10-15-2008

Next Generation Catalogs

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Next Generation Catalogs

Iowa Library Association

10/15/08

Brian Thompson, Systems Librarian
Sue Julich, Head of Enterprise Applications and Web Services
Wendy Robertson, Digital Resources Librarian
What is a Next Generation Catalog?

- Is this coming in the future?
- Is this still a catalog?
- Catalog 2.0?
- 3rd generation OPAC?
What is a Next Generation Catalog? (cont.)

- Web 2.0 features?
- Relevancy?
- Facets?
- Simple search?
- “I know it when I see it” - Supreme Court Justice Potter Stewart, speaking on obscenity
Online Catalogs

- "Most integrated library systems, as they are currently configured and used, should be removed from public view."

- Roy Tennant, CDL
Problems with OPACs

- Lack of simple search interface
- Lack of relevancy – LIFO method of retrieval
- No forgiveness on spelling errors
- Author searches must be entered last name first
- Confusion with browse searches that need to omit initial articles, yet results sometimes still found with articles
Problems with OPACs

- Response time too slow, especially with keyword searches
- Authority searching not understood by most users and not often used
- Helpful subject headings often buried in full record display that users never get to
- Users not familiar with browse searching libraries use – are used to browsing by not entering any search term
- OPACs designed to pre-filter, not post-filter
Other General Issues

- Too many silos
- Users looking to be able to find digital content & multimedia in searches
Next Gen Features

- Simple search interface
- Facets / Ability to drill down
- Relevancy
- Spell Check / Did you mean?
- Deconstruction of silos
- Hot words / Ad words
- User tags
- User reviews
- Record sharing
Next Gen Features

- Enriched displays
  - Thumbnails of cover art
  - Links to table of contents
  - Links to abstracts and/or excerpts

- RSS feeds

- Export features to bibliographic management utilities (e.g. RefWorks & EndNote)

- Related Searches
Next Gen Features

- De-duplication
- FRBR (Functional Requirements for Bibliographic Records)
  - Entity relationship model for bibliographic databases
  - Work—Expression—Manifestation—Item
FRBR

- Work
FRBR

- Expression
FRBR

- Manifestation
Next Gen Examples

- Endeca - ProFind
- MediaLab Solutions – Aquabrowser
- OCLC – WorldCat Local
- Ex Libris – Primo
- III – Encore
- SirsiDynix – Enterprise Portal Solution
- TLC – YouSeeMore
Next Gen Examples

- Villanova University – VuFind
- University of Rochester – eXtensible Catalog
- Next Gen flavor in traditional ILS;
  - Polaris
  - Evergreen (PINES Catalog)
  - Koha
Work yet to be done

- “If the world were perfect, it wouldn’t be”
  - Yogi Berra
Lists, etc.

- NGC4Lib – Eric Leese Morgan’s mailing list (http://dewey.library.nd.edu/mailing-lists/ngc4lib/)
- Designing for the Future – Karen Coyle’s wiki (http://futurelib.pbwiki.com/)
- LITA’s NGC Interest Group (http://www.ala.org/ala/mgrps/divs/lita/litamembership/litaigs/nextgencatalog/nextgencatalog.cfm)
Links

- Endeca ProFind – http://www.endeca.com
- AquaBrowser - http://www.aquabrowser.com
- WorldCat Local –
- Primo - http://www.exlibrisgroup.com/category/PrimoOverview
More Links

- VuFind - http://www.vufind.org/
- eXtensible Catalog - http://www.vufind.org/
- Polaris - http://www.polarislibrary.com/
- Evergreen - http://open-ils.org/
- Koha - http://www.koha.org/
Searching in the Next Generation Catalog

Sue Julich
University of Iowa Libraries
Applications and Web Services

ILA Preconference, Dubuque IA October 2008
Next Generation Catalogs
Searching

• Terms & Definitions
• Where’s the Data?
• Web Searching in the Next Generation Catalog
• Help me!
Some terms

- Federated Search
- MetaSearch
- Deep Search
- Cross-Platform Search
- Broadcast Search
Definition

• …an application or service that allows a user to submit a search in parallel to multiple, distributed information sources and retrieve aggregated, ranked, and de-duped results

• From a presentation by Abe Lederman, Deep Web Technologies at the Next Generation Library Technologies Conference May 7, 2008 at the FDR Presidential Library, Hyde Park, NY

http://www.deepwebtech.com/talks/notequal_0508.ppt
Simply Put:

the ability to search multiple data sources simultaneously and present the results to our users in a familiar, useful way.
Federated Search

Search Interface

OPAC

E-resources

Public web

Blogs/wikis

......
MetaSearch
Information in Silos

- **Information silo** – a management system incapable of reciprocal operation with other related management systems.

Software developers must employ middleware and web services to overcome the limitations of disparate systems.
Information Today

Local databases and storage

Catalogs of books and resources

Information Silos

Web sites/pages
Web Crawling and Indexing

- Web crawling is when a search engine starts with a list of known web pages, extracts the text and follows the links from those pages to others to extract that text.

- The text is then indexed for rapid search & retrieval.
Deep web searching

- Performs live searches of content that lives in databases that cannot be crawled and indexed. This is largely accomplished through the use of web-forms to send and retrieve information from native search interfaces.
The Next Generation Catalog

- Is flexible in how/what it searches
- Is able to sort, organize and display results in a meaningful manner
- Goes one step further and point the user to information or services that they might not have known about
Endeca

NCSU LIBRARIES

Search the Collection

Catalog
Books, ebooks, journal titles, movies and music, government documents, microforms...

Articles
Articles in journals, newspapers, magazines, trade publications,...

Journals
Journals, newspapers, magazines, and other periodicals by title

Databases
Research databases by subject or by name

Special Collections
University Archives, manuscripts, unpublished papers, photos, rare books

Reference Tools
Encyclopedias, dictionaries, statistics, geography, handbooks, directories, biographies,...

Other Collections and Research Tools
Citation tools, geospatial data (GIS), numeric data, genomic data, dissertations, government documents, grant information, image collections, library catalogs, maps, atlases, patents, PBS videos online, trademarks, standards, technical reports, faculty publications

Reserves
Reserved material by course or by instructor

Browse Subjects
Select a subject area to find related databases, journals, reference tools, books, and more

- Select Subject Area -
Library Web

Find articles on history in:
- General databases: Quick article search
- Specialty research databases: History, History of Science & Technology, Communication & Media, Film Studies, More...

North Carolina State University History: NCSU Libraries
- North Carolina State University History: NCSU Libraries MY LIBRARY:
  Library...CAB Abstracts Historical State (University History) Ask the Archivists...
  http://www.lib.ncsu.edu/universityarchiv...tory/index.html - Cached

Title Page and Table of Contents: An Informal History: NCSU Provost's Office
- ...of Contents: An Informal History: NCSU Provost's Office MY...CAB
  Abstracts Historical State (University History) Ask the Archivists...
  http://www.lib.ncsu.edu/universityarchiv...tory/index.html - Cached

Historical State: NCSU History
- Month in NCSU History Timelines and narratives...this month in history.
  http://www.lib.ncsu.edu/universityarchiv...tate/index.html - Cached

NCSU Libraries
- Communication & Media Film Studies History History of Science &...
  Economics Family & Consumer Sciences History...
  http://www.lib.ncsu.edu/ - Cached

NCSU Libraries: About the Collections
- century architecture. Browse architecture collections History of Computing and...
  Simulation Archive The history of computing collection...
  http://www.lib.ncsu.edu/collectionmanage...collections.html - Cached

History of the NCSU Libraries' Directors: North Carolina State University History: NCSU Libraries
- accomplishment in ARL history. During her tenure, the...head of the History Department and chair...
  http://www.lib.ncsu.edu/universityarchiv...directors.html - Cached

History: Reference Tools: NCSU Libraries
- Reference Tools: NCSU Libraries MY...Engineering Village 2...CAB
  Abstracts History HyperHistory Online Search the...
  http://www.lib.ncsu.edu/searchcollection...is/history.html - Cached

Search the Collection: NCSU Libraries
- Genetics & Genomics Graphic Design History History of Science &...
  http://www.lib.ncsu.edu/searchcollection/ - Cached

Library Catalog

Top titles
- East Asia: a cultural, social, and political history
- Forty studies that changed psychology: explorations into the his...
- Graphic design history: a critical guide

See all 243716 titles

Format
- Book (235467)
- Online (49371)
- Microforms (7237)
- Journal, Magazine, or Serial (2637)
- Videos and DVDs (2005)

More...

More Search Options

Find results for history in:
- NCSU Scholarly Publications Repository
- NCSU Electronic Theses & Dissertations

Add QuickSearch to iGoogle
What People are Saying About Smart Search

Searching in Smart Search

**Question:** When I use Smart Search I get too many results. How can I find what I'm looking for without scrolling through page after page of seemingly irrelevant results?

**Answer:** Smart Search is designed to provide you with information from a variety of sources. To zero in on specific information or sources, you can do a broad search (the default search) and then narrow the results down to what you're looking for or you can refine your search up front.

If you are looking for information about a topic doing a broad, default search. Smart Search will provide you with links to a lot of information. The default search looks for all items that contain the words in your search string in any order, anywhere in the record. After the results are returned, you can focus in on the types of information you are looking for by using the Refine My Results facets on the right side of the result page. Are you looking for only online resources? Follow the online resources link under the Top Level facet to limit the result set to those resources that are available online. Do you want to narrow your search results to only German language videos? Use the Language and the Genre/Form facets. The numbers in parenthesis indicate how many records you'll see if you refine by a particular facet.

If you are looking for a specific title, author, topic or format when you do a search, change the Limit to: options that can be found directly under the search box. You can specify a particular format (books, journals, images, maps, music scores, etc.) You can specify that the words you use in your search simply be in the record somewhere in any order, or you can change it to “with my exact phrase” and only look for the words in the order that you typed them. And finally, you can change where the system will look for your search words within the record from “anywhere in the record” to specifically look at just the title, or just an author/creator, or in the table of contents (TOC), etc.
What People are Saying About Smart Search

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Quick Sets-Federated Searching in Primo

- Art
- Business
- Communication
- Education
- Engineering
- General
- Etc.
Records 1 - 20 of 449 from InfoHawk Catalog (max. display and sort is 1000)

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<td>Congress behaving badly: the rise of partisanship and incivility and the death of public trust /</td>
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University of Iowa – Immediate Online Access
E-JASL: The Electronic Journal of Academic and Special Librarianship

v.9 no.2 (Summer 2008)

Employee Development Using WebCT Vista
Jennifer Link Jones

Introducing Learning Commons Functionality into a Traditional Reference Setting
Jeffrey A. Franks

Tallying the Chad Marks in the Ballot Box: A Survey of Distance Learning Library Services in Florida’s State Universities
Sarah J. Hammill

Library 2.0 and the Problem of Hate Speech
Margaret Brown-Sica and Jeffrey Beall

v.9 no.1 (Spring 2008)

Trend Setters: Computers in the Commons Environment
Kim Granath and Sue Samson

Back to Basics: Reviving Ethical Practice in Library

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Buy any 3 select t-shirts, polos, mocks or turtles & save $2.50 each.

Our women's t-shirts and tops are brimming with quality, value & comfort. And, like everything we sell, all of our women's t-shirts and tops are Guaranteed. Period.

SHOP BY SIZE: REGULAR PLUS SIZE PETITE TALL SIZE CHART

Women's Shirts & Sweaters

Sort By: Recommended

Items 1 - 12 of 265 12 per page 1 2 ... 23
### Featured Items

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<td>$19.98</td>
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1. **Ethics, Nationalism, and Just War: Medieval and Contemporary Perspectives** by Henrik Syse and Gregory M. Reichberg (Paperback - Sep 3, 2007)
   - **Buy new:** $39.95  21 Used & new from $22.70
   - Get it by Tuesday, Oct 14 if you order in the next 3 hours and choose one-day shipping.
   - Eligible for FREE Super Saver Shipping.
   - Excerpt - page 3: "... in the Middle Ages and Today JAMES TURNER JOHNSON Do medieval views of war have any relevance today? ..."
   - Surprise me! See a random page in this book.

   - **Buy new:** $23.95
   - Available for Pre-order
   - Eligible for FREE Super Saver Shipping.

3. **Class Conflict and the Crisis of Feudalism: Essays in Medieval Social History (Rev)** by Rodney H. Hilton (Paperback - Feb 1, 1997)
   - **Buy new:** $39.95  22 Used & new from $20.00
   - Get it by Wednesday, Oct 15 if you order in the next 23 hours and choose one-day shipping.
   - Eligible for FREE Super Saver Shipping.
   - Other Editions: Hardcover

4. **Utopia (Everyman's Library (Cloth))** by Thomas More (Hardcover - April 28, 1992)
   - **Buy new:** $16.00  $12.00  41 Used & new from $3.00
   - Get it by Tuesday, Oct 14 if you order in the next 3 hours and choose one-day shipping.
   - Eligible for FREE Super Saver Shipping.
   - Excerpt - Front Matter: "... ENIRYS, 'Commoners and Kings: Book One of More', Utopia', in Medieval ..."
   - Surprise me! See a random page in this book.

5. **In place of profit; Social incentives in the Soviet Union** by Harry Frederick Ward (Unknown Binding - 1933)
   - Currently unavailable
1. **Our Sceptered Isle.**
   By: Huntley, Dana. British Heritage, Nov 2008, Vol. 29 Issue 5, p14-17, 4p; (AN 34219974)
   HTML Full Text  PDF Full Text (1.8MB)
   Add to folder
   InfoLink

2. **Long-term summer temperature variations in the Pyrenees.**
   By: Büntgen, Ulf; Frank, David; Grud, Håkan; Esper, Jan. Climate Dynamics, Nov 2008, Vol. 31 Issue 6, p615-631, 17p, 1 chart, 12 graphs, 1 map, 1 color; DOI: 10.1007/s00382-008-0390-x; (AN 34425896)
   Abstract Only
   Add to folder
   InfoLink

3. **The Argumentative Structure of Persuasive Definitions.**
   Abstract Only
   Add to folder
   InfoLink

4. **The Egyptian Connection.**
   (AN 34273744)
Search for items: medieval

Results 1-10 of about 180,166 (.58 seconds)

1. The Canterbury tales, by Geoffrey Chaucer; Walter W Skeat
   - Book: Fiction
   - Language: English
   - Publisher: New York, Modern library [1929]
   - View all editions and formats

2. Good masters! Sweet Ladies!: voices from a medieval village
   by Laura Amy Schlitz; Robert Byrd
   - Book: Drama; Juvenile audience
   - Language: English
   - View all editions and formats

3. Medieval children
   by Nicholas Orme
   - Book
   - Language: English
   - View all editions and formats

4. The jester: a novel
   by James Patterson; Andrew Gross
   - Book: Fiction
   - Language: English
   - Publisher: Boston: Little, Brown, ©2003.
   - View all editions and formats

5. Medieval life
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<td>2008</td>
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<td>The medieval review TMR.</td>
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<td>Medieval Institute, College of Arts and Sciences, Western Michigan University</td>
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</tbody>
</table>

**Refine My Results**

Narrow my results by limiting the search to:

- **Availability:**
  - Online Resources (355)
  - Available (15,404)

- **Material Type:**
  - Books (15,918)
  - Journals (177)
  - Other (24)

- **Author/Creator:**
  - Pontifical Institute of Mediaeval Studies (103)
  - American Council of Learned Societies (101)
  - University of Toronto. Centre for Medieval Studies (28)
  - International Congress on Medieval Studies (20)
  - Medieval Academy of America (19)

- **Subject:**
  - Civilization, Medieval (1,080)
  - Literature, Medieval (825)
  - Middle Ages (682)
  - Great Britain (617)
Why Facets

- Post filter rather than a pre-filter on a search
- Less expertise needed in constructing a complex search
- Commonly used outside of libraries
Caveat:
Only as good as the data in the record
Common Facets
Language

NCSU’s Endeca

U Chicago’s Aquabrowser

Michigan State’s Encore

Iowa’s Primo

U Washington’s Worldcat local
Collection or Library

NCSU’s Endeca
U Chicago’s Aquabrowser

Michigan State’s Encore

Iowa’s Primo

Collection:
- Main (13,479)
- Art (1,314)
- Main Storage (1,024)
- Rita Benton Music (705)
- Law (586)
- Electronic (523)
- Main Media Services (486)
- default (311)
- Curriculum Lab (127)
- Main (67)
- Information Arcade (37)
  - Hide last 6
Subject / Topic

NCSU’s Endeca

Iowa’s Primo

U Chicago’s Aquabrowser
Date

U Chicago’s Aquabrowser
- Publication date
  - This year (272)
  - In the last 3 years (3133)
  - In the last 10 years (11356)
  - In the last 50 years (28980)
  - More than 50 years ago (6873)

U Washington’s Worldcat local

Iowa’s Primo
- Creation Date:
  - After 1993 (7.524)
  - 1980 To 1993 (5.189)
  - 1967 To 1980 (3.352)
  - 1954 To 1967 (1.961)
  - Before 1954 (3.639)
Call Number

U Chicago’s Aquabrowser

NCSU’s Endeca
Less Common Facets
<table>
<thead>
<tr>
<th>NCSU’s Endeca</th>
<th>U Chicago’s Aquabrowser</th>
<th>Iowa’s Primo</th>
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<tbody>
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<tr>
<td>Refine Your Search</td>
<td>Availability</td>
<td>Availability:</td>
</tr>
<tr>
<td>Currently available</td>
<td>Available (574)</td>
<td>Online Resources (682)</td>
</tr>
<tr>
<td>Available online</td>
<td>Not Available (39)</td>
<td>Available (17,470)</td>
</tr>
<tr>
<td>New titles</td>
<td>Available Online (1)</td>
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</tbody>
</table>
Genre

NCSU’s Endeca

U Chicago’s Aquabrowser

Iowa’s Primo
Region

NCSU’s Endeca

U Chicago’s Aquabrowser

- England (759)
- Europe (635)
- Great Britain (549)
- France (270)
- Italy (211)
- India (123)
- Spain (103)
- Germany (91)
- United States (90)
- Japan (63)

- Geographic Region
  - Great Britain (510)
  - England (140)
  - France (19)
  - Normandy (France) (11)
  - Ireland (9)
  - 38 more...
Time Period

NCSU’s Endeca

U Chicago’s Aquabrowser
Tags

U Chicago’s Aquabrowser

Michigan State’s Encore
Examples

http://www.lib.ncsu.edu/catalog/

http://www.lib.uiowa.edu
Grouping of Records (FRBR)
Multiple editions & formats

| 1. | Harry Potter and the deathly hallows by J K Rowling; Mary GrandPré
   | Format: Book (41) |
   | Displaying Editions 1 - 9 out of 9 |
   | 1. | Harry Potter and the Deathly Hallows by J K Rowling |
   | Language: English |
   | Held by: WorldCat Libraries |

| 2. | Harry Potter and the deathly hallows by J K Rowling; Stephen Fry |
   | Language: English |
   | Held by: WorldCat Libraries |

| 3. | Harry Potter and the deathly hallows by J K Rowling; Jim Dale |
   | Language: English |
   | Held by: WorldCat Libraries |

| 7. | 午夜魔法-死亡聖物 |
   | Language: Spanish |
   | Held by: WorldCat Libraries |