



DSpace XML UI:

Manakin

Defacing DSpace with Manakin

DSpace User Group, February 2006

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[Outline]

- 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



RICE



- 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



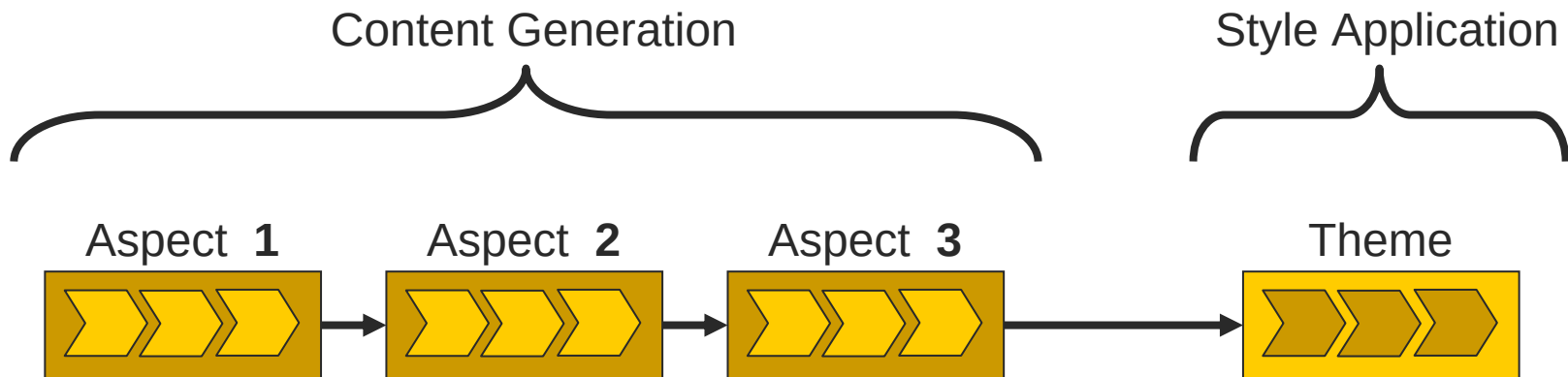
[Manakin vs JSP UI]

- 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:

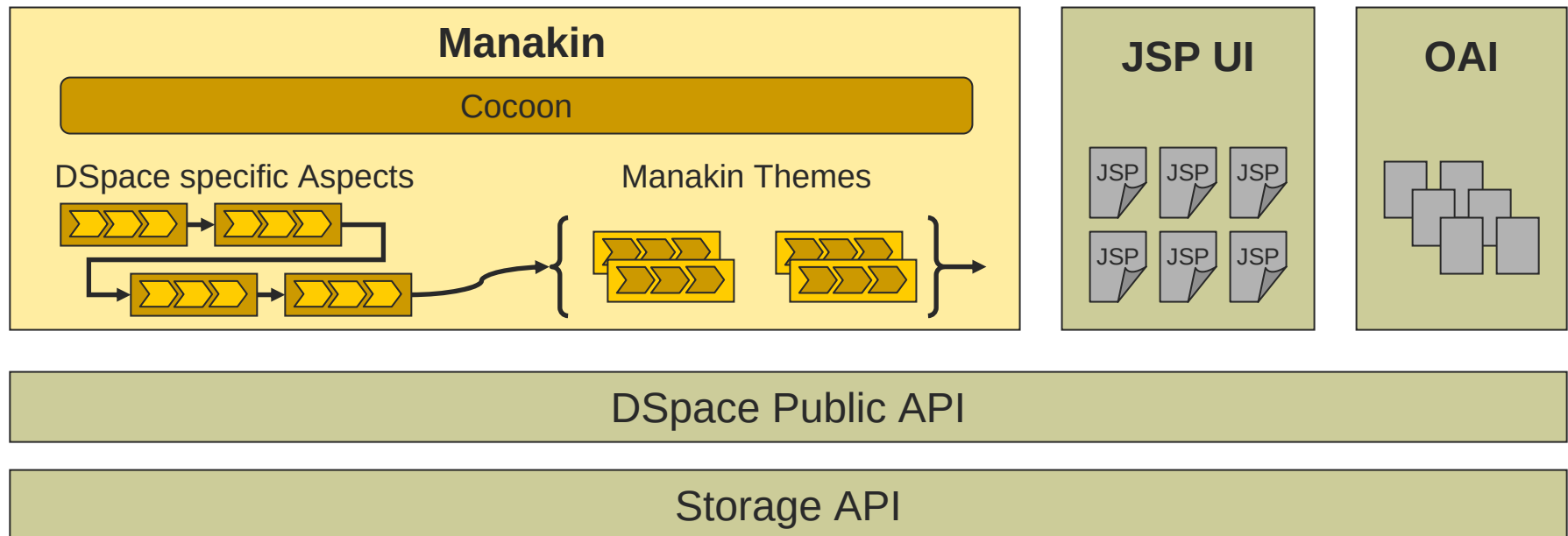


(example Aspect chain)



[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/>

or

- [Embedded Screen shots](#)



[Questions?]

- More information may be found at:
 - <http://di.tamu.edu/projects/xmlui/manakin/>
 - News and updates
 - Manakin Developers Guide
 - CVS Access



Red-capped Manakin

[\(Video \)](#)

