The 21st Century Bibliographic Control

Transforming the Library Data From a Static to an Interactive Platform

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Cutter’s Objectives

FIND
Author
Title
Subject

IDENTIFY
Author
Title
Subject

SELECT
Translation
Edition
Publisher
Analysis

OBTAIN
Same Content
Different Formats
Changes in The Library World

- Technology
- Users’ Expectations
- Users’ Searching Behavior
- Nature of Library Data
Technology

- Rapid increase in digital technology
  - Mass digitization projects
  - Digital repositories
  - Inter Library Loan services

- New research tools for information storage
  - Podcasting
  - iPhone/iPod Touch/Any mobile version application
  - Downloadable Links from lectures/tutorials
  - RSS Feeds
Technology—Cont’d

- Blogs/blogging software platform
  - News, updates, activities from other libraries
  - Inviting comments, information & peer interactions

- Social Networking
  - Text Messaging (SMS) or live/instant chat w/students for a speedy information delivery
    - Text A Librarian
  - FaceBook
  - Twitter
Technology—Cont’d

- Social Cataloging Application (Book reviews software)
  - LibraryThing
  - Goodreads
  - Shelfari
  - Google Books

- Individual web pages
  - LibGuides
  - Library Wikis
  - Del.icio.us
Users’ Expectation

- High speed of delivery
- Up to date search engines
- Flexible, functional environment
- User-focused, technology-equipped library spaces
- Multimedia tools to provide group/individual research & presentation
- High-performing, motivated, & diverse workforce as IT people and library staff
Users’ Search Behavior

Searching Pattern Within OPAC
- Title (Controlled Vocabulary)
- Author (Controlled Vocabulary)
- Keyword

Searching Pattern (Search Engines)
- Google
- Yahoo
- Free Text

RESULT
Nature of Library Data

● Library Data:
  ● Card Catalog
  ● MARC (Machine Readable Cataloging)
  ● Unicode & XML
  ● Library Database Management System
    ● Designed for business data
    ● Have limits on the length of the strings it can index
    ● Doesn’t work well with keyword
    ● Designed for an internal closed data
  ● Semantic Web, Linked Data
Linked Data
Nature of Library Data—Cont’d

- Cataloging Standards & Guidelines
  - Anglo American Cataloging Rules (AACR II) 1841-1978
  - Functional Requirements for Bibliographic Records (FRBR) 1998
  - Resource Description and Access (RDA) 2005-Present
    - Web-based and Online
      - Open cataloging workflow,
      - Ready tools supporting export/import of data
    - Extensibility & Flexibility
      - Disseminating and sharing data
      - Describing all types of resources
    - Compatibility to international cataloging & metadata standards
Nature of Library Data—Cont’d

- Interoperability (ONIX, MARC, FRBR, FRAD)
- Interconvertibility of vocabularies
  - LCSH
  - Users tags
  - RDF Vocabulary
- Accessibility (global for all types of information institutions)
- Collocated information

- Electronic books and resources
  - Digitization projects: Google Books, Million Book Project, Open Content Alliance
  - E-books Publishing
  - E-Journals
Nature of Library Data—Cont’d

- Social networking (Peer reviews)
- Interactive book information (Amazon/Google book cover & content images)
- Relevant ranking
  - Spell checking/automatic term conversion & matching; “Did you mean….?”
  - Relevance feedback; “More like this”
  - Best match retrieval; No search dead ends.
- My Library (Library Account)
  - Individual profile,
  - Alert, E-mail notification
  - Export/import citations
21st Century Libraries’ Mission

● Next Generation Cataloging

● Web as information portal
  ● Providing an interactive, collaborative cataloging interface

● Digital assets, Digital Repository and/or Institutional Repository
  ● Providing access and description of digital objects
  ● Preserving the life cycle of digital objects
21st Century Libraries’ Mission—Cont’d

- Next Generation Cataloging
  - Developing standards and maintenance
    - Introducing Resource Description & Access (RDA)
    - Allowing different Metadata (MD) level for different purposes
    - Sharing MD & Best Practices (re-mixing MD)

- Collaborative cataloging
  - OCLC (Online Computer Library Center)
  - SKOS (Simple Knowledge Organization Systems)
  - RDF (Resource Description Framework)
Discovery Tools (Ex. Encore, Enterprise, WorldCat Local, Vufind, Summon, Blacklight)

- Integrating library resources
- Faceted search in OPAC
- Federated search in OPAC
- Interoperability between libraries catalogs & other information institutions (Ex: Union Catalog within a state)
- Tag clouds & Folksonomy
21st Century Bibliographic Control

- Web-Based
- Global
- Cooperative/Collaborative Cataloging
- Re-evaluated Guidelines & Standards
- Open Interoperable Standards
- Decentralized Data (shared data from multiple sources)
- Dynamic
Cooperative/Collaborative Cataloging Examples

- http://sites.google.com/site/opencatalogingrules/
- http://sites.google.com/site/opencatalogingrules/new-home-page
- http://www.w3.org/2004/02/skos/
- http://www.w3.org/2004/02/skos/vocabs
- http://www.oclc.org/services/brochures/213635usb_cataloging_and_metadata_services.pdf
Discovery Tool & Statewide Union Catalog Examples

- http://discovery.library.colostate.edu/
- http://melvyl.cdlib.org/
- http://prospector.coalliance.org/
More to Read

- www.w3.org/RDF
- http://metadataregistry.org/rdabrowse.htm
- www.rdaonline.org
- http://dublincore.org/documents/dcmi-terms
- http://www.alatechsource.org/
Thank You!

Questions?