connections between related data (entities) from different sources
 - Computer programs understand connections (for humans & machines)
 - Data is **sharable, extensible, and reusable**
 - Entity-based Architecture



Linked Data, or, How I Learned to Stop Worrying and love Cyber-Vagueness



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What Do Computers Like?

Unique Identifiers

(they confuse easily, & need specific directions & information)

Consistent, Predictable, Non-human-language Data

(See Unique IDs; they are also verbally challenged)

Controlled Vocabularies
(See previous likes. They need the same language to play with other computers)

To Understand Relationships
(They are really into genealogy & don't like blind dates)

... and the answer is ...



URIs!!!

Four Rules of Linked Data



- 1. Use URIs as names for things

id.loc.gov/authorities/names/n87929612

- 2. Use HTTP URIs so that people can look up those names

<http://id.loc.gov/authorities/names/n87929612>

- 3. When someone looks up a URI, provide useful information, using the standards (RDF, SPARQL)

- 4. Include links to other URIs so that they can discover more things

Tim Berners-Lee

Building the Web of Data

How will this work in a library?



➤ **Barbara Tillett**



1987

➤ **Richard Smiraglia**



1992

➤ **Martha Yee**



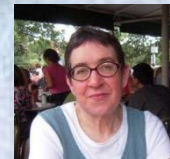
1993

➤ **Sherry Vellucci**



1994

➤ **Allyson Carlyle**



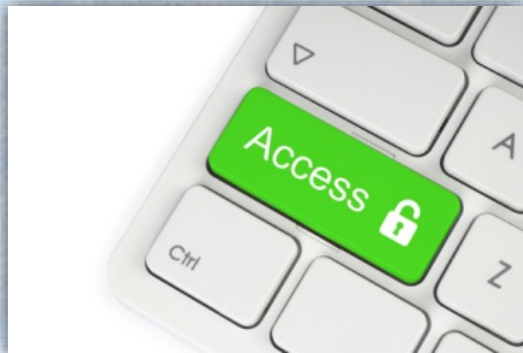
1994

4/05/2015 **Library Research: It's About Relationships, Stupid!** *Sherry Vellucci*

The Library Perspective

Deconstruct MARC records into individual entities (bits of data)

Create RDF statements that link entities by identifying relationships



4/08/2015

Linked Data Basics

Records \longrightarrow

Entities

Link entities \longrightarrow

Statements

Resource Description Framework (RDF)

Relationships defined in “triples”

Entity A \longrightarrow Has relationship to \longrightarrow Entity B

Record becomes a **graph** formed by triples

Entities represented by URIs (or verbal values)

Catalog (closed) \longrightarrow

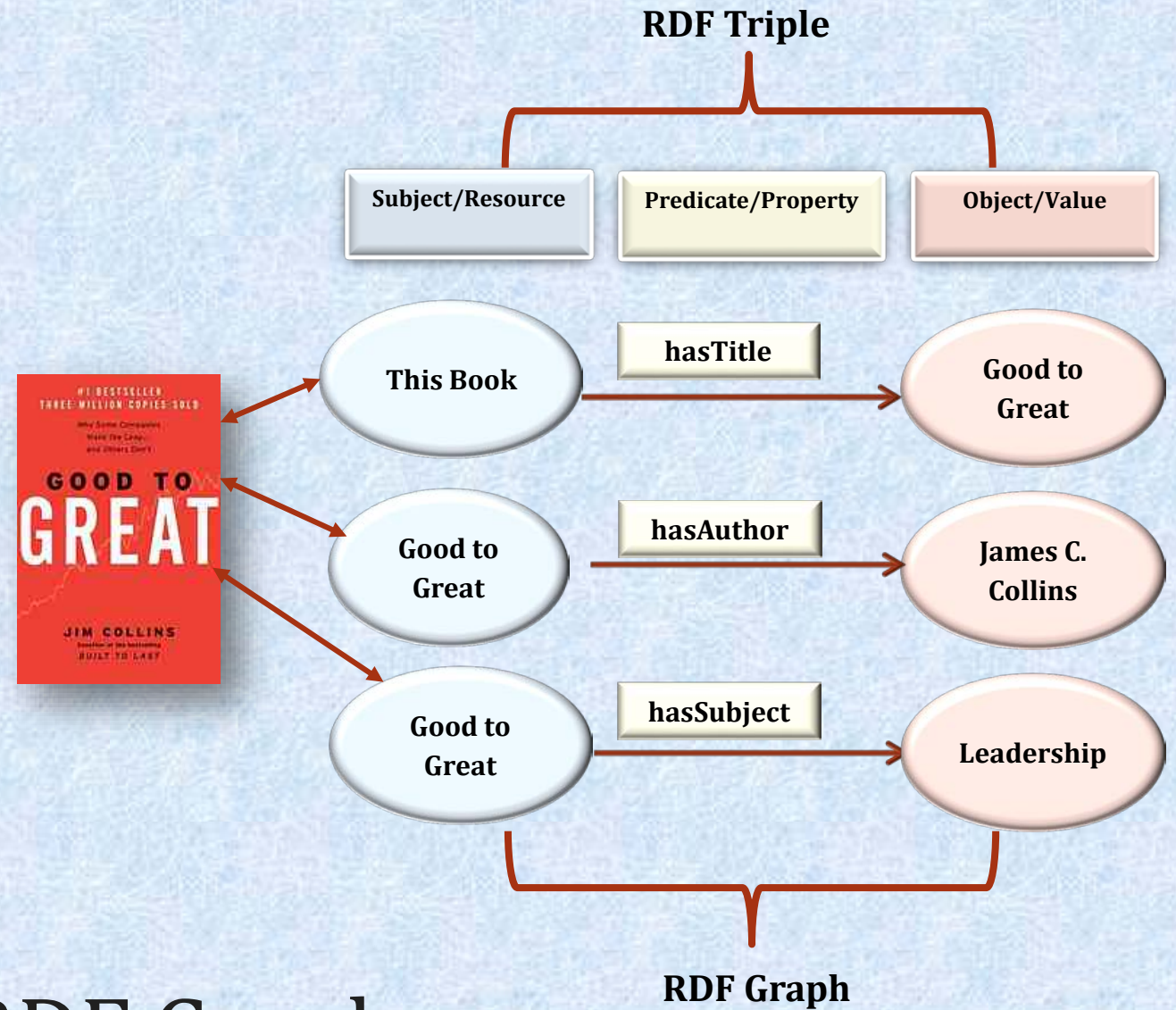
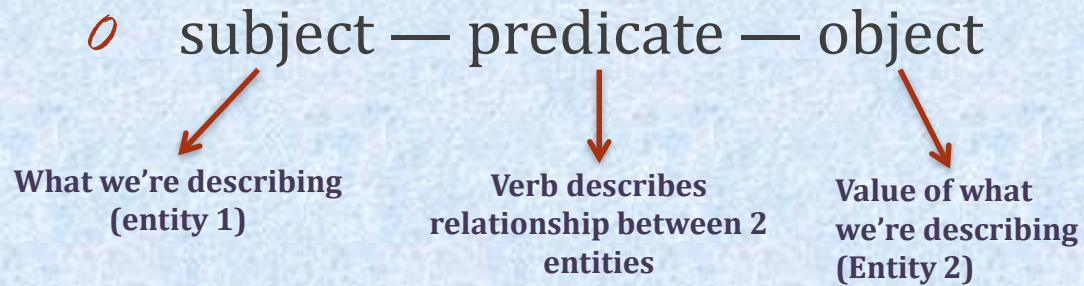
Web (open)

Not limited to libraries or bibliographic records

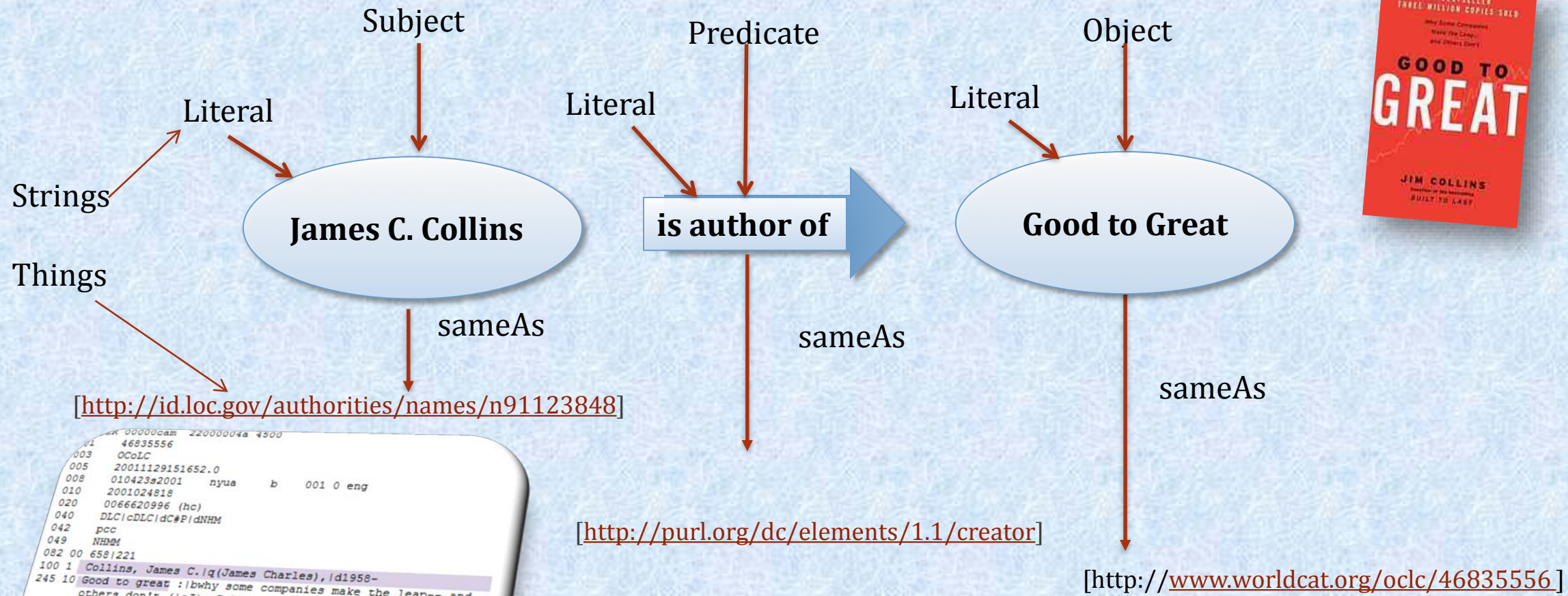
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17

- o RDF is a Data Model that makes statements about [Web] resources
- o Literal/String = Value expressed as natural language
- o Statements have 3 parts and are called triples:



More Terminology & a RDF Graph



```

001 000000cam 22000004a 4500
001 46835556
003 OCoLC
005 20011129151652.0
008 010423a2001 nyua b 001 0 eng
010 2001024818
020 0066620996 (hc)
040 DLC|cDLC|dC#P|dNHM
042 pcc
049 NHMM
082 00 658/221
100 1 Collins, James C. |q(James Charles), |d1958-
245 10 Good to great : |bwhy some companies make the leap-- and
others don't /|cJim Collins
246 14 Great
246 18 To
250 1st ed
260 New York : |bHarperBusiness, |cc2001
300 xii, 300 p. : |bill. ; |c25 cm
500 On cover: title runs from back cover to cover
504 Includes bibliographical references (p. [261]-286) and
index
650 0 Leadership
650 0 Strategic planning
650 0 Organizational change
650 0 Technological innovations|xManagement
cah 4/108/2015

```

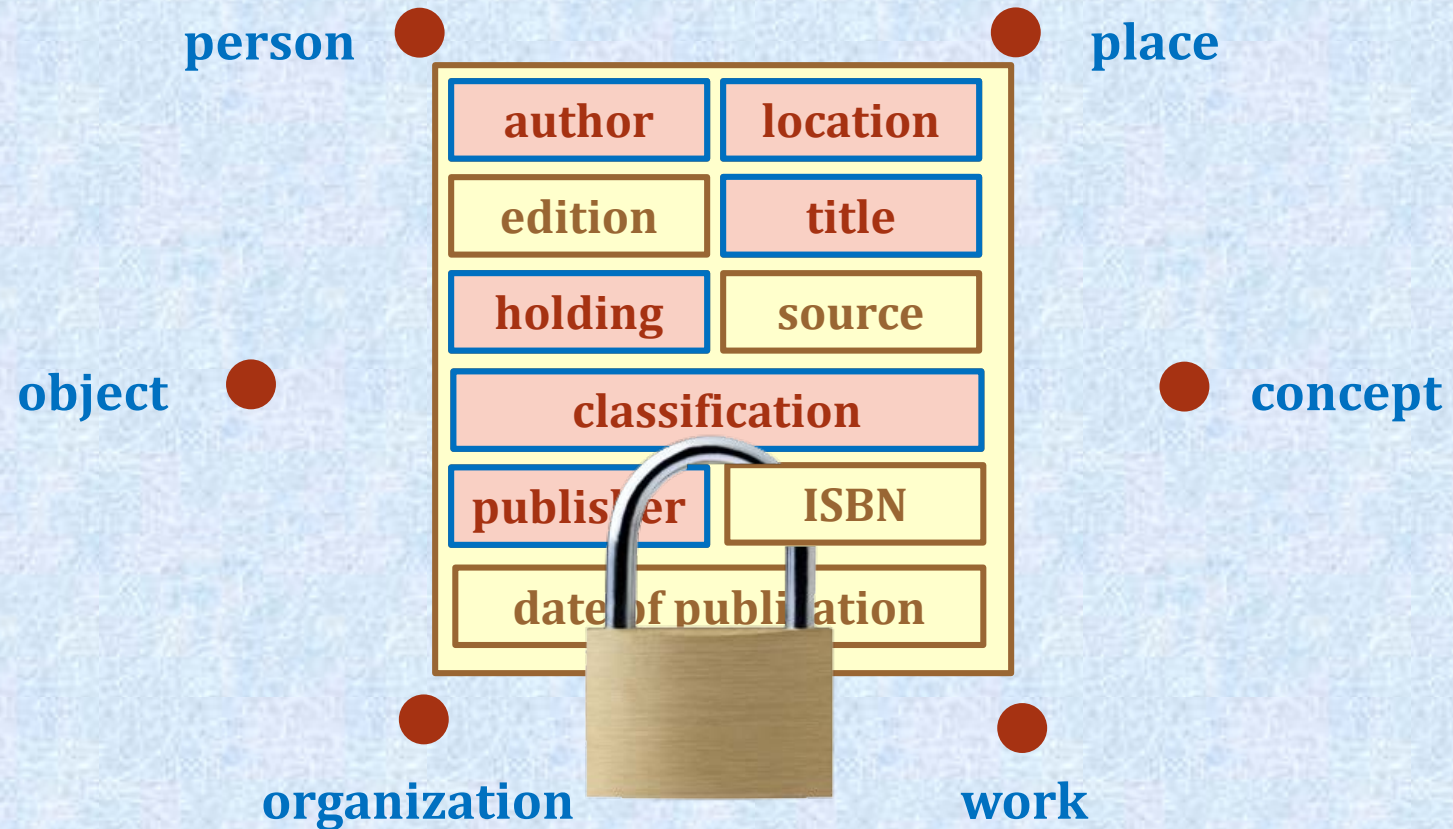


New York

```
LEADER 0000cam 22000004a 4500
001 46835556
003 OCoLC
005 20011129151652.0
008 010423s2001 nyua b 001 0 eng
010 2001024818
020 0066620996 (hc)
040 DLC|cDLC|dC#P|dNHM
042 pcc
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082 00 658|221
100 1 Collins, James C.|q(James Charles),|d1958-
245 10 Good to great :|bwhy some companies make the lea
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910 cah
```

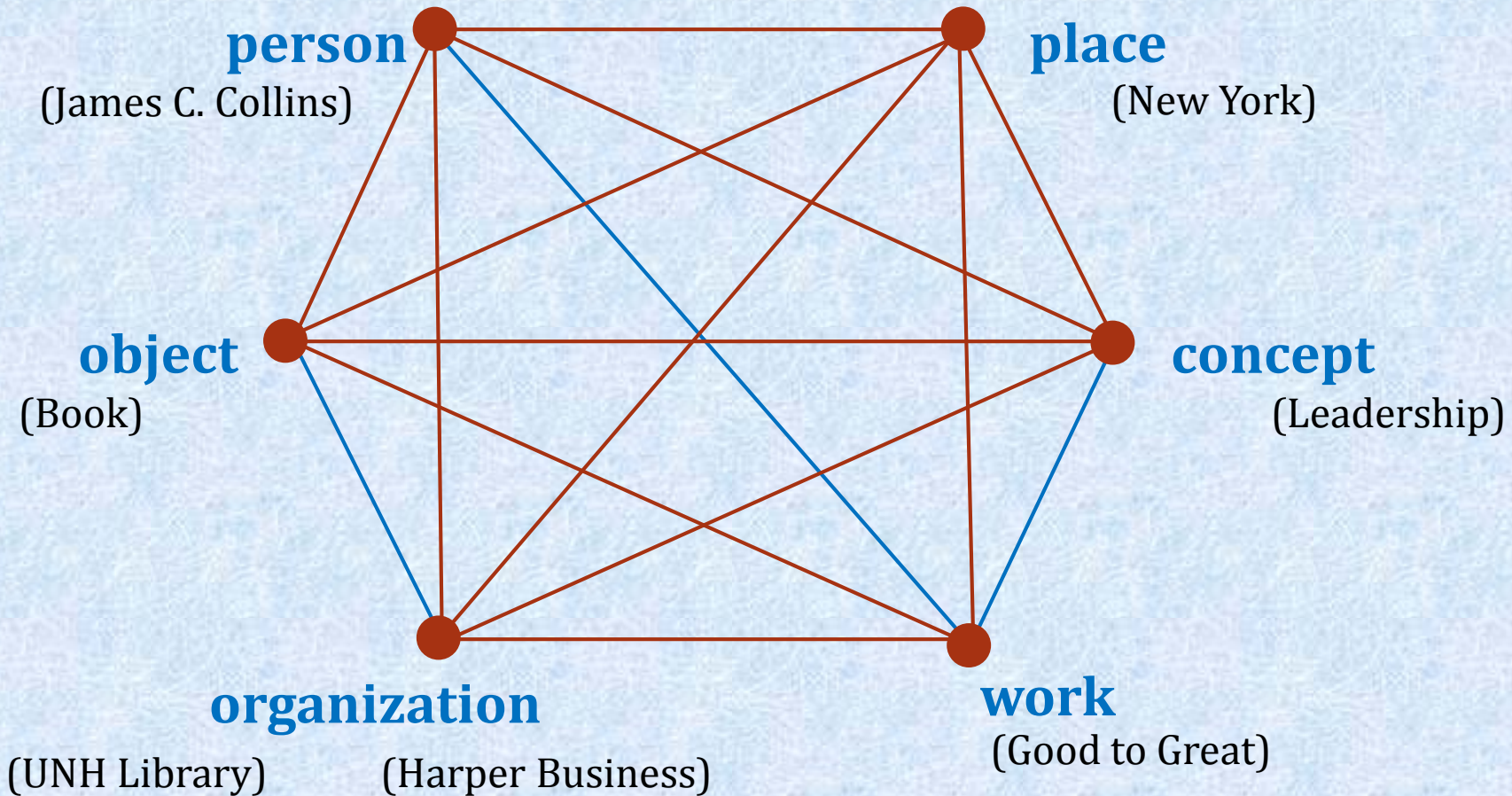


Library Data: Stored As Records



Library Data Stored as Entities

Library Knowledge Graph



Graph of Relationships

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Adapted from: Richard Wallis. [Linked Data: From Library Entities to the Web of Data](#).



New York (N.Y.)

```

LEADER 00000cam 22000004a 4500
001 46835556
003 OCoLC
005 20011129151652.0
008 010423s2001 nyua b 001 0 eng
010 2001024818
020 0066620996 (hc)
040 DLC|cDLC|dC#P|dNHM
042 pcc
049 NHMM
082 00 658|221
100 1 Collins, James C.|q(James Charles),|d1958-
245 10 Good to great :|bwhy some companies make the leap-
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650 0 Organizational change
650 0 Technological innovations|xManagement
910 cah

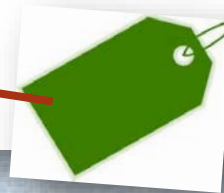
```



<http://id.loc.gov/authorities/names/n91123848>



<http://id.loc.gov/authorities/names/n91006173>



<http://id.loc.gov/authorities/subjects/sh85075480>

<http://id.loc.gov/authorities/names/n79007751>

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




<rdf:type rdf:resource="http://schema.org/Person"/><schema:name>Collins, James C.</schema:name></rdf:Description>

<rdf:Description rdf:about="http://id.loc.gov/authorities/subjects/sh85075480">

<rdf:type rdf:resource="http://schema.org/Topic"/> <schema:name> Leadership</schema:name></rdf:Description>


Search

Select Field: All Headings | Select Index: All VIAF | Search Terms: | Search

Collins, James C. (James Charles), 1958- 
Collins, James Charles, 1958-.... 
Collins, James C. W 
Collins, James C. 1958- 
Collins, Jim 1958-.... 
Collins, James Charles 
1958 -קוליןס, ג'ימס ס, 1958 
1958 -كولينس, جيم, 1958 
VIAF ID: 113142467 (Personal)
Permalink: http://viaf.org/viaf/113142467
ISNI-test: 0000_0001_0936_9945

Preferred Forms

- 100 1 _ta Collins, James C. (James Charles), td 1958-
- 100 1 _ta ... קוליןס, ג'ימס ס, 1958-
- 100 1 _ta Collins, James C. td (1958-..)
- 100 1 _ta Collins, James C.
- 100 1 _ta Collins, James C. (James Charles), td 1958-
- 200 _1 ta Collins, tb Jim tf 1958-
- 100 1 _ta Collins, James Charles, td 1958-
- 100 1 _ta Collins, James C. (James Charles), td 1958-
- 200 _1 ta Collins, tb Jim tf 1958-..
- 100 1 _ta Collins, James C.
- 100 1 _ta Collins, James C. (James Charles), td 1958-
- 100 1 _ta Collins, James Charles
- 100 1 _ta Collins, James C. td 1958-
- 100 1 _ta Collins, James C. td (1958-..)
- 100 1 _ta Collins, James Charles, td 1958-



LIBRARY OF CONGRESS

ASK A LIBRARIAN | DIGITAL COLLECTIONS | LIBRARY CATALOGS

Search Search Loc.gov GO

The Library of Congress > Linked Data Service > LC Subject Headings

Leadership

From [Library of Congress Subject Headings](#)

Details | Visualization | Suggest Terminology

Leadership

Here are entered works on the quality, power, or ability to lead others founded upon the prestige of position or upon ability and qualities of character. Works on the exercise of military leadership and power of decision by a commander over his subordinates by virtue of authority, rank, and responsibility are entered under [Command of troops.]

URI(s)

- > <http://id.loc.gov/authorities/subjects/sh85075480>
- > info.loc.gov/authorities/subjects/sh85075480
- > <http://id.loc.gov/authorities/subjects/sh85075480#concept>

Instance Of

- > [MADS/RDF Topic](#)
- > [MADS/RDF Authority](#)
- > [SKOS Concept](#)

Scheme Membership(s)

- > [Library of Congress Subject Headings](#)

Collection Membership(s)

- > [LCSH Collection - Authorized Headings](#)
- > [LCSH Collection - General Collection](#)
- > [LCSH Collection - May Subdivide Geographically](#)

Broader Terms

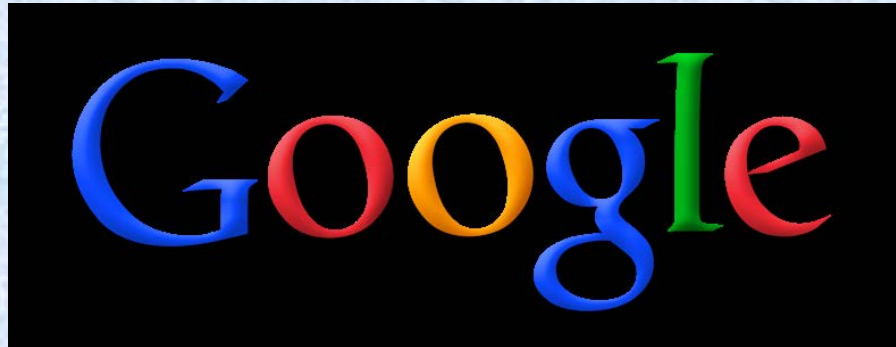
- > [Ability](#)

Narrower Terms

- > [Christian leadership](#)
- > [Communist leadership](#)
- > [Community leadership](#)



Where are our users?



“When my community searches the Web for something we have [in the library], we better show up as an option.” -- Chuck Gibson, Director & CEO Worthington Public Library

Adapted from: Richard Wallis. [Linked Data: From Library Entities to the Web of Data.](#)

Not in Google

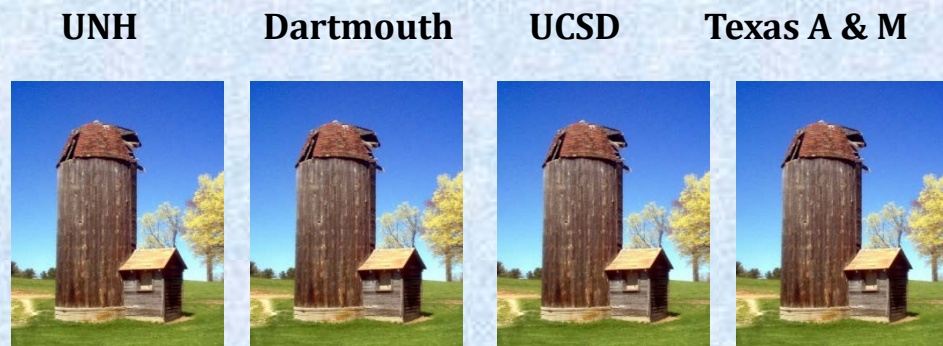
Why?

Google does not
understand:

MARC, ISBD, RDA, Z39.50,
etc.

Adapted from: Richard Wallis. [Linked Data:
From Library Entities to the Web of Data.](#)

- The *real* problem is that we don't expose our collections very well on the web!
- Locked in library catalog silos that are not searchable on the Web, or
- Available from aggregator's database—No *direct* access from Web search



Where are we?

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- Transforms library data so that it is **of the web**
- Becomes easily searchable
- Libraries can integrate outside data into what they already have
- Anyone can reuse library data to create their own applications

Fact: *BnF* converted to LD

- 80% + users now come from search engines

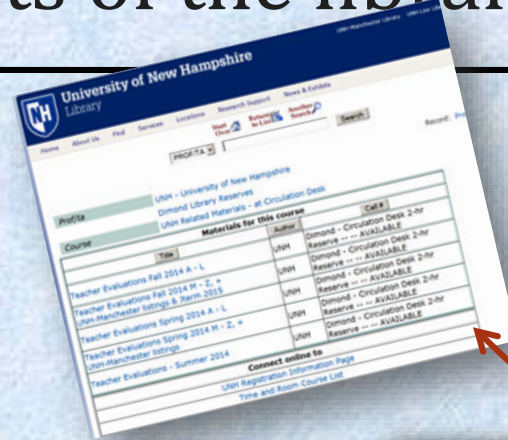
Unlock Library Data

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Connect different parts of the library's system

- o Different parts of the library structure (ILS, ERMS, Archive Finding Aids, LibGuides, etc.) would be able to share data more easily, allowing searches to easily jump from one area to another
- o Link to outside information relevant to a search



<https://vimeo.com/54674757>



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Google search results

Jane Austen - Wikipedia, the free encyclopedia

en.wikipedia.org/wiki/Jane_Austen - Wikipedia

Jane Austen was an English novelist whose works of romantic fiction, set among the landed gentry, earned her a place as one of the most widely read writers in ...
[Sense and Sensibility](#) - [Mansfield Park](#) - [Persuasion](#) - [Northanger Abbey](#)

Jane Austen - Biography - Writer - Biography.com

www.biography.com/people/jane-austen-9192819 - FYI

4 days ago - Jane Austen's novels of manners, including [Pride and Prejudice](#) and [Sense and Sensibility](#), are literary classics. Learn more about her life and ...

Jane Austen - Biography, Life Timeline, Books, Movies ...

www.janeausten.org/

Detailing the life and works of English Author Jane Austen.

The Jane Austen Society of North America - About Jane ...

www.jasna.org/.../about_austen.html - Jane Austen Society of North America

Jan 16, 2015 - Jane Austen, one of England's foremost novelists, was never publicly acknowledged as a writer during her lifetime. She was born on December ...

Jane Austen Info Page

www.pemberley.com/janeinfo/janeinfo.html

Compendious page devoted to Jane Austen, English novelist 1775-1817; has illustrated hypertext of [Pride and Prejudice](#), HTML e-texts of her letters and many ...

Jane Austen's Biography: Life (1775-1817) and Family

www.pemberley.com/janeinfo/janelife.html

The main source of information about Jane Austen's life is family letters, especially those of Jane Austen to her sister Cassandra from 1796 onwards, ...

JANE'S WORLD - The New Yorker



[newyorker.com](http://www.newyorker.com) - Jan 1996

Currently, it seems, Jane Austen is hotter than Quentin Tarantino. But before we try to establish what the Austen phenomenon is, let us first establish what it is not. About eighteen ...

Terry Castle reviews 'Jane Austen's Letters' edited by ...



lrb.co.uk

It is impossible for the lover of Jane Austen – and lover is the operative word here – to have anything but mixed feelings about Austen's older sister Cassandra. On one hand, we owe to Cassandra the ...

I Learned Everything I Needed to Know About ...



theatlantic.com - Nov 2013

When I teach Jane Austen's [Pride and Prejudice](#), I take great pains to un-sully it from students' film-adaptation-induced misconceptions that it's a "romantic" novel. As a satirist, even if a ...



Jane Austen

Novelist

Jane Austen was an English novelist whose works of romantic fiction, set among the landed gentry, earned her a place as one of the most widely read writers in English literature. [Wikipedia](#)

Born: December 16, 1775, [Steventon, United Kingdom](#)

Died: July 18, 1817, [Winchester, United Kingdom](#)

Full name: Jane Austen

Movies: [Becoming Jane](#), [Pride & Prejudice](#), [Clueless](#), [Persuasion](#), [More](#)

Nationality: English, British

Books

[View 15+ more](#)



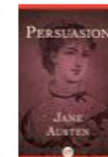
[Pride and Prejudice](#)
1813



[Emma](#)
1815



[Sense and Sensibility](#)
1811



[Persuasion](#)
1817



[Mansfield Park](#)
1814

People also search for

[View 15+ more](#)



[Charlotte Brontë](#)



[Charles Dickens](#)



[Emily Brontë](#)



[Thomas Langlois Lefroy](#)



[Virginia Woolf](#)

[Feedback](#)

See results about

[Jane Austen Centre](#)

The Jane Austen Centre at 40 Gay Street in Bath, Somerset, England, is a permanent exhibition ...



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Jane Austen

Novelist

Jane Austen was an English novelist whose works of romantic fiction, set among the landed gentry, earned her a place as one of the most widely read writers in English literature. [Wikipedia](#)

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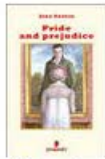
Full name: Jane Austen

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Books

[View 15+ more](#)



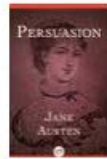
[Pride and Prejudice](#)
1813



[Emma](#)
1815



[Sense and Sensibility](#)
1811



[Persuasion](#)
1817



[Mansfield Park](#)
1814

People also search for

[View 15+ more](#)



[Charlotte Brontë](#)



[Charles Dickens](#)



[Emily Brontë](#)



[Thomas Langlois Lefroy](#)



[Virginia Woolf](#)

Google Knowledge Graph

See results about

[Jane Austen Centre](#)

The Jane Austen Centre at 40 Gay Street in Bath, Somerset, England, is a permanent exhibition ...



Library data stored as entities

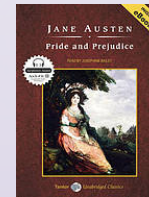
Jane Austen

Born: Steventon, UK on December 16, 1775.



English novelist whose timeless works of love among the landed gentry are lauded as social commentaries of her time.

Novels



[Pride & Prejudice Audiobook](#)



[Sense & Sensibility](#)



[Emma](#)



[Sense & Sensibility](#)

Subjects

[English fiction](#) | [Courtship—England—Fiction](#) | [England—Social Life and customs—19th century—Fiction](#) | [Man-women relationships—England—19th century—Fiction](#) | [Young women--Fiction](#)

Quotes

“I do not want people to be very agreeable, as it saves me the trouble of liking them a great deal.”

— [Jane Austen](#), [Jane Austen's Letters](#)

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- Is linked data and the Semantic Web achievable?
- Will it bring substantial benefits to **libraries**?
- Is linked data something we can ignore?



Core Questions

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So, How Do We Get There?



- Being developed by Zepheira and the Library of Congress
- The foundation for future bibliographic information
- Eventual replacement for MARC
- A data model based on identifying information entities with URIs

```
92     [ a br:Topic ;
93       bf:authorizedAccessPoint "Organizational change" ;
94       bf:hasAuthority [ a madsrdf:Authority,
95                         madsrdf:Topic ;
96                         madsrdf:authoritativeLabel "Organizational change" ;
97                         madsrdf:isMemberOfMADSScheme <http://id.loc.gov/authorities/subjects> ] ;
98       bf:label "Organizational change" ] ;
99   bf:workTitle [ a bf>Title ;
100     bf:subtitle "why some companies make the leap--and others don't " ;
101     bf:titleValue "Good to great :" ] .
102
103
```

Bibframe: One Solution

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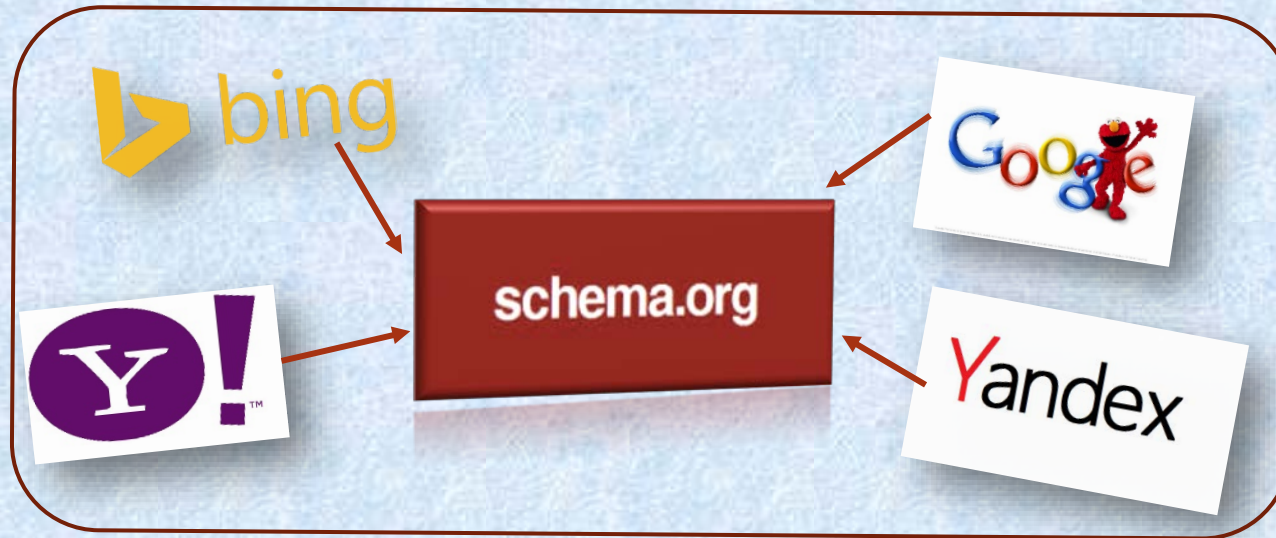


What is schema.org?

A shared
markup
vocabulary

Used with HTML and RDFa

Developed by:



Provides a hierarchical structure to identify specific types of :

Things

- **Creative Work** (Book, Movie, MusicRecording, Recipe, TVSeries ...)
- **Person** (alive, dead, undead, fictional)

Schema.org: Another Solution

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Thing > Person

A person (alive, dead, undead, or fictional).

Property	Expected Type	Description
Properties from Person		
additionalName	Text	An additional name for a Person, can be used for a middle name.
address	PostalAddress	Physical address of the item.
affiliation	Organization	An organization that this person is affiliated with. For example, a school/university, a club, or a team.
alumniOf	EducationalOrganization	An educational organizations that the person is an alumni of. Inverse property: alumni .
award	Text	An award won by this person or for this creative work. Supersedes awards .
birthDate	Date	Date of birth.
birthPlace	Place	The place where the person was born.
brand	Organization or Brand	The brand(s) associated with a product or service, or the brand(s) maintained by an organization or business person.
children	Person	A child of the person.
colleague	Person	A colleague of the person. Supersedes colleagues .
contactPoint	ContactPoint	A contact point for a person or organization. Supersedes contactPoints .
deathDate	Date	Date of death.
deathPlace	Place	The place where the person died.
duns	Text	The Dun & Bradstreet DUNS number for identifying an organization or business person.
email	Text	Email address.
familyName	Text	Family name. In the U.S., the last name of an Person. This can be used along with givenName instead of the name property.
faxNumber	Text	The fax number. <i>Sherry Vellucci</i>

4/08/2015



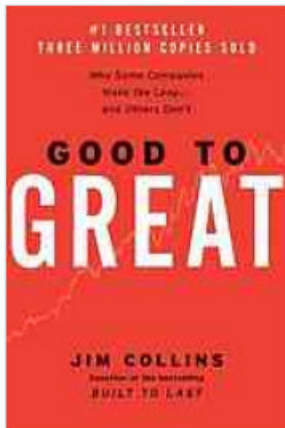
Search input field with a magnifying glass icon and a 'Search' button.

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Good to great : why some companies make the leap--and others don't

Author: [James C Collins](#)

Publisher: New York, NY : HarperBusiness, 2001.

Edition/Format: Print book : English : 1st ed [View all editions and formats](#)

Database: WorldCat

Summary: Answers to commonly asked questions about how good-to-great principles can help social sector organizations make the leap to greatness, using interviews with over 100 social sector leaders.

Rating: ☆☆☆☆☆ (not yet rated) [0 with reviews - Be the first.](#)

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4/08/2015

Schema Creator for Book

<http://schema-creator.org/book.php>

schema.org/Book

Name

Good to Great

URL

library.worldcat.org/title/good-to-great-why-some-con

Description

Book by Jim Collins

Author

James C Collins

Date published

2001

Publisher

HarperBusiness

Book edition

first

ISBN

Preview

Good to Great

Book by Jim Collins

Written by: James C Collins

Published by: HarperBusiness

Date published: undefined/undefined/2001

Edition: first

Available in Hardcover

Code

```
<div itemscope itemtype="http://schema.org/Book">
  <a itemprop="url"
  href="http://unhlibrary.worldcat.org/title/good-to-great-why-some-companies-make-the-leap-and-others-dont/oclc/46835556&referrer=brief_results"><div itemprop="name">
    <strong>Good to Great</strong></div>
  </a>
  <div itemprop="description">Book by Jim Collins</div>
  <div itemprop="author" itemscope itemtype="http://schema.org/Person">
    Written by: <span itemprop="name">James C Collins</span></div>
  <div itemprop="publisher" itemscope
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Right Now:
The Word on
the Street ...

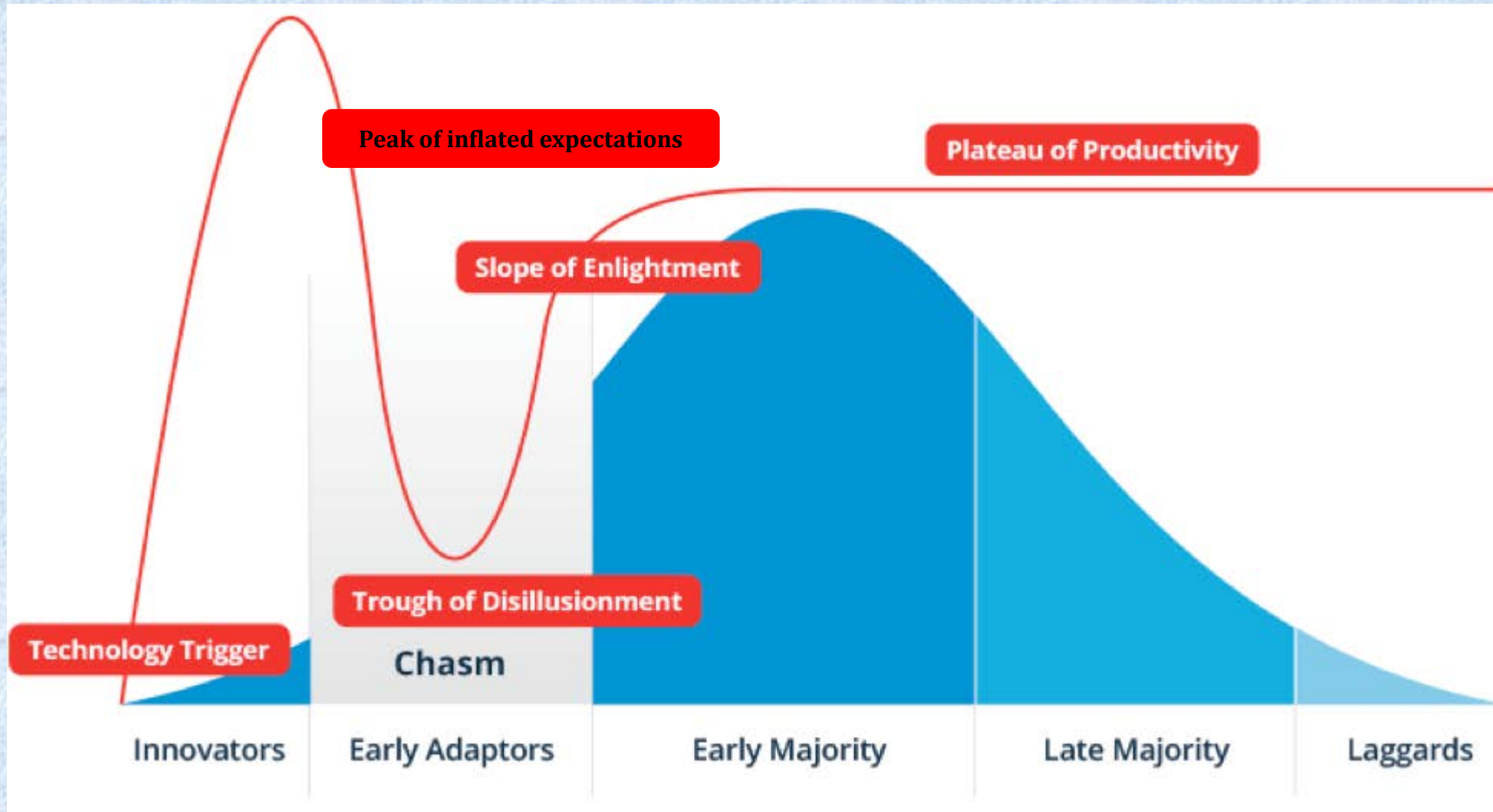
Libraries should use

schema.org

to Describe & Link to the Web

BUT

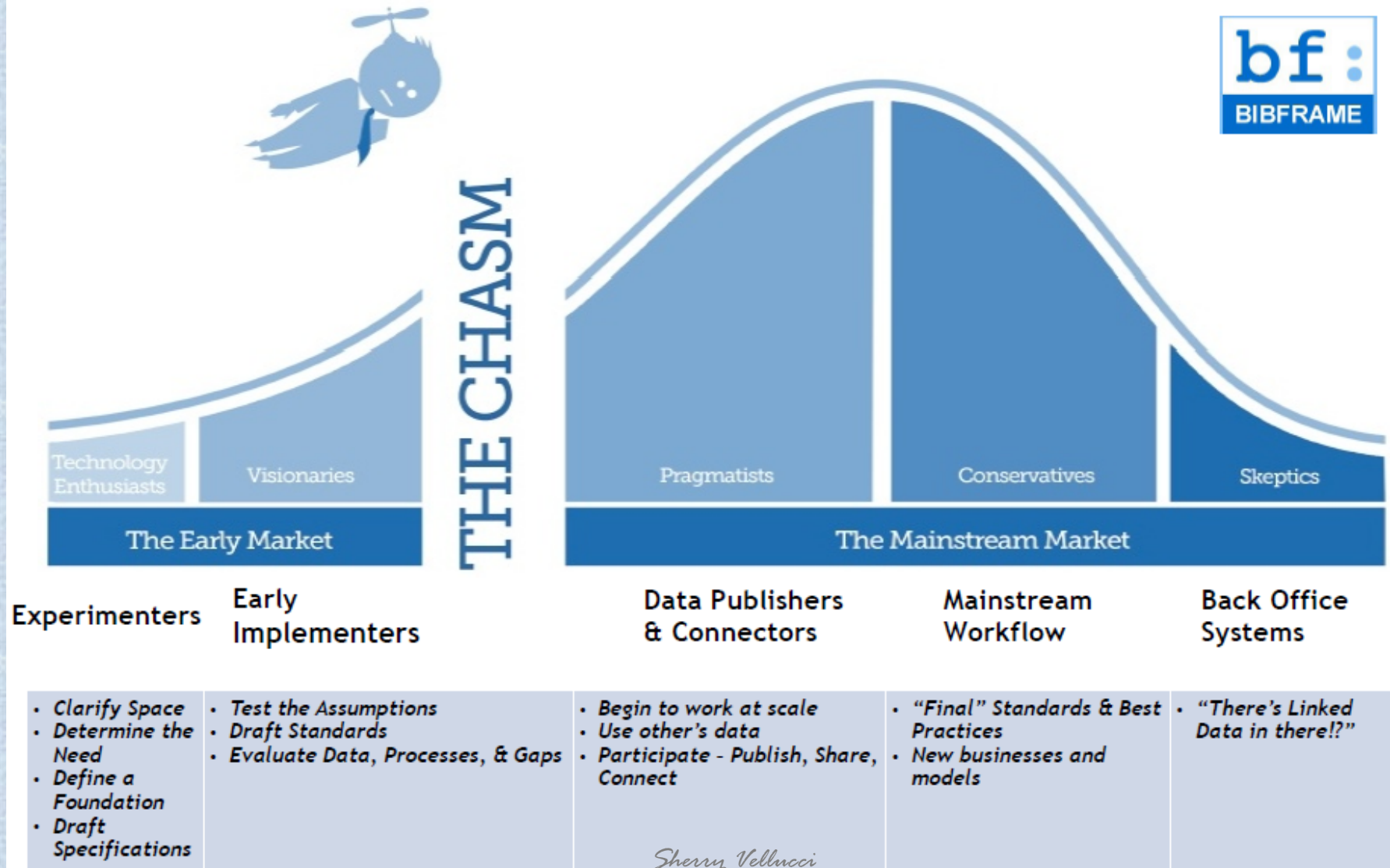
Continue to apply other
vocabularies & standards



Gartner Technology Hype-Cycle
Adapted by Eric Miller

Are we there yet?

Phases of Linked Data / BIBFRAME Adoption



Anything Else We Need?

- An ILS vendor that lets us control our own HTML!
 - Can't take advantage of Linked Data without that!
- How do we get there?
 - Bother current vendor
 - Write microdata into RFPs
- Collaboration



Be part of the web
— not just on it —
Linked
things
APIs
applications
connect
graph
information
semantic
knowledge
discover
enables
HTML
open

communicate
museums
navigate
named
API
books
fragments
world
links
places
archives
journals
locations
location
data
book
RDF
items
sources
navigate

W3C[®] Incubator Group Report

Library Linked Data Incubator Group Final Report

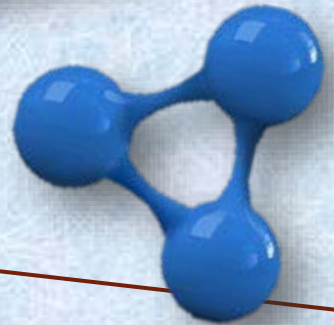

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LODLAM
Linked Open Data in Libraries Archives and Museums

Linked Open data
GETTY VOCABULARIES

bf:
BIBFRAME

VIAF
Virtual International Authority File



W3C[®]
Semantic Web


OCLC WorldCat[®]

It Takes Community Buy-in

Where Do We Go From Here?

- o *“If all of this sounds otherworldly and vague, it is because there is no specific vision of where these changes will lead us. The crystal ball is unfortunately shortsighted... The few things that are certain, however, point to the Web, and its eventual successors, as the place to be. For libraries, this means yet another evolutionary step in the library of our catalog: from metadata to metaDATA.”*



Thank you!
Questions? Comments?

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sherry.vellucci@unh.edu