



Manakin Workshop

Manakin Workshop
DSpace User Group, February 2006

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<http://di.tamu.edu/>

[Outline]

- Part I – Concepts
 - Cocoon fundamentals
 - Manakin's Sitemaps
 - Digital Repository Interface (DRI)

- Part II – How to make a Theme
 - Creating a new sitemap.xmap
 - Installing the theme
 - Theme tools



[Cocoon Fundamentals]

- Web development framework
 - SAX-based pipelines
- Components
- Pipelines
- Sitemap

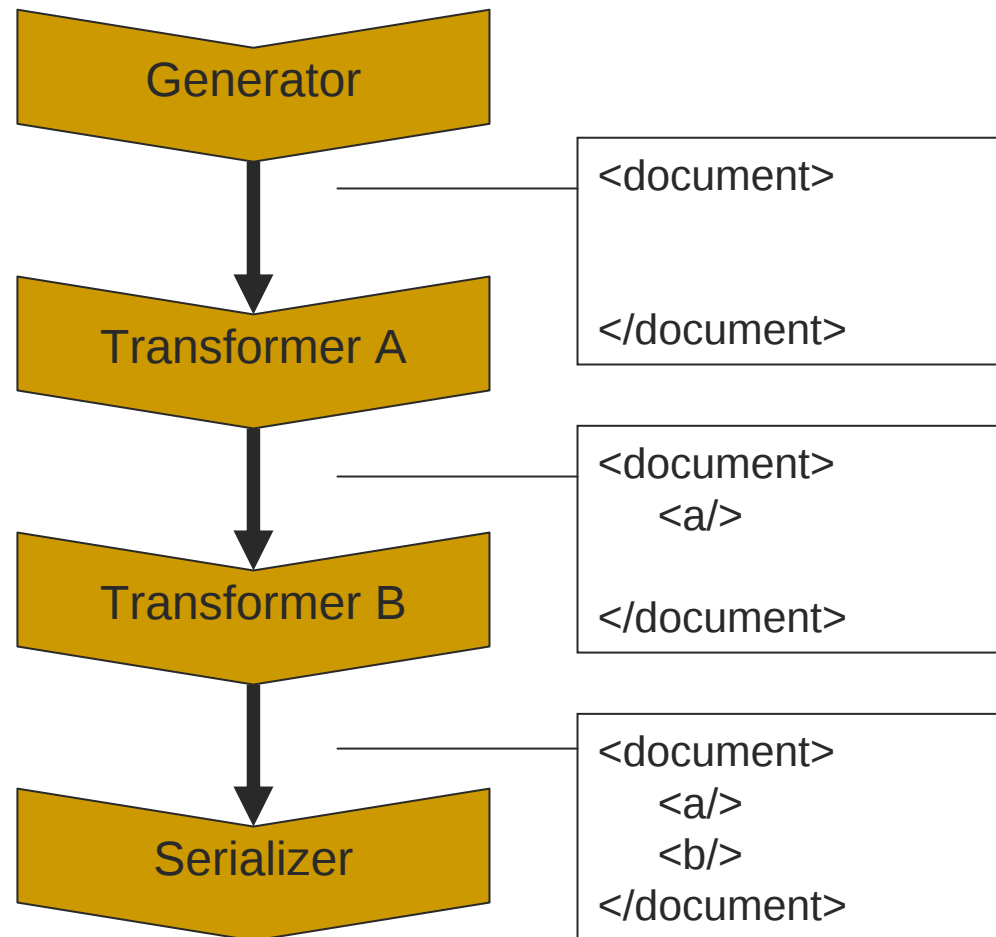


[Cocoon Components]

- Generators
- Transformers
- Serializers
- Matchers & Selectors
- Others...

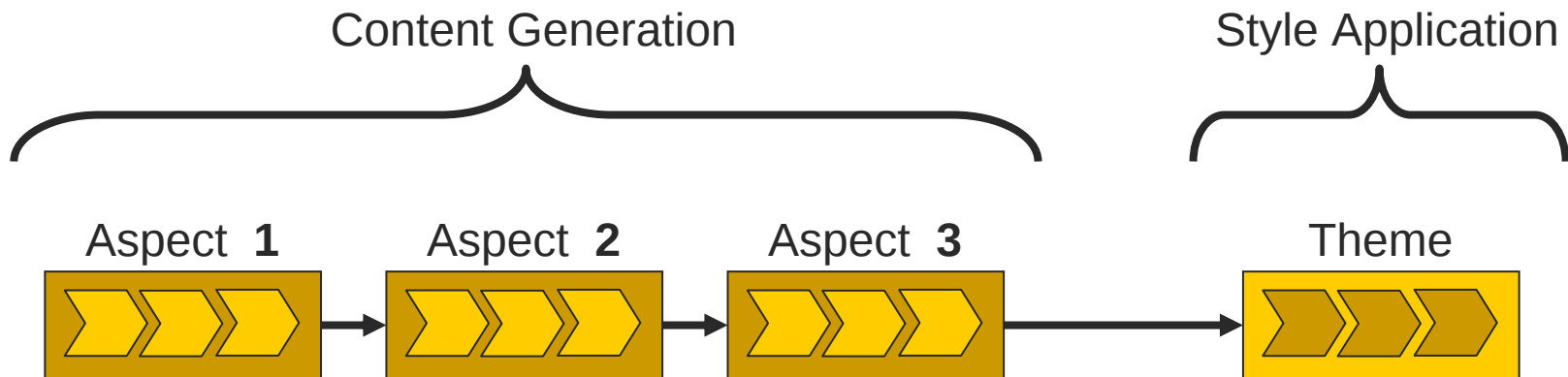


Cocoon's Pipeline Model



[Manakin]

Manakin uses a pipeline architecture composed of two parts:

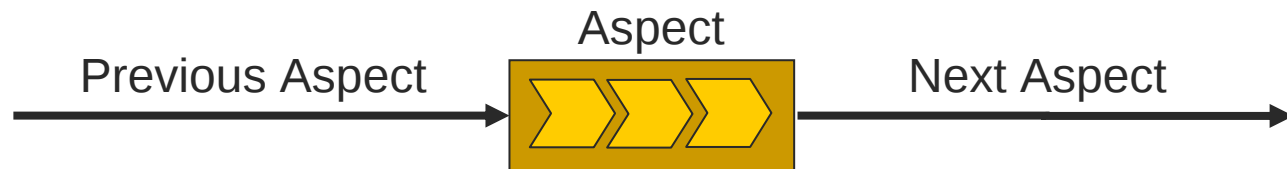


(example Aspect chain)



[Aspects]

- **Aspects implement a set of related features**
- Generate content, perform operations
- No Style
- “Chained Together” to form all the features



[Aspects]

- Four “core” Aspects for DSpace:

- **ArtifactBrowser**

- Browsing communities, collections, items, and bitstreams

- **E-Person**

- Authenticating users, editing profiles, change passwords

- **Submission**

- Ingesting new items into the repository through a workflow

- **Administrative**

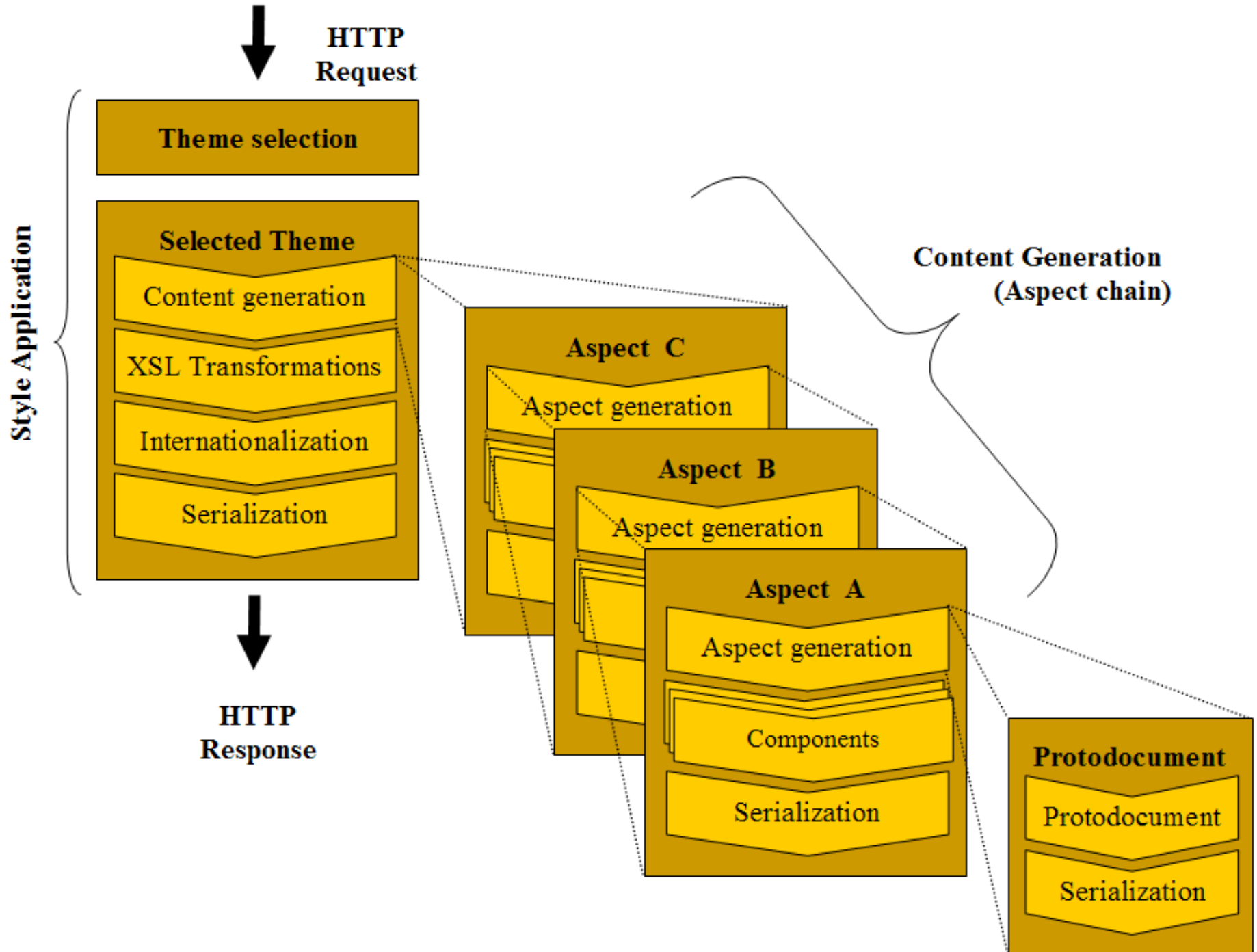
- Administering the repository, creating & modifying objects



[Themes]

- Stylize content into a particular look-and-feel
- May apply to a particular:
 - A Single page
 - All pages in a Collection
 - All pages in a Community
- For XHTML based themes:
 - A standard XSL is provided
 - Range in complexity





[Digital Repository Interface]

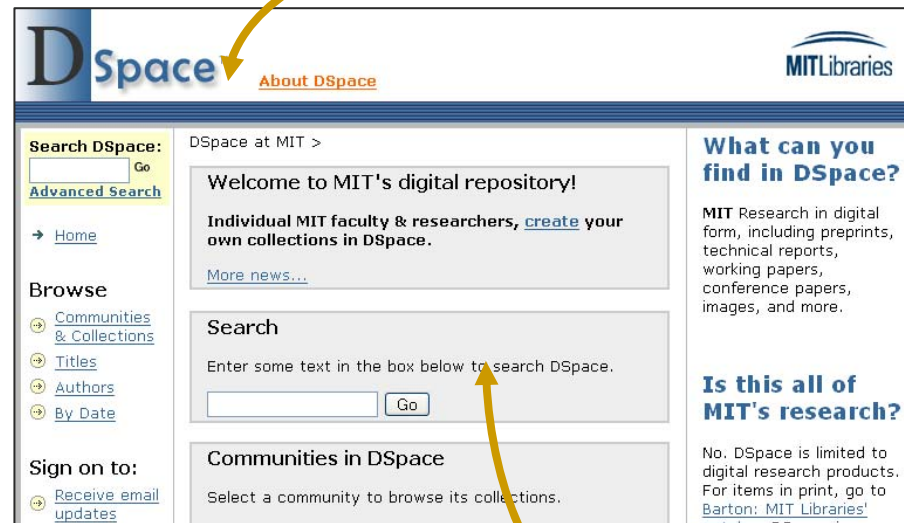
- Abstract representation of a DSpace page
- Metadata elements
 - METS, MODS, DIM
 - Extendable to other metadata formats
- Structural elements
 - TEI (light)



[Dissecting a DSpace page]

- Examining a normal DSpace page:

Meta information about the page



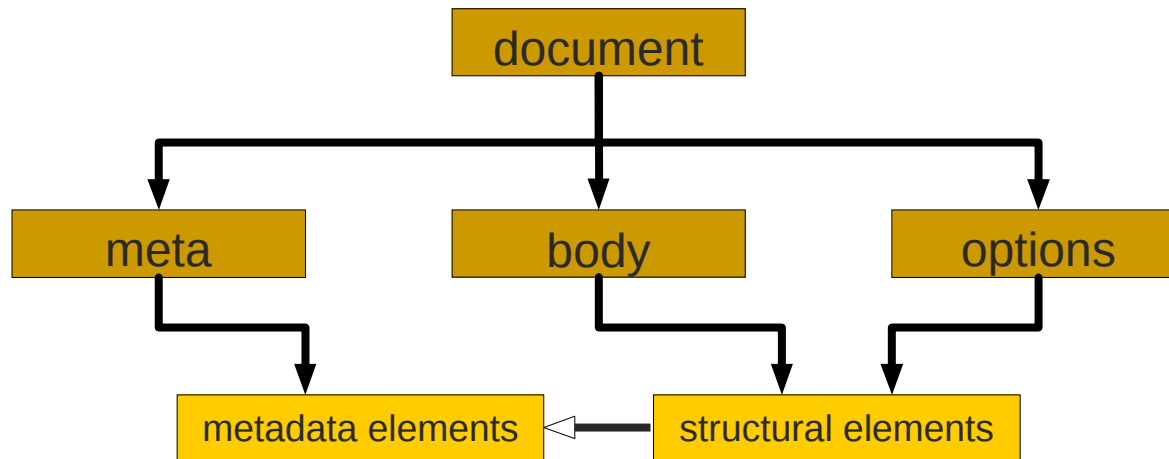
Available navigational options

The main body



Digital Repository Interface

- Digital Repository Interface (DRI)



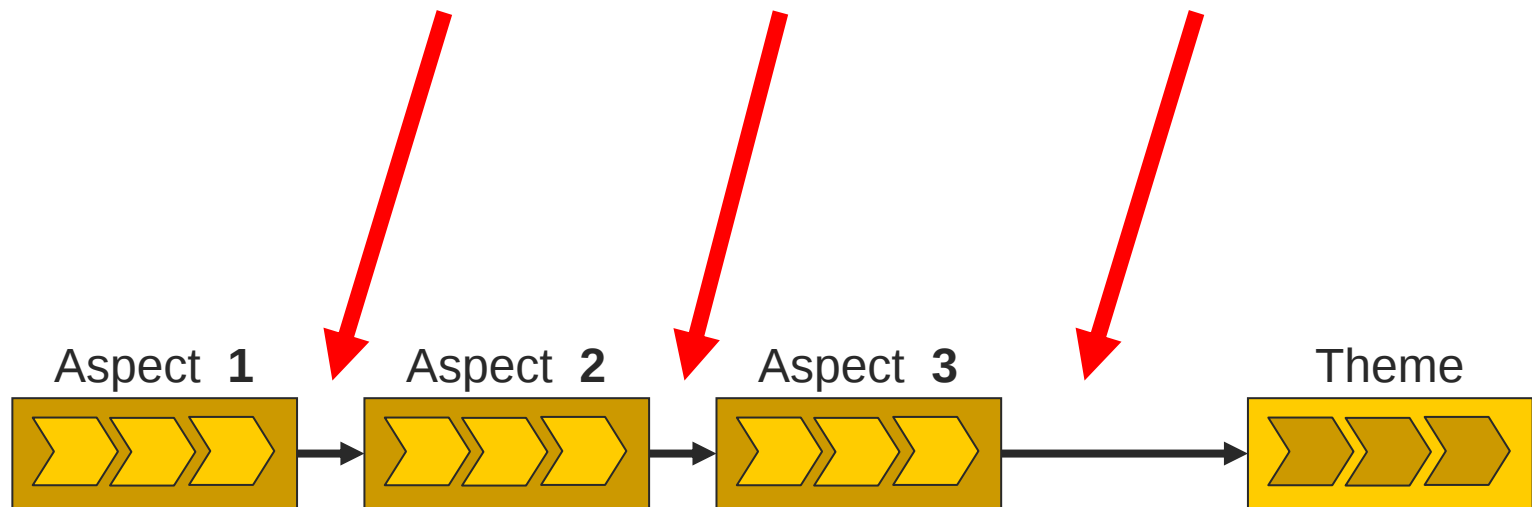
Native metadata formats:
METS, MODS, & DIM

Based primarily upon TEI



[Digital Repository Interface]

- Where is DRI used?



[Part II: How to make a Theme]



[Making a theme]

- Create a new sitemap
 - Create a new sitemap.xmap
 - Add (X)HTML Transformations
 - Add Internationalization
 - Add Style (CSS & Images)
- Installing the theme
 - Create the directory
 - Install the theme
- Theme tools



[Create a new sitemap]

```
<map:sitemap xmlns:map="http://apache.org/cocoon/sitemap/1.0">  
  <map:pipelines>  
    <map:pipeline>
```

```
      </map:pipeline>  
    </map:pipelines>  
  </map:sitemap>
```



[Add (X)HTML Transformations]

```
<map:sitemap xmlns:map="http://apache.org/cocoon/sitemap/1.0">  
  <map:pipelines>  
    <map:pipeline>
```

```
      <map:match pattern="**">  
        <map:generate type="file" src="cocoon://DRI/{1}"/>  
        <map:transform src="../../dri2xhtml.xsl"/>  
  
        <map:serialize type="xml"/>  
      </map:match>
```

```
    </map:pipeline>  
  </map:pipelines>  
</map:sitemap>
```



Add Internationalization

```
<map:sitemap xmlns:map="http://apache.org/cocoon/sitemap/1.0">  
  <map:pipelines>  
    <map:pipeline>
```

```
      <map:match pattern="**">  
        <map:generate type="file" src="cocoon://DRI/{1}"/>  
        <map:transform src="../../dri2xhtml.xsl"/>  
        <map:call resource="i18n-transformer"/>  
        <map:serialize type="xml"/>  
      </map:match>
```

```
    </map:pipeline>  
  </map:pipelines>  
</map:sitemap>
```



[Add Stlye (CSS & Images)]

```
<map:sitemap xmlns:map="http://apache.org/cocoon/sitemap/1.0">
  <map:pipelines>
    <map:pipeline>

      <map:match pattern="themes/*/**">
        <map:read src="{2}"/>
      </map:match>

      <map:match pattern="**">
        <map:generate type="file" src="cocoon://DRI/{1}"/>
        <map:transform src="../../dri2xhtml.xsl"/>
        <map:call resource="i18n-transformer"/>
        <map:serialize type="xml"/>
      </map:match>

    </map:pipeline>
  </map:pipelines>
</map:sitemap>
```



[Installing the new theme]

- Create a new theme directory
 - `[source] /xmlui/cocoon/themes/ <theme name>`
- Inside the directory put:
 - sitemap.xmap
 - CSS stylesheet(s)
 - Images
 - Any static resources



[Install the new theme]

- Themes may be applied to:
 - A regular expression
 - A DSpace handle (Inheritable)
- Add a <theme> element to “xmlui.xml” configuration
 - Some examples:

```
<theme name="My Theme" handle="2249/1" path="Reference/" />
```

```
<theme name="My Theme" regex=".*" path="Reference/" />
```



[Theme Tools]

- Browse specific CSS stylesheets
 - Deliver different style sheets based upon the browser
 - Works well
- Client side XSL transformations
 - Deliver the DRI document to the browser
 - Only works in some cases
 - No use of XSL includes or imports



[Example Theme]

- Digital Initiatives Labs
 - <http://labs.di.tamu.edu:8080/>

or

- [Embedded screenshots](#)

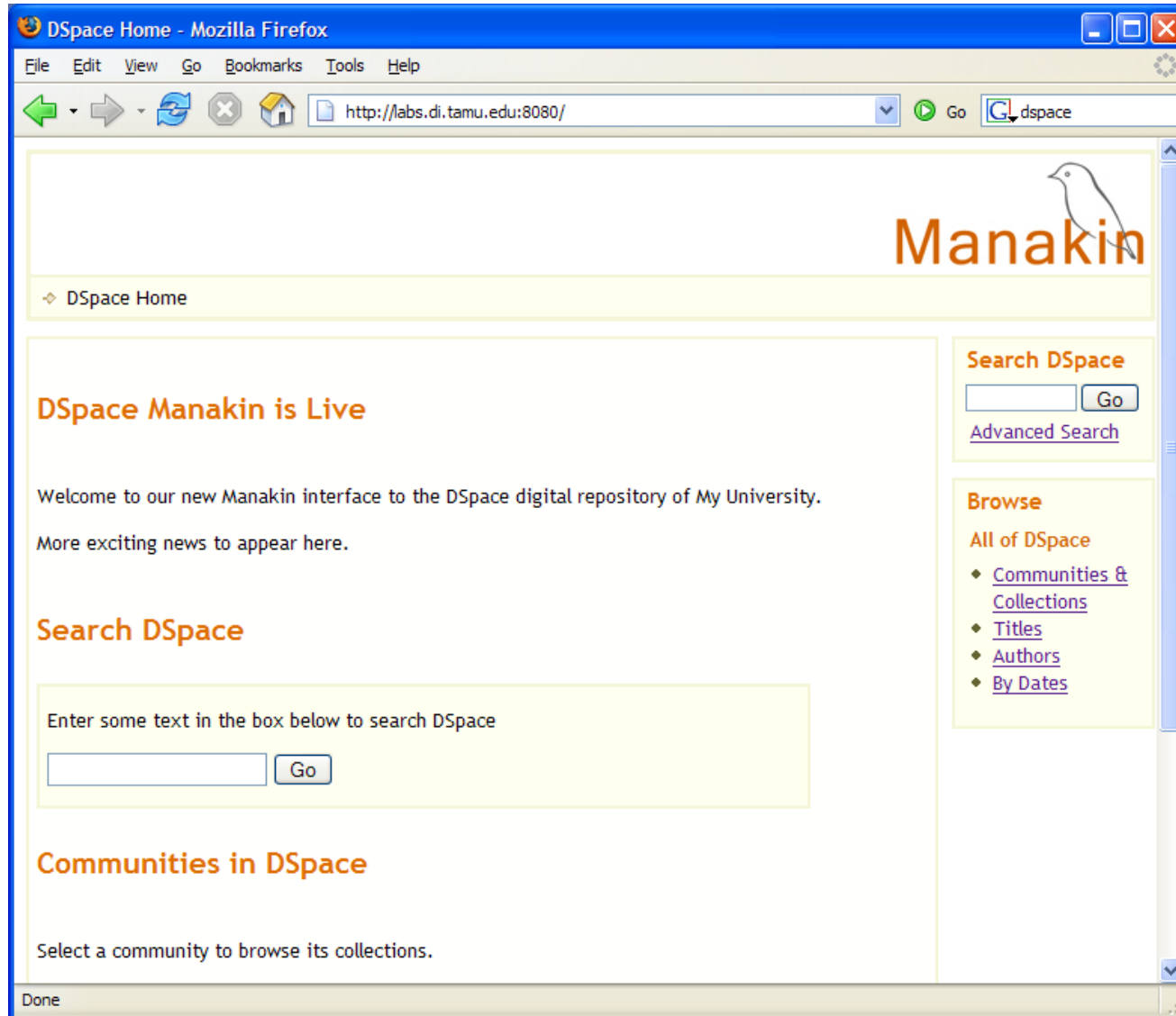


[Questions

]



Manakin Homepage



(back)

Browse By Title

Browse By Title - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://labs.di.tamu.edu:8080/browse-title Go dspace

 **Manakin**

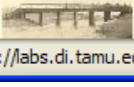
[DSpace Home](#) ♦ [Browse By Title](#)

Browse By Title

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Or enter the first few letters:

Now showing items 1-11 of 206 [Next Page](#)

Date/Preview	Title	Author
 2006-01-23	"Adobe house" Marfa, Tex."	Wheelan, John D.
 2006-01-23	Advancing line of skirmishes.	Wheelan, John D.
		

[http://labs.di.tamu.edu:8080/handle/123456789/217](#)

Search DSpace

[Advanced Search](#)

Browse

[All of DSpace](#)

- ♦ [Communities & Collections](#)
- ♦ [Titles](#)
- ♦ [Authors](#)
- ♦ [By Dates](#)

Item View

Advancing line of skirmishes. - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://labs.di.tamu.edu:8080/handle/123456789/217 Go dspace

Advancing line of skirmishes.

[Show full item record](#)

Preview: 

Title: Advancing line of skirmishes.

Author: Wheelan, John D.

Abstract: Mexican Revolution

Description: This collection is archived in the Cushing Memorial Library and Archives, Texas A&M University, College Station, TX. The captions and/or descriptive information are transcribed from the images. Cushing Library has not validated its accuracy.

URI: <http://hdl.handle.net/123456789/217>

Date: 2006-01-23

Files in this item

File	Size	Format	View
288.jpg	67.42 Kb	image/jpeg	

Advanced Search

Browse

All of DSpace

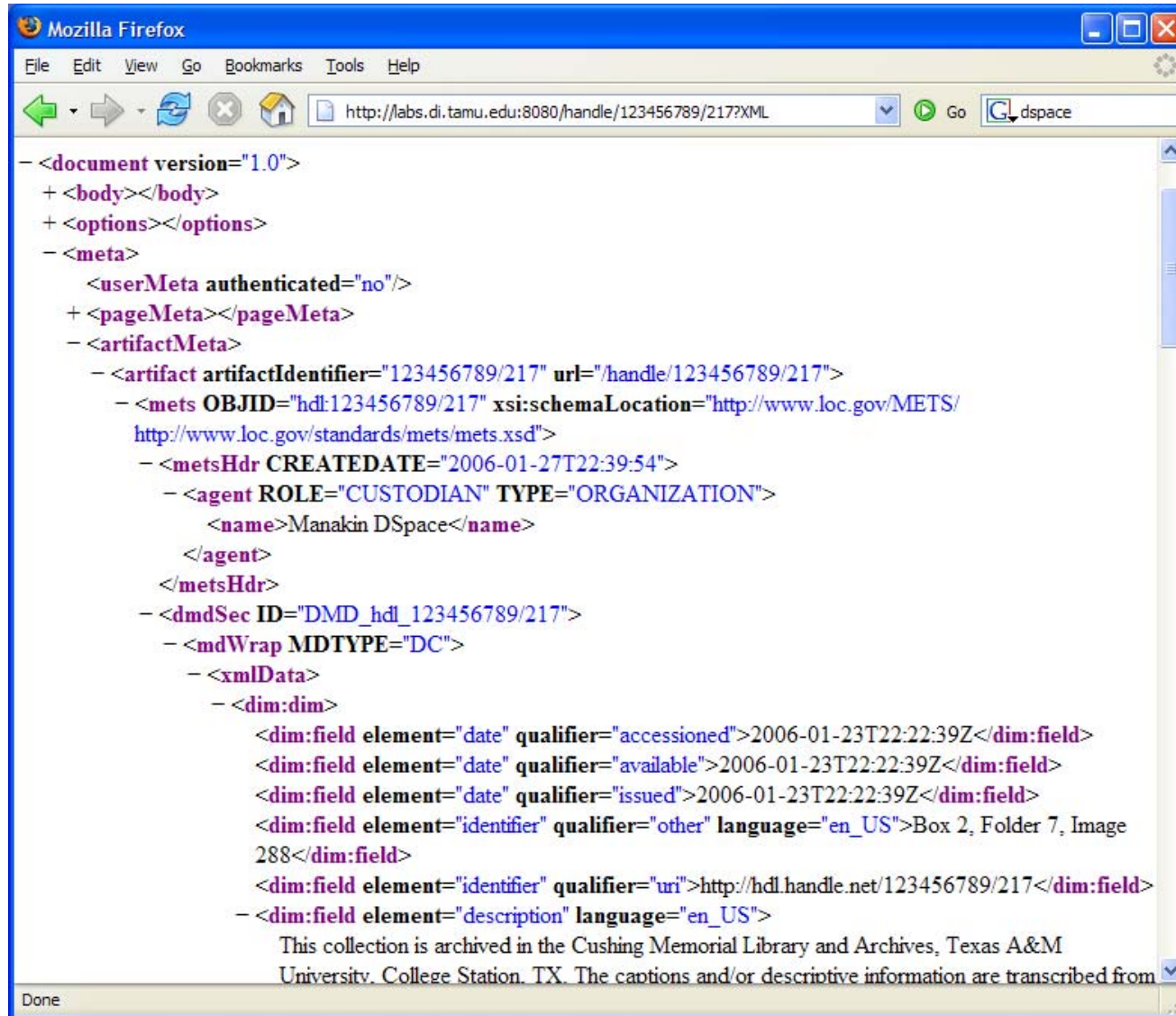
- Communities & Collections
- Titles
- Authors
- By Dates

This Collection

- Titles
- Authors
- By Dates

Done

DRI Document (Item View)



(back)