

# Databases



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# Caveats

- The landscape of tools for VR collections is *extremely* complex
- The framework presented here is just one way to think about these tools
- Most systems fulfill more than one function
- Information about some of these systems is difficult to find if you're not an implementer
- The tools discussed today do not present a comprehensive list of all available options

# Choose the right tool for the job

- All systems are designed with particular needs in mind
- Art images have distinctive needs
- Art image *users* have distinctive needs
- You need tools that both meet your needs and are supportable in your institution

# Tradeoffs

- But your needs and supportability may be at odds
  - Specialized vs. “enterprise” systems
  - VR community is a small one and tools are not very mature
  - VR repositories tend to lack technical support
- Systems that perform multiple functions may meet your needs in some areas but not in others

# Some terms you might hear

- Enterprise content management system
- Digital asset management system
- Digital library system

*There is a disconcerting lack of common definition of these terms.*

# Considering systems by function

- VR Workflow Management
- Cataloging
- Discovery
- Data Sharing
- Presentation

# VR workflow management

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# Workflow *for* VRs

- All systems support some workflow management
- Here we care about VR-specific workflows
  - “Orders” from faculty
  - Digitization process
- Don’ t have to manage inside an integrated system, but it can help
  - No duplicate data entry
  - Information is backed up and preserved
  - No need to learn a separate workflow



# Some options

- Snapdragon
- Plus...



# VCat order

VireoCat\_v3

**Order**

Order Number: 1  
Requestor ID: 1  
CreationDate: 11/29/2007  
ModificationDate: 2/28/2008  
Cataloger: SJW

**NEW** Order Description: Archivision Base Collection--16,377 images

Date Placed:  Date Needed:  Rush:

Item Creator:  Date Returned AV:

Sources (Portal)	Source #	Local Location	Book or Serial Title	Page	Item Accession #
	1				1

Print

Record: 1  
Total: 1  
Unsorted

100 Browse

# VCat source

Source

**Sources** NEW  
Of Images & Information

Source ID  Creation Date   
Modification Date   
Cataloger

Source Type   
RefidType

Source Display

Book/Serial Title	Article Title
<input type="text"/>	<input type="text"/>
Author <input type="text"/>	<input type="text"/>
Edition <input type="text"/>	<input type="text"/>
Pub Place <input type="text"/>	VolumeNo <input type="text"/>
Publisher <input type="text"/>	IssueNo <input type="text"/>
Pub Date <input type="text"/>	Article Pages <input type="text"/>
ISBN <input type="text"/>	ISSN <input type="text"/>
Local Location <input type="text"/>	
Local Call Number <input type="text"/>	
Electronic RefID <input type="text"/>	Electronic <input type="text"/>
Electronic Name <input type="text"/>	
Vendor Name <input type="text" value="Archivision, Inc."/>	Vendors <input type="text"/>
	Local or CC Donors <input type="text"/>

100 Browse

# Cataloging Tools

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# Client vs. web-based

- Web technologies have developed to the point where advanced features previously only available in client software are possible
  - ...but only recently
- Clients can be difficult to manage
  - Install issues
  - Permissions issues
  - Upgrade issues

# VR-specific vs. general

- Metadata is perhaps the area in which we most need VR-specific support
  - VRA Core/CDWA Lite
  - CCO
  - Relevant authorities
- Work/Image distinction difficult for general tools to support

# Work vs. image distinction

- Fundamental to the understanding of visual resources
- Requires linked records
  - Shouldn't have to duplicate work information in multiple image records
  - You'd think library-influenced systems (bib vs. authority) would be set up to do this, but they largely aren't!
- Is this a deal-breaker for you?



# Authority control

- Surprisingly few of these systems make it easy to put a field under authority control
- None do it well, especially for large vocabularies
- Need access to relevant vocabularies
  - Form/genre/medium
  - Topical subject
  - Names
  - Geographic place
  - Work type
  - Style/period

# Controlled vocabulary integration

- Moving terminologies “to the network level”
- What we really need is *integration*
- Access to entire authority record rather than just the heading
- For short vocabularies, provide a combo box
- For longer vocabularies
  - Auto-complete
  - Ajax-y interactions with hierarchical and alphabetical views
- Similar features could be used to perform maintenance of vocabularies

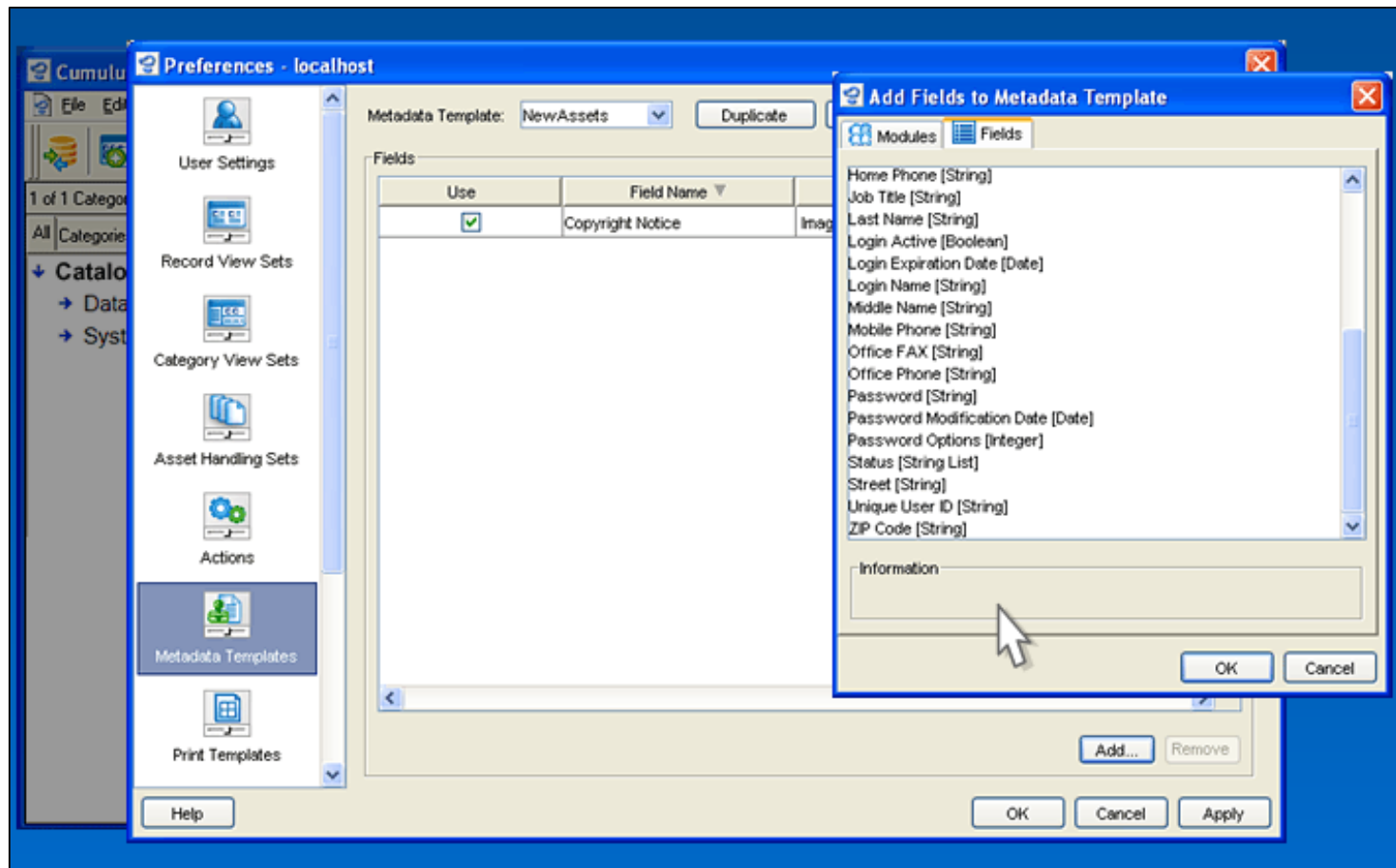
# Other useful features

- Data type validation (while entering data in that field!)
- Auto-complete
- Record-level validation
- Spell check
- Integration of metadata creation guidelines into software tools

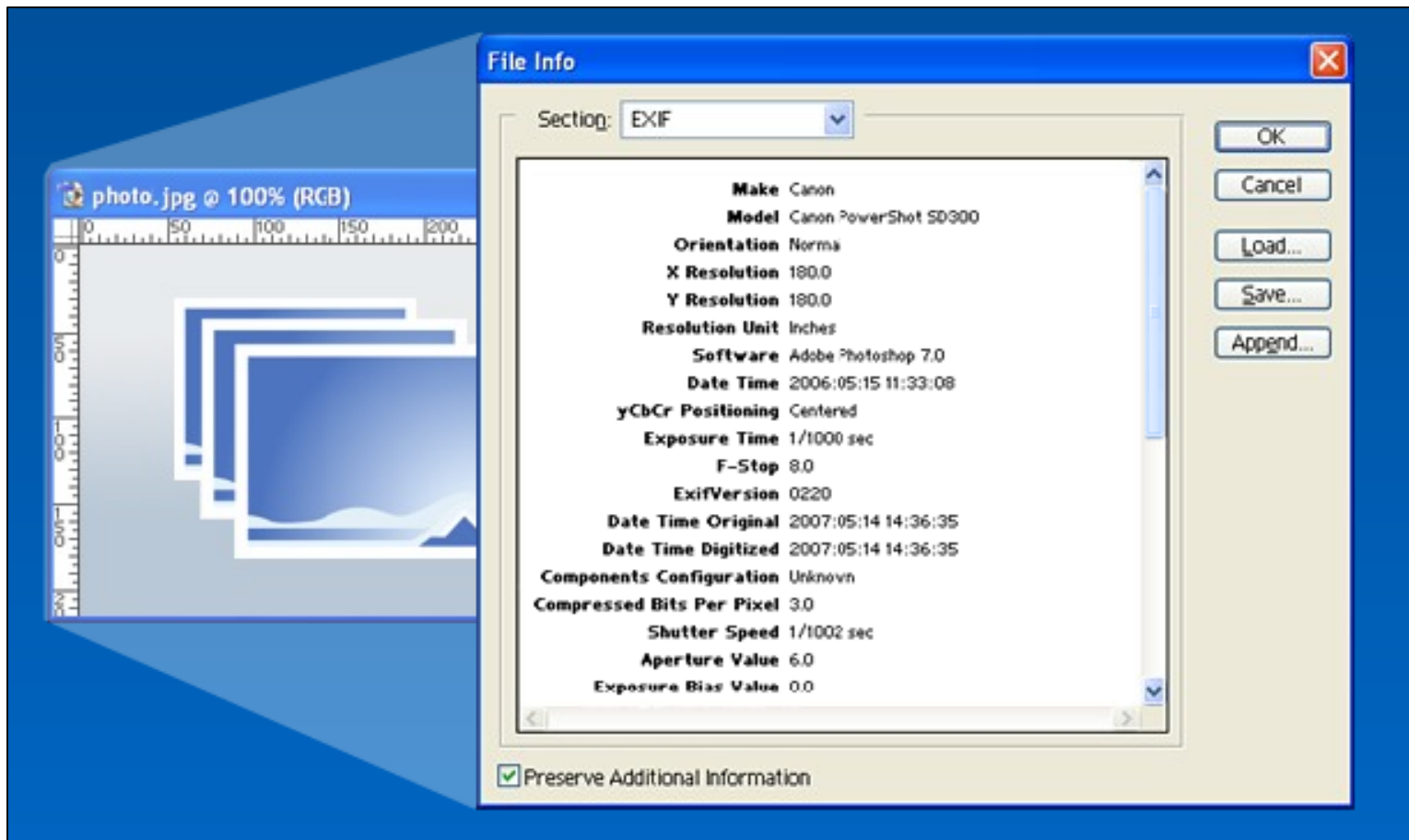
# Some options

- Artesia DAM
- DSpace
- Fedora
- OPACs
- DigiTool
- Plus...

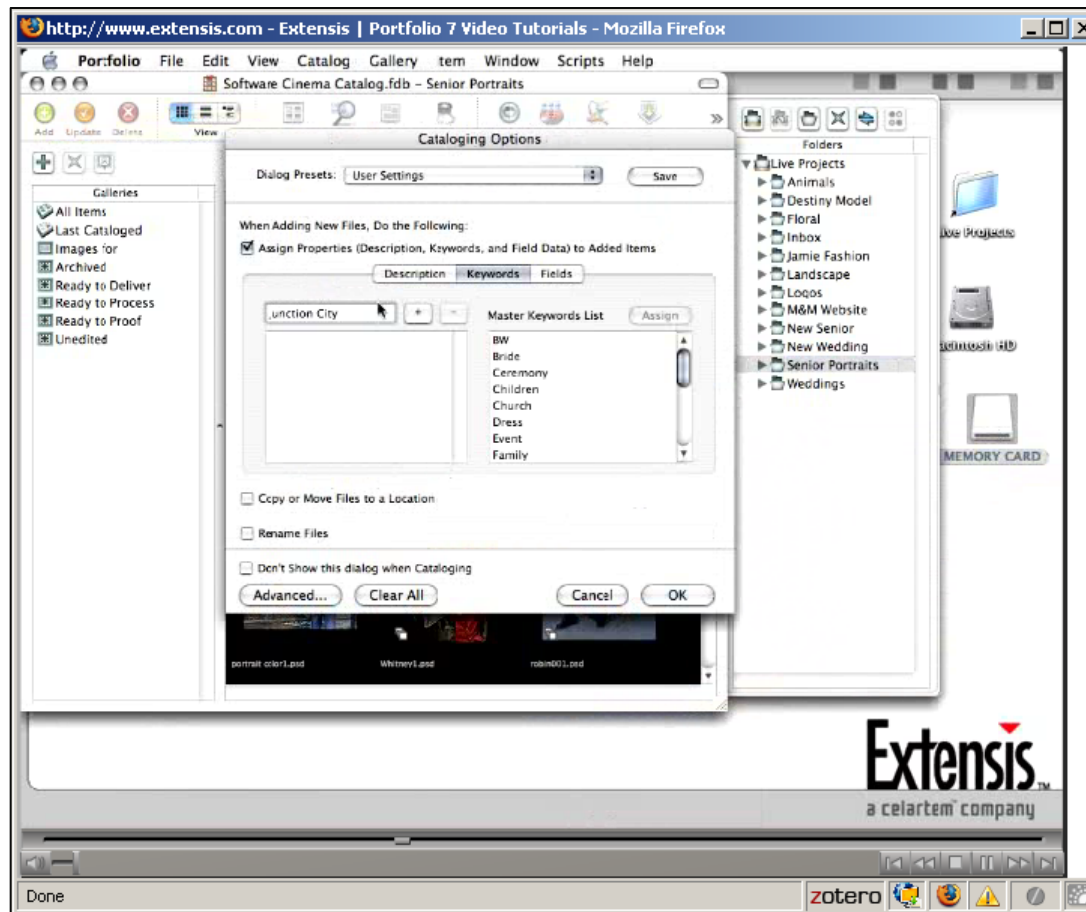
# Canto Cumulus metadata (1)



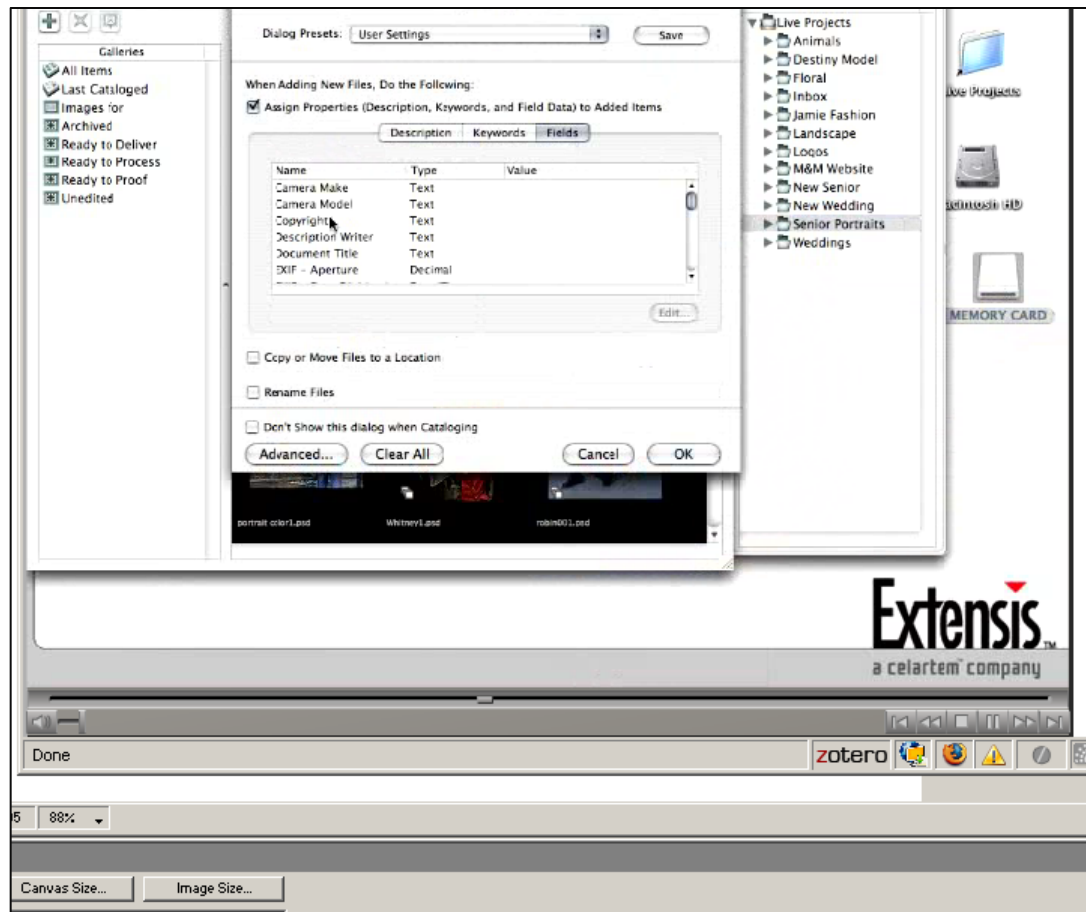
# Canto Cumulus metadata (2)



# Extensis Portfolio (1)



# Extensis Portfolio (2)





# CONTENTdm metadata

The screenshot shows the CONTENTdm Acquisition Station software interface. The window title is "CONTENTdm Acquisition Station" and it has a menu bar with "File", "Edit", "Import", "Tools", "Imaging", "Administration", and "Help". Below the menu bar is a toolbar with various icons. The main area displays a table of metadata for a project named "Project - New Project". The table has columns for "Icon", "Subject", "Description", "Creator", "Publisher", and "Contributors". There are 10 objects in the project, and the first row is highlighted. A tooltip is visible over the first row, stating "Click an image to view it or edit text in a new window." The bottom of the window shows "10 Objects" and buttons for "Hold", "Delete", and "Upload".

Icon	Subject	Description	Creator	Publisher	Contributors
	University of Washington	A long shot of the University of Washington's Allen Library.	Carol Martin	University of Washington <a href="http://www.washington.edu">http://www.washington.edu</a>	
	University of Washington	A long shot of the south entrance of the University of Washington's Allen Library. Shows an entrance with a sign.	Jim Barrett	University of Washington <a href="http://www.washington.edu">http://www.washington.edu</a>	
	University of Washington, campus, building, tree, leaves	A medium shot of the south entrance of the University of Washington's Allen Library. Shows an entrance with a sign.	Jim Barrett	University of Washington <a href="http://www.washington.edu">http://www.washington.edu</a>	
	University of Washington, campus, building, tree.	A medium shot of the south side of Anderson Hall. Includes trees.	Jim Barrett	University of Washington <a href="http://www.washington.edu">http://www.washington.edu</a>	
	University of Washington, campus, building, Architecture, trees	A medium shot of the front of Architecture Hall. Includes trees, steps, and people.	Jim Barrett	University of Washington <a href="http://www.washington.edu">http://www.washington.edu</a>	
	University of Washington, campus, building, trees, grass, spring, cherry	A wide shot of the Art Building on a sunny day during springtime.	Carol Martin	University of Washington <a href="http://www.washington.edu">http://www.washington.edu</a>	

# Iris metadata (1)

Orders Images Image Views Authorities List Web Resources VRMS List Display Publications Print List of Works

Begin Work  
Duplicate Work  
Relate to Other Works  
Delete Work

**IRIS 2005** M

Bard Graduate Center

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Work No.  Record Type  Label Title

RELATED WORKS

RELATED IMAGES

**Search** | Title | Agents | Location | Date/Period | Mat./Tech. | Measures | Texts | Subjects | Description | Notes

**CLASSES**

ID	Class	Category_imported
185	Expositions	<input checked="" type="checkbox"/>
102	Architecture	<input checked="" type="checkbox"/>
		<input checked="" type="checkbox"/>

Label Type:  Artist  Culture  Ms  
 Architect  Period  
 Geog  Didactic

Call No.   
Arch   
20th  
Expo

Category\_imported:   
Built Work:  Yes

Cataloger:   
Entry Date:   
Modifier:   
Modify Date:   
Institution:  P

**WORK TYPES**

ID	Work Type	Work Type Imported	Source	Work Type Context
5325	exhibition		AAT	<input checked="" type="checkbox"/>
4274	Promenade		AAT	Walkway <input checked="" type="checkbox"/>

**REFERENCE IDENTIFIER**

Reference	Reference Abbreviation	Reference ID	ID Type	Reference Detail
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Reference Name:   
Source:  P Source Detail:

**WORK RECORD SOURCE** [Use only if entire work record is based on a single source.]

Source	Source Display	Source Detail	Date
<input type="text" value="P 4381"/>	<input type="text" value="Brunhammer, Yvonne, Arts décoratifs des années 20, Seuil : Regard, 1991."/>	<input type="text"/>	<input type="text"/>

**WORK SUMMARY DISPLAY** [Build at end] Loop

1925 Exposition Internationale des Arts Décoratifs et Industriels Modernes, Esplanade des Invalides; exhibition; Art Deco; Creation date: 1925; French. Former location: 1925 Exposition Internationale des Arts Décoratifs et Industriels Modernes (Paris, Ile-de-France, France).

Export Date:   
Temporary flag:   
Approved:   
Original Work No:   
Originating Institution:

Go to SETS for SETS: **IMAGES**  Scroll down

old\_Citations (Migrate to Reference or Description.)

[Scroll to Top](#)



# Snapdragon metadata

Works Orders List New Find Menu

Resources	Styles/Periods	Techniques	Topics	Viewtype	Objects	
Classification	Cultures/SP	Didactic	Events	Geography	Materials	Names

**Hierarchy**

- World
- Europe
- Italy
- Veneto
- Venice
- Castello

**Place Name Preferred** DO NOT USE **Abbreviations Place Type**  
Castello Sestiere

**Place Name Display**  
Castello, Venice, Italy

**Usage Note**  
Venice is divided into six major areas, called sestieres, of which Castello is one.

**Variants**

**Children**

**Associated Events**

**Associated Cultures**

**Associated Styles/Periods**

**Associated Names** ( )

**Associated Subjects** ( )

**Associated Works** (18)

Arsenale	wrk103291	👉
Row houses near church of	wrk121412	👉
San Giorgio degli Schiavoni	wrk113168	👉
Scuola Grande di San Marco	wrk112076	👉
Santa Maria Formosa	wrk113121	👉
San Giovanni in Bragora	wrk105129	👉
San Francesco della Vigna	wrk100171	👉
Santi Giovanni e Paolo (San	wrk105128	👉
S. Giuliano, Cappella del	wrk112046	👉
San Giovanni di Malta	wrk121427	👉

**Coordinates**

Latitude 1  Units

Longitude 1

Latitude 2  Units

Longitude 2

**Modify Hierarchy**

Add new layer to hierarchy

Add below current record Add above current record

Move this record and its children to another place in the hierarchy

ent 6/27/05 by mhkenne mod 3/10/07 by elanzi inst smith rev  vocab TGN  voc ref id 7003034 id agn07456

# MDID metadata

<p>My Slideshows My Favorites My Images Options</p> <p>Resources Slideshows Browse Search Collection Overview Downloads</p> <p>Information Announcements About</p> <p>Copyright © 1997-2007 <a href="#">JMU</a></p>	<b>Editor</b>
	<a href="#">Back</a> <a href="#">Create new image</a>
	<input type="button" value="Save Changes"/> <input type="button" value="Discard Changes"/> <input type="checkbox"/> Select Image
	<b>Collection:</b> Personal Images
	<b>Title:</b> <input type="text"/> - +
	<b>Creator:</b> <input type="text"/> - +
	<b>Subject:</b> <input type="text"/> - +
	<b>Description:</b> <input type="text"/> - +
	<b>Publisher:</b> <input type="text"/> - +
	<b>Contributor:</b> <input type="text"/> - +
<b>Date:</b> <input type="text"/> - +	
Year <input type="text"/> to <input type="text"/>	
<b>Type:</b> <input type="text"/> - +	

# Almagest metadata

**Almagest** **Balis: Syrian Archaeology Project**

**CREATE NEW IMAGE**

**New Image Record**

Please enter the data for the new database record into the spaces provided below.

**Notes:**

- Fields preceded by a \* are required.
- Sorting String will be filled in automatically if you leave it blank.
- If you need accented characters and can't type them directly, here is a [list of special characters](#) that you can cut-and-paste.

FIELD	VALUE
*MIME_TYPE	JPEG Image
*OBJTYPE_NAME	image
Title	<input type="text"/>
Slide Specific	<input type="text"/>
Description	<input type="text"/>
Key Words	<input type="text"/>
Related Terms	<input type="text"/>
Related Slides	<input type="text"/>
Copyrights	<input type="text"/>
Photo source	<input type="text"/>
Page number from source	<input type="text"/>
Sorting String	<input type="text"/>

Content Data:

Data file to upload:

# VCat work

VireoCat\_v3

Browse

Layout: Work

Record: 1  
Total: 1  
Unsorted

Agent Sort Name	Agent Role	Agent Extent	Agent Attribution
3	ACT Architecture	architectural firm	renovation
1	Aulenti, Gaetana	architect	interior design
2	Laloux, Victor Alexandre Frédéric	architect	original building

AgentNote  
ACT Architecture (Renaud Bardon, Pierre Colboc and Jean-Paul Philippon)

Agent Display  
ACT Architecture (French architectural firm, ca. 1982-present); Gaetana Aulenti (Italian interior designer, born 1927); Victor Alexandre Frédéric Laloux (French architect, 1850-1937)

Refresh

Measure	Unit	Type	Extent	Measurement Display
32	m	height	Great Hall	32 x 40 x 138 m (length, Great Hall)
40	m	width	Great Hall	
138	m	length	Great Hall	

Refresh

Titles

Musée d'Orsay	fre	repository	preferred
Gare d'Orsay	fre	former	alternate

Classification

5	architecture
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Work Types

863	buildings; exhibition buildings; museums; art museums
839	buildings; transportation buildings; railway buildings;

Style Period

Western: Nineteenth	5	Beaux-Arts
Twentieth and	48	Postmodern

Rights display

Culture

6	French
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Technique

3	construction
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Material Display  
glass; stone; cast iron; tile

Display	Earliest	Latest	Type
1898-1900	1898	1900	creation
1980-1986	1980	1986	alteration

Continent	Country	State/Region	City OR County	Site OR Building	RepositoryObjectID	Type
4	4	18	3	2		site
Europe	France	Île-de-	Paris	Musée d'Orsay		

100 Browse

# VCat image

VireoCat\_v3

Reshoot Request Date:   
Reshoot Return Date:

Work Number:   
RecordType:

Drive Name:   
Top Directory(s):   
Size Directory:   
Batch Directory:   
Image FileName:


Preview Image: 

Image Title Type:   
Item Title [View]:

Image Subject Heading:  Art museums

ImageTagging:

ImageDescription:

OriginalVendorID:   
Image Href:

Image Date:   
Date Type:

Image Rights:   
Source Institution:   
Collection:   
Subcollection:   
Photographer [Agent]:   
Technique:

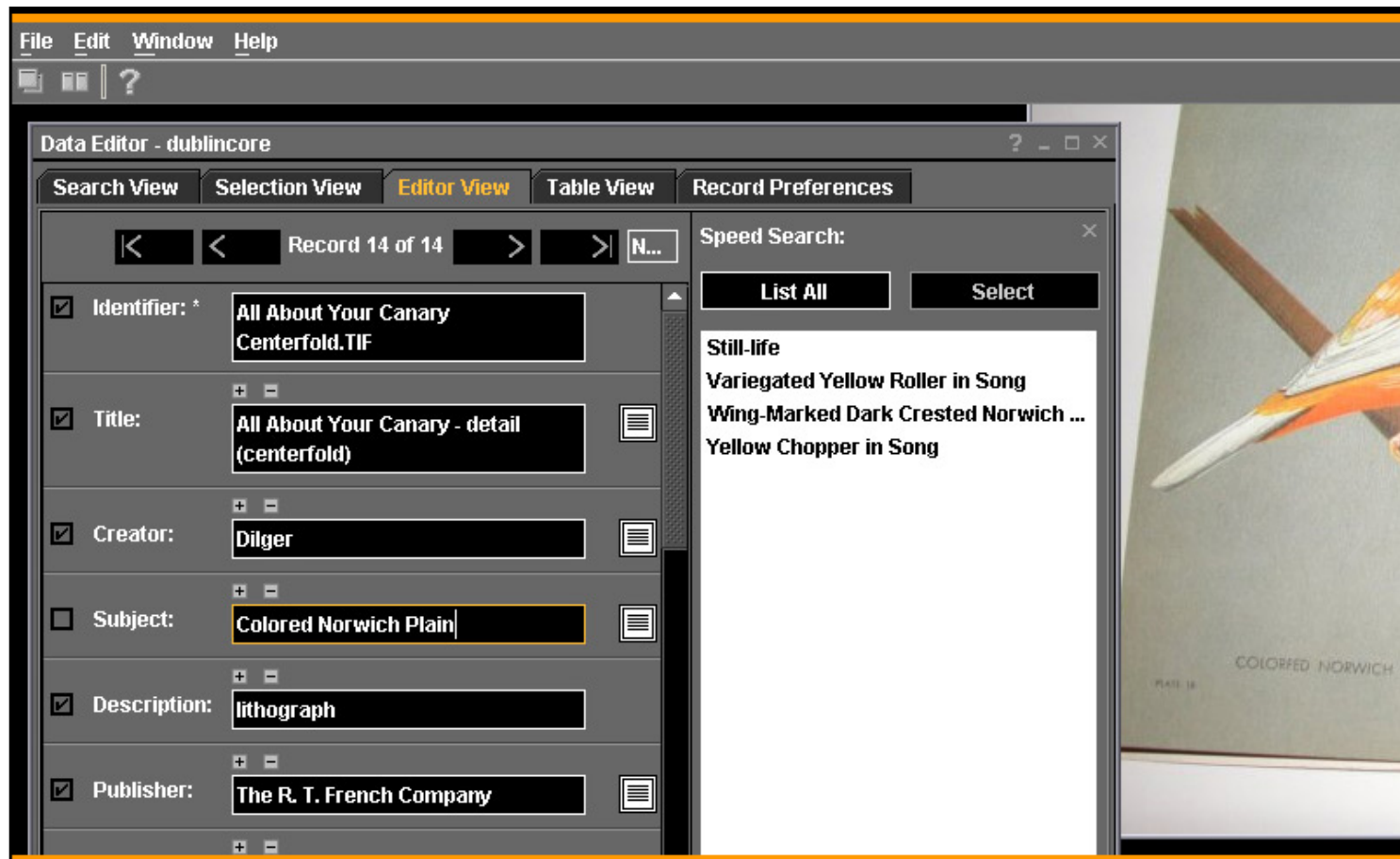
Type:   
Format:   
Size:

Art museum  
coffered  
skylight  
vault: barrel

100 Browse



# Insight metadata



# Discovery Tools

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# For end-users

- These are for our users; cataloging tools generally provide staff with the means to locate records
- Some decisions to make:
  - Search indexes
  - Browse indexes
  - Fields in brief and long displays
  - User-friendly labels

# Client vs. web-based

- Similar issues apply as to cataloging/metadata creation tools
- But client download/install can be a significant barrier for our end-users
- Client interaction can also make it more difficult for users to get content *out* of the system and into environments where they perform other tasks

# VR-specific vs. general

- Desired search/browse indexes and labeling can be different for VR materials than other types of material
- Who are your users and what other resources do they regularly use?

# Some options

- ARTstor hosting
- Artesia DAM
- Fedora
- Plus...

# OPAC example


Roger

UCSD Libraries Catalog  
You are searching all collections

[» Course Reserves](#)    [» My Library Account/Renew Items](#)

Start Over
Request
Save to List
MARC Display
«« Return to Browse
Modify Search

KEYWORD

▼

mary

All Collections

▼

Search

Only show available items (check box, click search)

Limited to: Material Type "SLIDES" 5072 results found. sorted by **relevance** | [date](#) | [title](#) .

[Next record »](#)

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Author            [Rego, Paula](#)

Title             Martha, **Mary** and **Mary** Magdalene: det.: left panel of triptych: Martha [slide]

Published        1999

**Search in Circuit  
(SD Libraries)**

**Link to online version below:**

[Connect to ARTstor. Restricted to UCSD IP addresses](#)

Location	Call number	Status
<a href="#">AAL Slide ConCirc</a>	<a href="#">376.1 R343Pa 999MMM (a)1</a>	<b>AVAILABLE</b>

Permanent link for this record: <http://roger.ucsd.edu/record=b4190711>

Description     pastel on paper mounted on aluminum 130 x 120 cm

Note(s)         Slide. color 35 mm Fuji film

Slides Subject   [Painting -- Portugal -- 20th C. A.D](#)

[Painters](#)

[Easel painting](#)

[Feminism](#)

[Triptychs](#)

[Women artists](#)

**Also look in**

[NextGen Melvyl Pilot](#)

[Amazon](#)

[Google Books](#)

 **Send by  
Text Message**

Demo: <http://roger.ucsd.edu/screens/mainmenu.html>

# Canto Cumulus web interface (1)













Cumulus Web Publisher Pro 7.5

File View Category Collection Asset

1 / 92

Categories 1,093 of 1,093 Records (1 selected) Unsorted Standard

- Flora Image Archive Demo
  - Geographic Order
  - Media Gallery
  - Taxonomic Order

					
File Format JPEG Image Rating	File Format JPEG Image Rating	File Format JPEG Image Rating	File Format JPEG Image Rating	File Format JPEG Image Rating	File Format JPEG Image Rating
Record Name <b>Spathodea cam</b>	Record Name <b>Artocarpus hete</b>	Record Name <b>Aloe arborescer</b>	Record Name <b>Taraxacum offic</b>	Record Name <b>Lonicera implexa</b>	Record Name <b>Prunus armenia</b>
					
File Format JPEG Image Rating	File Format JPEG Image Rating	File Format JPEG Image Rating	File Format JPEG Image Rating	File Format JPEG Image Rating	File Format JPEG Image Rating
Record Name <b>Rhododendron i</b>	Record Name <b>Calotropis gigan</b>	Record Name <b>Heliconia spec</b>	Record Name <b>Silphium marianu</b>	Record Name <b>Lysimachia spec</b>	Record Name <b>Fragaria x magn</b>



# Canto Cumulus web interface (2)

Cumulus Web Publisher Pro 7.5

File View Category Collection Asset

4 / 1093

Categories 1,093 of 1,093 Records (1 selected) Unsorted Standard

Flora Image Archive Demo

- Geographic Order
- Media Gallery
- Taxonomic Order

Record Name: Taraxacum officinale Wiggers


File Format: JPEG Image

Notes: ©Inana Stühler Syn.: Leontodon taraxacum L. Common Dandelion use: the roasted and ground roots are used for making "dandelion coffee"; the leaves can be used in salads, preferably blanched

Annotation:

Categories: North America, Europe, ASTERACEAE (=COMPOSITAE) (Sunflower or Daisy family), LEONTODON L. (Dandelion), PCD1052

Asset Creation Date: 3/5/99 11:48:23 AM

Thumbnail:  


Asset Reference: **Vault**  
62.169.6.248, Flora Image Archive Demo, 048.jpg

# DSpace

The screenshot shows a web browser window displaying the DSpace Digital Repository interface. The page title is "DSpace at SUNY: Items for Author - Mozilla Firefox". The header features the SUNY logo and the text "THE STATE UNIVERSITY of NEW YORK DIGITAL REPOSITORY".

On the left side, there is a search bar with the text "Search DSpace" and a "Go" button. Below the search bar are navigation links: "Home", "Communities & Collections", "Titles", "Authors", "Subjects", and "By Date". There is also a "Sign on to:" section with links for "Receive email updates", "My DSpace authorized users", "Edit Profile", "Help", and "About DSpace".

The main content area is titled "Items for Author 'Rembrandt van Rijn'". It includes a "Return to Browse by Author" link and sorting options: "Sort by Title" and "Sorting by Date". Below this, it states "Showing 50 items." and displays a list of items in a table format.

Issue Date	Title	Author(s)
2-Feb-2006	<a href="#">The Anatomy Lesson of Dr. Nicolaes Tulp</a>	Rembrandt van Rijn
2-Feb-2006	<a href="#">Self Portrait</a>	Rembrandt van Rijn
2-Feb-2006	<a href="#">Christ with sick around him, receiving little children (The Hundred Guilder Print')</a>	Rembrandt van Rijn
2-Feb-2006	<a href="#">Christ, Crucified between Two Thieves ('The Three Crosses')</a>	Rembrandt van Rijn
2-Feb-2006	<a href="#">The Syndics of the Drapers' Guild</a>	Rembrandt van Rijn
2-Feb-2006	<a href="#">Christ with sick around him, receiving little children (The Hundred Guilder Print')</a>	Rembrandt van Rijn
2-Feb-2006	<a href="#">The Anatomy Lesson of Dr. Nicolaes Tulp</a>	Rembrandt van Rijn
2-Feb-2006	<a href="#">The Night Watch</a>	Rembrandt van Rijn
2-Feb-2006	<a href="#">Self Portrait at the Easel</a>	Rembrandt van Rijn

The browser's status bar at the bottom shows the system tray with various icons and weather information: "Now: Mostly Sunny, 86° F", "Thu: 92° F", and "Fri: 86° F".

Demo: <http://dspace.sunyconnect.suny.edu/handle/1951/6640>

# CONTENTdm

**Art Images**
WU Login

preferences favorites help

[back to results](#)
[add to favorites](#)
[reference url](#)
[previous](#) [next](#)

12.5%

**Icon depicting the Crucifixion with the Virgin, Mary Magdalene, St. John and the Centurion Longinus**

This file is restricted.

<b>Title</b>	Icon depicting the Crucifixion with the Virgin, Mary Magdalene, St. John and the Centurion Longinus
<b>Style/Period</b>	Byzantine
<b>Notes</b>	Novgorod School
<b>Subject</b>	Painting; paintings
<b>Materials / Techniques</b>	tempera panel
<b>Measurements</b>	71x57 cm
<b>Height</b>	71
<b>Width</b>	57
<b>Units</b>	cm
<b>Repository</b>	Musée du Louvre Paris France
<b>Source</b>	XIR-201653; Bridgeman Art Library
<b>Identifier</b>	xir201653
<b>Rights</b>	(C) Bridgeman Art Library
<b>Use</b>	This image is licensed to Willamette University authorized users for personal study, research, and teaching. The image may not be distributed or published in print, electronic, or other formats for access outside of the educational institution.
<b>Order Number</b>	SR-8639

[back to results](#)
[add to favorites](#)
[reference url](#)
[previous](#) [next](#)

Demo: <http://libmedia.willamette.edu/cdm4/browse.php?CISOROOT=/art>

# DigiTool

The screenshot shows a Mozilla Firefox browser window displaying the Boston College Libraries Digital Collections search results. The search query is 'W-Subject= airplanes' in the 'Tip O'Neill Photos' collection, sorted by Title/Creator. The results show a single record with a thumbnail image of a man in a military uniform. The record details include:

- Object:** [Mike Mansfield and Thomas P. O'Neill de... - JPEG2000 Image (2 M)] and [Mike Mansfield and Thomas P. O'Neill de... - JPEG Image (32 K)]
- Title:** [Mike Mansfield and Thomas P. O'Neill deboarding Air Force One].
- Format:** 1 photographic print : col., ; image 21 x 26 cm.
- General notes:** Title supplied by cataloger. Forms part of the Thomas P. O'Neill Papers. Original photograph found in Box 35, Folder 16.
- Reproduction notes:** Electronic reproduction. Chestnut Hill, MA : Boston College, Burns Library 1998.
- Use Restrictions:** Prior written permission required to use any photograph from the Burns Library collections.
- Subject:** [Mansfield, Mike,--1903-](#), [O'Neill, Tip.](#), [Airplanes.](#), [Legislators--United States.](#)
- Publisher:** [198-?].

The browser window also shows the search interface with options for 'Brief view', 'Table view', and 'Full view', and a 'Sort by' dropdown menu set to 'Title'. The status bar at the bottom indicates the current time and weather conditions.

Demo: <http://tinyurl.com/3wrf2d>


# Almagest search

EDUCATIONAL TECHNOLOGIES CENTER  
**Almagest** **Balis: Syrian Archaeology Project**

**OBJECT SEARCH**

<p>Select Project Searches Lectures Editing Tools Preferences Project Home</p>	<p>search for Name: <input style="width: 100%;" type="text"/></p> <p>search for Creator: <input style="width: 100%;" type="text"/></p> <p>(no Catalog Headings to select from) <b>Select Catalog Heading(s):</b>  <input style="width: 100%; height: 30px;" type="text"/></p> <p>or search for Catalog Heading:  <input style="width: 100%;" type="text"/></p> <p>search for Period: <input style="width: 100%;" type="text"/></p> <p>search for Acquisitionnum:  <input style="width: 100%;" type="text"/></p> <p>search for ID: <input style="width: 100%;" type="text"/></p>	<p>search for Alt. Description:  <input style="width: 100%;" type="text"/></p> <p>search for Function:  <input style="width: 100%;" type="text"/></p> <p>search for Location:  <input style="width: 100%;" type="text"/></p> <p>search for Related Term:  <input style="width: 100%;" type="text"/></p>
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(Nota bene: please be sure you have searched the database for similar records before adding a new one.)



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this website maintained by  
etc@Princeton.EDU

# MDID search results

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## Search Results

Show  records per page, sorted by . Show  information.

[Back to Search](#) [Select All on Page](#) Filter by keyword:

<< < Page 1 of 1 (4 records found) > >>

	<p><b>Collection</b> Battles and Leaders of the Civil War</p> <p><b>Original Caption</b> "An affair of outposts"</p> <p><b>Chapter Title</b> McClellan in West Virginia.</p> <p><b>Illustrator</b> Taber, Isaac Walton</p> <p><input type="checkbox"/> Selected</p> <p><input type="checkbox"/> Favorite</p> <p> </p>	<p><b>Subject</b> United States</p> <p><b>Subject</b> History</p> <p><b>Subject</b> Civil War, 1861-1865</p> <p><b>Subject</b> Pictorial works</p> <p><b>Medium</b> engraving</p>
	<p><b>Collection</b> Battles and Leaders of the Civil War</p> <p><b>Original Caption</b> A detachment from General Floyd's command preparing to shell General Rosecrans's camp at Gauley Bridge.</p> <p><b>Chapter Title</b> McClellan in West Virginia.</p> <p><b>Illustrator</b> Sheppard, William Ludwell</p> <p><input type="checkbox"/> Selected</p> <p><input type="checkbox"/> Favorite</p> <p> </p>	<p><b>Subject</b> United States</p> <p><b>Subject</b> History</p> <p><b>Subject</b> Civil War, 1861-1865</p> <p><b>Subject</b> Pictorial works</p> <p><b>Medium</b> engraving</p>
	<p><b>Collection</b> Battles and Leaders of the Civil War</p> <p><b>Original Caption</b> Cadet of the Virginia Military Institute in marching outfit.</p> <p><b>Chapter Title</b> The Battle of New Market</p> <p><b>Event Reference</b> Battle of New Market, May 15, 1864</p> <p><input type="checkbox"/> Selected</p> <p><input type="checkbox"/> Favorite</p> <p> </p>	<p><b>Subject</b> United States</p> <p><b>Subject</b> History</p> <p><b>Subject</b> Civil War, 1861-1865</p> <p><b>Subject</b> Pictorial works</p> <p><b>Medium</b> engraving</p>

# Luna Insight image viewer

*insight™*



*Hoover Institution Archives Poster Collection*  
SELECTED RUSSIAN POSTERS

*Hoover Institution Archives Posters*

**Descriptive Data**

Information | File Data

Hoover Institution Archives Posters ?

**Collection:** Hoover Institution Poster Collection

**Record Type:** Work

**Type:** Posters

**Title:** Verkhovnyi glavnokomanduiushchi Ego Imperatorskoe Vysochestvo Velikii Kniaz' Nikolai Nikolaevich.

**Measurements:** 17 x 13 in.

**Material:** Paper (fiber product)

				
5-ia tipo-litografiia "I Dar amerikanskogo RU/SU 502A 1921-1923?	5-ia tipo-litografiia "I Dar amerikanskogo RU/SU 502B 1921-1923?	Deni, Viktor N. (Artis V podpol'e. Ni kuda RU/SU 2194 1945.	Deni, Viktor N. (Artis Oktiabr'skii uragan . RU/SU 1813 1932.	Deni, Viktor N. (Artis Oktiabr'skii uragan . RU/SU 1814 1932.
				
Gosudarstvennoe izdanie. Chtenie odna iz obia RU/SU 832 1917-1924?	Gosudarstvennoe izdanie. Da zdravstvuet soln RU/SU 666 1921.	Gosudarstvennoe izdanie. V. Ul'ianov. RU/SU 788 1920?	Gosudarstvennoe izdanie. Vrag u vorot! Vse n RU/SU 1320 1917-1922?	Gosudarstvennoe izdanie. Vrag u vorot! Vse n RU/SU 1321 1917-1922?

# Data sharing

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Summer Educational  
Institute for Visual  
Resources and Image  
Management

July 11, 2008



# Shareable metadata isn't just about OAI-PMH

- Some other options:
    - Lightweight APIs (e.g., OpenLibrary)
    - Google SiteMaps
    - OpenSearch
    - OpenURL
    - SRU
    - OAI-ORE
    - Linked data
  - Jim Michalko, RLG: library data sharing mechanisms are “high value and low participation”
- Notice Z39.50 isn't on this list.*

# Sharing VR data

- This community doesn't have a strong tradition of sharing
  - Rights to content have been one big barrier
  - Relatively recent development of descriptive standards is another
- Can't we share work data?
  - UCAI tried to do this
  - Is it time to try again?
- What if we took the plunge to share and just waited to see what would happen?

# Presentation Tools

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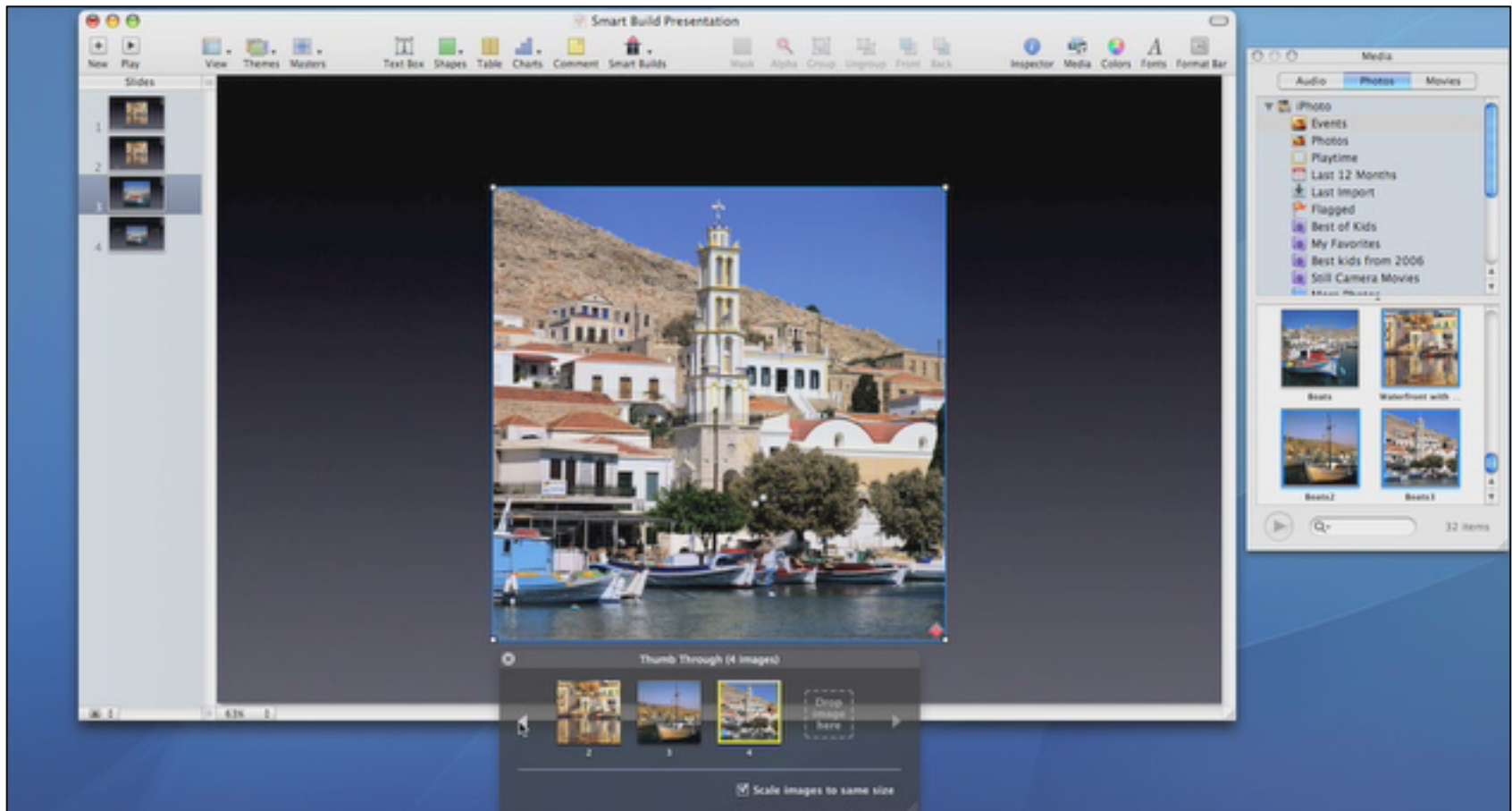
# Generally client applications

- Highly interactive nature makes these the last tools to move to the web
- Often requires a time investment on the part of the user
  - But can pay off with significant benefits
- Both general and VR-specific tools exist

# Some options

- Powerpoint
- CONTENTdm Powerpoint plugin
- Plus...

# Keynote



# Almagest presentation tools

The screenshot displays the 'Lecture Builder - View Lectures' interface in Microsoft Internet Explorer. The browser title bar reads 'Lecture Builder - View Lectures - Microsoft Internet Explorer'. The page header includes 'EDUCATIONAL TECHNOLOGIES CENTER' and the 'Almagest' logo. The breadcrumb navigation shows 'BALIS > LectureBuilder > Manage Lectures'. A menu bar contains 'File', 'Edit', 'View', 'Insert', 'Tools', and 'Help'. Below the menu is a 'Create New Lecture' button and a 'Back/Close Window' button.

The main content area features a table with the following data:

		✓ #	Title	Type	Created Date	Modified Date	Start Date	End Date	# Pages
<input type="checkbox"/>		1	Slides from Tom	lecture	01/01/2000	09/09/2004	01/01/2001	no limit	92
<input type="checkbox"/>		2	Artifacts	lecture	08/06/2004	09/09/2004	08/06/2004	08/06/2005	1

Overlaid on the bottom right is a 'New Lecture' dialog box. The dialog title is 'Lecture Builder - New lecture - Microsoft Intern...'. It contains the following fields and options:

- Title:** New lecture for project BALIS
- #:** 3
- Type:** lecture
- Images Per Page:** 2
- User Access Date Range:**
  - Not Available
  - Available After: 09/09/2004
  - Available Until: [empty]
- Lecture ID:** BALIS -- 2
- Current User:** phulick
- Created By:** phulick
- Created Date:** 08/09/2004
- Modified Date:** 09/09/2004


At the bottom of the dialog are 'Create New' and 'Cancel' buttons.

# MDID image viewer

MDID MADISON DIGITAL IMAGE DATABASE 2 JAMES MADISON UNIVERSITY  
SLIDESHOW PROPERTIES LOG OUT HELP

Slide 1 Info Notes

**Title:** Trooper of the Virginia Cavalry, 1861.  
**Collection:** Battles and Leaders of the Civil War  
**Original Caption:** Trooper of the Virginia Cavalry, 1861.  
**Chapter Title:** Stuart's Ride Around McClellan.  
**Volume and Page Reference:** Volume 2, p. 271  
**Event Reference:** Peninsular Campaign, March - July, 1862  
**Illustrator:** Redwood, Allen Christian  
**Lifespan of Illustrator:** 1844-1922  
**Nationality:** U.S.  
**Subject:** United States  
**Subject:** History  
**Subject:** Civil War, 1861-1865  
**Subject:** Pictorial works  
**Medium:** engraving  
**Dimensions:** 8.85 x 6.3 cm.  
**Source:** Battles and leaders of the Civil War : being for the most part contributions by Union and Confederate officers ; based upon "The Century War series" / edited by Robert Underwood Johnson and Clarence Clough Buel, of the editorial staff of "The Century Magazine" New York : The Century Co., 1887



1 / 4

"Virginia" Jenn Riley (6/24/2008)



# Insight presentation tool

The screenshot displays the Insight presentation tool interface. The main slide features a historical illustration of the Statue of Liberty on a pedestal, with the text "A Guide to New York City issued by NEW YORK CENTRAL LINES" below it. The interface includes a thumbnail gallery on the left, a metadata sidebar on the right, and a control bar at the bottom.

**Presentation: Untitled1 \***  
Group: New York Images

**Information** | **File Data**

**David Rumsey Collection**

**Subject:** Railroad

**Full Title:** (Covers to) A guide to New York City issued by New York Central Lines. (on verso) Rand McNally & Co., New York. (with map) The heart of New York Grand Central Terminal. Only railway station on the subway, elevated and surface lines. New York Central Lines. Copyright, by Rand, McNally & Co., 1918, New York & Chicago. (on verso) New York Central Lines ... The Matthews-Northrup Works, B...

**List No:** 5285A

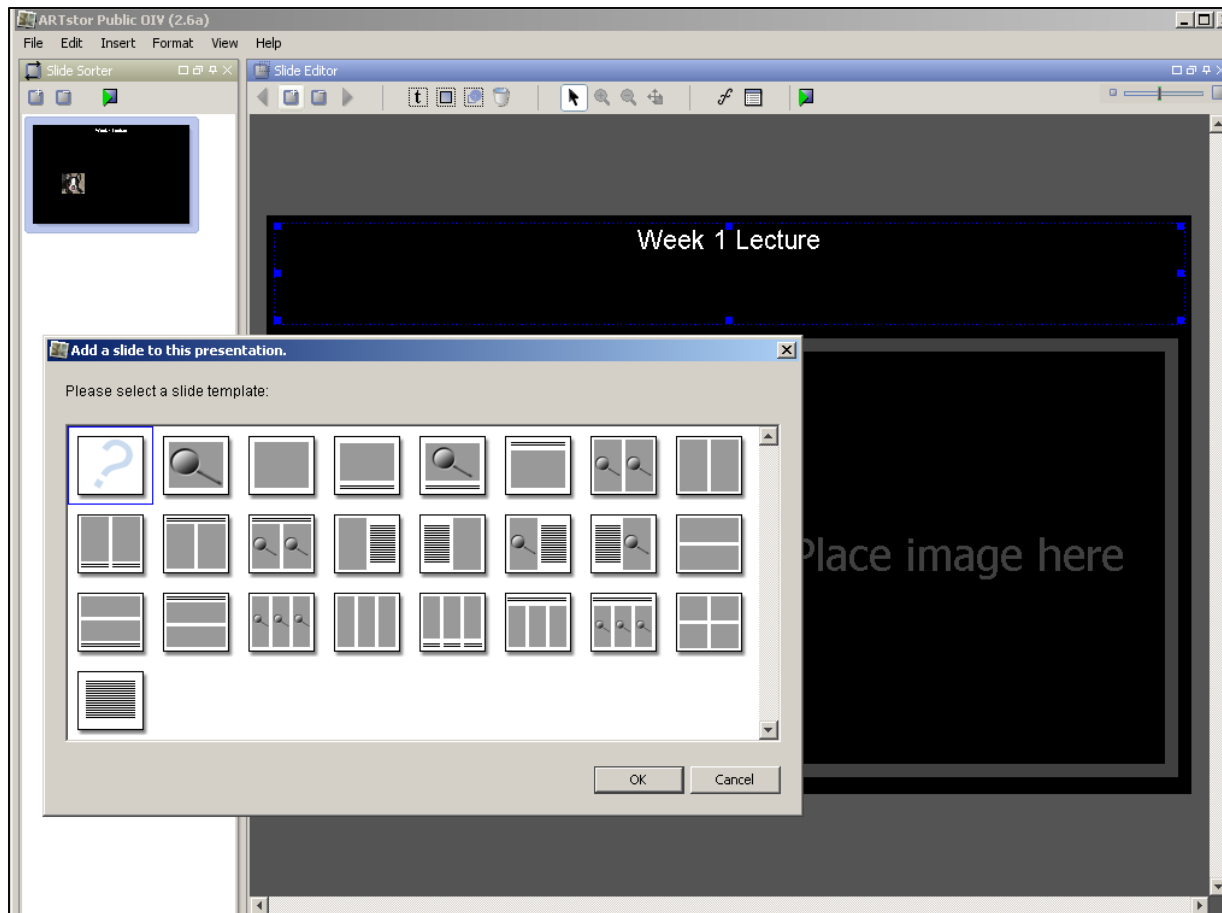
**Series No:** 1

**Enclosure:** 1

copy | cut | restore | unlink | link  
data | save | save and close

Hide link icons.

# ARTstor Offline Image Viewer



# Collectus

The screenshot displays the Collectus software interface. On the left, a menu is open over a gallery of three images. The first image, which is highlighted with a yellow border, is a photograph of the Mather Tower in Chicago. The menu options are: View Object (Ctrl+V), Create Web Pages... (Ctrl+W), and Slide Show. The main window on the right shows the selected image and its associated metadata.

**Collectus** Mather Tower above new bldgs along Chgo river

File Edit View Tools Help

Default Image View Object Ctrl+V  
Create Web Pages... Ctrl+W  
Slide Show

Mather Tower above new bldgs along Chgo river

**title:** Mather Tower above new bldgs along Chgo river  
**title:** Mather Tower  
**creator:** Cushman, Charles Weever, 1896-1972  
**subject:** Buildings  
**subject:** Cupolas  
**subject:** Windows  
**subject:** Towers  
**subject:** Clouds  
**subject:** Mather Tower (Chicago, Ill.)  
**subject:** Chicago River (Ill.)  
**publisher:** Indiana University. Digital Library Program  
**publisher:** Indiana University, Bloomington. University Archives  
**date:** 1958-10-04  
**type:** Architectural photographs  
**type:** StillImage  
**type:** Image  
**format:** image/jpeg  
**format:** 35mm slide  
**identifier:** Cushman number: 1958.34  
**identifier:** IU Archives number: P10271  
**identifier:** http://purl.dlib.indiana.edu/iudl/archives/cushman/P10271  
**source:** Indiana University, Bloomington. University Archives P10271  
**relation:** isPartOf http://www.dlib.indiana.edu/collections/cushman/  
**coverage:** Chicago, Illinois, United States (Cook county)  
**rights:** http://purl.dlib.indiana.edu/iudl/archives/cushman/rights

# Whew.

- And these aren't even all the choices!
- Start by outlining in detail your requirements
  - Metadata
  - Discovery functions
  - Image use
- You'll need to compromise...

...but at least then you'll be making an informed decision

# Thank you!

- [jenlrile@indiana.edu](mailto:jenlrile@indiana.edu)