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Agenda

Prologue
What is DSpace
Why DSpace
Coverage in Training Course
What is DSpace?

- Digital Object management system
- Creates, searches retrieves digital objects
- Facilitates preservation of digital objects
- An open source software
- Allows open access and self archiving
- Allows building Institutional Repositories/Subject Repositories
S/W requirements

• UNIX recommended (Java-based program; should run on any platform)
• Java Servlet engine (Apache Tomcat or Resin or Jetty, or JBoss)
• Uses open source postgresQL relational database or commercial Oracle
What DSpace can do?

• Captures
  - Digital content in any format directly from creators (e.g. researchers, authors)

• Describes
  - Descriptive, technical, rights metadata
  - Persistent identifiers (CNRI, DOI, ARCID or Local Handles)

• OAI-PMH version 2.0 compliant
  - Allows metadata Crosswalks
Possible Content

- Preprints, articles
- Postprints
- Technical Reports
- Conference Papers
- Theses/Dissertations
- Datasets (Dryad uses DSpace)
  - e.g. statistical, geospatial, scientific
• Images
  - visual, scientific, etc.
• Audio files
• Video files
• Text Files
  • Spreadsheet, Presentation, PDF etc.
Interface

• JSPUI
• XMLUI
  Manakin
  Rubric
  Classic
  Mirage
  Mirage2
File Formats

- Known/supported
  - Ex: TIFF, SGML/XML, PDF

- Known/unsupported
  - Ex: MS Office
  - LibreOffice Suite

- Unknown

- **NOTE:** To be decided by administrator what formats he would support future migration
Information Model

• Communities
  - Departments, Labs, Research Centers, Schools based on Disciplines/Subjects

• Collections

• Items

• Digital Objects
  - Multiple formats - same content
  - Complex objects - multiple files
Intellectual Property

• By default grants DSpace non-exclusive right to acquire, manage, preserve, distribute the item

• One may opt any Creative Commons license

• Copy of license gets stored with item
Backend Technology

- Apache/NGINX, OpenSSL
- Java, JSP, Tomcat/Jetty/JBoss
- PostgreSQL
- CNRI Handle System (persistent ids)
- Lucene(index/search)
- Solr (Statistics)
- OAIcat (OAI-PMH)
Standards Support

- OAI-PMH
- OAI-ORE
- QDC etc.
- UNICODE
- QDC
- RSS/Atom
Source: OpenDOAR

- DSpace (40%)
- EPrints (11%)
- WEKO (8%)
- Bepress (5%)
- Islandora (3%)
- CONTENTdm (2%)
- OPUS (2%)
- HAL (1%)
- dLibra (1%)
Dspace Implementation

- United States (316)
- India (212)
- Bangladesh (23)
- Pakistan (15)
- Nepal (6)
Next Version: 7.0

UI: Angular replacing both JSPUI and XMLUI

May not have much changes in functionality
Coverage in Training Course

- Overview of DSpace
- Information Organization Model
- DSpace users
- Workflow
- Administration
Thank You

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