

College of Information Studies

University of Maryland Hornbake Library Building College Park, MD 20742-4345

Discovery and Delivery

Week 8 LBSC 671 Creating Information Infrastructures

Midterm Exam

- Posted by 5 PM on Wednesday March 26
 - Due at 5:30 PM on Monday March 31
 - 3 Hours, same process as the quiz (email, no talking, ...)
 - Note: there are also readings for that week's class
- Comprehensive, including tonight's class
 - Nature of information institutions
 - Have it, find it, serve it
 - Last semester's exam is available on the course Web page
- One question will be to create + represent a bibliographic description (w/authority control)
 - One RDA+MODS option
 - One DACS+EAD option

Tonight

Linked Open Data and BIBFRAME

- Discovery
- Delivery

Some Basic Rules for XML

- XML declaration is the first statement – <?xml version="1.0"?>
- An XML document is a "tree"
 - Must contain one root element
 - Other elements must be properly nested
- All start tags must have end tags
- XML is case sensitive
- Attribute values must have quotation marks

 <item id="33905">
- Certain characters are "reserved"

 For example: <u><</u>; is used to represent <

Resource Description Framework

- XML schema for describing resources
- Can integrate multiple metadata standards
 Dublin Core, P3P, PICS, vCARD, …
- Dublin Core provides a XML "namespace"
 - DC Elements are XML "properties
 - DC Refinements are RDF "subproperties"
 - Values are XML "content"

XML Namespaces

<?xml version="1.0"?> <rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:rss="http://purl.org/rss/1.0/" xmlns:dc="http://purl.org/dc/elements/1.1/"> <rss:channel rdf:about="http://www.xml.com/xml/news.rss"> <rss:title>XML.com</rss:title> <rss:link>http://xml.com/pub</rss:link> <dc:description> XML.com features a rich mix of information and services for the XML community. </dc:description> <dc:subject>XML, RDF, metadata, information syndication services</dc:subject> <dc:identifier>http://www.xml.com</dc:identifier> <dc:publisher>O'Reilly & Associates, Inc.</dc:publisher> <dc:rights>Copyright 2000, O'Reilly & Associates, Inc.</dc:rights> </rss:channel> </rdf:RDF>

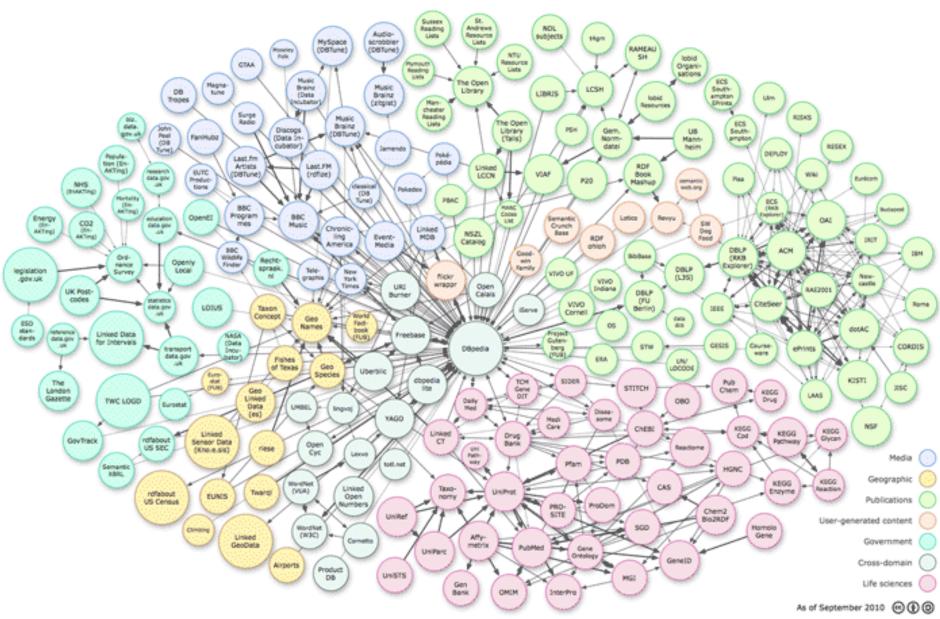
Dublin Core in RDF XML

<rdf:RDF

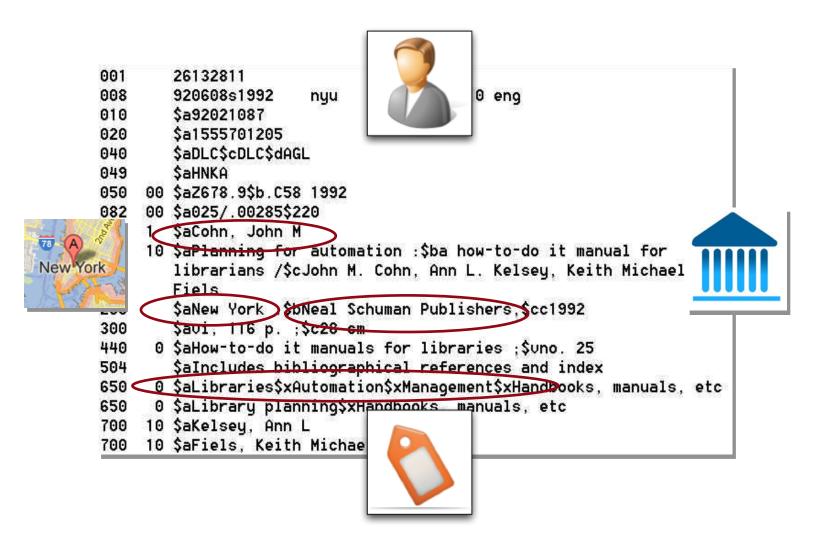
xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns:dc="http://purl.org/dc/elements/1.1/">

<rdf:Description rdf:about="http://media.example.com/audio/guide.ra"> <dc:creator>Rose Bush</dc:creator> <dc:title>A Guide to Growing Roses</dc:title> <dc:description>Describes process for planting and nurturing different kinds of rose bushes.</dc:description> <dc:date>2001-01-20</dc:date> </rdf:Description> </rdf:RDF>

Linked Open Data

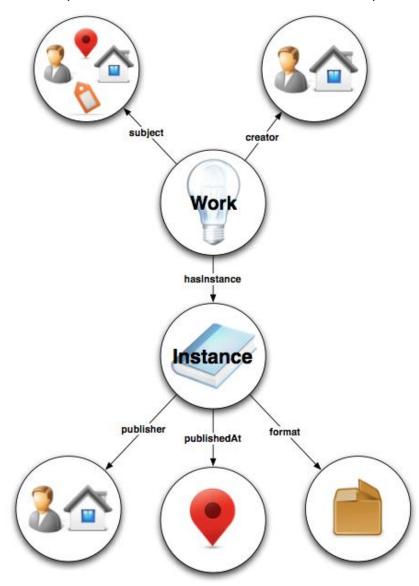


Deconstructing MARC



Sally McCallum, September, 2012

Bibliographic Framework Initiative (BIBFRAME)



http://bibframe.org

MARCR Linked		Cooper, W. W. Corcoran, George Washington Riggs		
Views / 2K Marc Analysis	Subject	 Carter, Timothy W. Cooper, Samuel, (*))(*)	
Search Edward Maynard		 Corcoran, W. W. (*) Dahlgren, John Adolp Douglas, Stephen A. 	hus Bernard, (★)(✔)	
Author 2 (missing this field) 1 Bryan, W. B. 1 Georgetown (Washington, D Corporation. 1 Kahn, Tom. 1 Maynard, Edward,		 Ewing, Thomas, (★)(Kearny, Philip, (★)(Mackay, George Mann, Horace, (★)(McClellan. George Brit 	(*) *)	
Details Visu	alization	ashir ., (7	ngton, (★)(✔) ★)(✔)	iynard tape primer), his patent of it ms manufactured utilizing the

Cooper, Samuel, 1798-1876

is improvements in the breech-loading rifle and the sale of his patent rights. Correspondents include usetts Arms Company), George Mackay, Edward Riddle, Thomas L. Smith, and Joseph Washington documenting Mavnard's Washington. D.C., dental practice. Patients mentioned include Samuel

100 1 <u>_ ‡a Cooper, Samuel, ‡d 1798-1876</u>

URI(s)

http://id.loc.gov/authorities/names/n8611443

Cooper, Samuel, 1798-1876 VIAF ID: 38401361 (Personal)

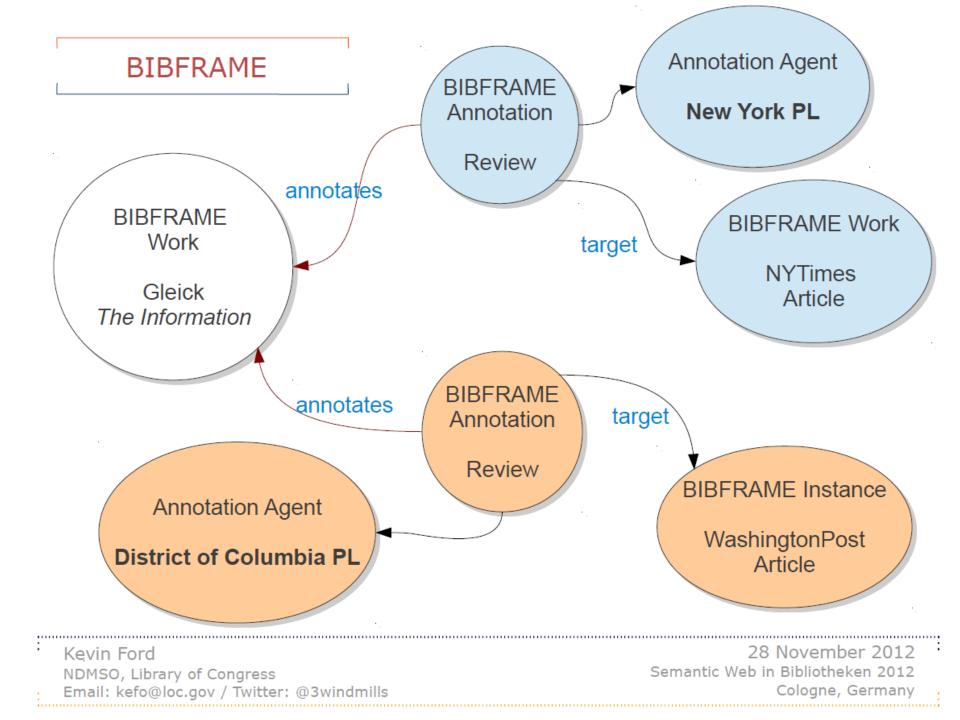
Permalink: http://viaf.org/viaf/38401361

Preferred Forms

....

Instance Of

- MADS/RDF PersonalName
- MADS/RDF Authority
- SKOS Concept 2



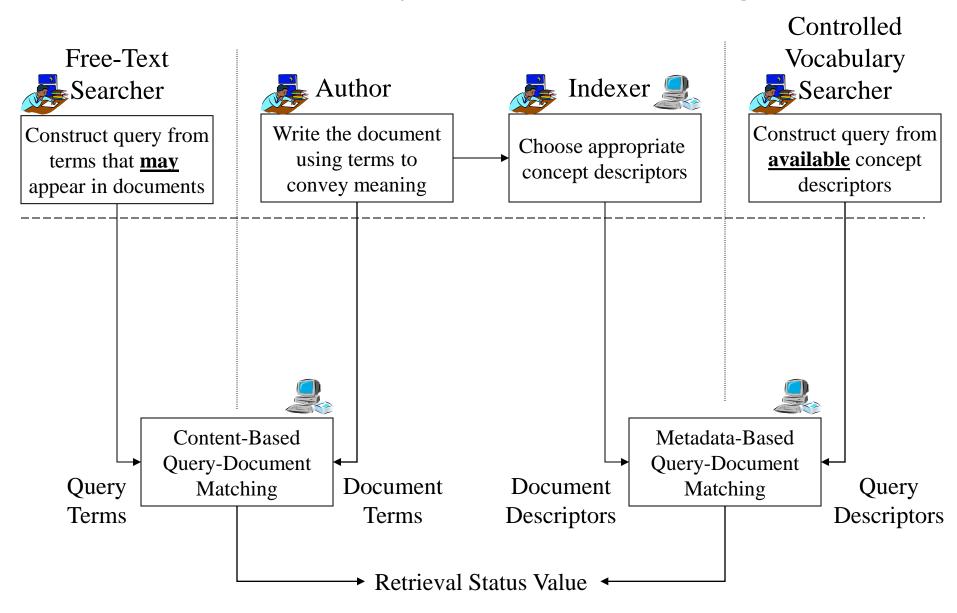
Tonight

• Linked Open Data and BIBFRAME

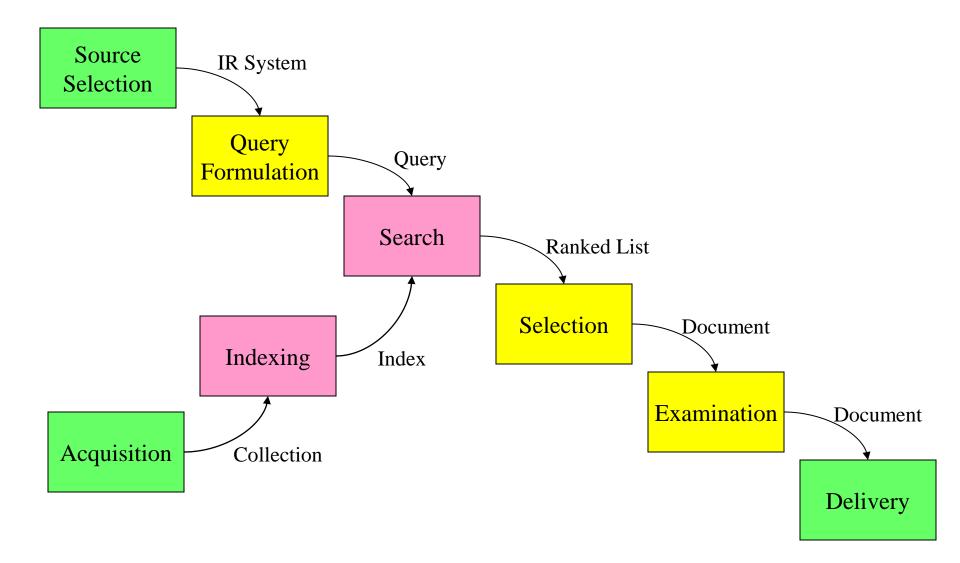
➢ Discovery

• Delivery

Two Ways of Searching



Supporting the Search Process



Online Public Access Catalog (OPAC)

- Known-item search
 - Author, Title
- Topic search
 - Title, subject headings
- Result display
 - Sort by publication date, "relevance," ...
- Navigation
 - Broader/narrower headings, other editions, ...
- Delivery
 - Call number or (digital content) direct delivery

Tonight

- Linked Open Data and BIBFRAME
- Discovery
- > Delivery
 - Shelf Order
 - Inter-Library Loan
 - Digital Rights Management

Delivery ("Serve It")

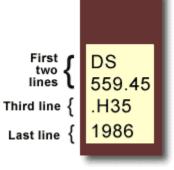
• Assigning a shelf order

• Moving physical materials

• Controlling access to digital materials

Library of Congress Classification

Book title: Uncensored War: The Media and Vietnam Author: Daniel C. Hallin Call Number: DS559.46 .H35 1986



The first two lines describe the subject of the book.

DS559.45 = Vietnamese Conflict	D	History
		History of Asia
	DS520-560.72	Southeast Asia
	DS556-559.93	Vietnam. Annam
	DS557-559.9	Vietnamese Conflict

The third line often represents the author's last name.

After other initial consonar for the second letter:	a	е	i	0	r	u	у
use number:	3	4	5	6	7	8	9
For expansion							
for the letter:	a-d	e-h	i-l	m-o	p-s	t-v	w-z
use number:	3	4	5	6	7	8	9

The last line represents the date of publication.

H = Hallin

http://www.usg.edu/galileo/skills/unit03/libraries03_04.phtml

The World Is Flat (in LCC)

HM846 .F74 2005

H Social sciences

HM Sociology

- HM831 Social change Causes
- HM846 Technological Innovations. Technology.

.F74 Cutter number for Friedman, Thomas

The World Is Flat (in Dewey)

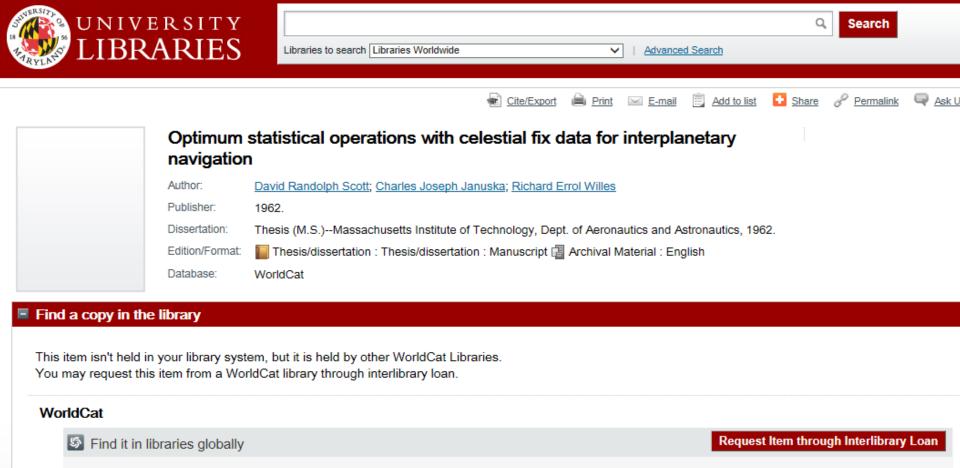
303.4833

- 300 Social science
- <u>**30</u>**0 Social sciences, sociology, & anthropology</u>
- 30<u>3</u> Social processes
- **303.4** Social change
- 303.48 Causes of change
- 303.483 Development of science and technology

303.4833 Communication (Information technology)

Inter-Library Loan

- Users search "union catalog" to find books
- Remote library "ships" it to local library
 Often by scanning it, where practical
 - Someone pays for this (local library or user)
- Local library manages circulation
 - Limited access period
 - Some "return" mechanism



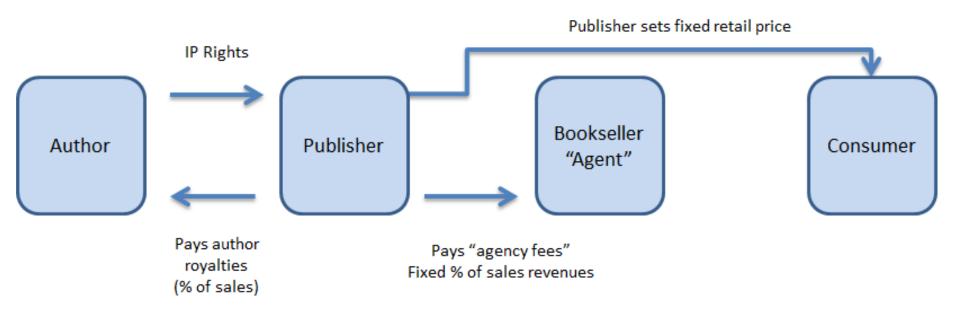
-	Worldwide	libraries	own	this	item

Enter your location: 20768 Find libraries			
Displaying libraries 1-1 out of 1		Show librarie	es holding just this edition
Library	Held formats	Distance	
 1. <u>m MIT Libraries</u> Massachusetts Institute of Technology Libraries Cambridge, MA 02139 United States 	Book	382 miles MAP IT	 <u>Library info</u> <u>Ask a librarian</u> <u>Add to favorites</u>

Inter-Library Loan Issues

- Cost
- Delivery time
 - Satisficing
- Delivery
 - Online (links, PDF's)
 - Library pick up
 - Mail

E-Book Distribution



OECD, E-Books: Development and Policy Considerations (2011)

Copyright

- Balances two public interests
 - Incentivizing production of new information
 - Through owner's interest in monetizing assets
 - Fostering use of information
 - First sale doctrine
 - Fair use doctrine

First Sale Doctrine

- Owner may transfer access of the owned copy
 - But may not make a copy then transfer the copy
 - This is what permits "lending libraries"
 - Exception: no <u>commercial</u> lending of <u>audio</u> recordings
- Licensing can apply more restrictive rules
 - Establishes a conditional right of access
 - This is what permits limited-

Fair Use Doctrine

- Balance two desirable characteristics
 - Financial incentives to produce content
 - Desirable uses of existing information
- Safe harbor agreement
 - Book chapter, magazine article, picture, ...
- Developed in an era of physical documents
 Perfect copies/instant delivery alter the balance

Recent Copyright Laws

- Copyright Term Extension Act (CTEA)
 Ruled constitutional (Jan 2003, Supreme Court)
- Digital Millennium Copyright Act (DMCA)

 Prohibits circumvention of technical measures
 Implements WIPO treaty database protection

Digital Rights Management (DRM)

- Goal: protect intellectual property rights
 - Copyright relies on cost and quality of analog copies

- Three interlocking strategies
 - Make it difficult to produce an exact digital copy
 - Encrypt the content and then control description
 - Enforce policies to rebalance costs and benefits

Digital Rights Management

No standards, so proliferation of one-off solutions
 Many of which have caused unintended problems

- Unilateral implementation can result in imbalance
 Establishing balance is a political process
- The "analog hole" is technically intractable
 - Unless interaction is needed

Before You Go!

• On a sheet of paper (no names), answer the following question:

What was the muddlest point in today's class?