

The Digital Library Extension Service

An Open Source Production Digital Library Access System

What is DLXS?

- Two pronged development effort,
 - Free Open Source DL tools focusing on 4 broad “classes” of materials
 - XPAT development

DLXS Classes

- Text class
- Image class
- Bibliographic class
- Finding aids (pre-class)

Text Class

- Retrospective conversion (Making of America)
- Text encoding projects (Lincoln)
- Modern publishing (Philosopher’s Imprint)



The screenshot shows the MOA Search Results page. At the top, there is a search bar and navigation links for 'bookbag' and 'bookbag' with 'your bookbag has 0 items'. Below the search bar, there are links for 'search', 'advanced search', 'browse', 'help', and 'moa'. The main content area displays the search results for the query 'survey', showing 211 matches in 211 works. A list of search results is provided, each with a checkbox and a brief description of the document. The first result is '1. Nott, Joseph Clark. Types of marked or, Ethnological researches, based upon the ancient monuments... 4 matches in 4 of 582 pages'. Other results include '2. Nott, Samuel. Slavery and the remedy; or, Principles and suggestions for a remedial code. By... 1 match in 1 of 140 pages', '3. Ogden, John. The science of education; and art of teaching. In two parts. By John Ogden... 2 matches in 2 of 400 pages', '4. Ormsted, Frederick Law. A journey through Texas; or, A saddle trip on the southwestern frontier; with a... 2 matches in 2 of 554 pages', '5. Park, Edwards Amasa. The Sabbath hymn book for the service of song in the house of the Lord. 9 matches in 0 of 950 pages', '6. Parker, Nathan Howe. The Minnesota handbook, for 1856-7 with a new and accurate map by Nathan H... 4 matches in 4 of 160 pages', and '7. Parker, Nathan Howe. Iowa as it is in 1856; 0 matches in 7 of 306 pages'.



The screenshot shows the MOA Bibliographic Citation page. At the top, there is a search bar and navigation links for 'bookbag' and 'bookbag' with 'your bookbag has 0 items'. Below the search bar, there are links for 'search', 'advanced search', 'browse', 'help', and 'moa'. The main content area displays the bibliographic citation for the document 'Report on the United States and Mexican boundary survey / made under the direction of the Secretary of the Interior, by William H. Emory, Major First Cavalry and United States Commissioner. Volume 1 Part 1'. The citation includes the author 'United States', the title, the publisher 'Washington: Cornelius Wendell, printer, 1859.', and the page count 'Pages: 395'. The subjects are listed as 'Geology -- Southwest, New', 'Botany -- Southwest, New', 'Zoology -- Southwest, New', 'United States -- Boundaries -- Mexico', 'Mexico -- Boundaries -- United States', 'Rio Grande', and 'United States -- Exploring expeditions'. The bookmark URL is provided as 'http://moa.umd.umich.edu/cgi-bin/moa/idr/70850h-AFK4546h'. Below the citation, there are search options 'Search within this text: simple | boolean | proximity' and a 'Bookbag' section with 'Add to remove from bookbag'. The search results section shows 'Matches of kw "survey" in this list are listed below by page. Click on the page link to view the text.' and a list of matches: 'p. 1 1 match of "survey"', 'p. 3 3 matches of "survey"', 'p. 3 3 matches of "survey"', and 'p. 16 1 match of "survey"'. The page number '1' is visible in the bottom right corner.

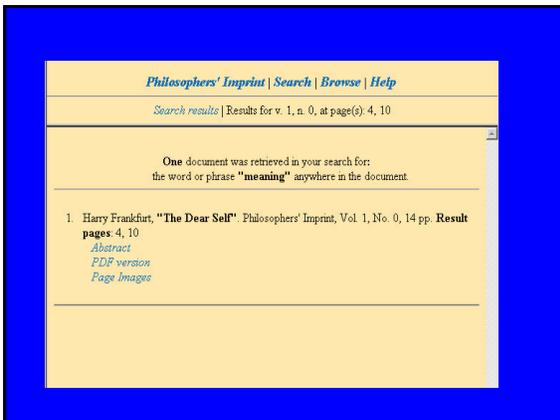
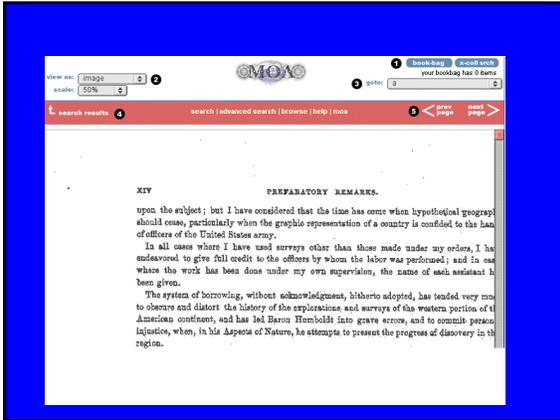
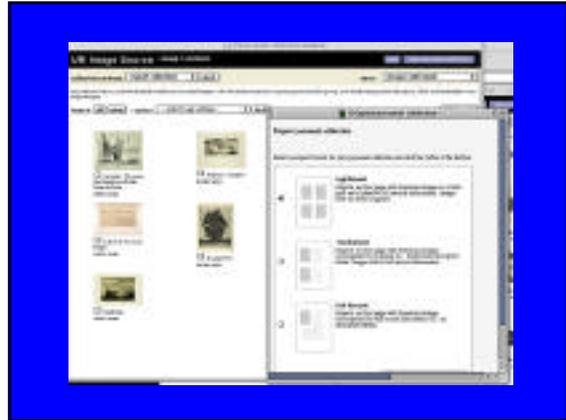
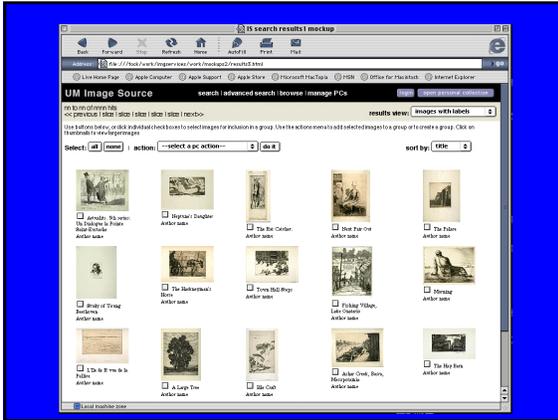


Image Class

- Lingua franca for Tower of Babel: many forms of metadata brought together or maintained distinctly
- Growing degree of support for tools





Bibliographic Class

- Tools you would expect to find with bibliographic systems
- Scalability (e.g., 17 million citations in Times Index)
- Simplicity: less than an hour to put a collection online



Finding Aids (pre-Class)

- Driven by EAD application guidelines



Origins of this Work

- Mediating role of DLPS
 - Host services
 - MESL work
 - Production responsibilities at UM (since 1996)
 - Integration in Library (e.g., Preservation)
- Work with many resources
 - (> 30 distinct systems; > 20 DTDs before reconciliation)

Why Open Source DL toolkit?

- Does it make sense to have \$300k “products” that are essentially closed?
- Distributed development with many contributors.
- Coordinating appropriate free, open source tools with effective low-cost commercial tools
- Balancing commercial (e.g., Oracle for AuthN/AuthZ) and Open Source (mySQL for object management)

XPAT

- low cost licensed tool
 - \$15k one-time
 - \$5k/year for support and updates
- great support/development
- high functionality

Near- and Medium-Term Future of DLXS

- Near-term
- Medium-term
- Long-term