

# Centralized Digital Media: The Advantages of a Learning Object Repository

Alex Martinez

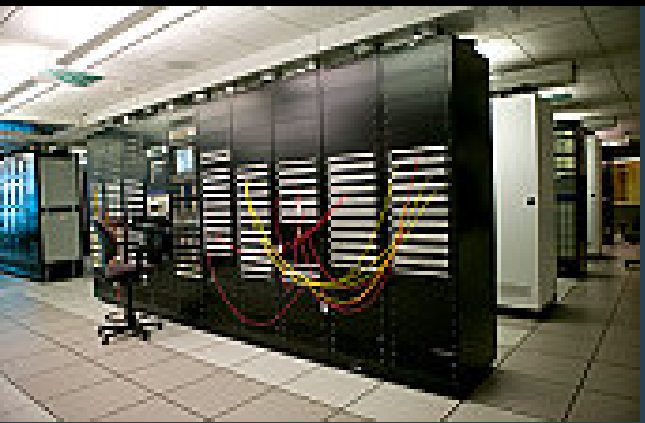
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Presentation located at: <http://portfolio.du.edu/alexmart>

Click "Presentations"



## Search Repository

\* Search for:

\* Media Type:

☒ Video

☒ Image

☒ Audio

Search

# Discussion Topics

- What is a learning object repository?
- Storage
- Cataloging
- Delivery
- Copyright
- Questions

# What is a *learning object*?

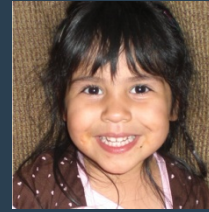
Learning Objects are defined here as any entity, digital or non-digital, which can be used, re-used or referenced during technology supported learning.

(IEEE, 2002)

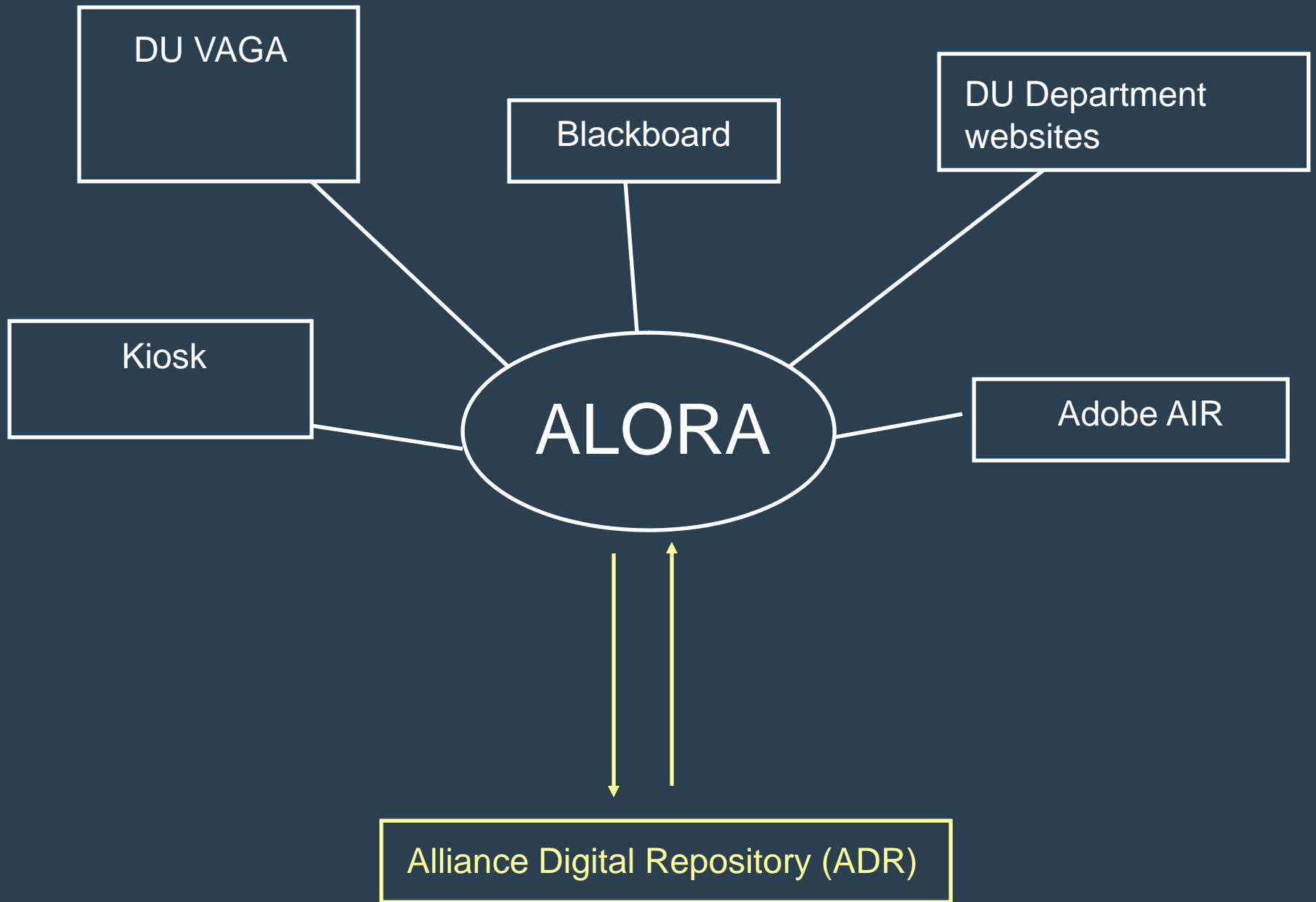
# What is a *learning object repository*?

A learning object repository is storing content/assets/resources as well as their metadata record.

# Why Dad?



- Centralization
- Searchable
- Format Standards
- Quality Control
- Reusability (example)





Kiosk Home



DUVAGA Home



Turkmenistan family 2



## Image Data

### Artist:

Fridlyand, Semyon

### Date:

unknown

### Description:

Turkmenistan family sitting outdoors, young son in the middle, with right arm outstretched, between mother and father.

### Art Type:

Photo

### Work Type:

color negative

### Repository:

The Semyon Fridlyand Archive at the University of Denver

### Material Display:

color negative

### Material Item:

color negative

### Measurements:

120 film

### Subject:

Socialist Realist

### Subject:

Soviet Union

### Subject:

Turkmenistan

### Subject:

families



# Storage

- Hitachi SAN system
- Metadata lives in a MySQL 5.0 database  
(85 MB)
- 1213 video titles
- 30,353 image titles
- 709 audio titles
- Currently using 2 terabytes: A terabyte (TB) is  
1,024 gigabytes (GB)

# Cataloging

Name	Size	Type	Date Modified
pgb0363.tif	18,426 KB	TIF File	4/7/2008 1:22 PM
pgb0365.tif	18,425 KB	TIF File	4/7/2008 1:22 PM
pgf0061.tif	10,732 KB	TIF File	4/7/2008 1:08 PM
pgf0076.tif	17,302 KB	TIF File	4/7/2008 1:08 PM
pgf0076a.tif	18,376 KB	TIF File	4/7/2008 1:10 PM
pgf0095.tif	10,612 KB	TIF File	4/7/2008 1:08 PM
pgf0210.tif	15,122 KB	TIF File	4/7/2008 1:08 PM
pgf0211.tif	18,254 KB	TIF File	4/7/2008 1:08 PM
pgf0227.tif	16,276 KB	TIF File	4/7/2008 1:08 PM
pgf0231.tif	14,862 KB	TIF File	4/7/2008 1:08 PM
pgf0258.tif	10,356 KB	TIF File	4/7/2008 1:08 PM
pgf0258a.tif	17,794 KB	TIF File	4/7/2008 1:08 PM
phf0003.tif	14,710 KB	TIF File	4/7/2008 1:08 PM
phf0010.tif	15,330 KB	TIF File	4/7/2008 1:08 PM
pmx0001.tif	18,072 KB	TIF File	4/7/2008 1:28 PM
pmx0004.tif	18,072 KB	TIF File	4/7/2008 1:28 PM
pnf0298.tif	13,309 KB	TIF File	4/7/2008 1:24 PM
ppf0050.tif	17,159 KB	TIF File	4/7/2008 1:08 PM
prf0019.tif	11,803 KB	TIF File	4/7/2008 1:08 PM
prf0057.tif	18,410 KB	TIF File	4/7/2008 1:09 PM
psb0028.tif	16,920 KB	TIF File	4/7/2008 1:08 PM
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psd0006.tif	18,033 KB	TIF File	4/7/2008 1:09 PM
psf0005.tif	13,849 KB	TIF File	4/7/2008 1:09 PM
psf0020.tif	17,957 KB	TIF File	4/7/2008 1:09 PM
psf0050a.tif	12,955 KB	TIF File	4/7/2008 1:09 PM
psf0150a.tif	15,088 KB	TIF File	4/7/2008 1:09 PM
psf0164.tif	16,058 KB	TIF File	4/7/2008 1:09 PM
psf0165a.tif	18,434 KB	TIF File	4/7/2008 1:09 PM
psf0167.tif	15,088 KB	TIF File	4/7/2008 1:09 PM
psf0183.tif	15,952 KB	TIF File	4/7/2008 1:09 PM
psf0184.tif	17,953 KB	TIF File	4/7/2008 1:09 PM
psf0202.tif	14,923 KB	TIF File	4/7/2008 1:09 PM
psf0203a.tif	18,462 KB	TIF File	4/7/2008 1:09 PM
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psf0212.tif	15,695 KB	TIF File	4/7/2008 1:09 PM
psf0213.tif	17,757 KB	TIF File	4/7/2008 1:09 PM
psf0214.tif	15,727 KB	TIF File	4/7/2008 1:09 PM
psf0215.tif	17,622 KB	TIF File	4/7/2008 1:10 PM
psp0102.tif	18,428 KB	TIF File	4/7/2008 1:24 PM

- Learning Objects are useless if you don't know what they are!
- Learning Objects are useless if students and instructors can't find them!



Digital Assets are obviously important,  
but information *about* the objects is  
equally important!

## **Good metadata allows for**

- Access and retrieval
- Object preservation
- Rights management

# What Kind of Data is Needed?



**Common Name(s):** Tufted hairgrass

**Scientific Name:** *Deschampsia*  
*caespitosa* (L.) Beauv.

**Symbol:** DECA18

**Life Span:** Perennial

**Origin:** Native

**Season:** Cool

**Growth Characteristics:** A densely tufted, rather short-lived bunchgrass, growing 2 to 4 feet tall. It starts growth early in the spring, flowers from July to September, seeds mature August to September. It reproduces from seeds and tillers.

**Seedhead:** Open, erect to nodding panicle, 4 to 8 inches long; panicle branches hairlike, spreading, 1 to several per rachis node; spikelets about 1/8 inch long, it contains 2 dark brown to black florets...

(from [Range Plants of Utah Index](#), Utah State University)





**Artist:** Karen E. Kitchel

Artist Nationality: American

Artist Life Dates: Born 1957

**Title:** *American Grasslands*

**Medium:** oil on wood

**Dimensions:** twenty 12 x 12" panels

**Creation Date:** 1997

**Repository:** Denver Art Museum

**Subjects:** plants, grasses

**View Description:** three of 20 panels

(from [Denver Art Museum website](#))

Element Name	Sub-Elements & Attributes
<a href="#">ALBUM TITLE</a> 367	
<a href="#">TITLE</a> 345	
<a href="#">CREATOR</a> 346	
<a href="#">SUBJECT</a> 347	
<a href="#">DESCRIPTION</a> 348	
<a href="#">INSTRUCTOR</a> 349	
<a href="#">COMPOSER</a> 368	
<a href="#">FORMAT</a> 350	
<a href="#">DATE</a> 351	
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<a href="#">PUBLISHER</a> 353	
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<a href="#">DATE</a> 184	
<a href="#">CONTRIBUTOR</a> 181	
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<a href="#">RELATION</a> 190	
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<a href="#">COVERAGE</a> 182	

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<a href="#">DATE</a> 336	
<a href="#">DESCRIPTION</a> 337	

## MUSIC SCHOOL

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<a href="#">TITLE</a> 82	<a href="#">pref</a> 83 <a href="#">titletype</a> 84
<a href="#">VIEW DESCRIPTION</a> 85	<a href="#">viewdescriptiontype</a> 343
<a href="#">DATE</a> 59	<a href="#">type</a> 60 <a href="#">EARLIEST DATE</a> 61: <a href="#">LATEST DATE</a> 62:
<a href="#">WORK TIME PERIOD</a> 375	
<a href="#">STYLE PERIOD</a> 77	
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<a href="#">WORK TYPE</a> 99	
<a href="#">REPOSITORY</a> 66	<a href="#">repositorytype</a> 67 <a href="#">repositoryrefid</a> 339
<a href="#">COLLECTION NAME</a> 340	
<a href="#">GEOGRAPHIC LOCATION</a> 100	<a href="#">geographiclocationtype</a> 341
<a href="#">MATERIALS</a> 69	
<a href="#">MATERIAL ITEM</a> 342	<a href="#">materialitemtype</a> 70
<a href="#">TECHNIQUE</a> 80	
<a href="#">MEASUREMENTS</a> 71	

## SCHOOL OF ART AND ART HISTORY IMAGES

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<a href="#">CREATOR</a> 346	
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## SCHOOL OF ART AND ART HISTORY IMAGES

## Search Repository

\* Search for:

in

Title

\* Media Type:

☒ Video

☒ Image

☒ Audio

Search

Title  
Creator  
Subject  
Description  
Instructor  
All Fields

\* = Required

### Search Options:

- DU VAGA gives you a variety of search options to find media for your gallery.
- Art History has an advanced search page for searching art history images.
- Video provides you a list and a browse page to access videos.
- Audio offers you a list of our new audio collection.
- Instructors Galleries allows you to view other instructors galleries.

### Boolean Search Tips:

- water lilies = Finds records that contain "water" AND "lilies".
- apple\* = Finds records that contain words such as "apple", "apples", "applesauce", or "applet".
- PicLens is a free download that allows you to browse your search results in an innovative way. Click on the PicLens icon to download.



[Search](#)[Art History](#)[Video](#)[Audio](#)[Instructor Galleries](#)[Browse History](#)

## Art History Image Search

Artist Name:

Title:

Subject:

Material:

All Fields:

Art Type:

Time Period:

Artist Nationality:

Repository:

Instructor:

Sort by:

[Search](#)[Art History](#)[Video](#)[Audio](#)[Instructor Galleries](#)[Browse History](#)

## Art History Image Search

Artist Name:

Title:

Subject:

Material:

All Fields:

Art Type:

- Architecture
- Book Art
- Ceramics/Glass
- Comparison Image
- Decorative Art
- Diagrams
- Drawing
- Fibers
- Graphics
- Industrial Design
- Installation
- Mosaics/Stained Glass
- n/a
- Painting
- Performance Art
- Photo
- Sculpture

Time Period:

Quality:

Keywords:

Search

Reset

Help

Privacy

Terms

Feedback

Help

Help

Help

water lilies - Finds records that contain "water" AND "lilies".

apple - Finds records that contain words such as "apple", "apples", "applesauce", or "applet".

Where Does the  
Data Come From?

BUILD-87222008-0301

ART8622

## Object Management Tool

**Work** **Image** **File Upload** **Submit Object**

**Artist**

Role

**Title**

pref

title Type

**Date**

type display

**Earliest Date**

**Latest Date**

**Work Time Period**

**Work Time Period**

**Style Period**

**Description**

### Search Records to Update

Search by: ☒ Creator ☐ Title ☐ RefID ☐ Relation ☐ Master

Keyw ord:

Go

X76 records found



The Thirty-Six Views of Mount Fuji



The Thirty-Six Views of Mount Fuji



The Thirty-Six Views of Mount Fuji



The Thirty-Six Views of Mount Fuji



The Thirty-Six Views of Mount Fuji



The Thirty-Six Views of Mount Fuji



View of Juniso in Yotsuya



The Thirty-Six Views of Mount Fuji



Search Vocabularies for this Collection

Help and Reference



[illegible]

# UNIVERSITY OF DENVER PENROSE LIBRARY

## PEAK: THE LIBRARY CATALOG

[Start Over](#)
[Regular Display](#)
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[Modify Search](#)
[Show Similar](#)
[Another Search](#)
[\(Search History\)](#)

LEADER 00000cgm 2200000Ia 4500  
 001 26294581  
 003 OCoLC  
 005 19970506131843.0  
 007 vfubbaipu  
 008 920731q19801989be 031 vleng d  
 035 fbl00648152  
 040 IXA|cIXA|dDVP  
 041 enggerfre  
 049 DVPN  
 099 9 VIDEO CASSETTE 1185  
 245 00 Dada|h[videorecording] /|ca picture from Greta Deses ;  
 with the participation of Max Ernst, Gabriële, Picabia  
 Buffet, Hans Richter, Marcel Duchamp, Man Ray ; production,  
 Prociné, for the film section of the Ministry of National  
 Education of Belgium.  
 260 Chicago, Ill. :|bInternational Film Bureau,|c[198-?]  
 300 1 videocassette (30 min., 48 sec.) :|bsd., b&w ;|cl/2 in.  
 500 Participants' contributions in German, French and English.  
 English subtitles accompany German and French  
 contributions.  
 508 Director, Greta Deses ; associate producer, Serge Lovrix ;  
 photography, Alphonse Steppé, Roland Delcour ; sound  
 recording, Jean Devits ; editing, Jo Snell ; music,  
 Pieter Verlinden.  
 520 Persons who had been involved in various ways with the  
 Dada art movement discuss the history and significance of  
 Dadaism; Dada art works are shown.  
 538 VHS format.  
 650 0 Dadaism.  
 650 0 Dadaism|xHistory.  
 650 0 Arts, Modern|y20th century.  
 655 0 Documentary films.  
 655 7 Art films|2DUVaga  
 700 1 Buffet, Bernard,|d1928-  
 700 1 Deses, Greta.  
 700 1 Duchamp, Marcel,|d1887-1968.  
 700 1 Ernst, Max,|d1891-1976.  
 700 1 Picabia, Francis,|d1879-1953.  
 700 0 Man Ray,|d1890-1976.  
 700 1 Richter, Hans,|d1888-1976.  
 710 2 Prociné.  
 710 2 International Film Bureau.

**LOCATION**
[Video Area](#)
**CALL #**
[VIDEO CASSETTE 1185](#)
**STATUS**

AVAILABLE



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Active Learning Object Repository Application

Logout Homepage Collection Management Vocabulary Management Help

### Object Management Tool

Blank Image File Upload Upload Object

Artist:

Title:

Date:

Work Time Period:

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Description:

Search Records to Update:

Keywords:

Search Vocabulary:

Help and Reference

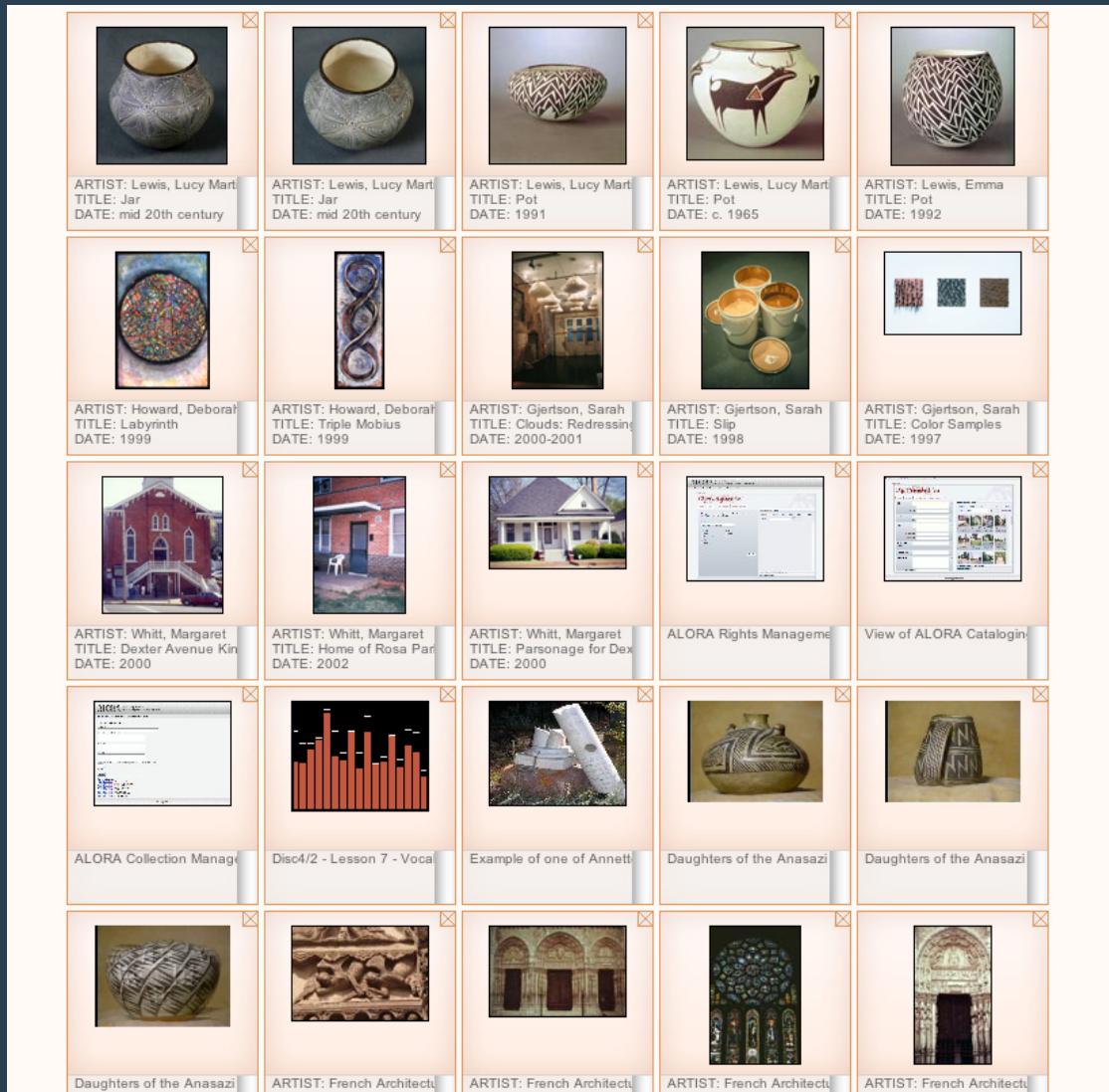
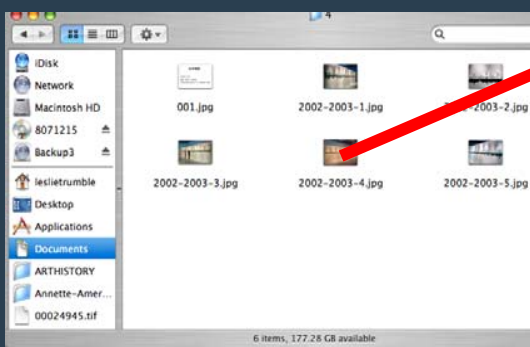
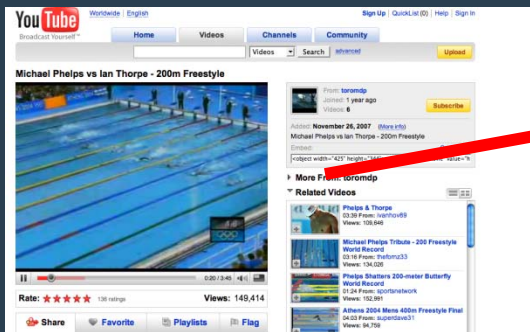
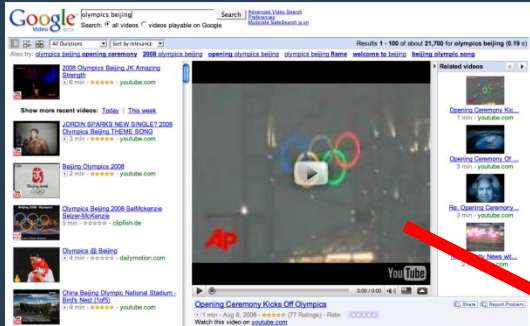
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	A	B	C	D	E	F	G	H	I	J	K
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23	af0606	af0606	Oratory of The Ash Germigny-c-France	France							
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30	af0613	af0613	Oratory of The Ash Germigny-c-France	France							
31	af0729	af0729	Palace of the Kings, Avignon	France		1317					

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ARTIST: [Gjertson, Sarah](#)  
 NAME: Gjertson, Sarah  
 LIFE DATES: 20th century  
 GENDER: Female  
 TIME PERIOD: 1900 to 2000 (20th c.)  
 NATIONALITY: United States of America (American)

TITLE: [Slip](#)  
 VIEW DESCRIPTION: [overall view](#)  
 DATE: 1998  
 ART TYPE: [Sculpture](#)  
 REPOSITORY: [Artist's Collection](#)

NAME: Artist's Collection  
 MATERIALS: liquid make-up, bucket  
 MATERIAL ITEM: [bucket](#)  
 MATERIAL ITEM: [liquid make-up](#)  
 MEASUREMENTS: 15 x 33 x 33 in.

INSTRUCTOR

REFERENCE |  
 COLLECTION

make-up, gender, slip, buckets

Tag It!



ARTIST: [Gjertson, Sarah](#)  
 NAME: Gjertson, Sarah  
 LIFE DATES: 20th century  
 GENDER: Female  
 TIME PERIOD: 1900 to 2000 (20th c.)  
 NATIONALITY: United States of America (American)

TITLE: [Slip](#)  
 VIEW DESCRIPTION: [overall view](#)  
 DATE: 1998  
 ART TYPE: [Sculpture](#)  
 REPOSITORY: [Artist's Collection](#)

NAME: Artist's Collection  
 MATERIALS: liquid make-up, bucket  
 MATERIAL ITEM: [liquid make-up](#)  
 MATERIAL ITEM: [bucket](#)  
 MEASUREMENTS: 15 x 33 x 33 in.

SUBJECT: [gender](#)  
 SUBJECT: [make-up](#)  
 SUBJECT: [slip](#)

SUBJECT: [buckets](#)  
 INSTRUCTOR: [Chanzit, Gwen](#)

REFERENCE ID: ART6619

Tag It!



# Delivery

- Web Services
- XML
- Flash Remoting
- ODBC
- Images sent over HTTP
- Video and Audio streams sent over RTMP with Adobe Flash Media Server

# Copyright & Fair Use

- Purpose and character of use
- Nature of the copyrighted work
- Amount of the work used
- Effect on the market

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The following four requirements are applied by the University with respect to appropriate usage of electronic media to display or transmit proprietary materials such as excerpts from written text, music, photographs, motion pictures/video clips (hereafter "Excerpts") in class related presentations. "Images" represent particularly sensitive issues and should be the subject of careful consideration.

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1. These guidelines for use of Excerpts are distributed to faculty, students, and relevant staff members involved in the course or project and notice must be provided to students that Excerpts used in connection with the course may be subject to copyright protection. When possible, a "click-through" feature will be required to register the user's understanding and agreement to comply.
2. The performance or display of the Excerpt is made by, at the direction of, or under the actual supervision of the instructor as an integral part of a class session or assignment, and thus, the performance or display is directly related, and of material assistance, to the teaching mission.
3. The transmission is made solely for, and the reception of such transmission is limited to, students officially enrolled in the course for which the transmission is made (i.e. Web sites are password protected with access limited to students enrolled in the class).
4. Retention of the work in accessible form by all recipients is limited to the length of the class session term.

(As a general reminder, there are four guidelines built into the Copyright law that assist in determining whether a use qualifies as a Fair Use. These rules apply regardless of whether electronic media or more traditional means of presentation are used.)

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1. The purpose and character of the use, including whether such use is of a commercial nature or is for nonprofit educational purposes. This first factor usually weighs in our favor because we are a nonprofit university and we are making nonprofit educational uses of materials copied for teaching purposes.
2. The nature of the copyrighted work. There is a spectrum of analysis relating to the nature or character of the work. Generally, the more factual or information oriented the work, the more easily it fits into a fair use context. Conversely, the more fanciful or creative the work, the less easily a fair use argument can be made. This factor may, however, be outweighed by other factors.
3. The amount and substantiality of the portion used in relation to the copyrighted work as a whole. Generally, one may only use a "small" portion of the work to be copied. This factor may weigh against fair use if each article or component is considered a whole work. Generally, as the amount copied increases, fair use decreases, but our status as a nonprofit entity has a mitigating effect upon this factor.
4. The effect of the use upon the potential market for or value of the copyrighted work. Use of the Excerpt must not act as a material detriment to the potential market or value to the owner of the original work. This factor is changing as the market for permissions and reprints grows. This factor may weigh against a finding of fair use if publishers can show that they are losing licensing and royalty fees as a result of copying.

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### TERMS OF USE AGREEMENT

1. I agree that I have read the above FAIR USE statement.  
☐ Yes  
☐ No
2. I agree that whenever possible, I will use the video editor tool to create video excerpts rather than use the entire video.

# Questions?