

DigiTool for Course Support at Notre Dame



Pascal Calarco,
University of Notre Dame
IGeLU 2007
Brno, Czech Republic
September 3, 2007

Some Brief History . . .

- ❑ Digitool 1.0 purchased in 2001
- ❑ Small pilot with 2.0 to compare DSpace and Digitool in 2003
- ❑ Skipped 2.4 upgrade to wait for 3.0 release
- ❑ Digitool now a component project of Institutional Digital Repository project at Notre Dame
- ❑ Beginning with image collections for course reserve

Institutional Digital Repository (IDR)

- Library pilot project 2005-2006 to explore policy and technology issues with institutional repositories
- Cross-divisional; 35 staff + outside library
- Content components:
 - Working papers/preprints
 - Excellent undergraduate research
 - Art Image Library collection
 - Electronic Theses & Dissertations

OAI in Digitool: Iterations

- Initially developed by Ex Libris in version 3.0
- SP13 introduced Repository Replication via DLESE OAI
- SP15 introduced new in-house OAI provider, stores harvested data in DB table instead

Publishing Manifestations to OAI

- Needed ability to distinguish between ARCHIVE, VIEW, VIEW_MAIN manifestations with URLs to each
- Working properly finally with SP15:

```
-  
  <dc:identifier>  
http://lib6.nd.edu:1801/webclient/DeliveryManager?pid=4745&custom_att_2=s  
  imple_viewer&USAGETYPE=THUMBNAIL  
</dc:identifier>
```

```
-  
  <dc:identifier>  
http://lib6.nd.edu:1801/webclient/DeliveryManager?pid=4596&custom_att_2=s  
  imple_viewer&USAGETYPE=ARCHIVE  
</dc:identifier>
```

```
-  
  <dc:identifier>  
http://lib6.nd.edu:1801/webclient/DeliveryManager?pid=4695&custom_att_2=s  
  imple_viewer&USAGETYPE=VIEW  
</dc:identifier>  
</record>
```

Art Image Library

- ~230,000 analog slides
- Dept. of Art, Art History & Design, College of Arts & Letters
- Primary use: course support & research
- Curator, Assistant Curator, undergraduate art history students



Vuumade
ROMA, IT

IT

IOVANNI-
GOZZOLI

IT

IT

GOZZOLI-
GUERCINO

IT

IT

GUERCINO-
LAND

IT

IT

L'ANFRANCO-
LEONARDO

IT

IT

LEONARDO

IT

FR

BOLD-CARD



A15RUM MOLDAVIE, Mnstry of Putna
Ext. Aerial View of Landscape



1466-70 Founded by
Prince Etienne le Grande,
143722.

A15RUM MOLDAVIE, Mnstry of Putna
Ext. Aerial View of Landscape

1466-70 Founded by
Prince Etienne le Grande,
143722.



REVELATION
BY THE APOSTLE JOHN

PHILOSOPHY

GREEN COVER

PHILOSOPHY

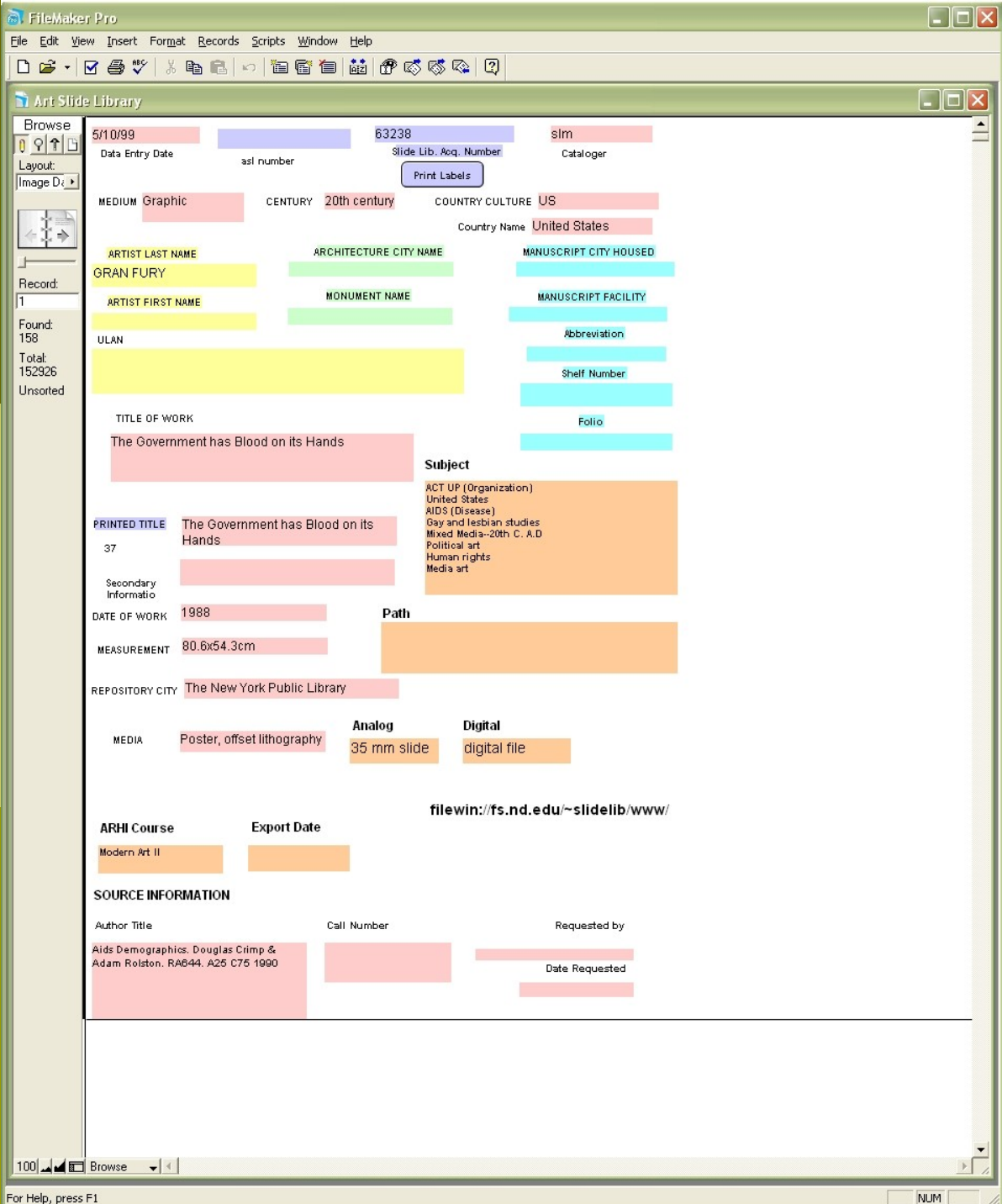


GOD BLESS JOHN WAYNE

CELESTIAL CREATIONS
CAMILLE

Art Image Library: FileMaker Pro

- 155,000 records of varied quality and consistency; 230,000 slides in collection
- Started out in 1985 as HyperCard application
- Accession number unique identifier; some images predate database (ASL-xxxx identifiers)
- Approximately 16k images digitized; 5k-7k newly digitized per year



- Filemaker Pro input/find interface
- Manuscripts use slightly different fields

Filemaker Pro --> DigiTool

- ❑ Enhance, correct Filemaker Pro data one course at a time (3-4 min./record)
- ❑ Enrich with ArtStor and other descriptive metadata
- ❑ Export CSV from Filemaker Pro
- ❑ Process CSV file with XSL to DCXML
- ❑ Organize TIFF images, ingest XML in clusters of 500 records each
- ❑ Ingest, task, apply access rights to incoming images
- ❑ Create, update collections

DC XML transformation

```
<record xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:dc="http://purl.org/dc/elements/1.1"
xmlns:dcterms="http://purl.org/dc/terms">
  <dc:identifier>11240.tif</dc:identifier>
  <dc:identifier>11240.jpg</dc:identifier>
  <dc:title>Strozzi Altarpiece</dc:title>
  <dc:creator>Gentile Da Fabriano</dc:creator>
  <dcterms:bibliographicCitation>Abbeville Press, The Art of Florence</dcterms:bibliographicCitation>
  <dc:source>Florence, Uffizi</dc:source>
  <dcterms:temporal>15</dcterms:temporal>
  <dcterms:created>1423</dcterms:created>
  <dcterms:spatial>Italy</dcterms:spatial>
  <dc:format>Painting</dc:format>
  <dc:format>tempera on panel</dc:format>
  <dc:format>300x282</dc:format>
  <dcterms:mediator>Venetian</dcterms:mediator>
  <dc:contributor>sms</dc:contributor>
  <dc:source>http://alephprod.library.nd.edu:8991/F/?func=find-
b&amp;find_code=020&amp;request=0896594025</dc:source>
</record>
```


Art Image collections: Course Support

- ❑ Collections primarily used for teaching in Art, Art History & Design dept.
- ❑ Desire and demand to expand to other academic departments, eg. Theology, American Studies, etc.
- ❑ Copyright provenance varied, so need to limit to class enrolment for most of collection
- ❑ Faculty currently mostly use Powerpoint for image presentation


Web Gallery for Image Study

Mozilla Firefox

File Edit View Go Bookmarks Tools Help


Hardware SBC Mail Fedora ASIST Blogs ExLibris Finance Football Gaming images Jobs Manitoulin Media Music ND People Scoot

Venetian - Lecture 3



Judith

Artist: Giorgione (after), 1729, engraving by Tionette Larcker



Done 65.323s

The image shows a screenshot of a Mozilla Firefox browser window displaying a web gallery. The browser's address bar shows the URL 'Venetian - Lecture 3'. The main content area features a large engraving of a woman, identified as Judith, standing in a landscape. To the right of the image is a caption: 'Judith' and 'Artist: Giorgione (after), 1729, engraving by Tionette Larcker'. Below the main image is a horizontal gallery of 15 small thumbnail images, each representing a different artwork. The browser's status bar at the bottom shows 'Done' and a timer '65.323s'.

Powerpoint for Teaching

Leonardo da Vinci, *Madonna of the Rocks*, 1483,
Paris, Louvre



Raphael, *Baldassare Castiglione*, c. 1515,
Paris Louvre



E-Shelf Public Folder Publishing

DigiTool - e-Shelf - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://lib6.nd.edu:8881/R/2V1TYRHD51J3UXILLTTHB89QA289IP4GQ5P9BC6X6339FA8UB-011168?func=dbin-choose-folder&fc James Steenbergen cancer

Hardware SBC Mail Fedora ASIST Blogs ExLibris Finance Football Gaming Images Jobs Manitoulin Media Music ND People Scoot South Bend Thinkpad Tile

DigiTool - Resource Discovery
DIGITAL ASSET MANAGEMENT

Search Results Previous Searches Search Bases My Space
e-Shelf Search History Preferences User Information STAFF

Folders

- Venetian: 3-II (18)
- Venetian: 4-III (17)
- Venetian: 4-II (21)
- Venetian: 3-III (25)
- Venetian: Lecture 1 (22)
- Venetian: 2-III (11)
- Basket (1)
- Venetian: Lect. 1-II (15)
- Venetian: Lect. 2 (15)
- Venetian: Lec. 2-II (11)
- Venetian: 7-1 (1)

e-Shelf Brief view e-Shelf Table view

Venetian: 3-II contains records pt 1 18 contains records pt 2 [Click Here for Viewer](#)

1 Virgin & Child w/Sts. Francis and Libérale. det.

2 Three Philosophers. det.

3 Three Philosophers. detail

4 Three Philosophers. Reconstruction of 1st Version (Wilde, 1933)

5 Col Tempo

6 Bentivoglio Chapel. Altarpiece

7 Three Philosophers

8 Campagno della

9 Archduke Leopold Willem in his Painting Gallery in Brussels

10 Exterior View

11 Three Philosophers

12 Three Philosophers

Display Public

http://lib6.nd.edu:1801/webclient/EShelfRequest?eshelfid=STAFF:00221

Public

Public Name: Venetian: 3-II

Public Desc:

OK Cancel

javascript:void(0);

Now: Sunny, 63° F Mon: 78° F Tue: 84° F

- Virgin & Child w/Sts. Francis and Liberale. det.
- Three Philosophers
- Three Philosophers. det.
- Three Philosophers. det.
- Three Philosophers. detail
- Three Philosophers. det.
- Three Philosophers. Reconstruction of 1st Version (V
- Campagno della Calza. Detached in 1937
- Col Tempo
- Archduke Leopold Willem in his Painting Gallery in Br
- Bentivoglio Chapel. Altarpiece
- Exterior View
- Madonna of Orange Tree w/Sts. Jerome & Louis
- Laura
- Three Philosophers. after Giorgione
- Gallery of Archduke Leopold Wilhelm
- Benson Holy Family
- Castelfranco Altarpiece. det

Title: Virgin & Child w/Sts. Francis and Liberale. det.
 Creator: Giorgione
 Subject: Mary, Blessed Virgin, Saint--And Child
 Subject: Painting--Italy--16th C. A.D
 Subject: Saints
 Subject: Religious - Virgin
 Format: Painting

Virgin & Child w/Sts. Francis and Liberale. det.



Change action on mouse click

Use Plugin



Change Image Size...

Change action on mouse click

Madonna of the Rocks

Portrait of Baldassare Castiglione



Change Image Size...
Change action on mouse click

Change Image Size...
Change action on mouse click



Change action on mouse click



Change action on mouse click

[Use Plugin](#)

[Use Plugin](#)



Object



Gallery of Archduke Leopold Wilhelm - JPEG Image (2 M)



Gallery of Archduke Leopold Wilhelm - JPEG2000 Image (15 M)

Record number

00000025

Title

Gallery of Archduke Leopold Wilhelm

Creator

Teniers II, David .

Subject

Leopold Wilhelm, Archduke of Austria, 1614-1662

Subject

Galleries (display spaces)

Subject

Gallery pictures

Subject

Painting galleries

Subject

Painting--Flanders (Belgium)--17th C. A.D

Modified

2007-03-21

Format

Painting

URI

[^4841.tif](#)

URI

[^4841.jpg](#)

Bibliographic citation

Dopo Caravaggio-Bartolomeo Manfredi

Source

Munich, Bayerische Staatsgemald

Source

http://alephprod.library.nd.edu:8991/F/?func=find-b&find_code=020&request=8804316411

Has Format

35 mm slide

Has Format

Digital file

Spatial

Netherlands

Temporal

17

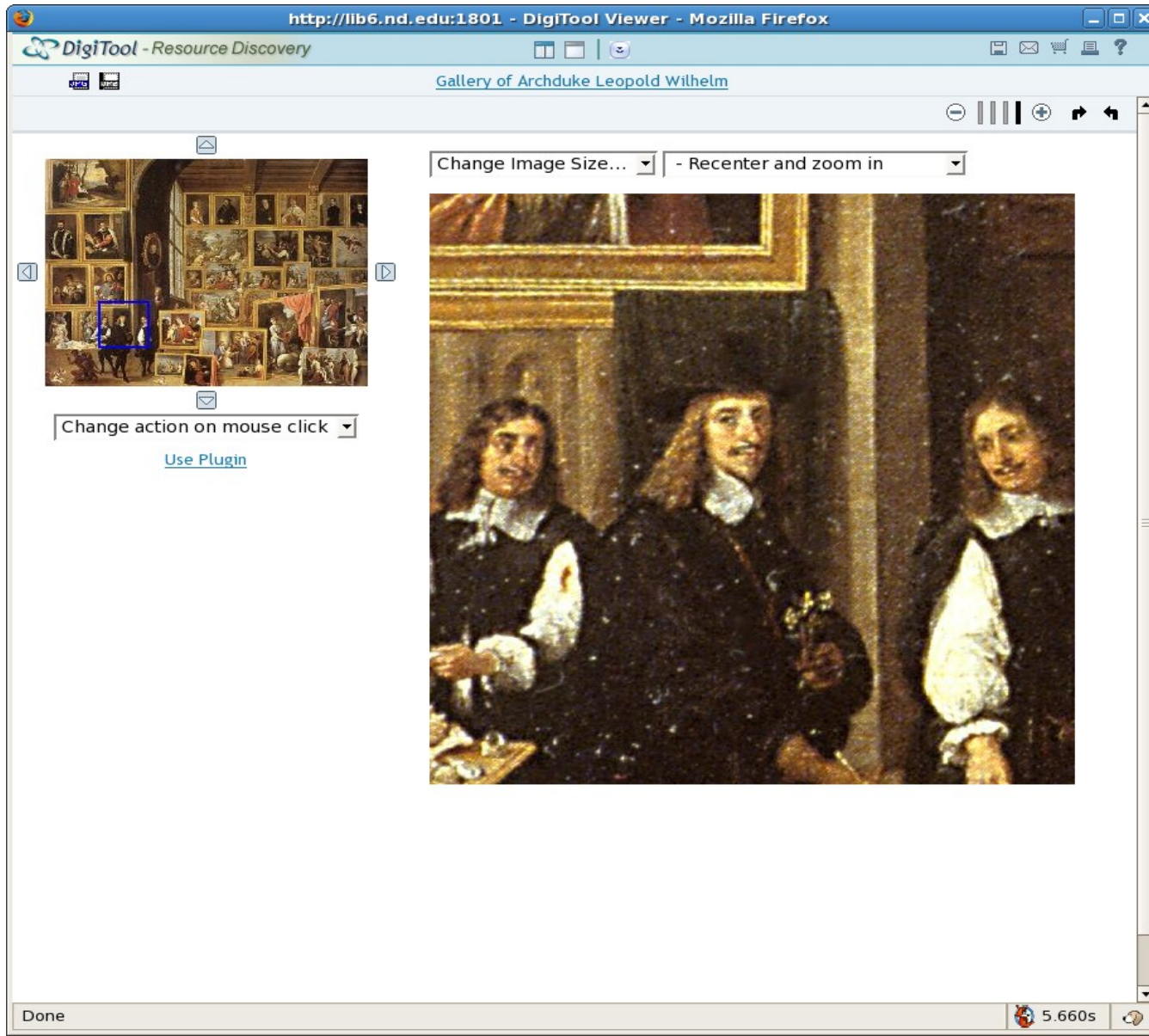
Rights

Restricted to authenticated users of the University of Notre Dame

Mediator

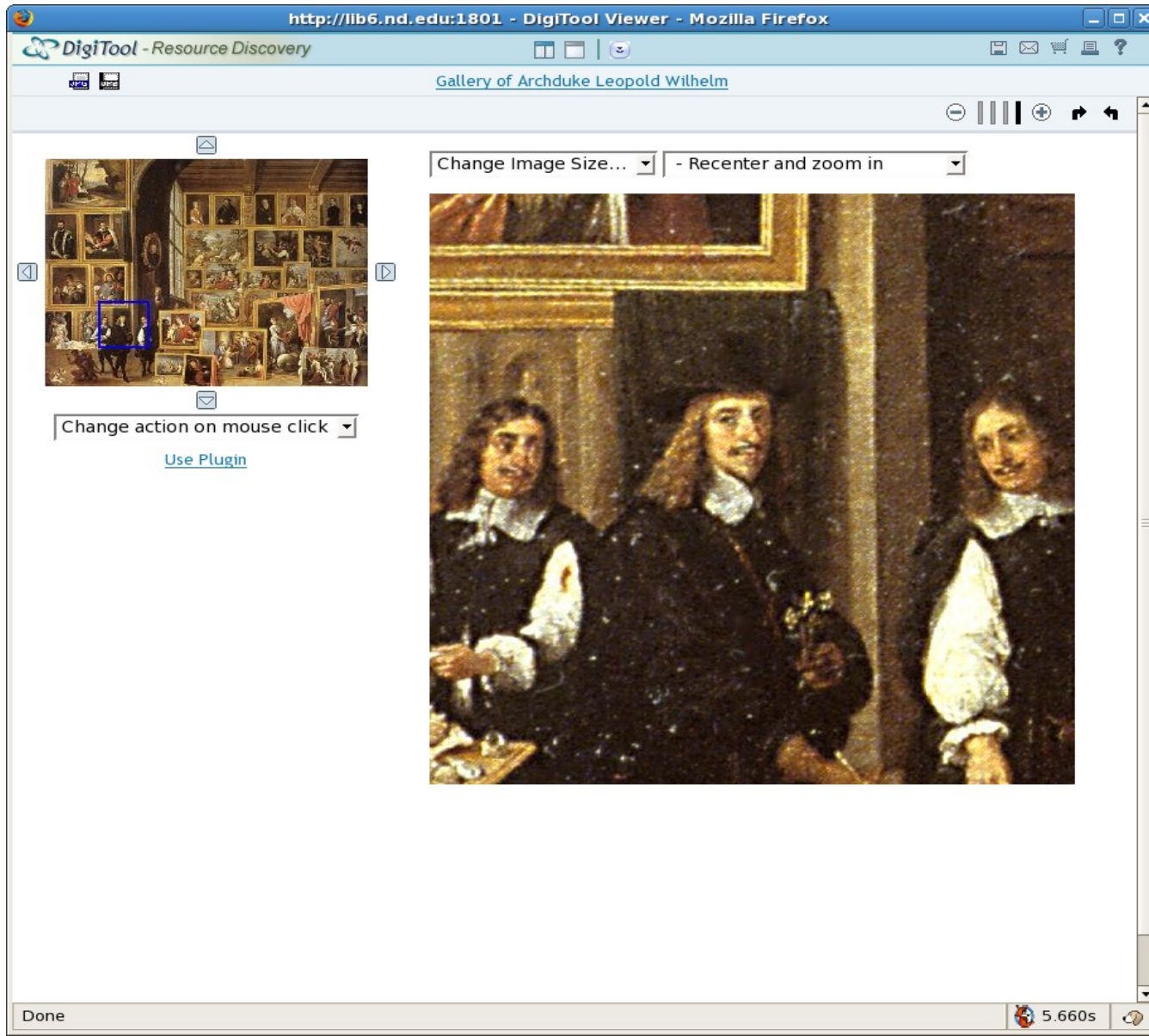
Venetian

JPEG2000 Display



- Changed JPEG2000 script to increase number of layers available

JPEG2000 Display



- Changed JPEG2000 script to increase number of layers available

Authentication Issues

- ❑ PDS cannot handle two types of authentication methods (yet); in development
- ❑ Denied bases for restricting access: item level or defined base level
- ❑ Denied bases still show total collection size
- ❑ Notre Dame LDAP does not provide groups based on class
- ❑ Use internal authentication based on per class enrollment for now

Decision Points: Digitool Image Collections

- Descriptive standard: VRA, DC, something else?
- IP decisioning; how far to lock down?
- Authentication methods
- Resolution standards: for ARCHIVE and VIEW manifestations
- Preservation metadata: NISO Image, JHOVE, PREMIS
- Resource Discovery customization

Architecture Lantern Slides

- ❑ ~3000 glass lantern slides in collection
- ❑ Publisher: Massiot & Cie, Coubervoie, Seine, Paris, France
- ❑ Went out of business around WW I
- ❑ Cleaning and scanning, loading into Flickr & Digitool
- ❑ Minimal metadata



Dual approaches: Digitool & Flickr

- Very little metadata exists, so why not invite Flickr community to contribute?
- Use Flickr to raise collection visibility
- Use Digitool as archival repository
- Invite faculty & students in School of Architecture to contribute, as well as others
- Creative Commons 2.0 Share-A-Like license

Architecture Lantern Slides: Deposit module

DigiTool - Deposit - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://lib6.nd.edu:1801/deposit/action/workflow.do

James Steenbergen cancer

Hardware SBC Mail Fedora ASIST Blogs ExLibris Finance Football Gaming Images Jobs Manitoulin Media Music ND People Scoot South Bend Thinkpad Tile

DigiTool - Deposit
DIGITAL ASSET MANAGEMENT

User: PREIMERS Admin Unit: [AIL01] art image library

1 2 3 4 5

Descriptive Information

* Identifier	<input type="text"/>
* Building name	<input type="text"/>
Building Name - Alternate 1	<input type="text"/>
Building name - Alternate 2	<input type="text"/>
Building name - Alternate 2	<input type="text"/>
Building name - Alternate 3	<input type="text"/>
Building name - Alternate 4	<input type="text"/>
Architect	<input type="text"/>
City	<input type="text"/>
Country	France
Perspective	<input type="text"/>
Earliest Date	<input type="text"/>
Latest Date	<input type="text"/>
Region	<input type="text"/>

Done

Now: Sunny, 63° F | Mon: 78° F | Tue: 84° F

Architecture Lantern Slides: Flickr

Flickr: Photos from nd_architecture_library - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.flickr.com/photos/ndalls/

Hardware SBC Mail Fedora ASIST Blogs ExLibris Finance Football Gaming Images Jobs Manitoulin Media Music ND People Scoot South Bend Thinkpad Tile

DigiTool - Deposit Flickr: Photos from nd_arc...

flickr.com You aren't signed in Sign In Help


Home The Tour Sign Up Explore

Search nd_architecture_library's p Search

nd_architecture_library's photos pro [View as slideshow](#)


Sets Tags Map Archives Favorites Profile

Italy-Verona-church-S-Anastasia3




Some rights reserved.
Uploaded on May 24, 2007
0 comments

Italy-Verona-church-S-Anastasia2




Some rights reserved.
Uploaded on May 24, 2007
0 comments

Italy-Verona-church-S-Anastasia



Italy-Verona-chapel-Pelegrini-Sanmichele



Israel
26 photos

Iran
6 photos

Indonesia

Done

Now: Sunny, 63° F Mon: 78° F Tue: 84° F

Flickr: Tag Cloud

The screenshot shows a Mozilla Firefox browser window with the address bar at <http://www.flickr.com/photos/ndalls/tags/>. The page title is "Flickr: nd_architecture_library's popular tags - Mozilla Firefox". The browser's menu bar includes File, Edit, View, History, Bookmarks, Tools, and Help. The address bar contains the URL and a search box with "Google". The browser's toolbar shows various icons for navigation and search. The page content displays the Flickr profile for "nd_architecture_library's photos" with a "pro" badge. Below the profile name is a "Jump to:" search box with a "GO" button. The main content is a tag cloud of popular tags, including: abbey, aix, algeria, amiens, angkor, anthony, antwerp, apollinaire, apse, arch, architecture, architecturelibrary, arles, assisi, athens, austria, avignon, baptistry, basilica, baths, beguinage, belgium, blois, bologna, bourges, brechia, bridge, brou, bruges, brussels, caen, cairo, cambodia, castle, cathedral, cent, century, chapel, chapelle, chartres, chartreuse, choir, church, city, cologne, court, cross, dame, de, denis, det, detail, dijon, door, egypt, etienne, facade, florence, fontainebleau, fountain, france, francis, front, gand, garden, gate, germany, great, greece, hall, holy, hospital, hotel, house, houses, india, int, interior, israel, italy, jerusalem, john, karnak, la, lantern, le, library, major, mark, mary, michel, milan, monastery, mont, mosque, museum, nancy, naples, nd, ndlanternslides, nimes, notre, notredame, notredamearchitecture, old, opera, padua, palace, palestine, paris, paul, perigeux, perugia, peter, pierre, pierre, pisa, pistoja, poitiers, pompeii, ravenna, rome, rothenburg, rouen, ruins, s, saint, san, siena, slide, st, station, stephen, temple, theater, theatre, thebes, timgad, tomb, tours, tower, troyes, university, vatican, venice, verona, versailles, villa, walls, ypres. The browser's status bar at the bottom shows "Done" and weather information: "Now: Sunny, 63° F", "Mon: 78° F", and "Tue: 84° F".

Flickr: Full view, with comments

Germany-Treves-church-Notre-Dame on Flickr - Photo Sharing! - Mozilla Firefox

File Edit View History Bookmarks Tools Help


http://www.flickr.com/photos/ndalls/455805117/in/set-72157600130371026/

Hardware SBC Mail Fedora ASIST Blogs ExLibris Finance Football Gaming Images Jobs Manitoulin Media Music ND People Scoot South Bend Thinkpad Tile

DigiTool - Deposit Germany-Treves-church-N...

Germany-Treves-church-Notre-Dame

ADD TO FAVES BLOG THIS ALL SIZES ORDER PRINTS



Uploaded on April 11, 2007 by [nd_architecture_library](#)

nd_architecture_library's photostream

Germany (Set) 117 photos

Tags

- Germany
- Treves
- church
- Notre
- Dame


Additional Information

- © All rights reserved
- Taken on [March 6, 2007](#)
- See [different sizes](#)
- Viewed 5 times

This photo is public

Flag this photo

Comments

 [it is aai!](#) [pro](#) says:
Treves is french (and may be English?) for Trier.
Posted 2 weeks ago. ([permlink](#))

Done

Now: Sunny, 63° F Mon: 79° F Tue: 84° F

Next steps through 2008

- Complete 'Late Antique and Early Christian Art' and 'Modern Art II' for Fall 2008
- Complete Deposit templates, RD customization
- Follow evolving group access rights; Create class accounts for Fall '08 classes
- Catch up to the digitized backlog awaiting ingest
- Move on to textual collections: EAD, TEI
- demo: <http://lib6.nd.edu:1801/>

Thanks!

Contact:

Pascal Calarco

pcalarco@nd.edu

