GETTING TECHNICAL WITH XSLT

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AGENDA

- Steps involved in planning and executing a XSLT project
- Case Study
  - Project background & objectives
    - Overview of thesis & dissertation cataloging practice at MSU
      - Structure & characteristics of mulver records
  - Objectives
    - Kinds of records to be created
      - Data element requirements
    - Processing logic
  - Live demo
    - Creation of XSLT
    - Execution using oXygen XML Editor
PLANNING AND EXECUTING A PROJECT

- Setting project objectives
  - What to achieve?
  - Data requirements in desired output
- Comparing desired output against source data
  - What to be copied as is?
  - What to be adjusted?
  - What to be generated?
    - Based on existing data or not?
    - Constant vs. dynamic
- Deciding processing steps
  - One or multiple XSLTs
  - Steps within a XSLT
  - Exceptions and variations
    - Incorporating steps to address exceptions? Or separating exceptions out?
• Creating the XSLT(s)
  • What elements/functions to use?
    • Existing data
  • Sequence of elements/functions
    • Processing steps
    • Exceptions and variations
• Debugging/Testing/Correcting the XSLT
  • Unexpected outcomes
• Production
Case Study

MULVER THESIS RECORDS
THESIS & DISSERTATION CATALOGING AT MSU

- Currently, separate record approach for print, microform, & electronic
- 7388 titles with mulver records
  - Print & Microform on the same record
    - Separately cataloged on OCLC but merged in local catalog
  - Thesis year: 1943-2005
  - Practice discontinued in summer 2006
STRUCTURE OF MULVER RECORDS

=1DR 01732ntm a2200397la 45x0
=001 55612367\(Paper\)
=001 55612369\(Microfiche\)
=003 OCoLC
=005 20040608150813.0
=007 heoalb---bucu
=008 040608s2003\(\|\|\|xx\|ab\|\|\|bm\|\|000\|0\|eng\)\d
=040 \$aEEM\$cEEM
=049 \$aEEMT
=099 \$a137 529 THS
=100 1\$aBabladelis, Paul Gregory.
=245 13\$aLa Amistad International Peace Park $h[paper, microform]$bwhat part does it play in the peace process? $cby Paul Gregory Babladelis.
=260 \$c2003.
### SUMMARY OF CHARACTERISTICS

<table>
<thead>
<tr>
<th>MARC Fields</th>
<th>Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>2 (print, microform)</td>
</tr>
<tr>
<td>007</td>
<td>For microform</td>
</tr>
<tr>
<td>008</td>
<td>Form of item (byte 23): Blank</td>
</tr>
<tr>
<td>049</td>
<td>Location code for print</td>
</tr>
<tr>
<td>099</td>
<td>Call no. for print</td>
</tr>
<tr>
<td>245$h</td>
<td>[paper, microform]</td>
</tr>
<tr>
<td>533</td>
<td>Reproduction note for microform</td>
</tr>
<tr>
<td>952</td>
<td>2 (print, microform)</td>
</tr>
<tr>
<td></td>
<td>$b: Only in print (barcode)</td>
</tr>
</tbody>
</table>
OBJECTIVES

• Unmulver the mulver records
  • Re-create microform records by
    • Transfer data only pertaining to microform to the new records (microform 001, 007, 533)
    • Copying, with/without modification, common data into the new records (245$h, 008, etc.)
    • Create new data in the new records (099 call no.)
  • Clean up print (base) records by
    • Removing data only pertaining to microform
DESIGN OF XSLT

- Processing logic
  - To go through a single record twice
    - Clean up the record → Print record
    - Generate a microform record
  - 3 templates
    - Print data specific
    - Microform data specific
    - Data common to both formats (reusable)
• Print data template
  • To copy print 001, 245 with adjustment
  • To copy 008, 099 as is
  • Generate 049, 949 overlay command
  • Invoke “common data” template
• Microform data template
  • To copy microform 001, 008, 245 with adjustment
  • To copy 007, 533 as is
  • To generate 049, 099
  • Invoke “common data” template
• Common data template
  • Copy fields not touched by the other two templates, except 9XX, without adjustment
CREATING A XSLT
QUESTIONS?

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