## Manakin themes:

Customizing the look and feel of DSpace



# Outline

- Overview and theme components
- Creating a new theme
- ► Basic theme development
- Complex theme development

# Overview and Theme Components

# Review

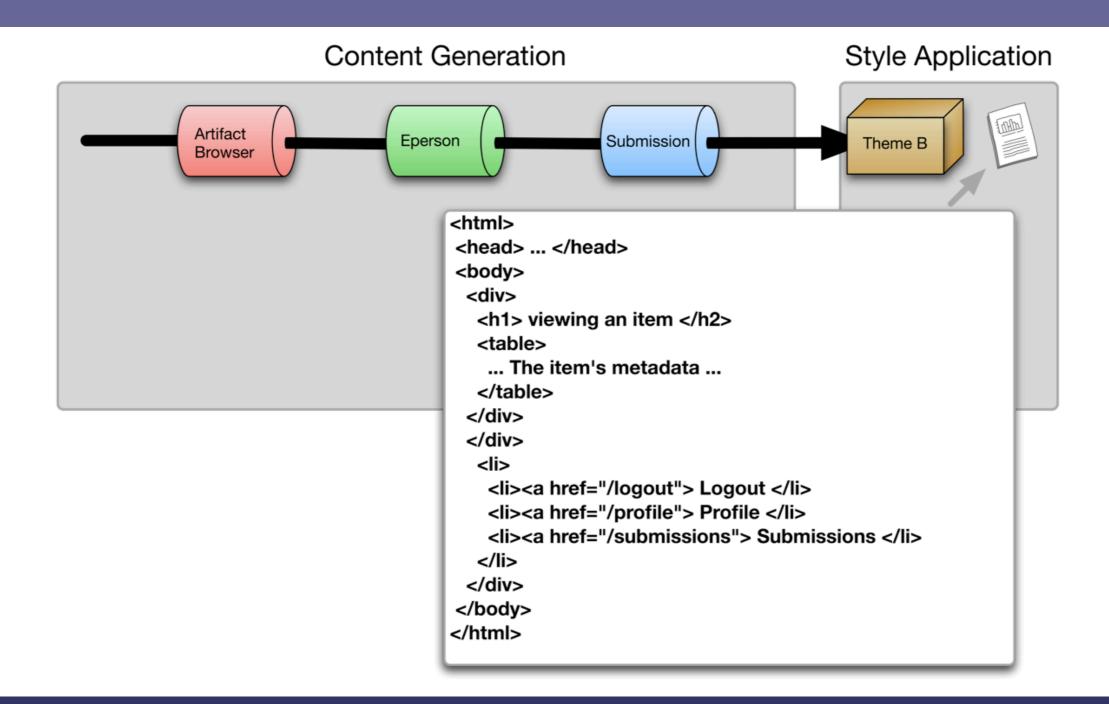
- ▶ What is Manakin?
- ▶ What does Manakin do?
- ► How does Manakin do it?

# Aspect Chain Aspect 1 Aspect 2 Aspect 3 Theme B Theme C DRI Document

# Quick Review

#### **Content Generation** Style Application Artifact **Eperson** Submission Theme B Browser <document> Theme C <body> ... </body> <options> ... t n="account"> <item xref="/logout"> logout </item> <item xref="/profile"> Profile </item> <item xref="/submissions"> Submissions </item> </list> </options> <meta> ... <userMeta> ... </userMeta> <objectMeta> <object identifier="hdl:12345/23"/> .... METS document for item ... </object> </objectMeta> </meta> </document>

# Quick Review



# Quick Review

# What does a theme do?

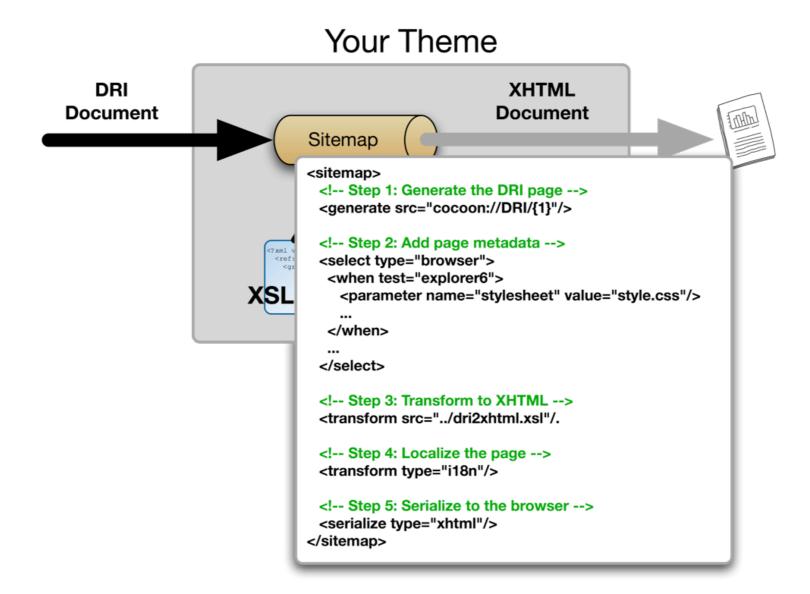
- Convert DRI to a more usable format
- ► Style the result

# Theme components

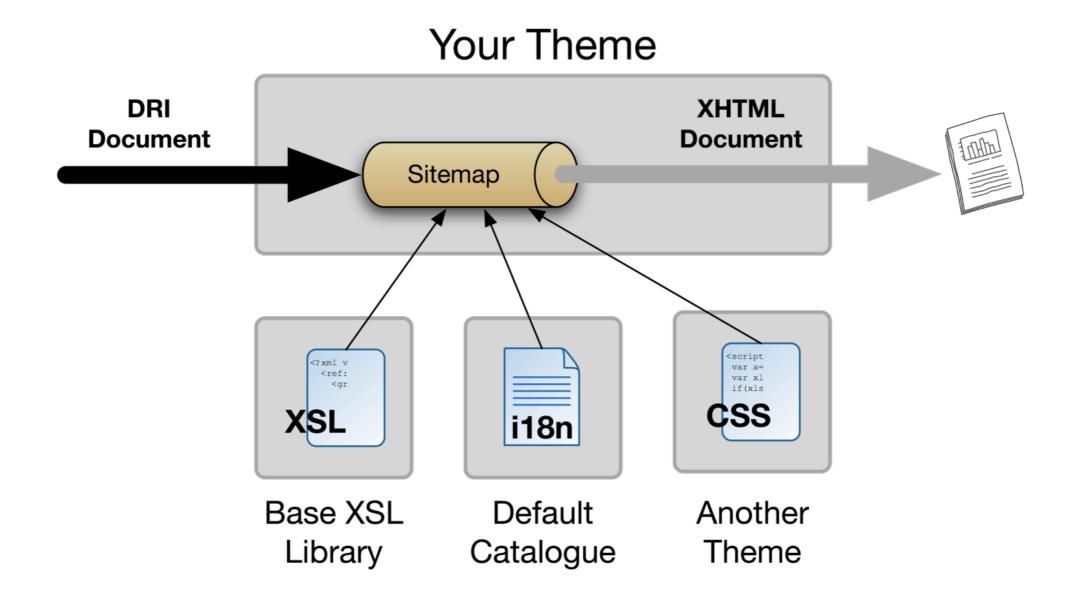
- Sitemap
  - The heart of a theme
  - A configuration file
  - References other components
- ► XSL
  - Converts DRI to HTML
- CSS
  - Styles the resulting HTML

# DRI Document Sitemap Sitemap

### Providing your own components



### Providing your own components



Referencing components from elsewhere

### So what is a theme?

- A theme is a tool to convert from a DRI document to a userreadable format
  - Uses XSL to convert from DRI XML to XHTML
  - Styles the result with CSS
- ► The sitemap is the heart of a theme, referencing other components to actually perform the theme's task
  - Those components are reusable
  - Some are provided for you

# Theme Creation

# How do you create a new theme?

- Create a new directory and sitemap
- Configure the sitemap and provide the necessary components
- Install the newly created theme

### Create

- Locate the Themes directory
- Create the new directory and name it after your new theme
- Copy the contents of the template into your newly created theme directory

# Configure

- Editing the <theme-path>
- The default template sitemap is configured to:
  - use existing XSL
  - reference CSS files
  - internationalize the result using default settings

## Install

- The <u>xmlui.xconf</u> configuration file
- ► Theme settings
  - Theme path
  - URL matching rules: regex, handle, or both
  - Theme name

## Documentation

- ▶ Theme creation tutorial
  - <u>www.di.tamu.edu/projects/xmlui/manakin/resources/ThemeTutorial.pdf</u>
  - Also available from the Manakin source tree

- Internal documentation
  - sitemap.xmap
  - xmlui.xconf

# Results so far...

- Theme created and installed
- Default XSL used
- No styling applied

- DSpace Home
- Community One
- A John D. Wheelan Collection
- View Item

#### Login

#### Photos of Mexican Federal Army refugees at Presidio, Texas en route to Marfa, Texas. January 1914.

#### Show full item record

Preview



Title: Photos of Mexican Federal Army refugees at Presidio, Texas en route to Marfa, Texas. January 1914.

Author: Wheelan, John D. Abstract: Mexican Revolution

This collection is archived in the Cushing Memorial Library and Archives, Texas A&M University, College

Description: Station, TX. The captions and/or descriptive information are transcribed from the images. Cushing Library has

not validated its accuracy.

URI: <a href="http://hdl.handle.net/123456789/112">http://hdl.handle.net/123456789/112</a>

Date: 2006-09-13

#### Files in this item

Files Size Format View test.html 13.48Kb text/html View/Open

#### This items appears in the following Collection(s)

A John D. Wheelan Collection
 Photographs of the Mexican Revolution

#### Show full item record

#### Search DSpace

Go ● Search DSpace

#### Advanced Search

#### **Browse**

- · All of DSpace
  - o Communities & Collections
  - <u>Titles</u>
  - Authors
  - Subjects
  - By Dates

# Basic Theme Development

### Tiers review

#### 1. Style Tier

- XHTML + CSS
- Create simple themes

#### 2. Theme Tier

- XSL + XHTML + CSS
- Create complex themes

#### 3. Aspect Tier

- Cocoon + Java
- Add new features

# Creating a new style

- Start out with a blank CSS
- Make sure the theme's sitemap references it
- ► Fill it with CSS rules

# DRI Document Sitemap Sitemap

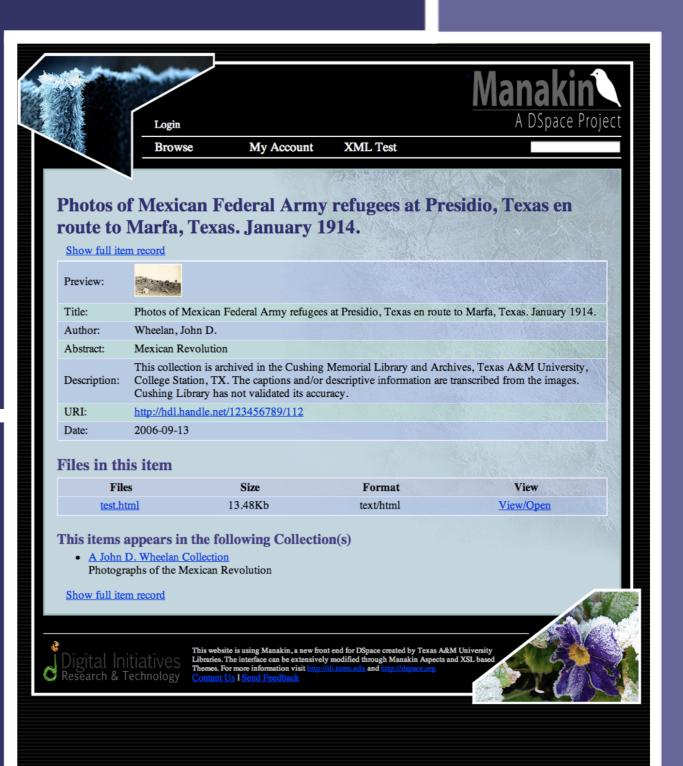
# Style Application Overview

# The mechanics of styling

- The sitemap does not apply the CSS to the XHTML
- ▶ The sitemap adds metadata tags to the pageMeta of the DRI document that point to the CSS
- Once the XSL builds the head element of the XHTML document, it places the CSS link there

### So far...

- CSS styles applied
- Theme created and installed
- Default XSL used



# Complex Theme Development

### Tiers review

- 1. Style Tier
  - XHTML + CSS
  - Create simple themes

#### 2. Theme Tier

- XSL + XHTML + CSS
- Create complex themes

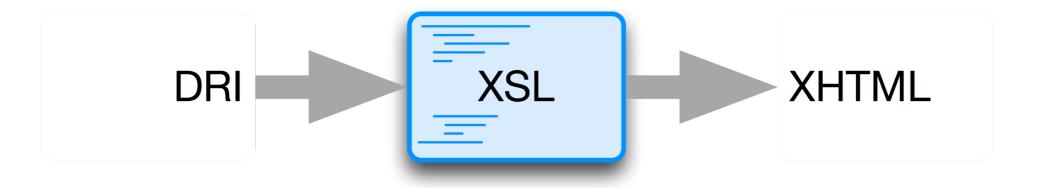
- 3. Aspect Tier
  - Cocoon + Java
  - Add new features

# How do you make XSL changes?

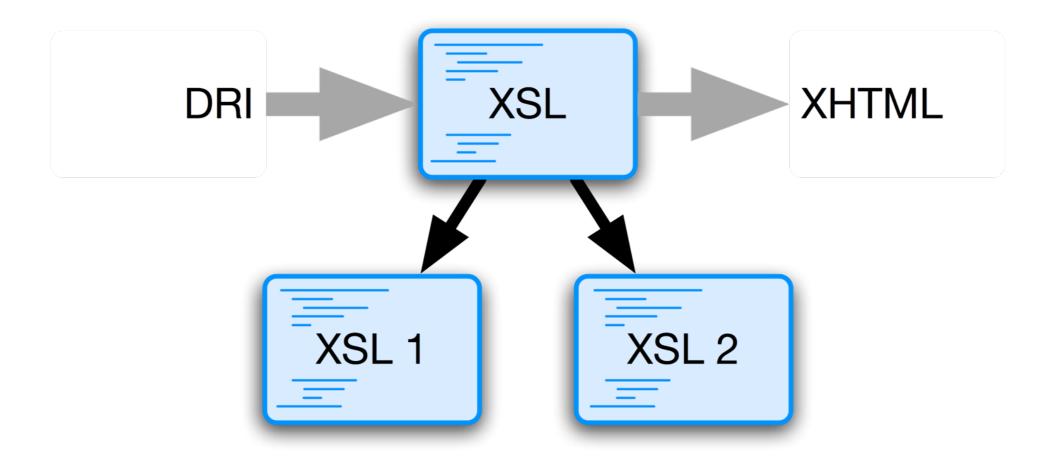
- Use existing XSL library
- Override individual templates



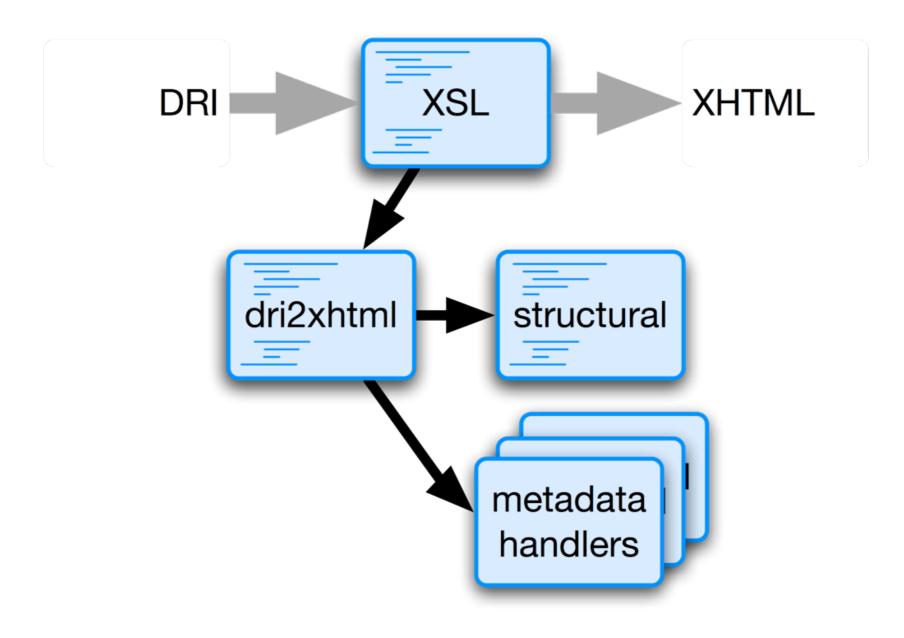
# What is XSL?



# XSL in Manakin



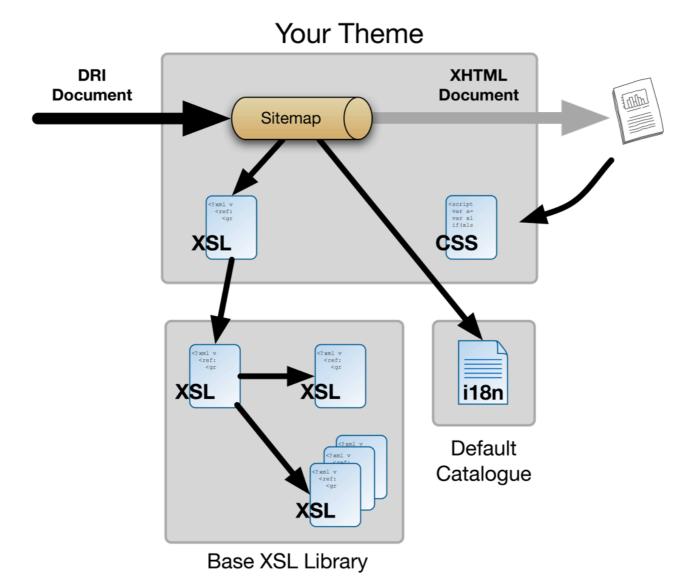
# XSL in Manakin



# XSL in Manakin

### The specifics of theme XSL imports

- ► The theme template also comes with a token XSL file that is by default not used in the sitemap
- ▶ To make your own XSL changes
  - Modify the sitemap to include the theme's XSL
  - Copy the template you want to override from structural.xsl to your theme's XSL
  - Any changes made in the theme's XSL will override the template from structural



# Complete picture

### So far...

- Partially overridden
  XSL used
- Theme created and installed
- CSS styles applied



# Advanced Topics

# Some of the advanced topics

- Metadata handlers
- ► Non-HTML output formats
- Internationalization
- Static page insertion
- ▶ Non-XSL transformations