Next Generation Catalogs

Brian Thompson
*University of Iowa*

Sue Julich
*University of Iowa*

Wendy Robertson
*University of Iowa*
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/](http://dewey.library.nd.edu/mailing-lists/ngc4lib/))
- LITA’s NGC Interest Group ([http://www.ala.org/ala/mgrps/divs/lita/litamembership/litaigs/nextgencatalog/nextgencatalog.cfm](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/](http://www.vufind.org/)
- eXtensible Catalog - [http://www.vufind.org/](http://www.vufind.org/)
- Evergreen - [http://open-ils.org/](http://open-ils.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

Search Engine

Search Engine

Search Engine

Info

Info

Info

Info

Info

Info

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

**Search the Collection: NCSU Libraries**
... Genetics & Genomics Graphic Design History History of Science & ... http://www.lib.ncsu.edu/searchcollection/ - Cached
Find ...
Journal Articles
Books / Journal Titles
Featured Collections

Find Resources ▼ Services ▼ My Personal Library ▼ About the Libraries ▼ Help ▼ Campus Libraries & Hours ▼ Contact Us ▼

Smart Search

Go

Contact Us

Chat

U Iowa LibRef is online

Type here and hit enter to send a private message.
edit nickname: meebo625512

get meebo

News & Events

“Voices of Open Access” Series Available Online
Oct 14, 2008

CIC Libraries Launch Digital Repository: HathiTrust
Oct 14, 2008

African Film Screening - Oct 15
Oct 14, 2008

Satellite Early Voting - Oct 15
Oct 13, 2008

more news...
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 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)

Sorted by: Year
Re-sort results by: Year | Author | Title | Call Number | Format

1. [Display full record] [Display Availability]
   - Author: Ahuja, Sunil.
   - Title: Congress behaving badly: the rise of partisanship and incivility and the death of public trust
   - Published: Westport, Conn. : Praeger, 2008.
   - Format: Book
   - Location: Main Library JK1041 .A48 2008
   - Availability: Check shelf or Request delivery

2. [Display full record] [Display Availability]
   - Author: Angel, Jacqueline Lowe.
   - Title: Inheritance in contemporary America: the social dimensions of giving across generations
   - Published: Baltimore : Johns Hopkins University Press, 2008.
   - Format: Book
   - Availability: Check shelf or Request delivery

3. [Display full record] [Display Availability]
   - Title: Politics and ethics of the Indian Constitution
   - Format: Book
   - URL: Table of contents [http://www.loc.gov/catdir/toc/fy0804/2008330041.html](http://www.loc.gov/catdir/toc/fy0804/2008330041.html)
   - Location: Law Library
   - Availability: Check shelf or Request delivery
E-JASL: The Electronic Journal of Academic and Special Librarianship

Published and Distributed by the International Consortium for the Advancement of Academic Publication (ICAAP)

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

ISSN 1704-8532

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Stock up and save.

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.

Women's Shirts & Sweaters

Sort By: Recommended

Items 1 - 12 of 265
12 per page
1 2 ... 23
<table>
<thead>
<tr>
<th>Item Description</th>
<th>Bids</th>
<th>Price</th>
<th>Shipping</th>
<th>Time Left</th>
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<tr>
<td><strong>Medieval Manuscript VELLUM BREVARIY LEAF Ca. 1400 Italy</strong></td>
<td>28</td>
<td>$122.50</td>
<td>Free shipping</td>
<td>4h 39m</td>
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<tr>
<td>SAINT AMBROSE TE DEUM LAUDAMUS - OUTSTANDING DECORATION</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>SUIT OF ARMOR SOLID MEDIEVAL KNIGHT LARP CHEVALIER TOP</strong></td>
<td></td>
<td>$799.00</td>
<td></td>
<td>3d 18h 13m</td>
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<td>SUPERB COMPLETE SUIT OF ARMOR SUITABLE / WEARABLE (NEW)</td>
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<td>$799.00</td>
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<td><strong>MEDIEVAL PEWTER WINE DECANTER RED GLASS VINTAGE RARE!!!</strong></td>
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<td>$169.00</td>
<td>Free shipping</td>
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<tr>
<td><strong>Celtic leather bracers medieval renaissance costume</strong></td>
<td>1</td>
<td>$25.00</td>
<td>Free shipping</td>
<td>1h 33m</td>
</tr>
<tr>
<td><strong>Stainless Steel Medieval Cross Band</strong></td>
<td>0</td>
<td>$19.98</td>
<td>Free shipping</td>
<td>3h 20m</td>
</tr>
</tbody>
</table>
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; Grudd, Häkan; 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.**
   [Add to folder][InfoLink]
1. The Canterbury tales, by Geoffrey Chaucer; Walter W Skeat
   - Book: Fiction
   - Language: English
   - Publisher: New York, Modern library [1929]

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

3. Medieval children
   by Nicholas Orme
   - Book
   - Language: English

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

5. Medieval life
Results 1 - 10 of 7857

Brief View | Full View

1. The worlds of medieval Europe
   Author: Backman, Clifford R.
   Published: 2009.
   Format: Book
   D.H. Hill Library
   Stacks (3rd floor) D131 .B33 2009 Available

2. Rethinking the medieval senses: heritage, fascinations, frames
   Published: 2008.
   Format: Book
   D.H. Hill Library
   Stacks (3rd floor) CB351 .R455 2008 Available

3. Later medieval English literature
   Author: Gray, Douglas, 1930-
   Published: 2008.
   Format: Book
   D.H. Hill Library
   Stacks (5th floor) PR291 .G73 2008 Available

4. Wisdom and her lovers in medieval and early modern Hispanic literature
   Author: Francomano, Emily C.
   Published: 2008.
   Format: Book
   D.H. Hill Library
   Stacks (5th floor) PQ6048 .W6 F73 2008 Available
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<th>Title</th>
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<td>2</td>
<td>Speculum</td>
<td>Rand, Edward Kennard, 1871-1945; Mediaeval Academy of America.; Medieval Academy of America. Mediaeval Academy of America 1926</td>
<td>Online access</td>
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<td>3</td>
<td>Medieval sermon studies MMS.</td>
<td>International Medieval Sermon Studies Society. Published for the International Medieval Sermon Studies Society under the auspices of the Centre for Medieval Studies (Leeds) 1991-</td>
<td>Online access</td>
</tr>
<tr>
<td>4</td>
<td>Annual proceedings of the Graduate Centre for Medieval Studies in the University of Reading.</td>
<td>University of Reading. Graduate Centre for Medieval Studies. Graduate Centre for Medieval Studies in the University of Reading; distributed by Parker and Son Ltd.] 1975</td>
<td>Online access</td>
</tr>
<tr>
<td>5</td>
<td>The medieval review TMR.</td>
<td>Western Michigan University. Medieval Institute. Medieval Institute, College of Arts and Sciences, Western Michigan University [1993?]-</td>
<td>Online access</td>
</tr>
</tbody>
</table>
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
Subject / Topic

NCSU’s Endeca

- History (3168)
- History and criticism (1228)
- Civilization, Medieval (518)
- English literature (287)
- Civilization (263)

Iowa’s Primo

- Civilization. Medieval (1,253)
- Literature. Medieval (977)
- Great Britain (806)
- Philosophy. Medieval (693)
- Europe (587)
- Middle Ages (568)
- Manuscripts, Medieval (413)
- Music (359)
- Catholic Church (262)
- Social history (238)
- Education, Medieval (208)
- Rhetoric, Medieval (189)
- Law, Medieval (183)
- Renaissance (173)
- Science, Medieval (159)
- Archaeology, Medieval (91)
- Christian literature, Latin (Medieval and modern) (84)
- Manuscripts, Latin (58)
- Black death (18)
- Incipits (7)

U Chicago’s Aquabrowser

- History (9835)
- History and criticism (3871)
- Literature, Medieval (1163)
- Philosophy, Medieval (1122)
- Civilization, Medieval (1112)
- 10805 more...
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
- Year
  - 2007 (90)
  - 2006 (104)
  - 2005 (136)
  - 2004 (127)
  - 2003 (118)
  - Show more ...

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

Iowa’s Primo

Classification:

Search for: medieval

Limit to: All items, that contain my query words, anywhere in the record.

And Classification LCC is: D - History (general) and history of Europe.

History of Great Britain

History of Great Britain—England

History of Great Britain—England—History—By period

History of Great Britain—England—History—By period—Early and medieval to 1485

Commonwealth of Nations

The Commonwealth (2)
Call Number

U Chicago’s Aquabrowser

NCSU’s Endeca
Less Common Facets
Availability

NCSU’s Endeca

U Chicago’s Aquabrowser

Iowa’s Primo

Refine Your Search
- Currently available
- Available online
- New titles

Availability:
- Online Resources (682)
- Available (17,470)
- Available (574)
- Not Available (39)
- Available Online (1)
Genre

NCSU’s Endeca

U Chicago’s Aquabrowser

Iowa’s Primo

- Genre
  - Early works to 1800 (321)
  - Congresses (292)
  - Electronic books (251)
  - Reference (247)
  - Primary Sources (216)

- Genre
  - Biography (63)
  - Congresses (24)
  - Sources (24)
  - Handbooks, manuals, etc (2)
  - Early works to 1800 (2)
  - 13 more...

- Genre/Form:
  - Congresses (417)
  - Early works to 1800 (328)
  - Sources (145)
  - Catalogs (93)
  - Periodicals (87)
  - Show 8 more
Region

NCSU’s Endeca

U Chicago’s Aquabrowser
Time Period

NCSU’s Endeca

- To 1500 (431)
- Medieval, 500-1500 (342)
- Middle English, 1100-1500 (281)
- Middle Ages, 600-1500 (278)
- 1066-1485 (205)
- 16th century (156)
- Medieval period, 1066-1485 (129)
- 17th century (107)
- Middle Ages, 500-1500 (103)
- Old English, ca. 450-1100 (90)

Show more

U Chicago’s Aquabrowser

- Medieval period, 1066-1485 (139)
- 1066-1485 (117)
- Anglo Saxon period, 449-1066 (50)
- Norman period, 1066-1154 (40)
- Lancaster and York, 1399-1485 (39)
- 80 more...
Tags

U Chicago’s Aquabrowser

Michigan State’s Encore

Refine by Tag:

- christian art and symbolism
- england
- english literature
- europe
- great britain
- learning and scholarship
- medieval and modern latin language
- medieval architecture
- medieval art
- medieval civilization
- medieval literature
- medieval manuscripts
- middle ages
- renaissance
- social history
- [Show more tags]
Other Possibilities

**New Books**
- Last Month (465)

**Content**
- Thesis/dissertation (10556)
- Biography (3593)
- Fiction (1604)
- Non-Fiction (178582)

**Source**
- Catalog (35985)
- Website (244)
- e-Resources (37)
- Archives & Manuscripts Finding Aids (20)

**Series**
- Medieval & Renaissance Texts & Studies (Series) (123)
- Medieval and Renaissance texts and studies ; (109)
- Middle Ages series (93)
- Variorum collected studies series ; (91)
- Studies and texts, (73)
- 10139 more...

**Subject, Medical (MeSH):**
- History, Medieval (64)
- History, Medieval -- England (15)
- History, Medieval -- Europe (8)
- History, Medieval -- Italy (8)
- Medical Illustration -- history (3)
  - Show 9 more
Examples

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

http://www.lib.uiowa.edu
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