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## **Faceted navigation and browsing features in new OPACs: A more robust solution to problems of information seekers?**

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**Extended abstract:** In November, 2005, James Billington, the Librarian of Congress, proposed the creation of a “World Digital Library” of manuscripts and multimedia materials in order to “bring together online, rare and unique cultural materials.” Google became the first private sector partner for this project with a pledge of 3 million dollars (<http://www.loc.gov/today/pr/2005/05-250.html>). One month later, the Bibliographic Services Task Force of the University of California Libraries released a report: *Rethinking how we provide bibliographic services for the University of California*. (Bibliographic Services Task Force, 2005). Key proposals included the necessity of enhancing search and retrieval, redesigning the library catalog or OPAC (Online Public Access Catalog), encouraging the adoption of new cataloguing practices, and supporting continuous improvements to digital access. By mid-January, 2006, the tenor of discussion reached fever pitch. On January 12, 2006, the North Carolina State University (NCSU) Library announced the deployment of a revolutionary implementation for their OPAC of Endeca’s ProFind™, which until now had only been used in commercial e-commerce or other business applications. NCSU made the bold claim that “the speed and flexibility of popular online search engines” had now entered the world of the online catalog through the use of *faceted navigation and browsing* (NCSU, online).

A few days later, Indiana University posted *A White Paper on the Future of Cataloging at Indiana University* which served to identify current trends with direct impact on cataloging operations and defined possible new roles for the online catalog and cataloging staff at Indiana University (Byrd et. al, 2006). The Indiana report was a response to an earlier discussion regarding *The Future of Cataloging* put forth by Deanna Marcum, Director of Public Service and Collection Management at the Library of Congress (Marcum, 2005). Marcum posed a provocative series of questions and assertions based in part on the Pew Internet and American Life Project study: *Counting on the Internet* (Horrigan and Rainey, 2005). “[D]o we need to provide detailed cataloging information for digitized materials? Or can we think of Google as the catalog?”

Following Marcum’s comments, and the announcement of the “World Digital Library”, the Library of Congress released a commissioned report in March 2006, *The changing nature of the catalog and its integration with other discovery tools* (Calhoun, 2006). This report

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contained blueprints for change to Library of Congress cataloguing processes, advocated integration of the catalog with other discovery tools, included suggestions that the Library of Congress Subject Headings LCSH, long used to support subject access to a variety of cultural objects, be dismantled, and argued that fast access to materials should replace the current standard of full bibliographic records for materials. These arguments were supported by assertions that users seem to prefer the ease of Google over the catalog, and that the proposed changes would place the Library of Congress in a better market position to provide users with the services they want most (Fast and Campbell, 2004; OCLC, 2002).

The ensuing debates served to crystallize the intersection and convergence of the traditional missions of the Libraries, Archives and Museum (LAM) communities to provide description, control and access to informational and cultural objects. One consistent theme emerged: What competencies and roles can each community bring to bear upon discussions of digitization, access and discovery, and provide solutions for user needs?

The library community had a ready answer. Originally designed to provide inventory, acquisitions and circulation support for library staff, the modern library catalog was designed according to a set of principles and objectives as described by Charles Ammi Cutter in 1876. These principles and objectives underpin the core competency of the library community to create bibliographic records designed to assist users in the following tasks: to find (by author, title and subject), and to identify, select and obtain material that is of interest to them. Discussions about the aims of the catalog are not new and have been ongoing since the early 1970s when the earliest forays of the catalog into the digital age began (Cochrane, 1978). The role played by metadata (i.e. bibliographic records assembled in catalogs), as well as the central importance of search and retrieval mechanisms have long been central players in proposed solutions to providing better services to users. Thus, the suggestions of staff at the Library of Congress, that digitization is tantamount to access, and that search engines, like Google, may supplant the catalog as the chief means of access to cultural and informational materials, have galvanized action throughout the library and information science community. It is critical that any discussions and recommended solutions maintain a holistic view of the principles and objectives of the catalog.

The actions and continuing discussions that resulted from these developments drew heavily from several sources, including the experiences of the LAM community with the creation of metadata standards, Web 2.0 applications that make data work harder, more accessible and consolidated, the appeal of folksonomy and social classification, and the importance of leveraging rather than abandoning legacy access systems in a time of spiraling costs and decreasing budgets. For archived discussions of these issues see: INGC4LIB listserv (Next Generation Catalogs for Libraries <http://listserv.nd.edu/archives/ngc4lib.html>) and Web4LIB discussion list (<http://lists.webjunction.org/web4lib/>). Another valuable source is Lorcan Dempsey's blog, *Of libraries, services and networks* (<http://orweblog.oclc.org/>).

To leverage some legacy subject access systems it is proposed that more (not less) should be done to process these data, and corresponding authority files (e.g. thesaurus files) in order to use the faceted navigation and browsing features of new online search engines to best advantage. An ongoing research proposal will be described in brief, concentrating on the second goal of a project which plans to develop an integrated conceptual framework which could serve all

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designers working on information access and discovery systems. A framework for critical analysis of needed and missing features that is grounded in traditional principles, borne out by practice (Cutter, 1976; La Barre, 2006; Ranganathan, 1962) and which builds on feature analysis protocols for early OPACs is urgently needed (Cochrane, 1978; Hildreth, 1995). Further, another analysis of the sufficiency of current data preparation is long overdue (Anderson and Pérez-Carballo, 2005).

This position paper builds on La Barre (2006, unpublished dissertation) which studied faceted browsing and navigation in websites, using wireframe analysis. This research uncovered features needed for digital library OPAC design. Building on JISC and Sparks work, a future study will focus on the information seeking research academics and the information seekers, rather than the general public, or the overstudied undergraduate user, thus rounding out the work of others cited by Marcum, Kuhlthau, etc.

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