How to find books in a library?

Dynamic Map Display in WebVoyage

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So Why Did Wichita State University Libraries Want To Do This?

- Our building layout can be confusing to university and community members who don’t come to the facility often.
  - What is on each floor?
  - Terminology: Folios. What is a folio? Then, where are they? (Folios are divided on three different floors.)
  - Branch Libraries: Where is the Chemistry Library? There’s a Music Library?
Or…

- Floors: We have a missing fourth floor (according to the elevator buttons).
- “Mixed-up Media”: We had Government Documents microforms in one place, other microforms in another as the project began.
- Rooms: How do I find the Current Periodicals Room?
- In short: Public Services had many directional questions to answer …
Yes, we had traditional maps

• Building maps were available
• Floor guides existed
• Lots of signs were available

• But confusion still existed.
  – Which way is north?
  – I can find the beginning of the F call numbers. Where are the numbers at the end? (People need to know to turn around and cross an aisle)
We did what we could with WebVoyage configuration

- We tried to name locations carefully, and to customize messages
  - There were limits to the length of message we could use
  - We couldn’t customize to the level of detail public services wanted: (If the call number is a Q, can’t you generate a message saying what floor Q’s are on?)
Major events of 2005/2006

• We decided to do the most comprehensive redesign of our OPAC since 2000.
• I held meetings with public services personnel – How can we improve what people see in the library catalog?
• We hired Hongfei
• We hired Sai
• I asked: can we have maps in the OPAC? I’ve seen other places do this.
Challenges We Needed to Face

- Multiple classification schemes in use: LC, SUDOC, Accession Numbering, “other” varieties.
- Same work in more than one location with different call numbers.
- Where to pull the call number from? (We needed to use the holdings call numbers, not the bibliographic record call number).
- What if there is no call number?
As the work began

- We started with basic maps first, then moved to the dynamic maps as they could be built.
- We began with our main library stacks. (As these began to appear, immediately we began to hear … when will we get the Documents done? How about the Music Library? Etc.)
- The maps were immediately popular, since they showed different parts of the building and collections in more detail.
When the dynamic features began to appear

- Immediate WOW! Factor
- The maps do seem to highlight “other available” copies.
- Since the maps “walk” people through the stack areas directional questions are reduced.
- Positive public feedback – the dynamic maps are perceived as “fun”.
Dynamic Map Examples:
Materials shelved/ not shelved by LC class number

• If NOT shelved by LC class number, display holding locations
  e.g. Gov Docs, special collections
  (Example 1)

• If shelved by LC class number, display the exact shelving position
  (Example 2)
Dynamic Map Examples: Multiple Maps

- Multiple maps are displayed for holdings at different locations (Example 3)
- Multiple maps are displayed for holdings in different formats (Example 4)
Dynamic Map Examples: Special Situations

- Separately Shelved Folios (oversized books) (Example 5)
- Materials with separately shelved visual parts:
  e.g. books with accompanying CDs or DVDs (Example 6)
- Items shelved not at the locations in their holding records:
  e.g. 852 8 0 ‡b Stacks ‡h MICROFILM ‡i 144 (Example 7)
Dynamic Map Examples: Electronic Resources Display

• Multiple formats or multiple urls for a bib record
  
  e.g. Title entry: book, microform…
  
  856 additional url(s)

  (Example 8)

• If only one electronic item or link is associated with a bib record, it will redirect to the online resource in four seconds

  (Example 9)
Dynamic Map Examples: Branch Libraries

• Patrons will be given directions to items at branch libraries via dynamic campus maps e.g. Music Library, Chemistry Library…

(Example 10)
Dynamic Map Creation

- **Software**
  - Adobe Photoshop 7.0
  - Adobe ImageReady 7.0

- **Files created**
  - by Location
    - Branch Libraries
      - Chemistry Library
      - Music Library
    - Departmental Collections in the Main Library
      - Government Documents
      - Special Collection
Dynamic Map Creation (Cont.)

- Separately Shelved Materials
  - Reserves
  - Reference Materials
  - Big Book
  - Microform
  - New Book

- Folios
  - A-L Oversized Books
  - M-QE Oversized Books
  - QH-Z Oversized Books

- Other Locations
  - Reference Desk
  - Reserve Desk
  - Circulation Desk
  - Technical Services
Dynamic Map Creation (Cont.)

- by LC call number:
  - A B BF BR C D E F G
  - H HD HF HG HM HV J K L and L2 (L across 2 floors) M N
  - P PR PS PT PZ Q Q2 QC QD QE QH QP
  - R RC RM S T TA TK
  - U V Z

Treatment of:
  - Large collection under call number with the same initial letter;
  - Call number with the same initial letter across 2 floors…
Creating Animated Effect
Creating Animated Effect (Cont.)
Creating Animated Effect (Cont.)
Dynamic Map Display Strategy

- Elements in Dynamic Map Display
  - Brief Title
  - Authors
  - Call Number
  - Description
  - Dynamic Map

- Levels of Dynamic Map
  - Bib Record Map Display
  - Holding Record Map Display
Data Processing

• Export Data from WebVoyage
  – Export Syntax in DisplayN.cfg
    • HTML:020||a:<img src="http://syndetics.com/
    • hwN.pl?isbn={a}/filename&client=ClientCode”>
  – Export Bib Data in DisplayN.cfg

```
HTML:245||a:<a href="http://libmedia.wichita.edu/
  Map/Mapquerylist.asp?tSearch={a}&aSearch=
HTML:300| a:{a}
HTML:300| b:{b}
HTML:300| c:{c}
HTML:300| e:{e}
HTML:001| a:&pSearch={001}”>Find Where It Is</a>
```
Data Processing

• Combine Data in Access Report
  – BIB_MFHD table
    • Link to Holding Record
  – MFHD_MASTER table
    • Holding’s Call Number
  – BIB_TEXT table
    • Title and Author
  – LOCATION table
    • Check if LC Class applicable
Data Processing

• Combine Data in Access Report
  – ELINK_INDEX table
    • Link to Electronic Resource
• JOIN Tables & Make Query
  – Create and Save Query [MAPQUERY]
• Create Active Interface Pages
  – Receive Data from WebVoyage
  – Send query string to the Access Query
  – Handle Various Display Conditions
  – Display Map with Bib Info
Data Processing

• Diagram of Data Processing Flow

WebVoyage

BIB_ID

Descript

Processing Program

BIB_ID

Call #
Location

Title….

Dynamic Map Display

Conditions

Location?
Call Number?
Description?
DVD?
Video?
CD?
Microfilm?
E-Links?

Access Reports [Mapquery]

ODBC

Voyager Database
Programming Logic

• Process Received Data
  – Save Data into Variables
    • BIB_ID = Request.QueryString ("BID_ID")
    • Title = Request.QueryString ("Title")
  – Remove Useless Characters
    • Description = Replace (Description, "</TD></TR><TR><TH NOWRAP ALIGN=RIGHT VALIGN=TOP></TH><TD>", "")
  – Set Identifier for Accompanying Items
    • DVD = INSRT (Description, "DVD")
Programming Logic

• Create SQL RecordSet in ASP
  – Query String
    • SELECT * FROM [MAPQUERY] WHERE [BIB_ID] = "" & BIB_ID & ""
  – Returned Fields from [MAPQUERY]
    • CALL_NO
      – Display Call Number with the Map
      – Get LC Class for Dynamic Map Display
    • BRIEF_TITLE & AUTHOR
    • LOCATION_ID
Programming Logic

- Conditions & Display
  - LOCATION
    - Library Stack: Display LC Class Map
    - Electronic: Display Link & Description
    - Folios: Display Folio Stack Map
    - Branches: Display Campus Map
    - Others: Display Location Map
  - CALL NUMBER
    - Display Micro Location if Containing ‘Micro’
    - Process Separately for Class ‘Q’ & ‘H’
Discussion and Future Direction

• Display to item level for branch library materials
• Display to item level for special collections and Government Documents
• Convert ASP code to PHP or PERL
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