

The Problem











The Library of Congress >> Prints & Photographs Division >> Prints & Photographs Online Catalog



Prints & Photographs Online Catalog (PPOC)

[Terms & conditions] [Help]

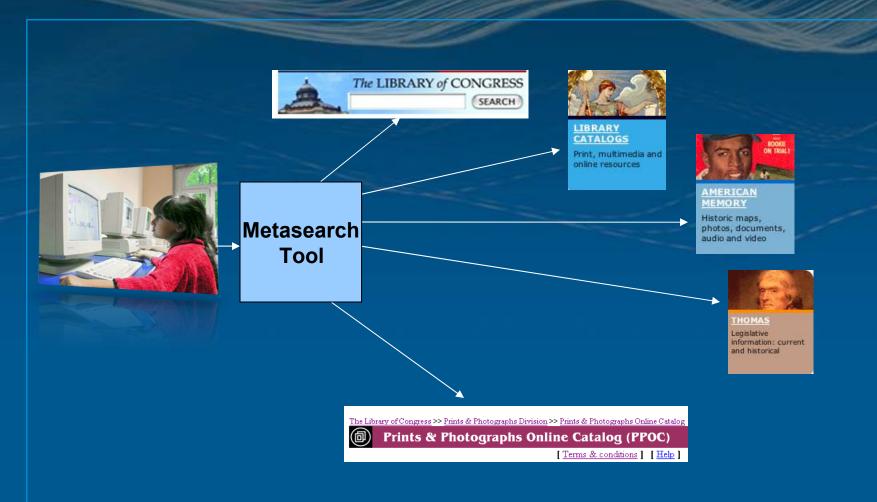


Why Metasearch?

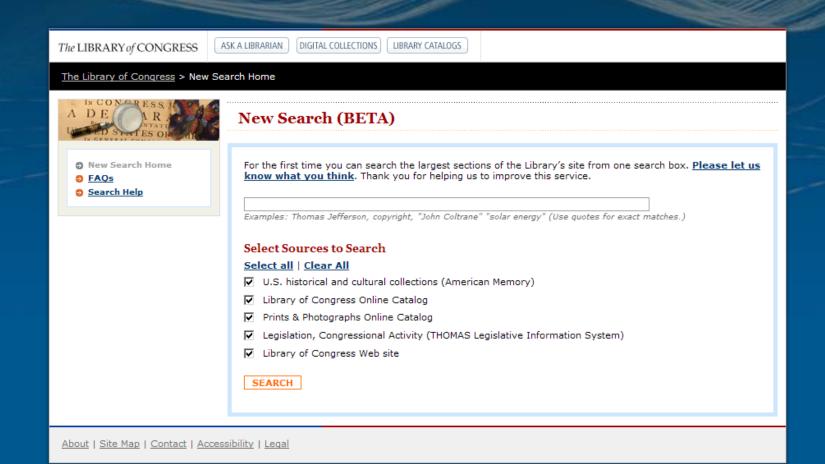
- Improve discovery: current search box web pages only
- Short development time, inexpensive tool
- Learning experience, exposing data/search issues



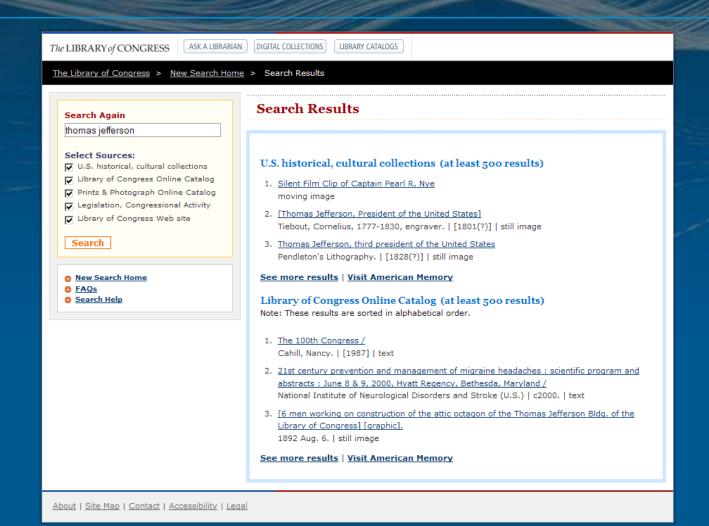
The Model



Homepage



Initial Search Results



Full Search Results

| The LIBRARY of CONGRESS ASK A LIBRARIAN | DIGITAL COLLECTIONS LIBRARY CATALOGS |
|---|---|
| The Library of Congress > New Search Home > Search Results | |
| © Back to Results Search Again thomas jefferson Select Sources: ✓ U.S. historical, cultural collections ✓ Library of Congress Online Catalog ✓ Prints & Photograph Online Catalog ✓ Legislation, Congressional Activity ✓ Library of Congress Web site Search New Search Home ⑤ FAOs | 500 results from U.S. historical, cultural collections Results 1 - 20 Page 1 2 3 4 5 6 7 8 9 10 |
| > Visit American Memory | 500 results from U.S. historical, cultural collections Results 1 - 20 Page 1 2 3 4 5 6 7 8 9 10 Previous Next 9 |
| About Site Map Contact Accessibility Legal | |

Software Choice

Index Data's Keystone Retriever:

- Open source (GNU General Public license)
- Protocol based (Z39.50, SRU/W)
- Previous experience with LC



http://www.indexdata.dk/keystone/retriever/

Keystone Functionality

Ability to Search Remote Resources

- Query mapping on per target level in order to acquire meaningful results
- Communicates via Z39.50, extended to SRU/W search services via simple2zoom
- Gateways used for access to proprietary API's

Interface

Search Interface

- May range from simple search box to advanced
- Database selection options
- Complete customization of user interface: changes in formatting using CSS; content changes using XSLT

Search Results

Processing of Search Results

- Grouping or merging of results
- Results all normalized to Dublin Core XML with XSLT and converted for display with XSLT
- Search results monitored and inserted in dynamic HTML using javascript and inline frames.

Gateways

Gateways to our 5 targets

- LC Catalog: Z39.50 access to LC Catalog already in place
- American Memory: gateway (Perl) provides SRU access to the homegrown application (InQuery search engine)
- Prints & Photographs: gateway (Perl) provides SRU access to the homegrown application (InQuery search engine)
- THOMAS: JAVA gateway provides SRU access to the application (K2 search engine)
- Web site: gateway implemented using Apache Cocoon to mimic SRU access to engine's built-in XML format (Ultraseek)



What Worked

- Improved discovery
- Worked collaboratively
- Experimented with a new model for change
- Increased understanding of underlying systems



Understanding Underlying Systems

- Highlighted need for consistent metadata
- Magnified differences in search systems requiring standardization

Feedback

- "The LC's new search is a commendable effort to wrangle simplicity and elegance from systems not on speaking terms with either."
- "The new search tool helped me tremendously."
- "I used if for the first time and it worked. Easy, simple and best of all it produced results."
- "As a high school librarian, I LOVE your new federated search capabilities!!!! It has been too confusing for many of my students, who are required to use primary source documents in their research assignments, to effectively search through your wonderful collections -- until now!"
- "SUPER!"

Next Steps

Gradual rollout

Implement on additional pages across site

More targets

Provide advanced option to search across many more properties

Increased functionality

- Merged results sorted by relevancy rather than target
- Guided navigation
- Export, re-index catalog records to achieve relevancy ranking

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Improving External Access

Open Archives Initiative

- "...develops and promotes interoperability standards that aim to facilitate the efficient dissemination of content." (http://www.openarchives.org)
- Harvestable metadata in a variety of standard formats (dublin core, marc, mods) with embedded persistent URL linking to Library resource
- Representing close to 50 collections from American Memory and Prints and Photographs Collection
- Legacy conversion of data will make additional items available for harvesting

Sitemaps

- "Easy way for webmasters to inform search engines about pages on their site available for crawling." "Sitemap 0.90 ... has wide adoption, including support from Google, Yahoo!, and Microsoft." sitemaps.org
- Used to expose "deep web" resources that are difficult to find via traditional crawling techniques.
- Helps overcome difficulties, e.g., lack of enumerated list of resources, temporary url patterns, and search-based navigation.

Sitemaps

• Example:

Contact Us

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