Introduction to DSpace

OCTOBER 27, 2011 UNIVERSITY OF TEXAS - AUSTIN

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About the presenters

Mira Greene

- Involve with UTMB institutional repository since 2009
- TDL member since 2007
- Co-chair, TDL User Services Group

Sarah Sutton

- Manager of A&M-Corpus Christi repository since inception (Fall 2009)
- TDL member since 2007
- Co-chair, TDL User Services Group

Morning Schedule 9 – 11:30

- Introduction to DSpace and the TDL
- Creating Communities, Collections
- Submitting Items
- Creating Users and Groups

Afternoon 1:00- 4:00

- Workflows
- Adding and editing Metadata
- Editing/Deleting Items
- User permissions
- Q & A

- 2005—TDL formed by four Texas members of the Association of Research Libraries
 - UT Austin
 - o Texas A&M
 - Texas Tech
 - University of Houston
- Now includes 15 member institutions

- Angelo State University
- Baylor University
- Texas A&M University
- Texas A&M International University
- Texas A&M University-Corpus Christi
- Texas A&M University at Galveston
- Texas A&M University-Kingsville
- Texas A&M University at Qatar
- Texas State University
- Texas Tech University
- <u>University of Houston</u>
- The University of Texas at Austin
- The University of Texas at Brownsville and Texas Southmost College
- The University of Texas Southwestern Medical Center at Dallas
- The University of Texas Medical Branch at Galveston

- The Texas Digital Library (TDL) is a consortium of higher education institutions in Texas that provides shared services in support of research and teaching.
- The mission of the TDL is to draw from the combined resources of its members to provide cost-effective, collaborative solutions to the challenges of digital storage, publication, and preservation of research, scholarship, and teaching materials.

Institutional Services

- Repositories
- ETD Submission and Mgmt System (Vireo)
- Preservation Network

Faculty Services

- <u>Directory</u>
- Blogs/ Sites
- Wikis
- Journals
- Conference system

Introduction to DSpace

What is DSpace?

 An open source software package that provides the tools for management of digital assets.

http://www.dspace.org

- × CAPTURES
- × DESCRIBES
- **DISTRIBUTES**
- × PRESERVES

Coming soon: DSpace ver. 1.7.2

Examples

- http://repositories.lib.utexas.edu/
- http://repository.tamu.edu/
- http://repositories.tdl.org/utb
- http://repositories.tdl.org/tamucc/
- http://repositories.tdl.org/utmb/
- http://repository.tamu.edu/
- http://wtda.alc.org/
- Notice breadcrumbs and right-hand menu

CAPTURES...

- Digital material in any format
- If desired, directly from creators (faculty, etc.)

DESCRIBES...

Metadata

- Descriptive
- Technical
- o Rights

DISTRIBUTES...

- Via WWW, with necessary access control
 - http://repository.tamu.edu/
 - Persistent identifiers "handles"

Handles

- Persistent Identifier—globally unique—attached to objects
 - Communities
 - Collections
 - o Items

PRESERVES...

• Bitstream guaranteed

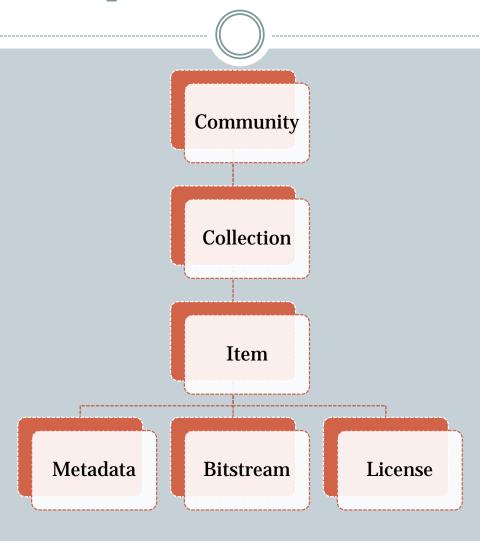
Who is using DSpace?

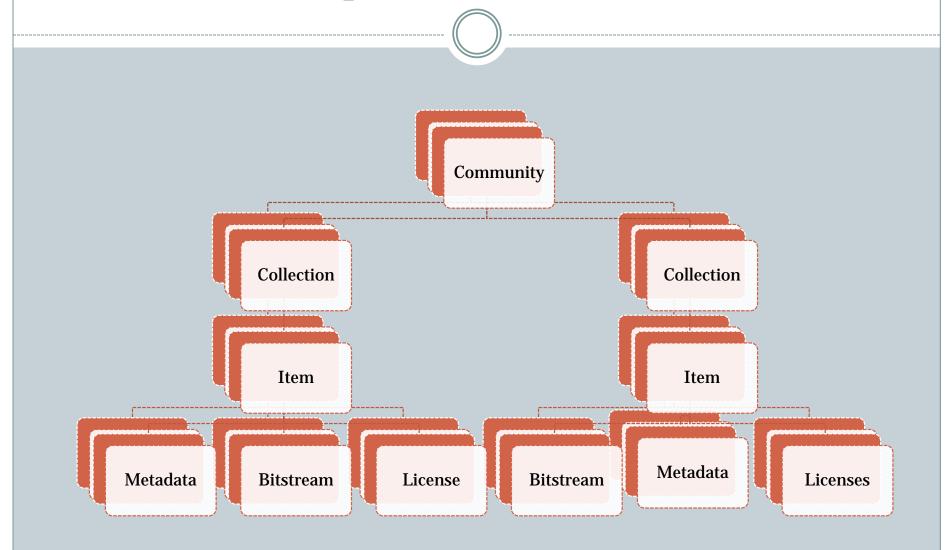
- Over 400 registered institutions worldwide
 - List of United States users available online
- More than 1 million digital assets; largest sites contain several hundred thousand items
- Primarily research/higher education institutions
- Cultural heritage organizations, state libraries/archives
- Some commercial users and service providers
- Active development community

DSpace—Then and Now

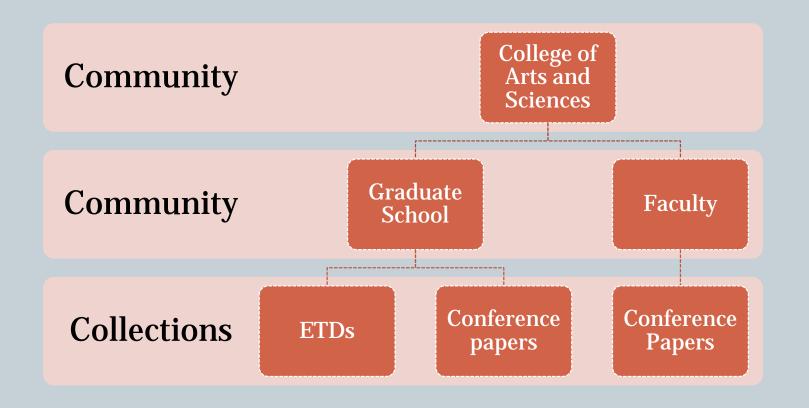
- 2002—came out of a partnership between developers at Hewlett-Packard and MIT
- 2007—DSpace Foundation (non-profit organization) formed
- 2009—Announcement of <u>DuraSpace</u>
 - A merger of Fedora Commons and DSpace Foundation
 - The two flagship repository platforms will be sustained
 - Will offer new technologies and services responding to the dynamic environment of the Web and to new requirements from existing and future users

- Communities
 - Can contain sub-communities OR collections
- Collections
 - Can contain items
- Items
 - Contains metadata and bitstreams (files)









Steps to creating communities:

- 1. Log in
- 2. Click Communities & Collections (under Browse)
- 3. Click on Create Community (under Context)
- 4. Give the community a name and add a short description and introductory text (optional)
- 5. Upload a logo file (optional)
- 6. Click Create to finish

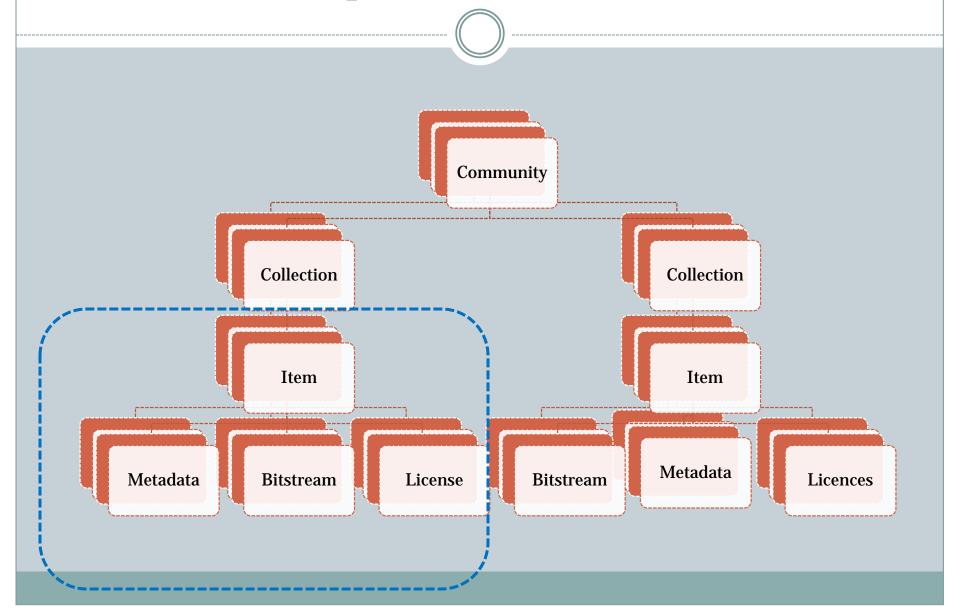
Steps to creating collections:

- 1. Log in
- 2. Click Communities & Collections (under Browse)
- 3. Choose the community in which you wish to create a collection
- 4. Click on Create Collection (under Context)
- Give the collection a name and add a short description and introductory text (optional)
- 6. Upload a logo file (optional)
- 7. Click Create to finish

To create a sub-community, navigate to the community in which the sub-community will exist and then follow the same steps for creating a community.



Create and Submit an Item



Item

Metadata

Bitstream

License

Create and Submit an Item

Steps to submitting an item:

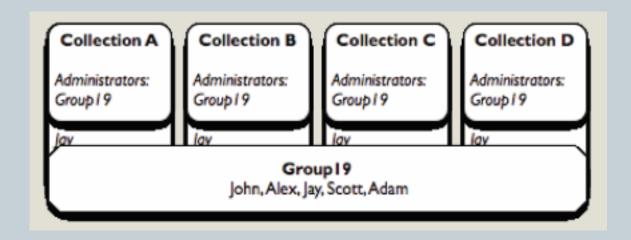
- 1. Log in
- 2. Choose the community/collection you wish to submit to
- 3. Select "Submit a new item"
- 4. Describe the item (metadata)
- 5. Browse for and upload the file (bistream(s))
- 6. Make corrections if necessary
- 7. Grant the license

Hands on: Create and Submit an Item

Users & Groups

Users and Groups

- Users
 - o Individuals that have a role in the system
- Groups
 - Groups of users that share roles



Special Groups

- "Administrator"
 - Group of system administrators
- "Anonymous"
 - Anyone

Create Users and Groups

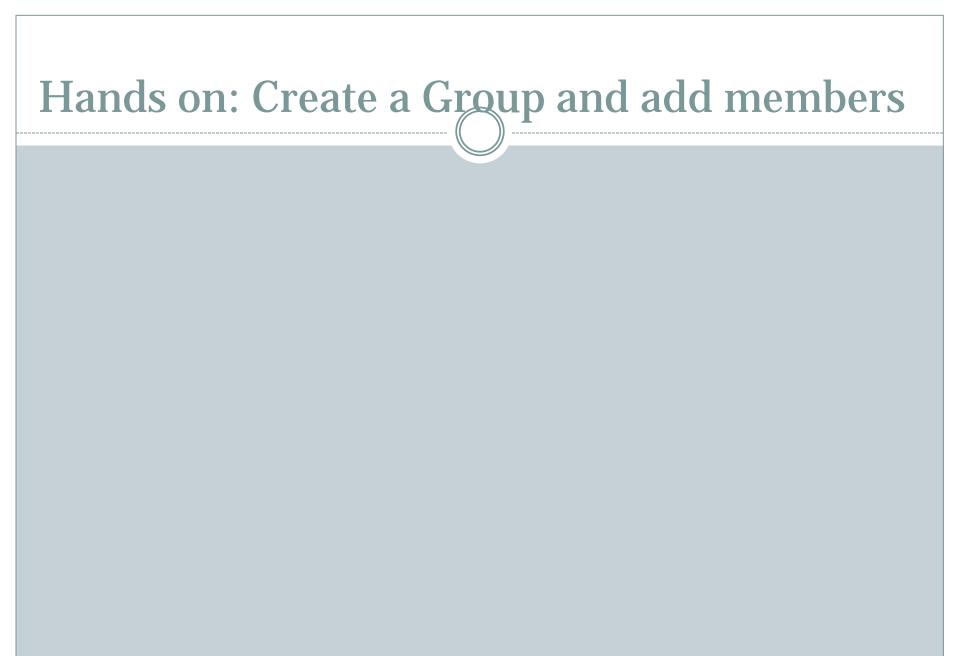
Steps to create users:

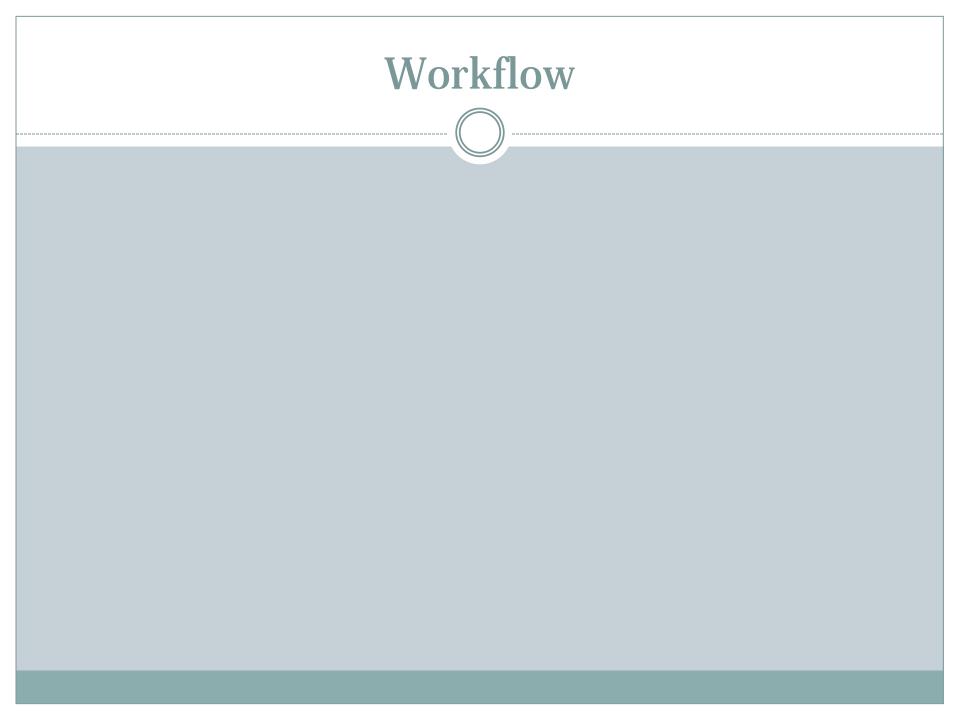
- Select "People" (under Administrative Access Control)
- 2. Click "Create a new e-person"
- 3. Add the new person's name and contact information
- 4. Click "Create E-person"

Create Users and Groups

Steps to create groups

- Choose "Groups" (under Administration Access Controls)
- 2. Select "Create a new Group"
- 3. Give the group a name
- 4. Use "Search members" to add e-people the new group
- 5. Click "Add" next to the e-people you want to add to the group
- 6. Click "Save"

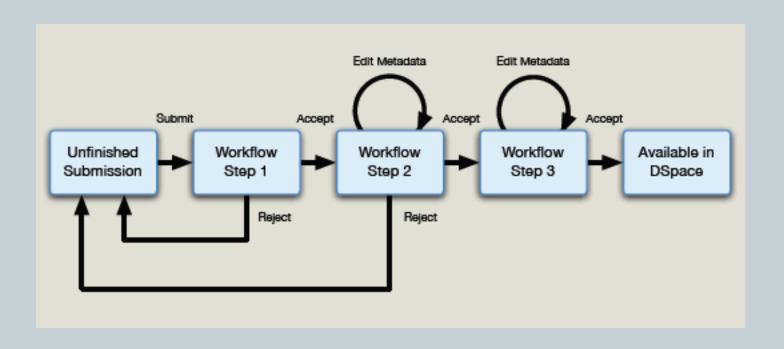




Workflow Steps

- No Workflow Steps
 - Item is made available upon submission
- Workflow Step 1 (Accept/Reject)
 - Can accept or reject a submission
- Workflow Step 2 (Accept/Reject/Edit Metadata)
 - Can accept or reject a submission and edit metadata
- Workflow Step 3 (Edit Metadata)
 - Can edit metadata before making item available

Workflow Steps



• Bitstream

- READ –can open the file
- WRITE –can alter the file

• Item

- o READ –can view the item
- WRITE –can modify the item
- ADD/REMOVE –can add or remove bitstreams

• Collection

- ADD/REMOVE –can add or remove items from the collection
- DEFAULT_ITEM_READ –new items receive this READ attribute
- o DEFAULT_BITSTREAM-READ –new bitstreams receive this READ authorization
- COLLECTION_ADMIN –can edit or withdraw items, or map items into the collection

• Community

• ADD/REMOVE –can add or remove collections from the community

Workflow for Collections

Steps to create a workflow:

- Select the community and collection you wish to edit
- 2. In the Context box, select Edit Collection
- 3. Edit the collection metadata (Edit Metadata tab)
- 4. Choose the Assign Roles tab
- 5. Assign e-people and/or groups to the roles that are relevant to the collection and the workflow you have selected

Hands-on: Workflow for Collections

Metadata Registries and Templates

Metadata

Descriptive Metadata

- Qualified Dublin Core
- Limited expansion to other formats

Metadata

- Submission Forms
 - Customizable in configuration files
- Editing Metadata
 - Can be done after submitting
- Adding Metadata
 - Can be done after submitting
- Metadata Registry
 - Creates new metadata field names
- Item Template
 - Default values

Editing/Deleting

Removing Items: Withdraw vs. Delete

Withdraw

- Removes item from view
- Does not show up in search results
- Recoverable

Permanently Delete ("Expunge")

- Unrecoverable
- Handle is not reused
- Can only be done by a repository administrator

Removing and Deleting Items

Steps for removing and deleting items:

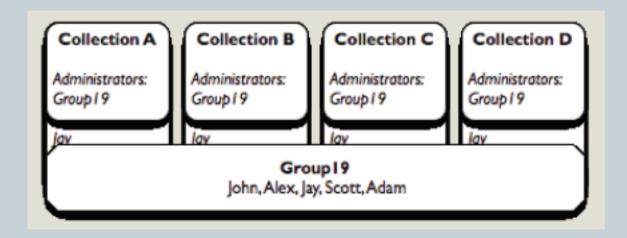
- 1. Navigate to the item you wish to remove/delete
- 2. In the Context box, choose "Edit this item"
- 3. Choose "Withdraw" to withdraw the item from the repository <u>OR</u> choose "Permanently Delete" to expunge the item from the repository permanently



Users and Permissions

Refresher On Users and Groups

- Users
 - Individuals that have a role in the system
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• Community

• ADD/REMOVE –can add or remove collections from the community

Steps for adding authorizations/policies to a community:

- Click on "Authorizations" (under Administrative Access Control)
- 2. Click on the Community whose policy you wish to create/modify
- Choose either "Add a new policy" or "Edit" to modify an existing group policy
- 4. Choose the action (permission) you want to give the group
- 5. Choose the group to whom the action is being given
- Choose "Save"

Steps for adding authorizations/policies to a collection:

- 1. Choose the collection
- 2. Choose "Edit Collection" (under Context)
- 3. Choose the "Assign Roles" tab
- 4. Choose the e-people or group to whom the role is assigned
- 5. Choose "Save"

Hands-on: Restricting Access

Introduction to DSpace

QUESTIONS?

Resources—DSpace (TDL)

TDL/DSpace http://www.tdl.org/repositories/

DSpace Doc http://wikis.tdl.org/tdl/Repositories

TDL Groups http://www.tdl.org/members/groups/

TDL email <u>info@tdl.org</u> (to join the TDL mailing list)

TDL support <u>support@tdl.org</u>

Texas ETD Assc. http://txetda.wordpress.com/

TDL User Services <u>tdl_services_ug@utlists.utexas.edu</u>

Group (email Ryan Steans, rsteans@austin.utexas.edu,

to be added to the list)