Defacing DSpace with Manakin
DSpace User Group, February 2006

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http://di.tamu.edu/
Introduction to the XML UI project

Moa & Manakin

Manakin’s structure

Aspects & Themes

Project status & Future work
What is The XML UI?

- The XML UI is a project to develop a new front-end for DSpace
  - Enable communities and collections to customize their interface
  - Separate business logic from stylistic design
  - Enable internationalization & localization of content
  - Provide an alternative interface
  - Modular interface to enable parallel development (new)

- History
  - Moa
  - Manakin
Why?

- The XML UI provides:
  - Branding
    - University level
    - Community level
    - Collection level
  - Institutional / Community credibility
  - Community ownership & buy in

- Increase community adoption of DSpace
What is Moa?

- The first version of the XML UI project
  - DOM based
  - Static three stage pipeline
  - XSL Transformations
  - Full Source code available at:
    - http://di.tamu.edu/projects/xmlui/moa/

Moa Screen shots:
What we learned from Moa

- Changing the look-and-feel for individual communities is useful.
- XSL based Themes work.
- DSpace needs an interface modularity system.
- Themes should use metadata in native formats.
What does Manakin add?

- Manakin is the next version of the XML UI project
  - Based upon the Apache Cocoon framework
  - Designed using Separation of Concerns
  - Uses a SAX based pipeline
  - Current source code available via CVS at:
    - http://di.tamu.edu/projects/xmlui/manakin/

- These technologies enable
  - *N*-stage pipeline architecture
  - UI Modularity
  - Parallel Development

http://cocoon.apache.org/
Manakin vs JSP UI

- Current JSP based interface
  - No presentation layer
  - Difficult to extend (and maintain!)
  - Heavy use of HTML table layout

- Manakin
  - Separate presentation layer
  - Ability to extend
  - Themes per communities / collections
  - Metadata in native formats
Manakin Structural Overview

Manakin uses a pipeline architecture composed of two parts:

- **Content Generation**
- **Style Application**

( example Aspect chain )
Manakin & DSpace

- Manakin sits on top of DSpace along with other DSpace applications
Project Status

- Cocoon-based Wing-framework
  - Chain Aspects
  - Apply selected theme

- Artifact Browser Aspect
  - Browse communities & collections by title, date, or authors
  - Search the repository
  - View items

- Themes
  - Reference theme completed
Future Work

- Develop the standard Aspects
  - All the current functionality of DSpace

- Future Theme Work
  - Standard Theme Library
  - Formats other than XHTML, such as PDF & WML
  - AJAX, RSS, STX and other hip “buzzword” technologies

- Future Aspect Work
  - Improved searching & browsing capabilities

- User selected themes
Example

- Texas Digital Library
  - [http://www.tdl.org/](http://www.tdl.org/)

  or

- Embedded Screen shots
Questions?

- More information may be found at:
  - News and updates
  - Manakin Developers Guide
  - CVS Access

[Red-capped Manakin (Video)]
Folder Theme

DSpace is Live
Welcome to our digital repository of My University research!
More exciting news to appear here.

This is a default installation of DSpace!
It can be extensively configured by installing modified JSPs, and altering the site configuration.

Search
Enter some text in the box below to search Dspace.
Search:

Select a community to browse its collection
- Cushing Memorial Library
- Humanities Informatics
- My Example Community
- Office of Graduate Studies

( back )
Sapphire Theme
Introduction Theme

DSpace is Live
Welcome to our digital repository of My University research!
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This is a default installation of DSpace!
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Search
Enter some text in the box below to search Dspace.

Search:  
Go

Select a community to browse its collection
- Cushing Memorial Library
- Humanities Informatics
- My Example Community
- Office of Graduate Studies

This theme is a learning tool designed to ease developers into the CSS side of the theme design process of the DSpace XML UI. Consult the theme writing guide and the XML framework reference for more information.

( back )
Amber Theme
Welcome to the Texas Digital Library
Welcome to the Texas Digital Library Repository

The TDL Repository is composed of collections digitally archived by the five Association of Research Libraries (ARL) universities in the state of Texas. The TDL Repository serves to preserve and promote the research output of Texas, including electronic theses and dissertations, faculty datasets, departmental databases, digital archives, course management and learning materials, digital media, and other special collections.

Search the repository

Enter some text in the box below to search the repository.

Communities in the repository

Select a community to browse its collections.

- Theses and Dissertations
Browse By Title

16th Century Cast-Bronze Ordnance at the Museu de Agra do Heroismo
by Hoskins, Sara Grace, MA, Texas A&M University, December 2003
Full Text  Citation

A 1Gsamp/s 6-bit flash A/D converter with a combined chopping and averaging technique for reduced distortion in 0.18(μm) CMOS
by Stefanou, Nikolaos, 1975-, M. S., Texas A&M University, May 2005
Full Text  Citation

3-D multichannel seismic reflection study of variable-flux hydrocarbon seeps, continental slope, northern gulf of Mexico
by Thomas, Ryan Douglas, M. S., Texas A&M University, August 2003
Full Text  Citation
Title: Collection understanding
Author: Cheng, Michelle T.

Collection understanding shifts the traditional focus of retrieval in large collections from locating specific artifacts to gaining a comprehensive view of the collection. Visualization tools are critical to the process of efficient collection understanding. By presenting simple visual interfaces and intuitive methods of interacting with a collection, users come to understand the essence of the collection by focusing on the artifacts. This thesis discusses a practical approach for enhancing collection understanding in image collections.

Description:

URI: http://handle.tamu.edu/1969.1/69
Date: 2004-09-30

Citation


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Texas A&M University is a land-grant, sea-grant and space-grant institution located in College Station, Texas. The university's enrollment includes approximately 44,000 students studying for degrees in 10 academic colleges. This collection contains the theses and dissertations produced at A&M since 2002.

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