



DSpace XML UI:

**Manakin**

## Defacing DSpace with Manakin

DSpace User Group, February 2006

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Texas A&M University

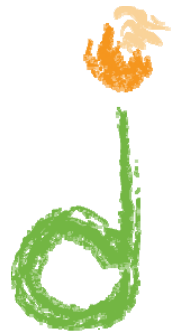
<http://di.tamu.edu/>

# [Outline

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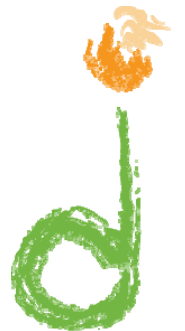


- Introduction to the XML UI project
- Moa & Manakin
- Manakin's structure
- Aspects & Themes
- Project status & Future work



# [ 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

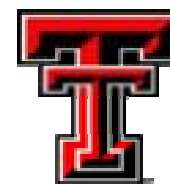


# [ Why? ]

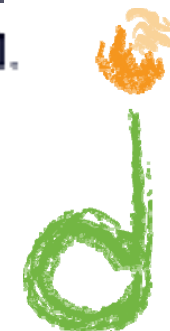
- The XML UI provides:
  - Branding
    - University level
    - Community level
    - Collection level
  - Institutional / Community credibility
  - Community ownership & buy in



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/>

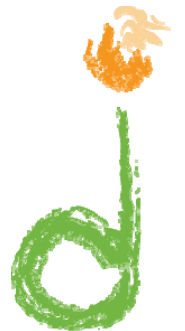
## Moa Screen shots:



# [ What we learned from Moa ]

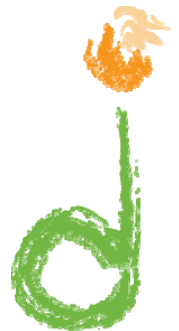
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- Changing the look-and-feel for individual communities is useful.
- XSL based Themes work.
- DSpace needs an interface modularity system.
- Themes should use metadata in native formats.



# [ What does Manakin add? ]

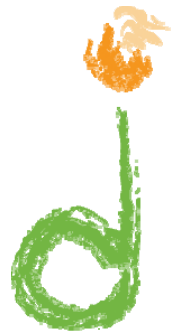
- Manakin is the next version of the XML UI project
  - Based upon the Apache Cocoon framework
  - Designed using Separation of Concerns
  - Uses a SAX based pipeline
  - Current source code available via CVS at:
    - <http://di.tamu.edu/projects/xmlui/manakin/>
- These technologies enable
  - N-stage pipeline architecture
  - UI Modularity
  - Parallel Development



# [ Manakin vs JSP UI ]

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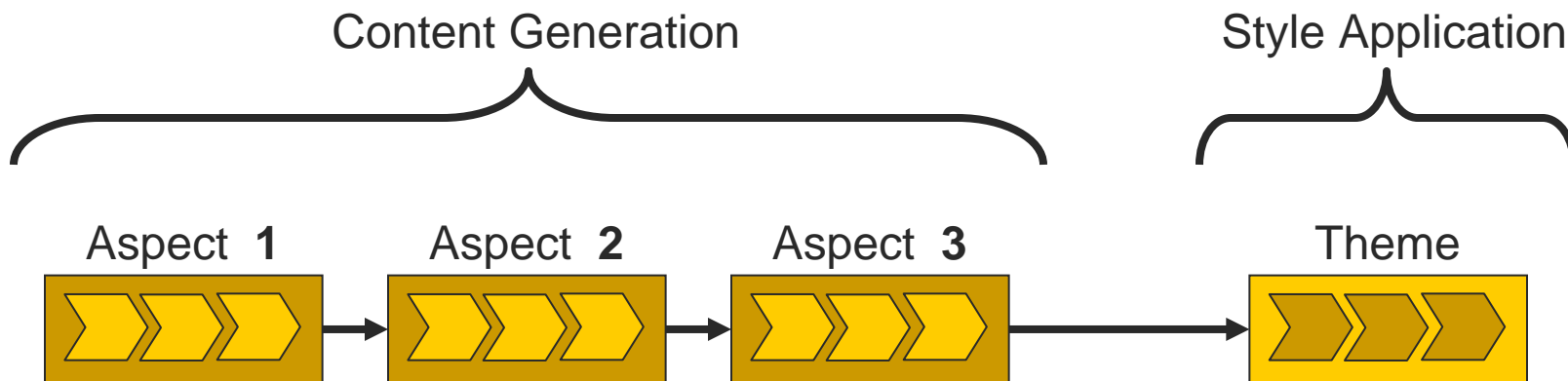
- Current JSP based interface
  - No presentation layer
  - Difficult to extend ( and maintain! )
  - Heavy use of HTML table layout
- Manakin
  - Separate presentation layer
  - Ability to extend
  - Themes per communities / collections
  - Metadata in native formats





# [ Manakin Structural Overview ]

Manakin uses a pipeline architecture composed of two parts:

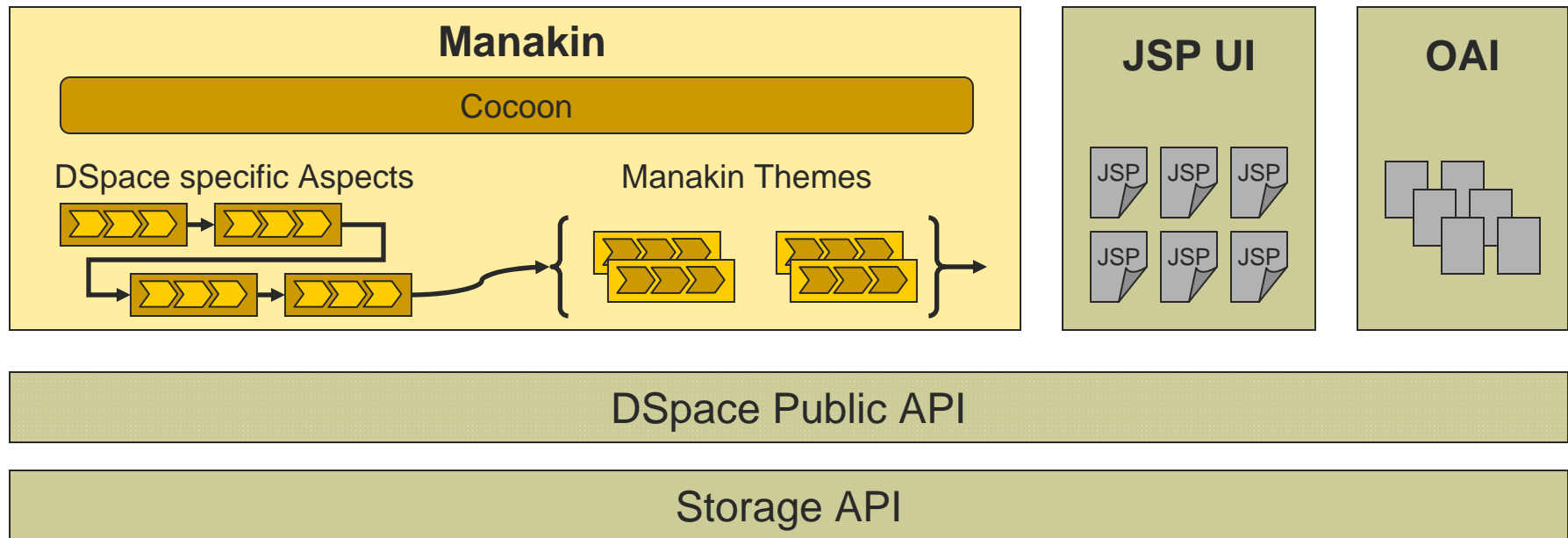


( example Aspect chain )



# [ Manakin & DSpace ]

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



# [ Project Status ]

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- 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 ]

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- 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 ]

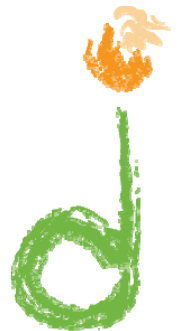
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- Texas Digital Library

- <http://www.tdl.org/>

or

- [Embedded Screen shots](#)



# [ Questions? ]

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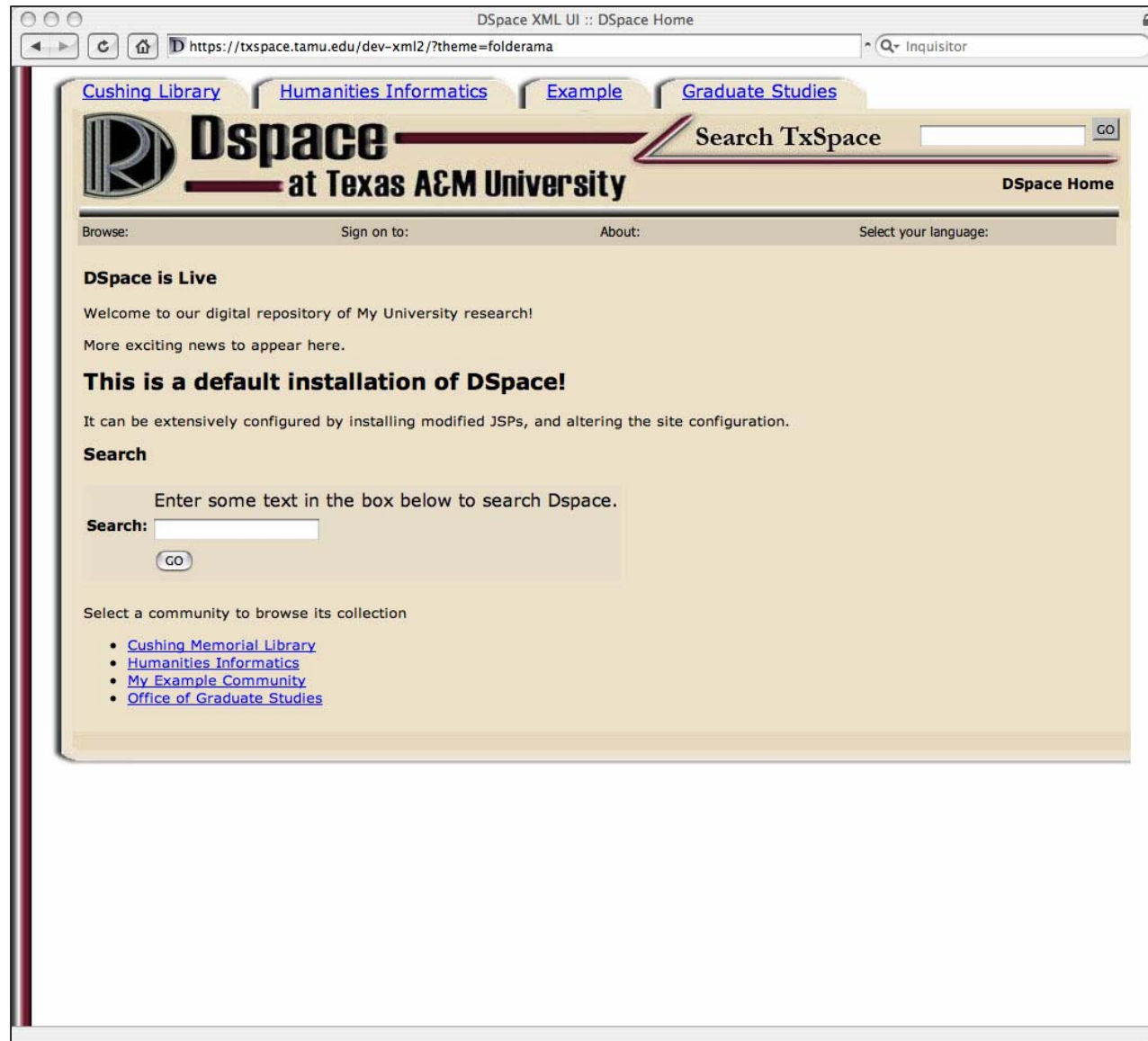
- More information may be found at:
  - <http://di.tamu.edu/projects/xmlui/manakin/>
  - News and updates
  - Manakin Developers Guide
  - CVS Access



Red-capped Manakin

[\( Video \)](#)

# Folder Theme



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# Sapphire Theme

DSpace XML UI ::  
https://txspace.tamu.edu/dev-xml/ Inquisitor

**Sign on to:**  
Receive email updates  
My Dspace  
Edit Profile

**About:**  
Computer Science  
About DSpace  
DSpace Help  
Texas A&M

**Browse:**  
Communities  
Titles  
Authors  
By Dates

**Search DSpace:**  
 GO

**My DSpace:**  
Login to DSpace

**Welcome To TxSpace!**  
Welcome to the new institutional repository at Texas A&M University!  
The Texas A&M University Digital Library is proud to present some of Texas A&M's top collections, thesis, dissertations, and journals to you in a convenient and friendly interface. Feel free to browse our collections and see what the TAMU Digital Library can do for you.

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

**Select a community to browse its collection**

- Cushing Memorial Library (amber)
- Energy Systems Laboratory
- Health Science Center (amethyst)
- Office of Graduate Studies (emerald)
- Texas A&M University Libraries (chrysolite)
- The Donne Variorum (ruby)
- ISchool

*XML BASED UI PROJECT*  
*Theme: "Sapphire" by V. Koster*

Texas A&M University

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# Introduction Theme

DSpace XML UI :: DSpace Home

https://txspace.tamu.edu/dev-xml2/ Inquisitor

**DSpace Home**  
Texas A&M University Libraries -- DSpace XML based UI Project

[DSpace Home](#)

**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](#)

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.

**Browse:**

- [Communities](#)
- [Titles](#)
- [Authors](#)
- [By Dates](#)

**Search DSpace:**

**Sign on to:**

- [Receive email updates](#)
- [My Dspace](#)
- [Edit Profile](#)

**My DSpace:**

- [Login to DSpace](#)

**Select your language:**

- [Deutsch](#)
- [Nederlands](#)
- [Italiano](#)
- [Español](#)
- [Portuguese](#)
- [English](#)
- [Français](#)

**About:**

- [DSpace Help](#)
- [About DSpace](#)
- [Computer Science](#)
- [Texas A&M](#)

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# Amber Theme

The screenshot displays a web browser window with the URL <https://txspace.tamu.edu/dev-xml/handle/123456789/2>. The page features a dark brown background with a large, stylized 'Dspace' logo in the center. On the left side, there is a vertical navigation menu with the following sections:

- Sign on to:**
  - Receive email updates
  - My Dspace
  - Edit Profile
- About:**
  - Computer Science
  - About DSpace
  - DSpace Help
  - Texas A&M
- Browse:**
  - Communities
  - Titles
  - Authors
  - By Dates

A diagonal banner on the left reads "XML BASED UI PROJECT" with "Theme: 'Amber' by V. Reese" written below it. At the bottom left, the Texas A&M University logo is visible.

On the right side, there are several utility sections:

- Search DSpace:** A search input field with a "GO" button.
- My DSpace:** A "Login to DSpace" link.
- Current Options:** Three links: "Browse by Titles", "Browse by Authors", and "Browse by Dates".

The main content area is titled "search" and includes a search form with a dropdown menu set to "The John D. Wheelan Collection" and a "GO" button. Below the search form, the page displays the title "Cushing Memorial Library (amber)" and a photograph of a large, classical-style building with a prominent tree in front. Underneath the photo is a detailed paragraph of text describing the library's collections, followed by the website URL <http://library.tamu.edu/cushing> and the heading "Collections within the Community". At the very bottom, it identifies the collection as "The John D. Wheelan Collection".

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# Texas Digital Library

The screenshot shows a Mozilla Firefox browser window displaying the Texas Digital Library website. The browser's address bar shows the URL <http://www.tdl.org/>. The website header features the Texas Digital Library logo on the left and navigation links for [CONTACT US](#) and [SITE MAP](#) on the right. Below the header is a dark blue navigation bar with links for [ABOUT](#), [PROJECTS](#), [SERVICES](#), [NEWS](#), and [CONTACT US](#). The main content area is split into two columns. The left column has a large background image of a book and contains the text "Welcome to the Texas Digital Library". The right column contains a quote: "TDL will be the platform for continuing leadership in evolving scholarly communication systems, providing an innovative organizational model that effectively leverages advanced technology." Below this is a "Spotlight On:" section with four items: [Metadata Working Group](#), [Journal of Digital Information \(JoDI\)](#), [Participating Institutions](#), and [TDL Repository](#). A "TDL News:" section on the right mentions "TDL launches new website...". The browser's status bar at the bottom shows "Done".

# DSpace Homepage

The screenshot shows the DSpace homepage in a Mozilla Firefox browser window. The browser's address bar displays the URL `http://repositories.tdl.org/`. The page features the Texas Digital Library logo and navigation links for 'CONTACT US' and 'SITE MAP'. A dark blue navigation bar contains links for 'ABOUT', 'PROJECTS', 'SERVICES', 'NEWS', and 'CONTACT US', along with a search bar labeled 'Search repository...' and a 'Go' button. The main content area includes a 'Welcome to the Texas Digital Library Repository' section with a descriptive paragraph, a 'Search the repository' section with a search input field and 'Go' button, and a 'Communities in the repository' section with a list of communities including 'Theses and Dissertations'. A 'Browse' sidebar on the right lists 'The Repository' with sub-links for 'Communities & Collections', 'Titles', 'Contributors', and 'Dates'. The browser's status bar at the bottom shows 'Done'.

Repository - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

`http://repositories.tdl.org/` Go dspace

**T E X A S**  
DIGITAL LIBRARY

CONTACT US | SITE MAP

Home > Repository

ABOUT PROJECTS SERVICES NEWS CONTACT US

Search repository... Go

Advanced Search

## 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

#### The Repository

- [Communities & Collections](#)
- [Titles](#)
- [Contributors](#)
- [Dates](#)

Home > Repository

Done

# Browse By Title

The screenshot shows a Mozilla Firefox browser window displaying the 'Browse By Title' page of the Texas A&M Digital Library. The browser's address bar shows the URL <http://repositories.tdl.org/handle/2249.1/2/browse-title>. The page header includes the Texas A&M Digital Library logo and navigation links for 'CONTACT US' and 'SITE MAP'. A breadcrumb trail reads: Home > Repository > Theses and Dissertations > Texas A&M University at College Station > Browse By Title. A navigation menu contains links for ABOUT, PROJECTS, SERVICES, NEWS, and CONTACT US. A search bar is labeled 'Search repository...' with a 'Go' button and a link to 'Advanced Search'. The main heading is 'Browse By Title', followed by an alphabetical index (A-Z) and a text input field for searching by the first few letters. A status bar indicates 'Now showing items 1-11 of 1775' with a 'Next Page' link. Three items are listed, each with a Texas A&M logo, title, author, date, and links for 'Full Text' and 'Citation':

- 16th Century Cast-Bronze Ordnance at the Museu de Angra do Heroismo** by Hoskins, Sara Grace, MA, Texas A&M University, December 2003
- A 1Gsample/s 6-bit flash A/D converter with a combined chopping and averaging technique for reduced distortion in 0.18(mu)m CMOS** by Stefanou, Nikolaos, 1978-, M. S., Texas A&M University, May 2005
- 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

A sidebar on the right titled 'Browse' contains two sections: 'The Repository' and 'This Collection', each with links for 'Communities & Collections', 'Titles', 'Contributors', and 'Dates'. The browser's status bar at the bottom shows 'Done'.

# Item View

The screenshot shows a Mozilla Firefox browser window with the title 'Collection understanding - Mozilla Firefox'. The address bar contains the URL 'http://repositories.tdl.org/handle/1969.1/69'. The page content is organized into several sections:

- Item metadata:** A table-like structure with the following information:
  - Preview:
  - Title: Collection understanding
  - Author: Chang, Michelle T.
  - Abstract: 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:** A text box containing: Chang, (2004). *Collection understanding*. Master's thesis, Texas A&M University. Available electronically from <http://handle.tamu.edu/1969.1/69>.
- Files in this item:** A table with the following data:

File	Size	Format	View
<a href="#">etd-tamu-2004A-CPSC-Chang-1.pdf</a>	2.665 Mb	application/pdf	<a href="#">View/Open</a>
- This items appears in the following Collection(s):**

The right sidebar contains a navigation menu with links for 'Collections', 'Titles', 'Contributors', and 'Dates', and a section titled 'This Collection' with similar links. The status bar at the bottom left shows 'Done'.

# Collection Homepage

Texas A&M University at College Station - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://repositories.tdl.org/handle/2249.1/2

Go dspace

**TEXAS**  
DIGITAL LIBRARY

CONTACT US | SITE MAP

Home > Repository > Theses and Dissertations > Texas A&M University at College Station

ABOUT PROJECTS SERVICES NEWS CONTACT US

Search repository... Go

Advanced Search

## Texas A&M University at College Station

**Words in text:**


**Author:**

**Committee Chair:**

**Degree Level:** All

**Year:** All, 2005, 2004, 2003

Go



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.

*The works in this collection are licensed under the Creative Commons Attribution-NonCommercial-NoDerivs License. To view a copy of this license, visit <http://creativecommons.org/licenses/by-nc-nd/2.0/> or send a letter to Creative Commons, 559 Nathan Abbott Way, Stanford, California 94305, USA.*

**Browse**

**The Repository**

- [Communities & Collections](#)
- [Titles](#)
- [Contributors](#)
- [Dates](#)

**This Collection**

- [Titles](#)
- [Contributors](#)
- [Dates](#)

Done

[\( back \)](#)