

AJAX, More than Scrubbing the Tub: Web Technologies in the IUB Libraries' Web Site

Doug Ryner & Tadas Paegle

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INDIANA UNIVERSITY



AJAX: A definition¹

- Asynchronous Javascript and XML
 - web development technique for creating interactive web applications
 - uses a combination of :
 - XHTML (or HTML) and CSS
 - DOM (Document Object Model) - accessed with a client-side scripting language such as JavaScript to dynamically display and interact with the information presented
 - XMLHttpRequest object - used to exchange data asynchronously with the web server
 - XML - sometimes used as the format for transferring data between the server and client, although any format will work
 - AJAX is not a technology in itself, but a term that refers to the use of a group of technologies.

¹Ajax(programming). *Wikipedia: The Free Encyclopedia*. Retrieved on March 6, 2007, from http://en.wikipedia.org/wiki/Ajax_%28programming%29.



What can AJAX do?

- Demos
 - Gmail
 - Google Earth/Maps
 - Kayak.com
 - University of Pennsylvania Library
 - Onestart.iu.edu



What can we do with AJAX?

- Demo at IUB Libraries:
 - <http://oscar.lib.indiana.edu/ajaxSearch/search.php>
 - Search results mockup

[Resource Gateway](#) ▼

[Services](#) ▼

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recall



Search Results 1-34 of about 244 for "recall"

Key Match

[Place a Recall](#)

<http://www.libraries.iub.edu/index.php?pageId=53>

Need Help? [Ask a Librarian.](#)

Books

[Books at IU Libraries \(IUCAT\)](#)

[Books at other libraries](#)

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[Library Services for Books](#)



Articles

[Articles by Journal \(Onestart\)](#)

[Library Services for Articles](#)



Media (Audio/Video/Image)

[Audio/Video at IU Libraries](#)

[DIDO Image Library](#)



IUCAT (Online library catalog)

All results

Books

Journals

Audio/Video

Journals & Newspapers

[Journals & Newspapers \(IUCAT\)](#)

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Collections & Depts.

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Books

Books at IU Libraries (IUCAT)

Books at other libraries

- [University X Catalog](#)
- [ABC Catalog](#)

E-Books

- [Books 24x7](#)
- [NetLibrary](#)
- [Google Books](#)

Library Services for Books

- [Borrow books that IU does not own](#)
- [Get books delivered](#)

Additional Help

Book locations

- [Find books](#)
- [ALF \(Auxiliary Library Facility\)](#)
- [Stacks Map](#)

Citing Books

- [MLA Style Guide](#)
- [APA Style Guide](#)
- [Chicago Manual of Style](#)

Ask a Librarian

- [Instant Message \(IM\)](#)
- [Phone](#)

Media (Audio/Video/Image)

Audio/Video at IU Libraries

[DIDO Image Library](#)

IUCAT (Online library catalog)

All results

- [Books](#)
- [Journals](#)
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AJAX on IUB Libraries' Web Site

- Searching:
 - Multiple categories, multiple sources, multiple speeds
 - Visual organization (expandable, collapsible categories)
- Browsing:
 - Cleaner navigation



AJAX on IUB Libraries' Web Site

- Old searching method:
 - Search Find Info, IUCAT, or OneSearch
 - Must choose and know differences
 - One Search, One Result Set (Find Info)
 - One Search, One Result Set (IUCAT)
 - One Search, One Result Set (OneSearch)
 - Any new search requires choosing a new search form
 - Search web site – completely separate search interface within same web site

Find Information

YOU ARE HERE >> IUB LIB. Home > Find Information > Search All

- Main Menu
- Find Information
 - IUCAT Library Catalog
 - Search All
 - Databases A-Z
 - Databases by Subject
 - Databases by Type
 - Online Full-Text Journals
 - OneSearch @IU

- Top 10 Resources
 - ABI/INFORM Global Suite
 - Academic Search (EBSCO)
 - Encyclopaedia Britannica
 - ERIC (EBSCO)
 - Factiva
 - Lexis-Nexis Academic
 - MLA International Bibliography
 - PsycINFO
 - Web of Knowledge
 - WorldCat

- Useful Links
 - Ask A Librarian
 - Find Information Tips
 - Can't Connect?

Search All TIPS: Type title words or keywords of an index, electronic journal or other resource. Resources beginning with your search term(s) are displayed first. [More information](#)

Type your terms:

Choose one:

- Search Find Information (Locate indexes, electronic journals, catalogs or databases)
- Search IUCAT (Find books, journals, video etc. in the IU Libraries)
- Search OneSearch @IU (Find articles on a topic from a small selected group of databases)

Search Results: The following titles contain keywords that matched your search for "artbibliographies".

2 matches | 1 - 2 displayed

- [Access Key](#)
- ARTbibliographies Modern** - [about](#) - Abstracts of international publications in all aspects of art and design since 1900; also photography since 1839, architecture and 19th century published prior to 1980.
 - Coverage: 1974 - present
 - Alternate Title: ABM
 - To link to this resource use: <http://www.libraries.iub.edu/scripts/countResources.php?resourceId=27>
- ABM** - [about](#) - Abstracts of international publications in all aspects of art and design since 1900; also photography since 1839, architecture and 19th century published prior to 1980.
 - Coverage: 1974 - present
 - Recommended Title: ARTbibliographies Modern
 - To link to this resource use: <http://www.libraries.iub.edu/scripts/countResources.php?resourceId=27>

Search Results: The titles above contain keywords that matched your search for "artbibliographies".

2 matches | 1 - 2 displayed



AJAX on IUB Libraries' Web Site

- New searching method:
 - 1 search box
 - No need to decide what to search against
 - One Search, Many Result Sets (Find Info, IUCAT, OneSearch, Library Services, Library Web Pages, Google Books, Variations, ...)
 - Different sources searched and organized in categories – loaded as they come in
 - Search web site
 - Same search box
 - Ties in Library services and power of Google Search Appliance to every search, giving better picture of what Library has to offer

[Resource Gateway](#) ▾

[Services](#) ▾

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All results

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Journals

Audio/Video

Journals & Newspapers

[Journals & Newspapers \(IUCAT\)](#)

[Library Services for Journals &](#)

[Newspapers](#)



Collections & Depts.

[Department policies](#)



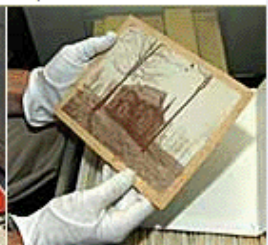


AJAX on IUB Libraries' Web Site

- Navigation
 - Simpler but still offers many options
 - AJAX allows cleaner show of navigation [*not clear how exactly we're using AJAX in navigation (css can control display, so AJAX used to get content??)*]
- Next 2 slides
 - Old navigation
 - New navigation

Search IUB Libraries

SERVICES FOR: Faculty Graduate Students Undergraduates Distance Learners Visitors IUCAT Ask a Librarian



WELCOME TO INDIANA UNIVERSITY LIBRARIES BLOOMINGTON

TAKE FULL ADVANTAGE

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- IUCAT Library Catalog
- Search All
- Databases A-Z
- Databases by Subject
- Databases by Type
- Online Full-Text Journals
- OneSearch @IU

Libraries & Collections

- Collections by Subject
- Collection Managers
- Libraries at IUB
- Libraries at Other IU Campuses
- New Resources
- Scholarly Communication
- IUScholarWorks

Library Services

- Getting Started
- Borrow, Renew & Request
- E-Reserves
- Class Reserves
- Ask a Librarian

About IUB Libraries

- A - Z
- Welcome from the Dean
- Hours & Locations
- Alumni & Donors
- Departments & Staff
- Computing & More
- Employment



Find trustworthy online information whenever you need it.

MORE INFO

NEWS & EVENTS

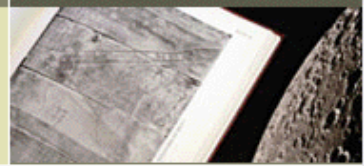
MORE NEWS

Media Literacy Film Series

Return Books at New Drive-Up Book Drops

Wylie House Hosts Family Fall Harvest Fest

EXPLORE YOUR CAMPUS!



HERMAN B WELLS LIBRARY 1320 EAST TENTH STREET, INDIANA UNIVERSITY, BLOOMINGTON, INDIANA 47405 PHONE: 812 855-0100 LIBREF@INDIANA.EDU

INDIANA UNIVERSITY

http://www.libraries.iub.edu/
Comments to libref@indiana.edu
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Resource Gateway ▾

> [View All](#)

> [A – Z](#)

Top 10 Resources

ABI/INFORM Global Suite
Academic Search (EBSCO)
Encyclopaedia Britannica
ERIC (EBSCO)
IUCAT (IU Catalog)

Lexis-Nexis Academic

MLA International Bibliography
PsycINFO
Web of Knowledge
WorldCat



Search examples: Hours, Journal, Catalog, War and Peace ...

Architecture inspirations / [editor Cris ...
Architecture and archaeology in the ...
[View 19 more hits](#)

Architecture inspirations / [editor ...
Architecture and archaeology in the ...
[View 19 more hits](#)

ICA
Video Catalog

Services
Instruction
Reference Shelf
Libraries, Museums and Archives
Research Guides

Databases (9)

Grove Dictionary of Art Online
Index Islamicus
Index to 19th Century American Art ...
Inscriptions from the Land of Israel ...
Sage Urban Studies Abstracts
[View 5 more hits](#)

Catalogs (5)

CAMIO RLG's Catalog of Art Museum ...
AMICO Library
Index of Christian Art
ICAT
Video Catalog

Audio/Video (11)

The Landscape architecture of ...
Women in architecture (1993) ...
Patterns of social order as reflected ...

[Top 10 Resources](#) ▶

[New Resources](#) ▶

[Useful Links \(How to cite, etc.\)](#) ▶

More ways to search:

OneSearch
IUCAT (IUB Libraries Online catalog)
Digital Library
Google Scholar
Resource Gateway
Contact Us

Databases A – Z
Databases by Type
Databases by Subject

Need Help? [Ask a Librarian](#)



Things to keep in mind

- Disadvantages
 - Disregards some common browser functionality
 - No browser “Back” button
 - No bookmarks
 - Search engine optimization
 - Response-time concerns
 - Change in how interface works
- Advantages
 - More responsive interface
 - Ability to show more information cleanly
 - Separation of data, format, style and function
 - Bandwidth usage



Comments! Questions?

- dryner@indiana.edu
- tpaegle@indiana.edu