Utilizing the Benefits of Native XML Database Technologies

Alan Cornish
Systems Librarian
Washington State University Libraries
Native XML – One Definition

• The XML document is considered the basic unit of storage

• Database is DTD- and Schema-independent

• Database uses an XML-specific query language, to support the hierarchical nature of XML documents
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  </did>
</archdesc>
Official EAD Version 2002 Web Site

The EAD Document Type Definition (DTD) is a standard for encoding archival finding aids using Extensible Markup Language (XML). The standard is maintained in the Network Development and MARC Standards Office of the Library of Congress (LC) in partnership with the Society of American Archivists.

General Information

- Development of the EAD DTD
- Design Principles for Enhancements to EAD
- EAD Listserv: How to subscribe | List message archive
- EAD Sites on the World Wide Web
- Other Sites Related to EAD
- EAD Working Group Members

News and Announcements

- EAD DTD Version 2002 now available
- EAD 1.0 to EAD 2002 Conversion Tools [New]

EAD DTD Official Documentation for Version 2002

- EAD DTD Version 2002 and related files: FTP instructions
- EAD Version 2002 Application Guidelines: (Not yet available)
<!ELEMENT abstract (
   %m.phrase.basic;)*
>
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   %a.common;
   %m.abstract.label;
   %m.abstract.encodinganalog;
   %m.abstract.type;
   %m.abstract.langcode;
   >

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   %m.langmaterial.label;
   %m.langmaterial.encodinganalog;
   >

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XML Example:
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How do applications use XML?

• Managing documents
• Finding documents
• Reusing content
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  <addressline>Pullman, WA 99164-5610</addressline>
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<date normal="1998" encodinganalog="date">© 1998</date>
Guide to the Maps from the Library of Leonard and Virginia Woolf

1815-1956

Woolf (Leonard and Virginia) Maps

Finding aid prepared by Trevor J. Bond

Funding for encoding this finding aid was provided through a grant awarded by the National Endowment for the Humanities.
Browse the Finding Aids

What's a finding aid?

Filing Titles

"Gertie" Autograph Book
19th Century Actors Carte de Visite Collection
37th Dogras Northwest Frontier Colonial India Photograph Album
4-H Clubs of Idaho Records
A.V. Love Dry Goods and Loft Building Photograph Collection
Aamot (Sigurda Haug) Oral History Interview
Abbott (Édward Charles) Papers
Abel-Henderson (Annie) Papers
Abemethy (George) Papers
Adair (Albert) Papers
Adair Family Reminiscences
Adams (Gien Cameron) Papers

Retrieve  Reset
Browse the Finding Aids

What's a finding aid?

Filing Titles

- Women's Protective Union (Butte, Mont.) Records
- Women in Communications, Inc. Records
- Woodburn Mining Company Records
- Woodman (Ruth Cornwall) Papers
- Woodworth (Chauncey Erasmus) Papers
- Woolf (Leonard and Virginia) Maps
- Woolf (Leonard S.) Papers
- Woolf (Wallace S.) Papers
- Worden (Frank L.) Papers
- Worden (H. O.) Papers
- Worthen (Clifton Boyd) Papers
- Wourms (John H.) Records

Retrieve  Reset
Browse the Finding Aids

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Retrieve  Reset
Browse the Finding Aids

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Woolf (Leonard and Virginia) Maps
Woolf (Leonard S.) Papers
Woolf (Wallace G.) Papers
Worden (Frank L.) Papers
Worden (H.O.) Papers
Worthen (Clifton Boyd) Papers
Wourms (John H.) Records

Retrieve
Reset
Guide to the Maps from the Library of Leonard and Virginia Woolf 1815-1956

Finding aid prepared by Trevor

© 1998

Overview of the Collection

Repository: Washington State University Libraries
Manuscripts, Archives, and Special Collections
New Holland Library
Pullman, WA 99164-5610 USA
(509) 335-6691
http://www.wsulibs.wsu.edu/holland/masc/masc.htm

Sponsor: Funding for encoding this finding aid was provided through a grant awarded by the National Endowment for the Humanities.

Collection Number: Cage 665

Creator: Woolf, Leonard and Virginia
TEXTML Server API

This documentation is designed for programmers who develop applications that communicate with TEXTML Server. It describes TEXTML Server’s COM and .NET APIs.

For a complete .NET sample application try TEXTML Sample Application and see TEXTML Sample Application Guided Tour.

For step-by-step procedures for creating client applications with the COM API see TEXTML Server Programmer’s Guide.

Red stars (*) in the table of contents mark changes from previous versions of the documentation. Changes can be updates made to the API or DTDs or to the documentation.
• TEXTML_E_SERVER_UNAVAILABLE: Server unavailable at the time.

• TEXTML_E_TRANSACTION_LOG: A Transaction Log has been generated.

Example

VBS

' IxiaSearchServices.SearchIndexes()
dim myDocBase
set myDocBase = wscript.CreateObject
dim searchEngine
set searchEngine = myDocBase.SearchServices
query = "<?xml version='1.0'?><query VERSION='3.5'><property NAME='Name'></anystr/></elem></property></query>"
dim strResults
searchEngine.SearchIndexes query, strResults
MsgBox strResults

See also

SearchDocuments()
TextmlServer.DocBaseServices, TextmlServer.ResultSpace

    Dim query, strResults, strHold As String

    objClientServices = Server.CreateObject("TEXTMLServer.ClientServices")
    objServerServices = objClientServices.ConnectServer("localhost")
    objDocBaseServices = objServerServices.ConnectDocBase("Northwest Digital Archives")
    objSearchSrv = objDocBaseServices.SearchServices

    query = """<?xml version=""""1.0"""">" & _
            "<query VERSION=""""3.5"""">" & _
            "<key NAME = """"FilingTitle Mod""""> <elem> <anystr/> </elem> </key>" & _
            "</query>"

    objSearchSrv.SearchIndexes(query, strResults)

    Dim xmlDoc As New MSXML2.DOMDocument40
    Dim nodeList As MSXML2.IXMLDOMNodeList
    Dim node As MSXML2.IXMLDOMNode
    xmlDoc.async = False
    xmlDoc.loadXML(strResults)
    nodeList = xmlDoc.documentElement.selectNodes("/Key/list/elem")
    For Each node In nodeList
        lstFilingTitles.Items.Add(node.text)
    Next

    End Sub
<xml version="1.0" encoding="UTF-16">
<result VERSION = "3.5">
<key NAME = "FilingTitle Mod">
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<elem OCC_COUNT = "1" DOC_COUNT = "1">Adelphian Literary Society Records</elem>
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<elem OCC_COUNT = "1" DOC_COUNT = "1">Agricultural Experiment Station, Department of Agriculture</elem>
<elem OCC_COUNT = "1" DOC_COUNT = "1">Agricultural Extension Service Microfilms of Reports</elem>
<elem OCC_COUNT = "1" DOC_COUNT = "1">Allshie (James Franklin) Papers</elem>
<elem OCC_COUNT = "1" DOC_COUNT = "1">Alston (Peggy) - Research on Lummis Island History Collection</elem>
<elem OCC_COUNT = "1" DOC_COUNT = "1">Atken (Frances Alva) Collection</elem>
<elem OCC_COUNT = "1" DOC_COUNT = "1">Akin (James) Papers</elem>
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Guide to the Alaska Packers Association Records 1841-1989
Repository: Center for Pacific Northwest Studies
Number of hits: 10
Summary: The Alaska Packers Association Records document the history of one of the most dominant forces in the commercial fishing industry in Alaska and the Puget Sound from the late nineteenth through the late twentieth century. The bulk of the records span from 1896 through 1974, documenting the growth of the industry, its technological and economic development, the geographic expansion of the salmon trade, and labor conditions. The records include administrative and financial records, production records, maps, plans, photographs, newspaper clipping files, industry publications, and extensive information relating to APA personnel
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Guide to the Records of the United States War Relocation Authority Central Utah Project 1941-1945
Repository: Special Collections, University of Washington Libraries
Number of hits: 5
Summary: Topaz, Utah, relocation center of the WRA, where Japanese Americans from the San Francisco Bay Area were housed during World War II.
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Guide to the George Mathis Photo and Art Collection 1915-1970
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Topaz, Utah, relocation center of the WRA, where Japanese Americans from the San Francisco Bay Area were housed during World War II. [from: Abstract]

... U.S. War Relocation Authority (WRA) incarcerated the roughly 9,000 Japanese American residents of the San Francisco Bay Area at its Central Utah Relocation Project, later Central Utah Relocation ... [from: Biography or History]

The Army held the Bay Area’s Japanese American community at the Tanforan and Santa Anita ... [from: Biography or History]

... American community at the Tanforan and Santa Anita racetracks, which served as assembly centers, while the WRA built the Topaz camp. Topaz opened in September 1942, and by the end of the year it housed virtually all Japanese Americans from the Bay Area. The first issue of the camp's newspaper told residents ... [from: Biography or History]

... Japanese Americans to return to the West Coast. The WRA announced that Topaz would close on November 1, 1945. Roughly 60% of Topaz's residents eventually returned to the Bay Area. [from: Biography or History]
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Bay Area were housed during World War II.

**Historical Note**

The U.S. War Relocation Authority (WRA) incarcerated the roughly 9,000 Japanese American residents of San Francisco Bay Area at its Central Utah Relocation Project, later known as the Topaz Detention Center, which housed virtually all Japanese Americans from the Bay Area. Topaz was one of ten such WRA incarceration camps.

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Topaz did not experience any of the violent upheavals that occurred at other camps, but the resentment of the residents did occasionally erupt into overt resistance. Probably the largest such episode occurred after a policeman shot and killed James Wakasa near Topaz's barbed wire fence on April 11, 1943. Residents demanded that the WRA include community representatives on the committee to investigate the incident. They also demanded that Wakasa's funeral take place at the spot where he was killed. When the WRA resisted these demands, almost all of Topaz refused to work. Even after the WRA cancelled Wakasa's outdoor funeral and the Army court martialed the policeman, residents were not mollified. The work strike continued until Wakasa's funeral. When Wakasa's killer was found not guilty at his court martial, this information was withheld from the camp newspaper for fear of further protests.

While Wakasa's death brought the community together, other Army and WRA policies divided it. In February 1943 the WRA administered a questionnaire that asked all residents if they were willing to defend the United States, if they would take an oath to accept the WRA as the government, and if they would accept a survey of their loyalty to the United States. Many Topaz residents found the questions to be poorly worded; they debated over how to answer and how to respond. Division soon erupted between those who answered the two key questions in the affirmative and those who gave negative responses. The WRA used the questionnaire to segregate the respondents. Those who gave positive answers and were allowed to find work in the Midwest or East Coast or to volunteer for the Army.
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Guide to the Records of the United States War Relocation Authority Central Utah Project, 1941-1945

0056-001

Finding aid encoded by Heather Johnson, February 6, 2002
Funding for encoding this finding aid was partially provided through a grant awarded by the National Endowment for the Humanities

OVERVIEW OF THE COLLECTION

Repository Name: University of Washington Libraries
Special Collections

Collection Number: 0056-001

Creator: Central Utah Relocation Project
Adobe XMP Metadata

• XMP is based on the W3C's Resource Description Framework specification

• Enables XML metadata packet to be embedded within files

• Typical uses of XMP: PDF files; image formats (JPEG, GIF, TIFF, PNG)
DEVELOPING A COMMUNITY INDICATORS PROJECT

IN THE APPLEGATE WATERSHED

By

CHRISTINA LEE HANNUM-BUFFINGTON
Description

Document Title: Developing a community indicators project in the App

Author: Hannum-Buffington, Christina Lee


Description Writer:

Keywords:

Community development -- Environmental aspects -- Oregon -- Applegate River Watershed; Ecosystem management -- Oregon -- Applegate

Copyright Status: Copyrighted

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Created: 5/25/2000

Modified: 5/25/2000

Application:

Format:
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Adobe XMP Metadata

• TEXTML is capable of storing and indexing binary documents that contain XMP metadata

• TEXTML extracts and analyzes the XMP metadata packet; based upon the database’s indexing, content is extracted to the appropriate indexes