
Library Catalog as Versatile Discovery Platform

Tito Sierra, Emily Lynema, and Markus Wust
North Carolina State University Libraries
DLF Fall Forum 2007
November 6, 2007

Outline

- Next Generation Catalogs
- Catalog as Discovery Platform
- CatalogWS API
- Current CatalogWS Applications
- Closing Thoughts

Next Generation Catalogs

Background



Examples - Endeca

NCSU LIBRARIES

Search the Collection | Browse Subjects | Services | Library Information | Community | News & Events

MY LIBRARY: Library Account | My Course Reserves | My Alerts | RefWorks

Catalog Search: usability Anywhere [Start Over](#)

☐ Search within results

Send search to:

Search 'usability' :
We found **477** matching items. Limit results to [currently available items](#).

New titles for this search via [RSS](#)
[What is this?](#)

Narrow By Call Number Range:
A - General Works (1)
B - Philosophy. Psychology. Religion (3)
G - Geography. Anthropology. Recreation (8)
H - Social sciences (32)
L - Education (21)
N - Fine Arts (2)
P - Language and literature (7)
Q - Science (199)
R - Medicine (13)
T - Technology. (135)
Z - Bibliography. Library Science. Information resources (ge ... (22)

Narrow Results By:
Subject: Topic
· [Human-computer interaction](#) (85)
· [User interfaces \(Computer systems\)](#) (59)
· [Design](#) (52)
· [Web sites](#) (38)
· [Computer software](#) (34)
[Show More ...](#)
Subject: Genre

[Brief View](#) | [Full View](#)
Sort By:

1. [Cost-justifying usability : an update for an Internet age](#)
Published: c2005.
Format: Book
D.H. Hill Library
QA76.9 .U83 C67 2005 Stacks (6th floor) [Available](#)

2. [Usability : gaining a competitive edge : IFIP 17th World Computer Congress--TC13 stream on usability: gaining a competitive edge, August 25-30, 2002, Montréal, Québec, Canada](#)
Author: IFIP World Computer Congress (17th : 2002 : Montréal, Québec)
Published: 2002.
Format: Book
D.H. Hill Library

Examples - AquaBrowser

The screenshot displays the Queens Library AquaBrowser interface. At the top, the Queens Library logo and tagline "Enrich your life" are visible. Navigation tabs include Books, Music, Movies, Digital Media, Websites, Articles, and Events. A search bar contains the term "usability", with a "go" button and a link to "Advanced Search".



On the left, a conceptual map shows "usability" at the center, connected to "untouchability", "untestability", "uitability", "interface", and "Untraceability". A legend at the bottom left explains the map's elements: black squares for Associations, green squares for Translations, orange squares for Spelling variants, and blue squares for Discovery trail.


The main content area shows search results for "usability", sorted by relevance. Two results are displayed:

- Security and usability** by Lorrie Faith Cranor and Simson Garfinkel. Call number: 005.8 S, Year: 2005, Found: usability (1), Subject: computer security.
- Designing web usability** by Jakob Nielsen. Call number: 005.276 N, Year: 2000, Found: usability (2), Subject: web sites.

On the right, there are sections for "Select Location" (showing results from "All locations"), "Refine" (with links to Library Catalog, Books, Videos and DVDs, Journals and Magazines, and Music Scores), and "External Sources" (with a login form for Username and Password).


Examples - Encore

**Search:** 
[Advanced Search](#)

**UQ LIBRARY**
encore
THE UNIVERSITY OF QUEENSLAND
AUSTRALIA
[Survey form](#)
[My Account](#)

Refine by:

SEARCH FOUND IN
Title (53)
Author (1)
FORMAT
PRINT (67)
COMPUTER FILE (1)
CDROM (1)
PHOTOCOPY (1)
COLLECTION
All Journals (1)
Electronic Journals (1)
All Electronic Resources (5)
St. Lucia campus libraries (58)
Fryer Library (1)
LANGUAGE
English (70)
PUBLISH DATE
2007 (4)
2006 (6)
2005 (2)
2004 (7)
2003 (7)
[+more](#)

Searched: usability (1- 25 of 70)
Sorted by [Relevance](#) | [Title](#) | [Date](#) [1](#) [2](#) [3](#) [next](#)
 (1 - 37) Most Relevant


Usability evaluation of web page design 2007
[by Limin Fu.](#)
Ann Arbor, Mich. : UMI, 2007.
DUE 13-11-07 - Phys Sci & Engin - TK5105.888 .F8 2007

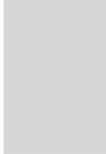
Information users and usability in the digital age 2007
[Chowdhury, G. G. \(Gobinda G.\)](#)
London : Facet, 2007.
1 copy ordered for SS&H on 15-02-2007.


Universal usability : designing computer interfaces for diverse user populations 2007
Hoboken, NJ : John Wiley & Sons, 2007.
AVAILABLE - Phys Sci & Engin - QA76.9.U83 U535 2007
☒ [Table of contents](#)

Web usability : a user-centered design approach 2006
[Jonathan Lazar.](#)
Boston, Mass. : Addison Wesley, c2006.

Recently Added:



[Universal usability](#)


[Usability engineering](#)


[Usability evaluation of web page design](#)

Refine by Tag:
computer
software
computer systems consumers customer relations
ebook electronic commerce
human engineering
human-

Examples - Primo



LIBRARY SEARCH BETA

[New Search](#) [Tags](#) [AskUs!](#) [Help](#)

[MNCAT Catalog](#) [All Campuses Catalog](#) [Articles](#)

Search for

Look for my query : All items that contain my query words anywhere in the record

[My Preferences](#) [Advanced Search](#)

Hello, Guest
[Sign in](#) To have full access and to keep things. [Why sign in?](#)

e-Shelf


To enter my workspace

Results for MNCAT: Books & More (Twin Cities) RSS

119 Results , sorted by: Relevance

Show only: Online Resources (30) Available (111)


1


Book


[Handbook of usability testing how to plan, design, and conduct effective tests \(View details\)](#)
Rubin, Jeffrey, 1949-
Norwood Mass. : Books24x7.com [2005?]

☐ Add to e-Shelf


[Online access \(U of M\) \(Get It \)](#)



2


Book

[Usability testing for library websites : a hands-on guide \(View details\)](#)
Norlin, Elaina.



Refine My Results


Narrow my results by limiting the search to:

Availability:

- > [online resources \(30\)](#)
- > [available \(111\)](#)

Resource Type:

Examples - WorldCat Local

[Off-Campus Access](#) [Ask Us](#) [Your Library Account](#) [Survey - Your Voice Counts!](#)

Home | Search | You are not signed in ([Sign In to WorldCat](#) or [Register](#))

Search for items: [Advanced Search](#)

Search results for 'usability' Sort by:

Refine Your Search
Author
[Canada](#) (29)
[Jakob Nielsen](#) (18)
[Gregory D Abowd](#) (7)
[Steve Krug](#) (4)
[Stephen J Adelson](#) (4)
[Show more ...](#)
Content
[Computer Science](#) (508)
[Engineering & Techno...](#) (175)
[Library Science, Gen...](#) (119)
[Education](#) (98)
[Business & Economics](#) (54)
[Show more ...](#)
Format

Results 1-10 of about 4,487 (.66 seconds) << First < Prev 1 2 3 Next >

Select All Clear All Save to:

☐ 1. [Designing Web usability](#)
by Jakob Nielsen
Language: English Type: Book
Publisher: Indianapolis, Ind. : New Riders, ©2000.
Held by: University of Washington Libraries

☐ 2. [The trouble with computers usefulness, usability, and productivity](#)
by Thomas K Landauer; NetLibrary, Inc.
Language: English Type: Internet Resource Computer File
Publisher: Cambridge, Mass. : MIT Press, ©1995.
Held by: University of Washington Libraries

☐ 3. [Handheld usability](#)
by Scott Weiss; NetLibrary, Inc.
Language: English Type: Internet Resource Computer File
Publisher: Chichester, West Sussex : Wiley, ©2002.
Held by: University of Washington Libraries

Examples - Solr-powered

UNIVERSITY of VIRGINIA LIBRARIES

Home About Blacklight FAQ Collex Digital Scholarship Services Library Lab

Project Blacklight

+ usability X

[save these constraints] [clear constraints]

results 1-25 of 126 →

Usability study of user interface design: examining the usability attributes of theGalileo software package

author: Curwen, Sara Jane

year: 1999

format: THESIS-4TH

language: English

Proceedings on the ... Conference on Universal Usability

year: 2000

genre: Congresses; Electronic journals

topic: Human-computer interaction; Universal design; Information technology; Technological innovations

format: INTERNET

language: English

Improving database usability and responsiveness /

year: 1982

search

source [browse] [hide/show]

VIRGO (126)

format [browse] [hide/show]

BOOK (67)

THESIS-4TH (24)

INTERNET (16)

MICROFICHE (8)

DOCUMENT (5)

REFERENCE (5)

UNKNOWN (3)


ARCHIVES (2)

IVY-THESIS (2)

E-BOOK (1)

THESIS-DIS (1)

Examples - Solr-powered



All FieldsFind


[Login](#)

English

Advanced


Showing 1 – 20 of 103 Results for usability

SortRelevance




[Research-based web design & usability guidelines /](#)
Published 2006
Call Number: TK5105.888 .R47 2006 Located: 4th Floor
Available
Book

Add to favorites



[Research-based web design & usability guidelines /](#)
Published 2006
[Get full text here](#)
Book

Add to favorites



[Designing Web sites that work : usability for the Web /](#)
by Brinck, Tom. Published 2002
[Get full text here](#)
Book

Add to favorites

Narrow Search

Format
Book (103)

Author
Nielsen, Jakob, (4)
Cowley, Malcolm, (2)
Landauer, Thomas K. (2)
Badre, Albert. (1)
Bouwsma, William James, (1)
more...

Topic
Web sites (14)
Computer software (7)
User interfaces (Computer systems) (7)
Web site development. (7)
American literature (5)
more...

Subject Area

Next Generation Catalogs

- Modern search options
 - Relevance ranking
 - Faceted search
 - Tag/word clouds
- New content and functionality
 - User contributed content, social features
 - Enriched content (book covers, reviews)
 - Current awareness (RSS feeds)

Next Generation Catalogs

Current “next generation catalog” systems
are largely focused on optimizing a
single discovery context... the OPAC

Question...

Why should the discovery of cataloged library collections be limited to user interaction with a **single catalog application**?

Catalog as Discovery Platform

Platform?

... a **“platform”** is a **system that can be reprogrammed** and therefore customized by outside developers -- users -- and in that way, adapted to countless needs and niches that the platform's original developers could not have possibly contemplated, much less had time to accommodate.

In contrast, an **“application”** is a **system that cannot be reprogrammed** by outside developers. It is a closed environment that does whatever its original developers intended it to do, and nothing more.

— Marc Andreessen, “Analyzing the Facebook Platform, three weeks in”
(http://blog.pmarca.com/2007/06/analyzing_the_f.html)

Discovery Happens Elsewhere

No single website is the sole focus of a user's attention. Increasingly people discover websites, or encounter content from them, in a variety of places. These may be network level services (Google, ...), or personal services (my RSS aggregator or 'webtop'), or services which allow me to traverse from personal to network (Delicious, LibraryThing, ...).

— Lorcan Dempsey, “Discovery happens elsewhere”
(<http://orweblog.oclc.org/archives/001430.html>)

Platform Motivation

- Move beyond the “one-size-fits-all” approach to catalog discovery
- Make it easier to reuse and repurpose catalog data outside the ILS/OPAC
- Build catalog interfaces optimized for different use contexts

CatalogWS API

CatalogWS Goals

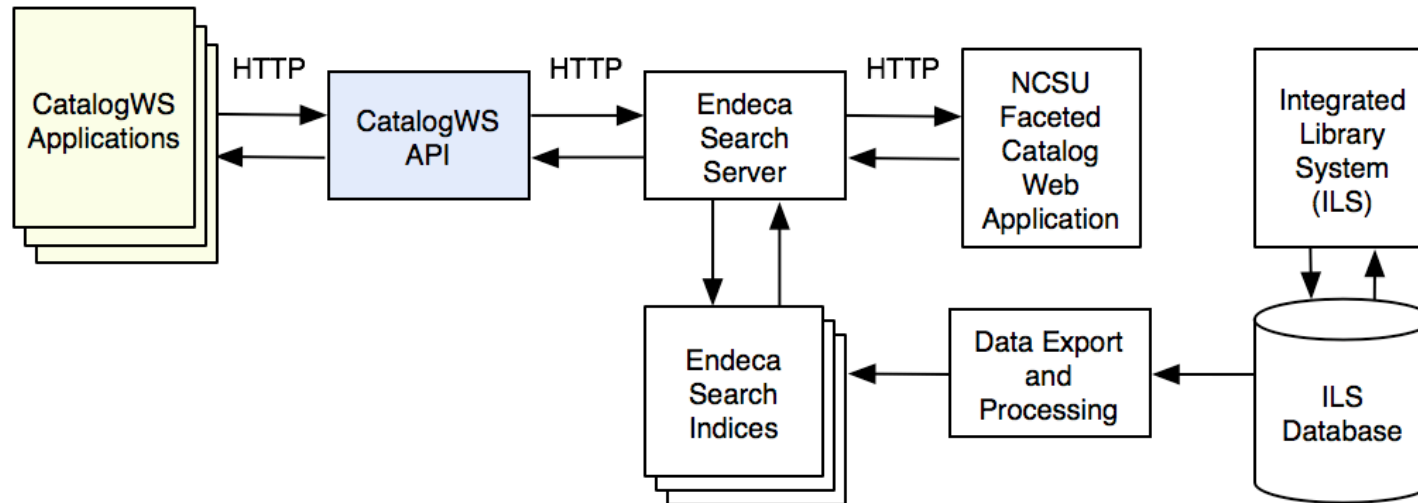
Initial impetus:

- Can we have RSS feeds for the catalog?
- Can we integrate catalog results into library website Quick Search?

Final result:

- Rich API for searching NCSU Libraries Catalog

NCSU Catalog Architecture



Search Indices as Data Source

Benefits:

- Performance
- Search features
- Consolidated and normalized data

Limitations:

- Subset of catalog data
- Read-only
- [Not real time]

Technical Design

- RESTful architecture
 - Define query using HTTP GET requests with URL parameters
- Separate web application handles API requests
 - Java, Tomcat, XOM, Saxon 8.8, org.json

API Functionality

Technical documentation:

<http://www.lib.ncsu.edu/catalog/ws/>

- Discovery-oriented
- Catalog availability
 - service=availability
 - Focus on known-item lookup (isbn)
- Catalog search
 - service=search
 - Support known-item and exploratory searching
 - Mimic functionality available on catalog search results page

Example Request

[http://www.lib.ncsu.edu/catalogws/?
service=search&query=deforestation](http://www.lib.ncsu.edu/catalogws/?service=search&query=deforestation)

Required Parameters

- service
 - availability | search
- query
 - Any term(s)

Optional Parameters

- output
 - [xml] | rss | opensearch | json
- count
 - default: 30, max: 300
- offset
 - default: 0
- sort
 - [relevance] | date_desc | date_asc | call_number | most_popular | date_added
- style
 - URL of XSL to transform to custom output

XML Response

- Defined with Relax NG Schema
- Discovery-centric
 - Search metadata
 - Results
 - Basic bibliographic metadata (not MARC)
 - Holdings / Item metadata
 - Facet metadata
 - Links

```
<requestUri>  
  http://www2.lib.ncsu.edu:9921/catalogws/?service=search&query=  
</requestUri>  
<catalogLink>  
  http://www2.lib.ncsu.edu/catalog/?Ntt=deforestation&Ntk=Keywor  
</catalogLink>  
<searchInfo>  
  <query>  
    <terms>deforestation</terms>  
    <key>Keyword</key>  
  </query>  
  <totalResults>395</totalResults>  
  <offset>0</offset>  
  <itemsPerPage>30</itemsPerPage>  
</searchInfo>
```

```
<item id="1683670">
  <catalogLink>
    http://catalog.lib.ncsu.edu/web2/tramp2.exe/do_ccl_search/guest?se
  </catalogLink>
  <title>Causes of deforestation of the Brazilian Amazon</title>
  <author>Margulis, Sérgio.</author>
  <pubDate>2004.</pubDate>
  <format>Book</format>
  <isbn>0821356917</isbn>

  <holdings institution="ncsu">
    <library name="D.H. Hill Library">
      <holdingsItem>
        <callNumber>SD418.3 .B6 M27 2003</callNumber>
        <location>Stacks (8th floor)</location>
        <status>Available</status>
      </holdingsItem>
    </library>
    <library name="Natural Resources Library">
      <holdingsItem>
        <callNumber>SD418.3 .B6 M27 2003</callNumber>
        <location>Stacks</location>
        <status>Available</status>
      </holdingsItem>
    </library>
  </holdings>
</item>
```

```
<facet id="topic">
  <title>Subject: Topic</title>
  <catalogLink>
    http://www2.lib.ncsu.edu/catalog/?Ntt=deforestation&Ntk=Keyword&
  </catalogLink>
  <value>
    <requestUri>
      http://www2.lib.ncsu.edu:9921/catalogws/?service=search&quer
    </requestUri>
    <catalogLink>
      http://www2.lib.ncsu.edu/catalog/?Ntt=deforestation&Ntk=Keyw
    </catalogLink>
    <title>Deforestation</title>
    <count>205</count>
  </value>
  <value>
    <requestUri>
      http://www2.lib.ncsu.edu:9921/catalogws/?service=search&quer
    </requestUri>
    <catalogLink>
      http://www2.lib.ncsu.edu/catalog/?Ntt=deforestation&Ntk=Keyw
    </catalogLink>
    <title>Environmental aspects</title>
    <count>73</count>
  </value>
</facet>
```

Current CatalogWS Applications

Current CatalogWS Applications

Three categories:

1. Integration with external applications
2. Alternative catalog interfaces
3. Collection promotion

Integration with External Applications

- Integrate catalog data in external library applications: **Quick Search**
- Integrate catalog data in external non-library applications: **iGoogle Widget**

Quick Search

- Website Search Tool
- Combines:
 - Catalog search
 - Journal finder
 - Databases
 - Website search
 - Library FAQs

The screenshot shows the NCSU Libraries website with a search bar containing 'science fiction'. The results are divided into two main sections: 'Library Web' and 'Library Catalog'. The 'Library Catalog' section is highlighted with a red box and contains a list of top titles and a format breakdown. The 'Library Web' section contains various links to resources related to science fiction.

NCSU LIBRARIES Search the Collection | Browse Subjects | Services | Library Information | Community | News & Events

MY LIBRARY: Library Account | My Course Reserves | My Alerts | RefWorks

Search: science fiction Go

Library Web

Find articles on **science fiction** in:

- General databases: [Quick article search](#)
- Specialty research databases: [Communication & Media, Film Studies, Linguistics, Literature, More...](#)

[Cataloging Science Fiction collection titles: Cataloging ...](#)
... under the broadest term "**Science Fiction**", 655 -7 **Science Fiction**. [2gsafd (the hyphen ... Cataloging **Science** ...
<http://www.lib.ncsu.edu/cataloging/procedures/SciFi.html> - [Cached](#)

[Science Fiction and Fantasy Research Database: NCSU Libra...](#)
... Abstracts FAQ | Site Index Databases: **Science Fiction** and Fantasy Research **Science Fiction** and Fantasy Research ...
<http://www.lib.ncsu.edu/searchcollection/data ... ?database=24225> - [Cached](#)

[Guide to the Richard D. Erlich Collection of Papers about...](#)
... Collection of Papers about **Science Fiction**, 1974-1988 Guide to ...
<http://www.lib.ncsu.edu/findingaids/mc00379/> - [Cached](#)

[Juvenile Spanish language literature: Cataloging procedur...](#)
... Policies and Procedures **Fiction** vs. Non-**Fiction** Cataloger will identify note in ... Premier : Web of ...
<http://www.lib.ncsu.edu/cataloging/procedures ... ileFiction.html> - [Cached](#)

[Literature Collections: Special Collections Research Cent...](#)
... Collection of Papers about **Science Fiction** 1974-1988 MC 00007 Fountain ...
<http://www.lib.ncsu.edu/specialcollections/fi ... literature.html> - [Cached](#)

[Cataloging Guidelines and Procedures: NCSU Libraries](#)
... media from print materials Reproductions **Science fiction** and fantasy materials ... Premier : Web of **Science** ...
<http://www.lib.ncsu.edu/cataloging/procedures/> - [Cached](#)

[Focus Online: Volume 21 number 2: NCSU Libraries](#)
... film studies), John Kessel (English/**science fiction**), Will Kimler (history of ... Premier : Web of **Science** ...
<http://www.lib.ncsu.edu/publications/focusonl ... icles/bugo.html> - [Cached](#)

Library Catalog

Top titles

- [Science fiction : 101, Robert Silverberg's worlds of wonder](#)
- [Science fiction fandom](#)
- [Projections : science fiction in literature & film](#)

[See all 4535 titles](#)

Format

- [Book](#) (4272)
- [Videos and DVDs](#) (178)
- [Software and Multimedia](#) (156)
- [Online](#) (109)
- [Journal, Magazine, or Serial](#) (86)

[More...](#)

More Search Options

Find results for **science fiction** in:

- [Encyclopedias & Dictionaries](#)
- [NCSU Scholarly Publications Repository](#)
- [NCSU Electronic Theses & Dissertations](#)

Quick Search

- Top matching titles
- Format facet results
- Links to full catalog search results

Library Catalog

Top titles

- [Science fiction : 101, Robert Silverberg's worlds of wonder](#)
- [Science fiction fandom](#)
- [Projections : science fiction in literature & film](#)

[See all 4535 titles](#)


Format

- [Book](#) (4272)
- [Videos and DVDs](#) (178)
- [Software and Multimedia](#) (156)
- [Online](#) (109)
- [Journal, Magazine, or Serial](#) (86)

[More...](#)

Google Widget

Web Images Video News Maps Gmail more ▼ markuswust@gmail.com | [Classic Home](#) | [My Account](#) | [Sign out](#)

 [Google Search](#) [I'm Feeling Lucky](#) [Advanced Search](#) [Preferences](#) [Languages Tools](#)

[Home](#) [Add a tab](#) [Select theme](#) [Add stuff »](#)

NCSU Libraries Catalog

Search the NCSU Libraries Catalog

☐ Only Available Items

☒ All Fields

☐ Title

☐ Author

UNC-Chapel Hill Library Catalog

[WorldCat Search](#)

[Weather](#)

[Ebling Library](#)

[Weld Library District](#)

[UNR Libraries](#)

[POSTECH Library Catalog](#)

[Ann Arbor District Library -](#)

[EconLog: Library of Economics and Liberty](#)

[Arlington Heights Memorial Library](#)

[CNN.com](#)

[Police: Boy admits starting 38,000-acre fire](#)

[Northern California feels 'pretty strong jolt'](#)

[Obama, Edwards target Clinton in debate](#)

Google Calendar

October 2007						
Su	M	Tu	W	Th	F	Sa
23	24	25	26	27	28	29
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

[Add Event](#)

[Gmail](#)

Hennepin County Library Catalog

[Search the CARL Digital Library](#)

[PCC Library](#)

[Southfield Library Catalog](#)

[My Gadgets](#)

[Wellcome Library](#)

[National Science Digital Library](#)

[Washington State Library](#)

[UWA Library Catalogue](#)

[Islamic Library Search](#)

Google News

Top Stories


U.S.


World


Entertainment


Sci/Tech

+

[Clinton Fends Off Debate Attacks on Iran and Iraq \(Update1\) - Bloomberg](#)
By Kristin Jensen Oct. 31 (Blo...
[RTE.ie](#) all 1,355 news articles

[Los Angeles Fire Started by Boy Playing With Matches, AP Says - Bloomberg](#)
By Jonathan Tirone Oct. 31 (BL...
[Washington...](#) all 473 news articles

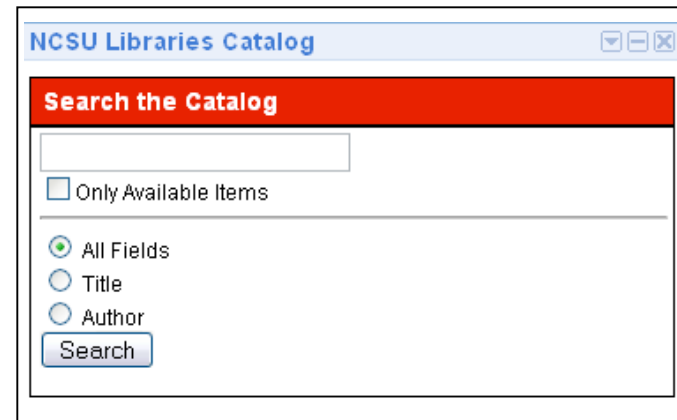
[Magnitude 5.6 earthquake shakes San Francisco Bay area - San Jose Mercury News](#)
By RON HARRIS AP Writer SAN JO...
[Canada.com](#) all 756 news articles

[Turkey to Present Its Case on PKK to White House - CNSNews.com](#)
By Patrick Goodenough (CNSNews...
[San Diego...](#) all 2,258 news articles

[More »](#)

Google Widget

- Search and display catalog results within iGoogle



NCSU Libraries Catalog

Search the Catalog

☐ Only Available Items

☒ All Fields
☐ Title
☐ Author



NCSU Libraries Catalog

SEARCH 1 - 5 of 4529

[Science fiction : 101, Robert Silverberg's worlds of wonder](#)
D.H. Hill
1 Available
PS648 .S3 R634 2001

[Science fiction fandom](#)
D.H. Hill
1 Available
PN3433.2 .S3 1994

[Projections : science fiction in literature & film](#)
D.H. Hill

Alternative Catalog Applications

- **MobiLIB Catalog:** basic catalog interface for mobile devices
- **FacetBrowser:** experimental facet-based browsing interface

MobiLIB Overview

Current services:

- Catalog search
- Computer availability
- Library opening hours
- Campus directory
- Contact information for selected library departments and services
- Links to external sites
- Location of buses in campus transit system

MobiLIB Catalog

- Usage scenario: Known-item search on mobile device (smart phone, PDA, ...)
- Bare-bones search interface
- Only one facet: Availability

MobiLIB Catalog

Search fields:

- Keyword
- Title
- Author
- ISBN



MobiLIB Catalog

Results display:

- Short title
- Library
- Availability
- Call number if only one copy



MobiLIB Catalog

Item display:

- Full title
- Format
- Author
- Date
- Library
- Availability
- Call number
- Location



FacetBrowser

- Exploratory search
- Focus on browsing with facets
- Same facets as OPAC
- Basic keyword search

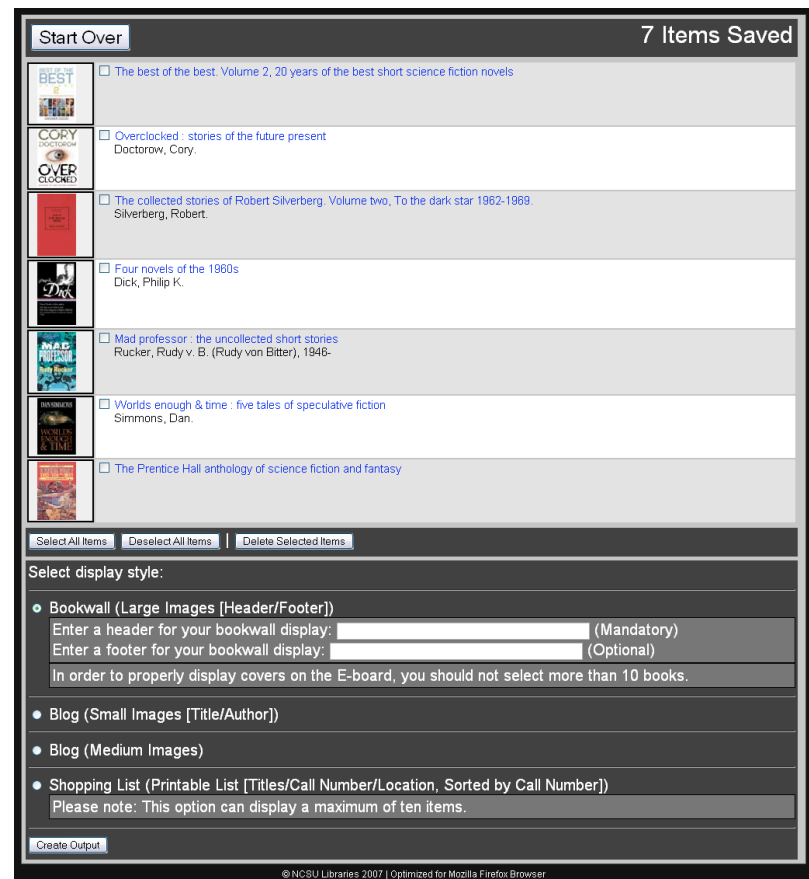
The screenshot displays the FacetBrowser interface. On the left, a sidebar lists 'Available Facets' including Subject Topic, Subject Genre, Format, Library, Subject Region, Subject Era, Language, Author, New Titles, Availability, and Library of Congress Classification. The main area shows a grid of facets with counts, such as 'A - General Works (4433)', 'B - Philosophy, Psychology, Religion (77202)', and 'C - Auxiliary Sciences of History (6659)'. Below this, a search bar and 'Start Over' button are visible. The search results section shows 'Results: 1755578' and a list of items with checkboxes, including 'Self-criticism and self-enhancement: theory, research, and clinical implications' and 'Soon come home to this island: West Indians in British children's literature'. The bottom of the interface includes a footer with copyright information: '© NCSU Libraries 2007 | Optimized for Mozilla Firefox Browser'.

Collection Promotion

- **FacetBrowser** as a collection promotion authoring tool
- Automatically generated “**bookwalls**”
- **RSS feeds** for new titles

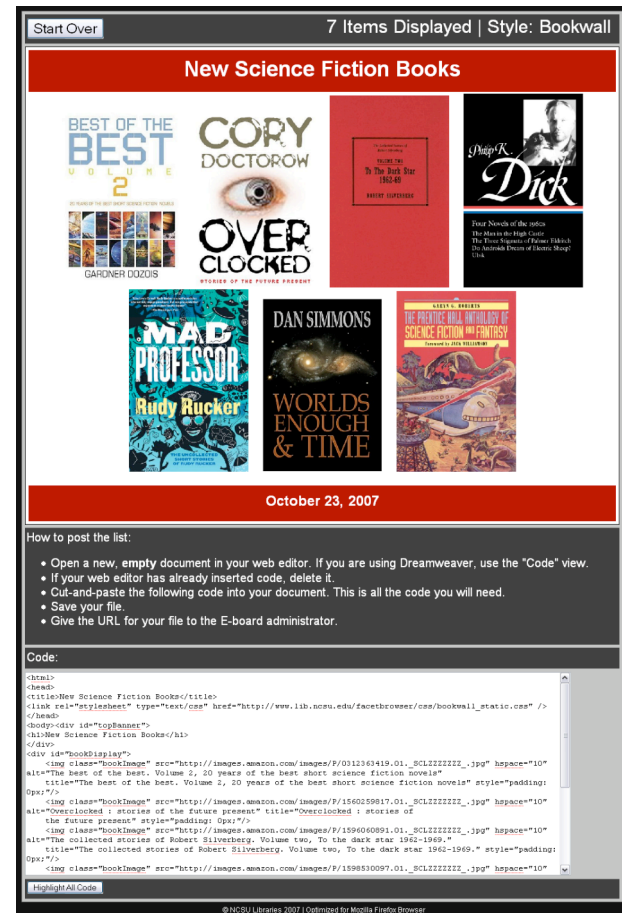
FacetBrowser

- Includes shopping cart for saving selected items
- Currently offers four different output styles



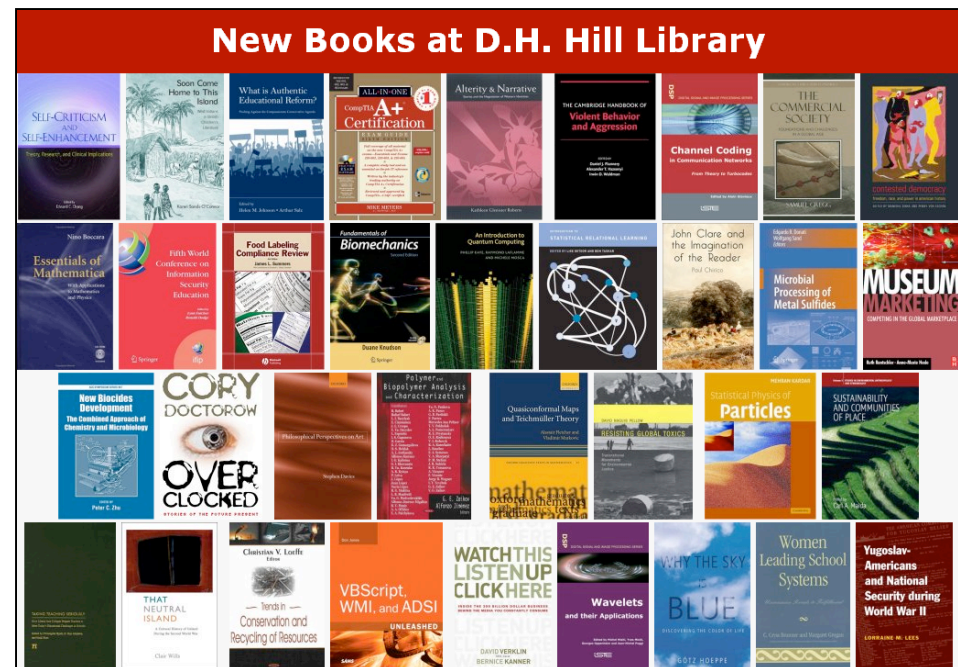
FacetBrowser

- Displays output
- Generates HTML code for bookwall displays and blogs



New Books Bookwall

- Newest books in catalog
- Automatically generated
- Maintenance free



RSS Feeds

- Users can subscribe to RSS feeds based on their individual search preferences
- Active promotion
 - Information about newest items is pushed to users

RSS Feeds

The screenshot displays the Bloglines website interface. On the left, a sidebar contains the Bloglines logo, navigation tabs for Feeds, Blog, Clippings, and Playlists, and a list of 8 feeds including ALA (200), Bloglines | News (13), Current Cites (49) (24), Extremetech (200) (14), The Kept-Up Academic Librarian (24), Stephen's Lighthouse (18), Tame The Web: Libraries and Technology (27), and TechEssence.Info - The essence of technology for library decisio (2). Below this is a section for Additional Features with links like Image Wall, Recommendations | Tips, Create Email Subscriptions, Open Notifier | Download Notifier, Get a Subscribe To Bloglines Button, Easy Subscribe Bookmarklet, Tell A Friend, Import Subscriptions, Export Subscriptions, Directory, and Share.

The main content area shows a welcome message for markuswust@yahoo.com and a search bar. Below the search bar, there are links for subscribers, related feeds, and a subscribe button. The main feed displays search results from the NCSU Libraries Catalog for the query "Fiction : Science fiction, American". The results include:

- NCSU Libraries Catalog Results: Fiction : Science fiction, American**
Matching search results for your search query from NCSU Libraries Catalog (<http://catalog.lib.ncsu.edu>)
- 20 Items | [Sort Oldest First](#) | Updated: Wed, Oct 31 2007 6:59 AM
- Mad professor : the uncollected short stories**
Author: Rucker, Rudy v. B. (Rudy von Bitter), 1946-
Published: c2007.
D.H. Hill Library - Stacks (5th floor), PS3568 .U298 M24 2007 - **Available**
Posted on: Wed, Oct 31 2007 6:59 AM | [Email This](#) | [Clip/Blog This](#)
- Gravity Wells : speculative fiction stories**
Author: Gardner, James Alan.
Published: c2005.
D.H. Hill Library - Stacks (5th floor), PS3557 .A7118 S53 2005 - **Available**
Posted on: Wed, Oct 31 2007 6:59 AM | [Email This](#) | [Clip/Blog This](#)
- The best of Jim Baen's universe**
Published: c2007.
D.H. Hill Library - Stacks, On Order - **Checked Out**
Posted on: Wed, Oct 31 2007 6:59 AM | [Email This](#) | [Clip/Blog This](#)
- Dark reflections**
Author: Delany, Samuel R.
Published: 2007.
D.H. Hill Library - Stacks, On Order - **Checked Out**
Posted on: Wed, Oct 31 2007 6:59 AM | [Email This](#) | [Clip/Blog This](#)

Closing Thoughts

Benefits

Reduced development costs

The CatalogWS API has lowered the technical barriers for staff to develop new web applications that use catalog data.

Benefits

Versatile access to catalog data

The resource-oriented nature of the CatalogWS API makes it easy to integrate catalog data in external applications.

Platforms, Again

... a “platform” is a system that can be reprogrammed and therefore customized by outside developers -- users -- and in that way, **adapted to countless needs and niches that the platform's original developers could not have possibly contemplated**, much less had time to accommodate.

— Marc Andreessen, “Analyzing the Facebook Platform, three weeks in” (http://blog.pmarca.com/2007/06/analyzing_the_f.html)

Thanks!

Tito Sierra

tito_sierra@ncsu.edu

Emily Lynema

emily_lynema@ncsu.edu

Markus Wust

markus_wust@ncsu.edu

More Information

CatalogWS API:

<http://www.lib.ncsu.edu/catalog/ws/>

CatalogWS Applications:

<http://www.lib.ncsu.edu/dli/projects/catalogwsapps/>