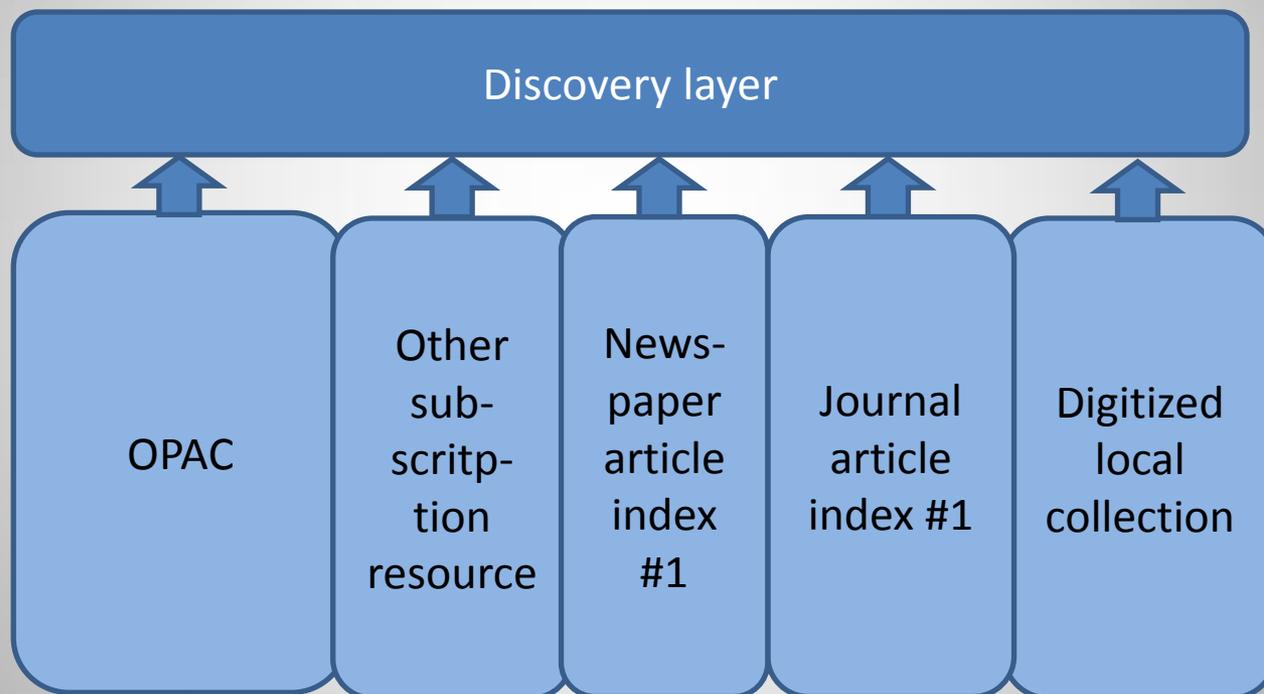


The OPAC and the Web: Harmonious Future or Perpetual Discord?

Heather Lea Moulaison and Rebecca Thompson
Missouri Library Association
2011 Annual Conference
October 6, 2011
(Awareness session : basic information on a topic)



Online library catalogs as information repositories



Other information repositories

- Libraries are not alone in providing content to patrons



WIKIPEDIA

VIAF

Virtual International Authority File

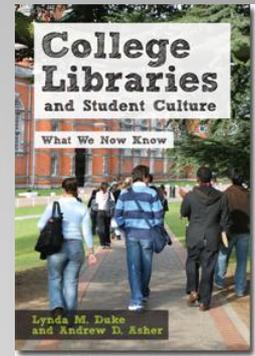


Changes afoot: Library users

- Are not better researchers and/or searchers than in the past, despite the wealth of new sources
 - “At Illinois Wesleyan University, ‘The majority of students -- of all levels -- exhibited significant difficulties that ranged across nearly every aspect of the search process.’”

--Steve Kolowich

http://www.insidehighered.com/news/2011/08/22/erial_study_of_student_research_habits_at_illinois_university_libraries_reveals_alarmingly_poor_information_literacy_and_skills

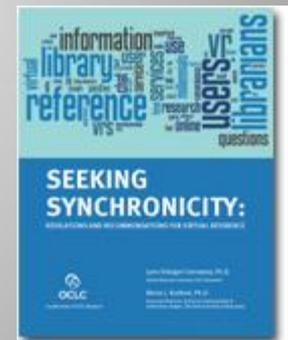


Forthcoming book: *College Libraries and Student Culture: What We Now Know*. Edited by: Lynda M. Duke and Andrew D. Asher

- Are more hurried, have less money and time, and have more conflicts
 - “Convenience is the “hook” that draws users into VR services”

--Lynn Silipigni Connaway, Marie L. Radford

<http://www.oclc.org/reports/synchronicity/full.pdf>



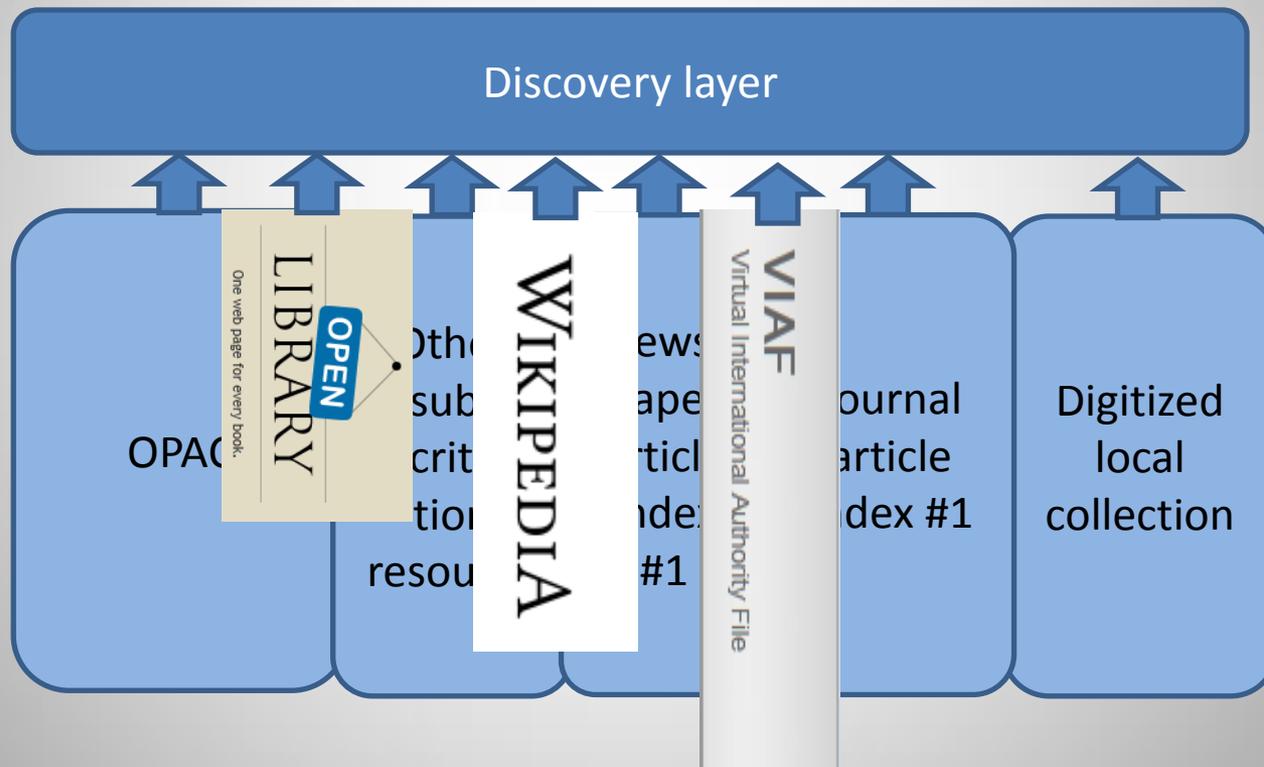
Changes afoot: Library systems

- In our systems
 - Web-accessible content
 - System navigation
 - Community-generated content
 - Discovery model promoting “discovery” of resources
- Beyond our systems
 - Web-accessible curated collections of information



Is a new model in order?

Is it worth including curated content from the web into library results?



Agenda

- The intelligent web (i.e. the semantic web)
 - Definition
 - What it might mean to libraries and library users
 - Examples of interesting projects
- Transaction log analysis
 - Rationale
 - Method
 - Results
- Discussion
- Conclusions



The semantic web: An ideal

- Tim Berners-Lee's vision: computers that could understand each other
 - Semantic web
 - The intelligent web
 - Web 3.0
 - The web of data
 - No need for human intervention at each step
 - Technology and protocols need to be in place
- As of right now, the semantic web isn't fully functioning – but things are improving all the time



Semantic web and discovery

“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.”

--Tim Berners-Lee

<http://www.w3.org/DesignIssues/LinkedData.html>



Linked data

““Linked Data” refers to data published in accordance with principles designed to facilitate linkages among datasets, element sets, and value vocabularies.”

--Library Linked Data Incubator Group Final Report

<http://www.w3.org/2005/Incubator/ld/wiki/DraftReportWithTransclusion>



Some linked data projects of interest to the library world

An overview of selected linked data repositories:

- Open Library
- NNDB Mapper
- New York Times Linked Open Data
- Library of Congress (LOC) Names
- Virtual International Authority File (VIAF)
- DBpedia
- Freebase

For more information on many of these and on other vocabularies of interest to libraries, see the section on value vocabularies in *W3C Library Linked Data Incubator Group: Datasets, Value Vocabularies, and Metadata Element Sets*: http://www.w3.org/2005/Incubator/lld/wiki/Vocabulary_and_Dataset

See also: Goddard, L., & Byrne, G. (2010). Linked data tools: Semantic web for the masses. *First Monday*, 15(11). Available online: <http://firstmonday.org/htbin/cgiwrap/bin/ojs/index.php/fm/article/view/3120/2633>



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James Fenimore Cooper

15 September 1789 - 14 September 1851

Last edited by [Sadads](#)
March 13, 2011 | [History](#) [Edit](#)

James Fenimore Cooper was a prolific and popular American writer of the early 19th century. He is best remembered as a novelist who wrote numerous sea-stories and the historical novels known as the Leatherstocking Tales, featuring frontiersman Natty Bumppo. Among his most famous works is the Romantic novel [The Last of the Mohicans](#), often regarded as his masterpiece.

[\(Source\)](#)

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 [The last of the Mohicans: a narrative of 1757](#)  [Read](#)
144 editions - first published in 1800

 [The deerslayer](#)  [Read](#)
125 editions - first published in 1841

 [The prairie: a tale](#)  [Read](#)
93 editions - first published in 1800

 [The Pathfinder: or, The inland sea](#)  [Read](#)
92 editions - first published in 1800

SUBJECTS
[Accessible book](#), [Fiction](#), [History](#), [Historical fiction](#), [United States in fiction](#), [American Sea stories](#), [Natty Bumppo \(Fictitious character\)](#), [Frontier and pioneer life](#), [OverDrive](#), [Frontier and pioneer life in fiction](#), [Classic Literature](#), [Description and travel](#), [Delaware Indians](#), [Indians of North America](#), [Mohegan Indians](#), [Social life and customs](#), [Delaware Indians in fiction](#), [Indians of North America in fiction](#), [United States](#), [United States. Navy](#), [Iroquois Indians](#), [Mohegan Indians in fiction](#), [Male friendship](#), [Naval History](#), [French and Indian War, 1755-1763](#)

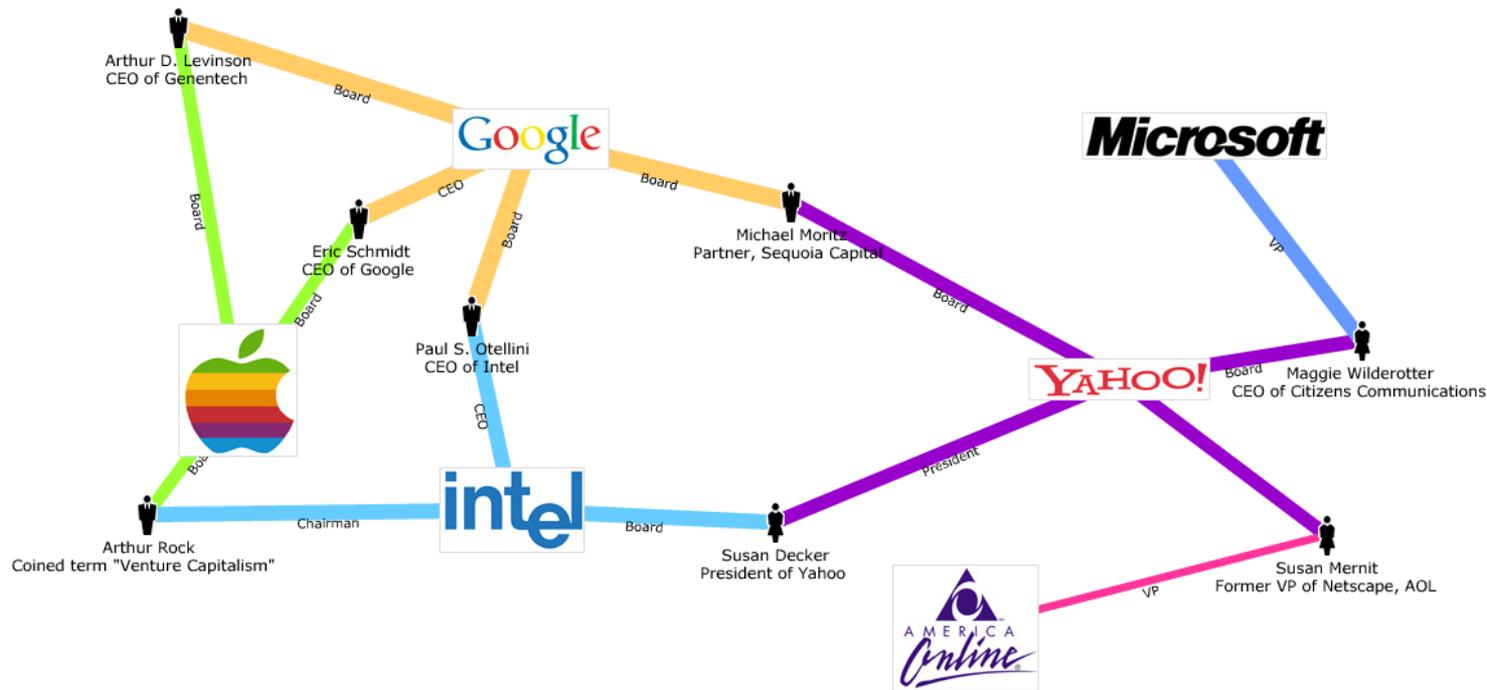
PLACES
[United States](#), [New York \(State\)](#), [Boston](#)

[Manage Author Photos](#)

Open Library

- <http://openlibrary.org/authors>
- allows users to add content, merge records
- points users directly back to libraries at the book-level





- <http://mapper.nndb.com/>
- Connections between 34,000 individuals (and organizations) are made machine readable
- Users can create their own “maps”



Beck

<http://data.nytimes.com/61273024589316751363>

[About This Page](#)

nyt:associated_article_count	11
nyt:first_use	2005-03-21
nyt:latest_use	2008-10-10
nyt:number_of_variants	1
nyt:search_api_query	<a +nytd_per_facet%3a%5bbeck%5d&rank='newest&fields=abstract,author,body,byline,classifiers_facet,column_facet,date,day_of_week_facet,des_facet,desk_facet,fee,geo_facet,lead_paragraph,material_type_facet,multimedia,nytd_byline,nytd_des_facet,nytd_geo_facet,nytd_lead_paragraph,nytd_org_facet,nytd_per_facet,nytd_section_facet,nytd_title,nytd_works_mentioned_facet,org_facet,page_facet,per_facet,publication_day,publication_month,publication_year,section_page_facet,small_image_height,small_image_url,small_image_width,source_facet,title,url,word_count,works_mentioned_facet"' href="http://api.nytimes.com/svc/search/v1/article?query=">http://api.nytimes.com/svc/search/v1/article?query="+nytd_per_facet%3A%5BBeck%5D&rank=newest&fields=abstract,author,body,byline,classifiers_facet,column_facet,date,day_of_week_facet,des_facet,desk_facet,fee,geo_facet,lead_paragraph,material_type_facet,multimedia,nytd_byline,nytd_des_facet,nytd_geo_facet,nytd_lead_paragraph,nytd_org_facet,nytd_per_facet,nytd_section_facet,nytd_title,nytd_works_mentioned_facet,org_facet,page_facet,per_facet,publication_day,publication_month,publication_year,section_page_facet,small_image_height,small_image_url,small_image_width,source_facet,title,url,word_count,works_mentioned_facet
nyt:topicPage	http://topics.nytimes.com/top/reference/timestopics/people/b/beck/index.html
owl:sameAs	http://data.nytimes.com/beck_per
owl:sameAs	http://dbpedia.org/resource/Beck
owl:sameAs	http://rdf.freebase.com/ns/en.beck
rdf:type	http://www.w3.org/2004/02/skos/core#Concept
skos:inScheme	http://data.nytimes.com/elements/nytd_per
skos:prefLabel - en	Beck

NYT LOD

- <http://data.nytimes.com/>
- 10,467 entries for people, organizations, locations, & descriptors



Meyer, Stephenie, 1973-

From [Library of Congress Name Authority File](#)

Details Visualization

Meyer, Stephenie, 1973-

URI(s)
 > <http://id.loc.gov/authorities/names/n2004030792>

Instance Of
 > [MADS/RDF PersonalName](#)
 > [MADS/RDF Authority](#)
 > [SKOS Concept](#)

Scheme Membership(s)
 > [Library of Congress Name Authority File](#)

Collection Membership(s)
 > [Names Collection - Authorized Headings](#)
 > [LC Names Collection - General Collection](#)

Variants
 > Meyer, Stephanie, 1973-

Exact Matching Concepts from Other Schemes
 > <http://viaf.org/viaf/sourceID/LC%7Cn+2004030792#skos:Concept>

Sources
 > found: Meyer, Stephenie. Twilight, 2005: ECIP t.p. (Stephanie Meyer) book t.p. (Stephenie Meyer)
 > found: Call to pub. 10-20-2004 (Stephenie M. Meyer; b. 12-24-73)
 > found: WWW site for Time/Warner, Little/Brown, viewed Sept. 20, 2005 (Stephenie Meyer; b. 1973; the unusual spelling of my name was a gift from my father, Stephen (+ ie = me); though I have had my name spelled wrong my entire life, it makes it easier to google myself now)

LOC Names

- <http://id.loc.gov/authorities/names>
- Library of Congress name authority file as linked data



Rechercher

Critère de recherche

mot(s) nom(s)

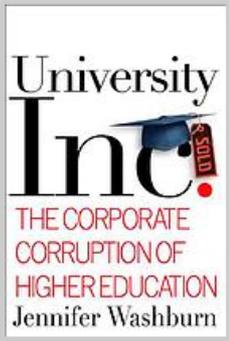
Fichier source

Tout VIAF

Recherche :

Washburn, Jennifer

Rechercher

Washburn, Jennifer 

VIAF ID:39287594

Formes retenues

 100 1 0 [:a Washburn, Jennifer](#) 

Virtual International Authority File (VIAF)

- <http://viaf.org/>
- “joint project of several national libraries plus selected regional and trans-national library agencies”



About: [John Van Seters](#)

An Entity of Type : [living people](#), from Named Graph : <http://dbpedia.org>, within Data Space : [dbpedia.org](#)



John Van Seters (born Hamilton, Ontario, Canada, 2 May 1935) is a scholar of the Hebrew Bible (Old Testament) and the Ancient Near East. Currently University Distinguished Professor Emeritus at the University of North Carolina, he was formerly James A. Gray Professor of Biblical Literature at UNC. He took his PhD at Yale University in Near Eastern Studies (1965) and a ThD h.c. from the University of Lausanne (1999).

Property	Value
dbpedia-owl:abstract	<ul style="list-style-type: none">John Van Seters (born Hamilton, Ontario, Canada, 2 May 1935) is a scholar of the Hebrew Bible (Old Testament) and the Ancient Near East. Currently University Distinguished Professor Emeritus at the University of North Carolina, he was formerly James A. Gray Professor of Biblical Literature at UNC. He took his PhD at Yale University in Near Eastern Studies (1965) and a ThD h.c. from the University of Lausanne (1999). His honours and awards include a Guggenheim Fellowship, an NEH fellowship, an ACLS fellowship, and research fellowships at Oxford, Cambridge, Katholieke Universiteit Leuven, and National Research Fund of South Africa. His many publications include "The Hyksos, A New Investigation" (1966); "Abraham in History and Tradition" (1975); "In Search of History" (1983, for which he won the James H. Breasted Prize and the American Academy of Religion book award); "The Edited Bible" (2006); and "The Biblical Saga of King David" (2009). "Changing Perspectives I: Studies in the History, Literature and Religion of Biblical Israel", a collection of articles from 1964 onwards with an introduction by Thomas L. Thompson, will appear in mid-2011.John Van Seters è un importante studioso canadese dell'antico Vicino Oriente. La sua opera principale e più influente è Abraham in History and Tradition (1975), in cui affermava che non esistono prove convincenti a sostegno dell'esistenza storica di Abramo e degli altri patriarchi della Bibbia, né della storicità del libro della Genesi. Questa pubblicazione mise in discussione sia la scuola dell'archeologia biblica di William Albright, che nei precedenti cinquanta anni aveva affermato che l'archeologia confermava le verità fondamentali della Genesi, che la scuola della "storia della tradizione" di Martin Noth, che affermava che la Genesi conteneva un nucleo di verità conservatasi attraverso la tradizione orale fino alla posteriore composizione scritta del libro. Successivamente Van Seters presentò la propria teoria sull'origine del Pentateuco, sostenendo che fosse stato ottenuto tramite aggiunte e revisioni di un singolo documento originario composto da un autore nel VI secolo a.C. Questa "ipotesi supplementare", assieme all'ipotesi documentale e a quella frammentaria, costituisce una delle ipotesi dell'origine del Pentateuco discusse dagli studiosi contemporanei.
dbpedia-owl:birthDate	<ul style="list-style-type: none">1935-05-02 (xsd:date)
dbpedia-owl:wikiPageExternalLink	<ul style="list-style-type: none">http://www.bookreviews.org/bookdetail.asp?TitleId=2388&CodePage=3929,5237,2388http://www.bookreviews.org/bookdetail.asp?TitleId=5237&CodePage=3929,5237,2388http://www.questia.com/PM.qst?a=o&d=101591942http://www.bookreviews.org/bookdetail.asp?TitleId=3929&CodePage=3929,5237,2388
dbpprop:dateOfBirth	<ul style="list-style-type: none">2 (xsd:integer)
dbpprop:name	<ul style="list-style-type: none">Van Seters, John
dbpprop:wikiPageUsesTemplate	<ul style="list-style-type: none">dbpedia:Template:Persondata
dcterms:subject	<ul style="list-style-type: none">category:Fellows_of_Fitzwilliam_College,_Cambridgecategory:Living_peoplecategory:Yale_University_alumnicategory:1935_birthscategory:Fellows_of_Oriel_College,_Oxford

DBpedia

- <http://dbpedia.org/>
- contents of Wikipedia in linked data format
- (SPARQL builder: <http://dbpedia.org/fct/>)



Beck

Scroll to:

- People
- Music
- TV Actor
- Celebrity
- Broadcast Artist
- Awards
- Film
- More...



Beck Hansen (born Bek David Campbell, July 8, 1970) is an American musician, singer-songwriter and multi-instrumentalist, known by the stage name Beck. With a pop art collage of musical styles, oblique and ironic lyrics, and postmodern arrangements incorporating samples, drum machines, live instrumentation and sound effects, Beck has been hailed by critics throughout his musical career as being amongst the most creative and idiosyncratic musician... [More](#)

[W](#) [Read article at Wikipedia](#)

Date of birth: Jul 8, 1970 (age 41 years)

Place of birth: [Los Angeles, United States of America](#)

Place Musical Career Began: [Los Angeles, United States of America](#)

Musical Genres: [Alternative rock](#), [Indie rock](#), [Experimental rock](#), [Anti-folk](#), [Lo-fi music](#), [Funk-rock](#), [Alternative country](#), [Electronic rock](#), [Country-rap](#)

Also known as: [Beck Hansen](#), [Bjack](#), [Mr. Hansen](#), [Bek David Campbell](#), [Beck](#)

These people have edited this topic:



[Edit this topic](#)

Last edited Sep 9, 2011 [See all topic history](#) »

Related Topics



Eric Clapton

Eric Patrick Clapton, CBE, (born 30 March 1945) is an English guitarist, vocalist, and...



Billy Corgan

William Patrick "Billy" Corgan, Jr. (born March 17, 1967) is an American singer, songwriter,...



Sheryl Crow

Sheryl Suzanne Crow (born February 11, 1962) is an American singer-songwriter, record producer,...



Paul Simon

Paul Frederic Simon (born October 13, 1941) is an American singer-songwriter and...

Beck elsewhere on the web

★ [Official Website](#)

[W](#) [Wikipedia](#)



Beck on Twitter

<http://twitter.com/beck>



Follow

Beck performing live at the Uptown Theater in Napa on Oct 20th. Tickets on sale Monday, Sept 26 at Noon. <http://t.co/J1UsiLda>
Sep 21, 2011

Beck contributed cover of John Martyn song to tribute record in his honor. Proceeds go to the John Martyn Trust Fund - <http://t.co/MeQwg09>
Sep 4, 2011

Beck contributes cover of John Martyn's "Stormbringer" 2 tribute record in his honor, \$ goes 2 John Martyn Trust Fund <http://t.co/EJjtO1R>
Sep 2, 2011

- <http://www.freebase.com/>
- “An entity graph of people, places and things, built by a community that loves open data.”
- Entries may not be disambiguated,
- Links when possible to previously mentioned vocabularies plus many more



Freebase

Linked data and libraries?

- The semantic web idea assumes certain kinds of data of interest to the library community can be encoded in a way that is machine-readable
- Currently library data is structured using MARC
 - MARC is not web-ready!
 - MARC encoding permits display in libraries
 - MARC isn't used outside of the library community
- Online catalog queries are made using unstructured textual strings in particular indexes
 - This is not the most effective way to search or browse



Rationale for the current study

- Transaction log analyses have demonstrated that users do not query OPACs effectively
 - Linked data initiatives are a way to link out to curated data on the web
 - To limit the focus of the current study, it is advisable to concentrate on “authors” in general and personal names in particular
 - The connection between library content, user searches, and linked data is worth exploring in the current library environment
- By investigating a certain class of queries and matching them against the contents of various linked data repositories, it will be possible to gauge the degree of effectiveness a semantic online library catalog might have.



Method

- Analysis of author index (left-anchored) queries to Millennium III Integrated Library System (ILS) at Missouri State University from 28 March – 6 April, 2011.
- Transaction logs
 - showed the characters input minus punctuation, time of the search, and date of the search
 - no information about patron ISP, number of results returned, number of searches in session, etc. were recorded
- Exactly 700 left-anchored author searches were carried out
 - Because of the interest in “authors”, 1-term queries (n=238, 34%) were not considered unless they reasonably represented an artist or association acronym (i.e. Beck, ACM, etc.)



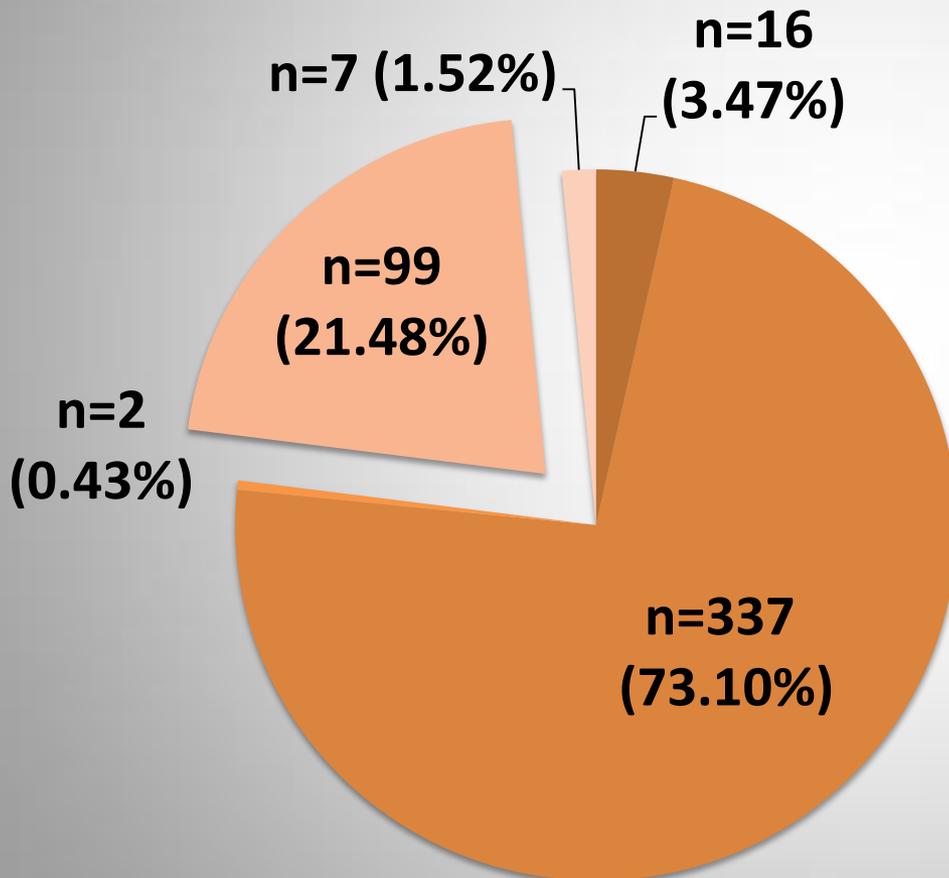
Method, continued

Two-part analysis:

1. To assess the quality of the retained set of OPAC queries, the search terms were analyzed for their context and construction
2. The 462 retained queries were re-run against the OPAC to assess hits
 - Queries yielding zero hits in the OPAC were then manually relaunched in seven linked data repositories



Results: Formulation of OPAC queries

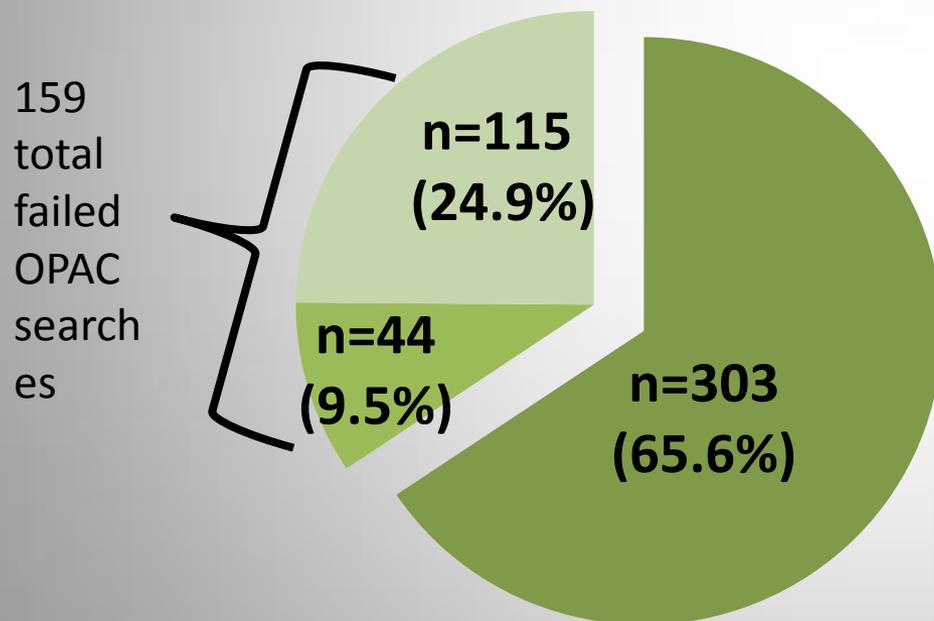


- Corporate bodies (ALL acceptable left anchor) (n=16)
- Personal names: correct left anchor (n=337)
- Personal names: unable to tell if left anchor correct (n=2)
- Personal names: incorrect left anchor (n=99)
- Incorrect index; unable to tell (n=7)



Results: OPAC queries and linked data repositories

Success and failure (fail = 0 hits)
in the OPAC and LD repositories

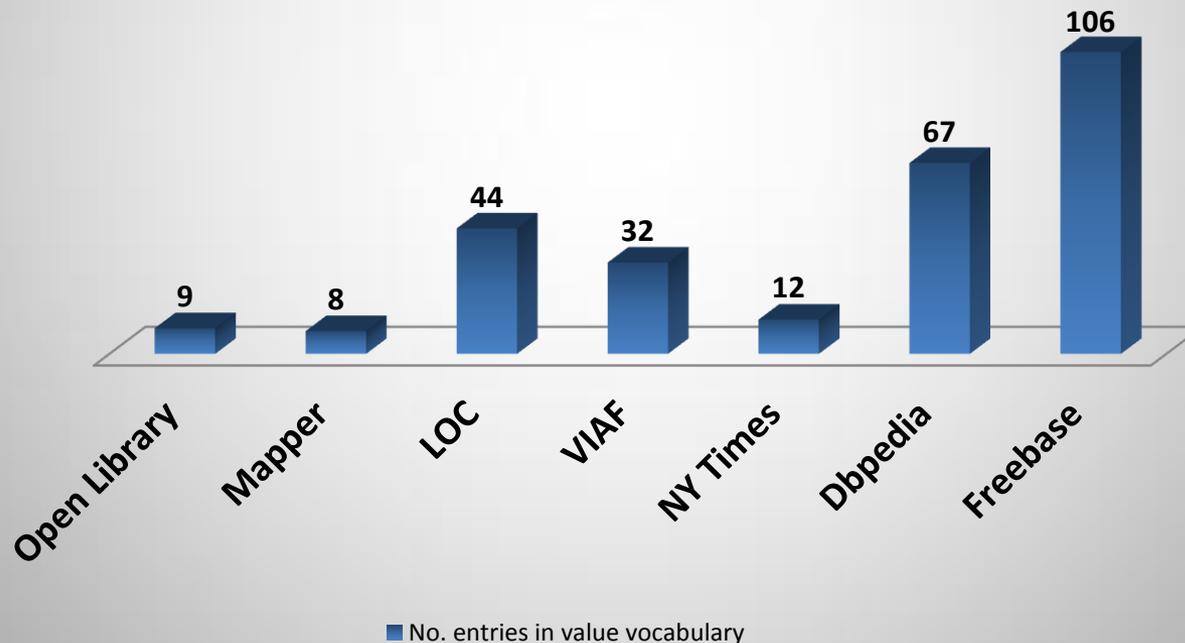


- "Successful" OPAC searches
- Failed OPAC searches, Failed in LD repositories
- Failed OPAC searches, "Successful" in LD repositories



Results: OPAC queries and linked data repositories, continued

Number of results in LD systems for failed OPAC queries (n=159)



Discussion

- Promote linked data in the OPAC when possible
 - Provide access to Freebase-like lists of current resources in response to patron queries through linked data
 - Help users disambiguate names based not only on library holdings, but on LD entries
 - Take advantage of linked information in LD repositories to help patrons explore authors further (access to videos, MySpace pages, etc.)



Summon is already displaying information from Freebase!

MU Libraries

Search Results: Your search for **beck**

Refine your search

- Items with full text online
- Limit to articles from scholarly publications, including peer-review
- Exclude Newspaper Articles
- Add results beyond your library's collection

Content Type

- Any
- Journal Article (243,293)
- eBook (17,551)
- Dissertation (12,631)
- Book (11,222)
- Book Review (4,298)

Excluded Newspaper Article

Subject Terms

- Any
- medicine & public health (11,281)
- studies (9,040)
- psychiatry (8,852)
- depression (8,157)
- psychology (7,377)
- research (7,083)

Publication Date

2011 Summon at MU | Powered by Summon™

Observations:

- Difficult to manipulate from the regular search screen
- Fb blurb not hyperlinked in this iteration (cannot navigate to more info)
- Search results not sufficient for author searching in this instance



Discussion

Continue to work on providing a patron-centered OPAC

- To accommodate the over 20% of the retained author index queries that were incorrectly formulated, libraries might want to consider doing away with left-anchored searches in the author index
 - Avoid issues of searching the “right way” vs. the “natural way”
 - Make authority records and the whole MARC format more granular (i.e. implement RDA)
- Link out to LD resources (that link back to libraries!) when faced with providing zero hits or to supplement information in the OPAC
- Libraries have been doing authority work well for a long time
 - All locally created authority records should be exported and shared to enrich the data available in general
 - Some of the records won’t be perfect, but that’s ok
 - Consider crowdsourcing authority work (see the example at Open Library and Freebase)
 - Make authority records and the whole MARC format more granular (i.e. implement RDA)



Recommendations from the LLD XG

- “That **library standards bodies** increase library participation in Semantic Web standardization, develop library data standards that are compatible with Linked Data, and disseminate best-practice design patterns tailored to library Linked Data; That **data and systems designers** design enhanced user services based on Linked Data capabilities, create URIs for the items in library datasets, develop policies for managing RDF vocabularies and their URIs, and express library data by re-using or mapping to existing Linked Data vocabularies”



Recommendations based on this study

- Continue to strive to provide the resources patrons want at the point of need
 - Consider if linked data within library systems can assist in this mission
- Continue to innovate, while using standards that are accepted by the web at large
 - Do library-only standards like MARC still have a place?



Start Over

Return to List

Limit/Sort Search

Another Search

Search MOBIUS

(Search History) ▾

Author ▾ beck All MERLIN ▾ Search

Save Marked Records

Save All On Page

Create/Save to My Lists

Beck

Authors (1-4 of 4)

1	Lov, Sara Young Eyes (The) (EP) / [Electronic Resource]	2009		<input type="checkbox"/>
2	Mayor Of The Sunset Strip / [Videorecording] / First Look Media Presents ; In Association With S	2004		<input type="checkbox"/>
3	Sea Change / [Sound Recording] / Beck.	p2002		<input type="checkbox"/>
4	TEETERING ON THE EDGE:A SUBSTANTIVE THEORY OF POSTPARTUM DEPRESSION			<input type="checkbox"/>

Save Marked Records

Save All On Page

Locate In Results

4

Start Over

Return to List

Limit/Sort Search

Another Search

Search MOBIUS

(Search History) ▾

Beck

Country of nationality: [United States of America](#)

Gender: [Male](#)

Profession: [Songwriter](#)
[Singer](#)
[Guitarist](#)
[Keyboard player](#)
[Musician](#)
[Singer-songwriter](#)
[Record producer](#)

[View Beck: Professions »](#)

Religion: [Scientology](#)

Ethnicity: [Jewish people](#)
[Swedish American](#)
[Norwegian American](#)
[Scandinavian American](#)

[View entire collection](#)

Beck elsewhere on the web

- [Official Website](#)
- [Wikipedia](#)
- [MusicBrainz](#)
- [MusicBrainz](#)
- [MusicBrainz](#)
- [IMDb profile](#)
- [NNDB](#)
- [http://www.rockband.com/...](http://www.rockband.com/)
- [MySpace Page](#)
- [Facebook Page](#)
- [Twitter Page](#)
- [TVRage](#)
- [Beck Videos](#)
- [Spanish Wikipedia](#)
- [Italian Wikipedia](#)
- [Portugese Wikipedia](#)
- [German Wikipedia](#)
- [French Wikipedia](#)
- [Japanese Wikipedia](#)
- [Netflix](#)
- [Portugese Wikipedia](#)
- [Italian Wikipedia](#)
- [Spanish Wikipedia](#)
- [German Wikipedia](#)
- [Japanese Wikipedia](#)
- [French Wikipedia](#)
- [Wikipedia](#)

a "semantic OPAC"

Possible results screen for

Desirability of a semantic OPAC?

- Data quality for linked data portions would have to be vetted outside of the library
 - WWW domains would be key to decisions to trust, but would not be foolproof
 - Users who surf away from the library gateway *may* not come back
 - Yet we know they don't begin their searches in the OPAC anyway, so is it wrong to “reward” with the info they want users who actually come to the library OPAC and find little?
- Machine matching inherently flawed
 - Human intervention still necessary for complete assurance of proper disambiguation
 - Human intervention can be crowdsourced! (c.f. Open Library)



LIBRARY OF CONGRESS ASK A LIBRARIAN DIGITAL COLLECTIONS LIBRARY CATALOGS GO Options

The Library of Congress > Authorities & Vocabularies > LC Name Authority File

King, Stephen

From [Library of Congress Name Authority File](#)

Details Visualization

 **King, Stephen**

URI(s)

- > <http://id.loc.gov/authorities/names/n93053165>

Instance Of

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

Scheme Membership(s)

- > [Library of Congress Name Authority File](#)

Collection Membership(s)

- > [Names Collection - Authorized Headings](#)
- > [LC Names Collection - General Collection](#)

Variants

- >  קינג, סטיבן

Exact Matching Concepts from Other Schemes

- > <http://viaf.org/viaf/sourceID/LC%7Cn+93053165#skos:Concept> [↗](#)

Sources

- > found: [Arranger of Three carols]
- > found: Three carols, c1991: t.p. (Stephen King)
- > found: [Author of Ten years in all]
- > found: Ten years in all, 1969: (Stephen King)
- > found: [Author of Display screen equipment]
- > found: Display screen equipment, 1993
- > found: BL database, 13 Dec. 2006 (hdg.: King, Stephen)
- > found: [Author of Munstead Wood]

Limitations to machine matching

- Freebase's page for the horror novelist Stephen King (b. 1947) links to this LOC Names page... the page for the undifferentiated name heading "Stephen King" (i.e. the wrong heading!)



Limitations to the current study

- Transaction logs very limited in information provided
 - Unable to isolate librarian searches, in-library or on-campus searches, and off-campus searches
 - Results as seen by patrons not explicit
 - Over time, some of the books were acquired
 - Search sessions not identified
- Transaction log analysis cannot infer patron
 - Intent
 - Success and/or satisfaction
 - Knowledge



Future studies

- Future work should consider the need to
 - Build a prototype semantic OPAC and to test it on users
 - Continue analyzing patron OPAC queries
 - To ascertain the extent to which local collections meet user needs above and beyond the abilities of curated linked data repositories, it would be beneficial to examine all *successful* queries and to compare them with the results in LD repositories



Conclusion: The OPAC and the Web: Harmonious Future or Perpetual Discord?

- In the context of the rapidly changing information environment, it is recommended that libraries further embrace web resources as a way of providing patrons with the information they seek. This may mean integrating them into the OPAC, and removing the OPAC from the deep web to integrate it with the web at large.
- Libraries must continue to be a vital part of the information ecosystem, and exploiting existing resources like linked data is one way that can take place.

