

# DSpace 1.6

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# Where are we now?

- ◆ 1.0 - 8th November 2002
- ◆ 1.1 - 8th May 2003
- ◆ 1.2 - 13th August 2004
- ◆ 1.3 - 3rd August 2005
- ◆ 1.4 - 26th July 2006
- ◆ 1.5 - 25th March 2008
  - ◆ 1.5.1 - 10th September 2008
  - ◆ 1.5.2 - 15th April 2009

# The 1.6 approach

- ◆ A slightly different approach than previous versions
- ◆ Community survey:
  - ◆ What three features should be in 1.6?

# The 1.6 approach

- ◆ What three features should be in 1.6?
  - ◆ Statistics
  - ◆ Embargo
  - ◆ Batch metadata editing
- ◆ Feature leads: Mark Wood / Richard Rodgers / Stuart Lewis

# Statistics

- ◆ Developed by @mire
- ◆ New framework to store 'events'
  - ◆ E.g. Item Read
- ◆ Events stored in solr
- ◆ Can build tools to surface the data
  - ◆ Basic out-the-box implementation

# Embargo

- ◆ Embargo framework
  - ◆ Created by Richard Rodgers (MIT) and Larry Stone (Harvard)
  - ◆ Allows for custom implementations
  - ◆ Out-the-box implementation works on a single date, and only embargoes bitstreams

# Batch metadata editing

- ◆ Batch editing via CSV files
  - ◆ Made in New Zealand
    - ◆ Stuart / Leonie / Vanessa @ University of Auckland (core & JSPUI)
    - ◆ Kim Shepherd @ LCoNZ (XMLUI)
  - ◆ Export metadata for items / collections / communities / site
  - ◆ Export metadata for search or browse results
- ◆ Open in OpenOffice Calc or Excel
- ◆ Harness the power of these tools

# Batch metadata editing

- ◆ Use cases
  - ◆ Tidying up of metadata (e.g. spell check)
  - ◆ Restructuring of metadata (move elements from one field to another)
  - ◆ Global find and replace



# Batch metadata editing

- ◆ It also has a couple of extra tricks up its sleeves:
  - ◆ Add new items (metadata only) without having to create SIPs that conform to the DSpace batch import format
  - ◆ Bulk move items between collections
  - ◆ Bulk 'map' items into new collections

# Three new big features

- ◆ We now have the three big features ready
  - ◆ A few small issues:
    - ◆ Batch metadata editing in XMLUI
    - ◆ Statistics in JSPUI
- ◆ So we're really happy with that new feature set, and hope that you are

# However...

I was going to finish here  
but we have a great DSpace community who gave us more!



# Documentation

- ◆ One feature we all use, and essential to a successful open source product
- ◆ <1.4 HTML ‘adequate’
- ◆ 1.5 Docbook / PDF / HTML ‘improving’
- ◆ 1.6+ We have a ‘documentation gardener’
  - ◆ Weeds and feeds
  - ◆ Jeffrey Trimble (YSU)

# OAI-PMH and OAI-ORE harvesting support

- ◆ Ever wanted to mirror two collections in different repositories?
  - ◆ There are now ‘regular collections’...
  - ◆ ...and collections from an external OAI-PMH source
    - ◆ Enter the OAI-PMH base URL
    - ◆ Option for no files
    - ◆ Option for references to files
    - ◆ Option for files
  - ◆ Alexey Maslov – Texas A&M

# Authority control

- ◆ Allows input fields to be tied to authority control lists
  - ◆ Out the box includes examples:
    - ◆ LoC name authority (SRU)
    - ◆ SHERPA Romeo journal names
    - ◆ SHERPA Romeo publishers
  - ◆ AJAX 'suggest' auto-complete, search -> pick lists
  - ◆ Extensible via plugins (good examples and templates provided)
  - ◆ Larry Stone – Harvard + Andrea Bollini - CILEA

# DSpace services

- ◆ First-fruits of “DSpace 2.0” technology funded by JISC
  - ◆ A service locator framework
  - ◆ Developed by
    - ◆ Mark Diggory (@mire)
    - ◆ Graham Triggs (BMC / OpenRepository)
    - ◆ Aaron Zeckoski (CARET)
    - ◆ Ben Bosman (@mire)
    - ◆ Bradley McLean (Durasapce)

# Script launcher

- ◆ Command line scripts
  - ◆ Essential for many tasks, but...
  - ◆ We only supply UNIX scripts
  - ◆ Not a complete set of scripts
- ◆ Configurable script launcher
  - ◆ `[dspace]/bin/filter-media [dspace]/bin/dspace filter-media`
  - ◆ Stuart Lewis + Larry Stone + Mark Diggory



# OpenSearch

- ◆ ATOM feed of search results
  - ◆ XML search output
  - ◆ Richard Rodgers (MIT)

# Security improvements

- ◆ No web application is 100% safe
- ◆ Like all web-based platforms we have to ensure DSpace protects against common security issues
  - ◆ New attack vectors all the time
- ◆ Security improvement patches from NYU (Kate Pechekhonoova and Kuai Hinojosa)

Still not satisfied?

# Improvements / Bug fixes / Smaller features

- ◆ XMLUI file descriptions can be shown, and removed
- ◆ Primary bitstream removal problems (not removed at bundle)
- ◆ Handle version 6.2
- ◆ Negative matching in IP authentication
- ◆ Internal server emails now include details of the logged-in user
- ◆ Lots of SWORD improvements (more flexible, better performance)

# Improvements / Bug fixes / Smaller features

- ◆ If-Modified-Since / Last-Modified headers in XMLUI
- ◆ OAI DC Crosswalk more configurable
- ◆ Option to disable mail server / use gmail as a mail server
- ◆ Set Creative Commons legal jurisdiction
- ◆ Options to hide certain metadata fields in XML/JSPUI/OAI

# Development process improvements

- ◆ Weekly development meetings
  - ◆ NOT committer meetings
  - ◆ NOT developer meetings (although some technical talk)
- ◆ More and better use of JIRA
- ◆ First part of meetings is to review newly submitted issues
  - ◆ Mammoth exercise for first few meetings

In total (so far!)

91 updates

# My mother always said to me...

- ◆ “Remember to say thank you”
- ◆ Open source community not always good at this
- ◆ A lot of work time, a lot of volunteer time, a lot of commercial time



Thank you!



# Thank you!

Alexey Maslov || Kim Shepherd || Andreas Schwander || Ricardo Saraiva  
Stuart Lewis || Larry Stone || Mark Diggory || Andrea Bollini  
Tim Donohue || Ben Bosman || OhioLINK || Yin Yin Latt  
Fabio Kepler || Steve Williams || Van Ly || Graham Triggs  
Mark Wood || Ekaterina Pechekhonoova || Richard Rodgers || Jeffrey Trimble



# Thank you!

**Youngstown**  
STATE UNIVERSITY



University of  
Texas Libraries



ILLINOIS



# Thank you!

- ◆ Duraspace / The DSpace Foundation
- ◆ DSpace global outreach group
- ◆ JISC
  
- ◆ The WHOLE community

# The BIG question

# What will it be released?

- ◆ We have some way to go yet
  - ◆ Feature freeze
- ◆ Test DSpace 1.6
  - ◆ Please join in
    - ◆ We can provide LiveCDs and test instances
    - ◆ Test upgrades / scalability
  - ◆ Identify issues, fix bugs, re-test

# What will it be released?

- ◆ When it is ready
- ◆ Hopefully by Christmas.
- ◆ The more help we get, the sooner it will be and the better it will be

# Getting involved

- ◆ Testing
- ◆ Writing (documentation, training materials)
- ◆ Developing code
- ◆ Fixing things
- ◆ Providing translations



# Ways to interact

- ◆ Email list
- ◆ Weekly meetings
- ◆ New ambassador program
- ◆ IRC room

# Recent changes

- ◆ This year we've introduced:
  - ◆ Weekly meetings
  - ◆ Community survey
  - ◆ JIRA (e.g. voting feature)

# Keep moving forward

- ◆ We\* need to:
  - ◆ Encourage more community involvement
  - ◆ Examine our processes and roles
    - ◆ Is the committers group still an effective body?
    - ◆ Do we need a release management / project management board?
    - ◆ Do we need new roles (e.g. project management)
  - ◆ How do we\* encourage ownership and new contribution?
  - ◆ We\* want your ideas (what works / doesn't work / things to change)

\* We = the WHOLE community

# To conclude

- ◆ I hope you're excited about 1.6
- ◆ I hope you will contribute to testing
- ◆ I hope you feel welcome to contribute
- ◆ Please think and join in discussions about how to keep the community moving forward, and what your role is in that
- ◆ Thank YOU!