

The Role of Atom/AtomPub in Digital Archive Services at The University of Texas at Austin

Peter Keane, UT Austin

Some Terms

- **Atom** -- syndication format
- **AtomPub** -- a “write-back” protocol
- **REST** -- architectural style of the Web
- **AJAX** -- Javascript-based rich interface technique

Presentation Outline

- **DASe**
- **REST**
- **Atom/AtomPub**

Digital Archive Services (DASe)

- **lightweight digital repository**
- **100+ subject-specific collections
comprising 190K items**
- **1.2 million images, audio, video, pdf**
- **3 million pieces of metadata**



WHAT STARTS HERE CHANGES THE WORLD
THE UNIVERSITY OF TEXAS AT AUSTIN

Digital Archive Services

DASe

Home/Search

My Cart (29)

My Sets

Search selected collection(s):

Search

- ☒ **American West Collection** (1146)
- ☒ **Archivision (Art and Architecture) Collection** (16370)
- ☒ **Art & Art History Visual Resources Collection** (35607)
- ☒ **Asian Studies Collection** (18954)
- ☒ **Blanton Museum Collection** (1847)
- ☒ **British Studies Lecture Series** (66)
- ☒ **Chinese 412K Audio** (18)
- ☒ **Chinese 506 Audio** (53)
- ☒ **Chinese 507 Audio** (32)
- ☒ **Classics Collection** (13400)
- ☒ **Constitution Collection** (156)
- ☒ **Costume Collection** (2693)
- ☒ **Cultural Anthropology Collection** (1116)
- ☒ **English Collection** (4666)
- ☒ **French 312N Audio** (56)
- ☒ **French 322E Audio** (53)
- ☒ **French 612 Audio** (47)
- ☒ **Friesen Collection** (202)
- ☒ **Germanic Studies** (6949)
- ☒ **Germans From Russia** (131)
- ☒ **Historic Images of Art & Architecture (Allan T. Kohl Collection)** (351)
- ☒ **Mexican American Experience** (57)



Digital Archive Services

DASe

Home/Search

My Cart (29)

My Sets

American West Collection (1146 items)

Search:

go

Browse:

Select Attribute Group:

Collection Attributes

Admin Attributes

Select Attribute:

toggle sort

Dase Rights Level (0)

Title (927)

Artist (250)

Year (0)

Description (89)

Keyword (0)

Lecture (2)

Style (0)

Medium (81)

Period (188)

Donor (1)

Collection (0)

Scratch Pad (1137)

Select Artist Value:

Adam Clark Vroman (10)

Alexandre Hogue (6)

Alfred Waud (2)

Allan Hausea (1)

Allen Anderson (2)

Alphonse de Neuville (1)

Amado Pena (1)

Amos Bad Heart Buffalo (8)

Andrew Dasburg (2)

Andy Warhol (1)

Ansel Adams (2)

Ant Farm Artists Collective (2)

Arnold Blanch (1)

Arthur Amiotte (2)

Arthur Dow (1)

Arthur Mitchell (1)

Arthur Rothstein (12)

A.R. Ward Pinxit, E. Cooper (1)

Digital Archive Services

DASe

Home/Search

My Cart (15)

My Sets

Search Results 1 - 30 of 41 [grid | list | slideshow]

paul klee

Search

prev | next

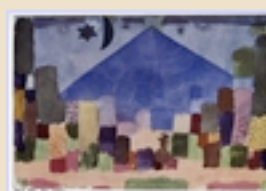
☐ 1. add to cart



00-04697

Art & Art History Visual
Resources Collection

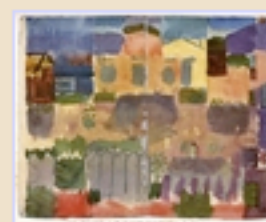
☐ 2. add to cart



74-06723

Art & Art History Visual
Resources Collection

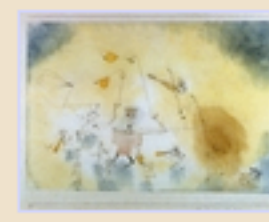
☐ 3. **in cart** (remove)



08-00956

Art & Art History Visual
Resources Collection

☐ 4. add to cart



68-07993

Art & Art History Visual
Resources Collection

☐ 5. add to cart



75-07234

Art & Art History Visual
Resources Collection

☐ 6. add to cart



07-07806

Art & Art History Visual
Resources Collection

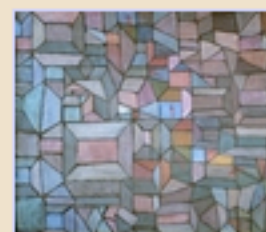
☐ 7. add to cart



96-00250

Art & Art History Visual
Resources Collection

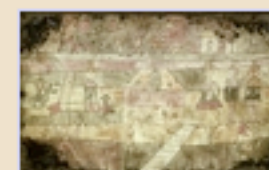
☐ 8. add to cart



04-07664

Art & Art History Visual
Resources Collection

☐ 9. add to cart



04-07663

Art & Art History Visual
Resources Collection

☐ 10. add to cart



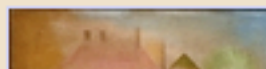
05-03495

Art & Art History Visual
Resources Collection

☐ 11. add to cart



☐ 12. add to cart



☐ 13. add to cart



☐ 14. add to cart



☐ 15. add to cart







Art & Art History Visual Resources Collection

Item 2 of 29 for My Cart

[prev](#) | [up](#) | [next](#)



	small	(599x480)
	medium	(749x600)
	large	(959x768)
	full	(3372x2700)

in cart [\(remove\)](#)

Art & Art History Visual Resources
Collection

[edit](#) | [add metadata](#) | [add/edit textual content](#)

Main Entry

SHAHN, BEN

Title

Scotts Run, West Virginia.

Date

1937

Country

United States

Medium

Painting

Material/technique

tempera on cardboard

Dimensions

22-1/4 x 27-7/8"

Location City

NEW YORK CITY

Museum Name

Whitney Museum of American Art

Source

Pohl, Frances, Ben Shahn, 1993, flat scan

Item/page/plate

p.57, bottom

Accession Number

06-02075

[show/hide admin metadata](#)

[add a user note](#)

Digital Archive Services **DASe**

[Home/Search](#)

[My Cart \(15\)](#)

[My Sets](#)

[create new set](#)

[ben shahn \(6\)](#)

[here is a set with a remarkably long and complicated name lklk \(2\)](#)

[my new slideshow \(149\)](#)

[nnnne \(36\)](#)

[pk set \(6\)](#)

[tcdl \(16\)](#)

[to delete \(5\)](#)

ben shahn (6 items) [[grid](#) | [list](#) | [slideshow](#)]

[slide sorter](#) | [bulk editor](#)

☐ 1. **in cart**



76-02496

Art & Art History Visual
Resources Collection

☐ 2. **in cart**



06-02075

Art & Art History Visual
Resources Collection

☐ 3.



06-01738

Art & Art History Visual
Resources Collection

☐ 4. **in cart**



05-03205

Art & Art History Visual
Resources Collection

☐ 5.



77-05939

Art & Art History Visual
Resources Collection

☐ 6.



06-01739

Art & Art History Visual
Resources Collection

[check/uncheck all](#)

save checked items to...



[add](#)

[remove checked items](#)

[delete entire set](#)

Why Build?

- **what are we building?**
- **must be simple and extensible**
- **importance of being RESTful**
- **new opportunities for reuse**

Types of Reuse

- **open-source applications**
- **code libraries/frameworks**
- **interaction design**

Data First Approach

- **meet the information provider where they are**
- **spreadsheets, FileMaker, Flickr, iPhoto, etc.**
- **model data close to the source**
- **map/transform to and from standard schemas**



WHAT STARTS HERE CHANGES THE WORLD
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Digital Archive Services DASe

[Home/Search](#)[My Cart \(15\)](#)[My Sets](#)

American West Collection (1146 items)

Search:

Browse:

Select Attribute
Group:

Collection Attributes
Admin Attributes

Select Attribute:

[toggle sort](#)

Dase Rights Level (0)

Title (927)

Artist (250)

Year (0)

Description (89)

Keyword (0)

Lecture (2)

Style (0)

Medium (81)

Period (188)

Donor (1)

Collection (0)

Scratch Pad (1137)

[Manage American West Collection](#) | [FAQ](#) | [email](#) | [Copyright/Usage Statement](#) | [Resources](#) | [DASe Archive](#)



Digital Archive Services

DASe

[Home/Search](#)

[My Cart \(15\)](#)

[My Sets](#)

Costume Collection (2693 items)

Search:

go

Browse:

Select Attribute
Group:

Collection Attributes

Admin Attributes

Select Attribute: toggle sort

[Sarah's notes \(79\)](#)

[Dase Rights Level \(2\)](#)

[Title \(1006\)](#)

[Description \(1185\)](#)

[Period \(17\)](#)

[Region \(33\)](#)

[Gender \(22\)](#)

[Garment Type \(221\)](#)

[Accessory \(148\)](#)

[Date \(348\)](#)

[Season \(4\)](#)

[Artist \(25\)](#)

[Designer \(34\)](#)

[Source \(602\)](#)

[Page/Slide # \(2\)](#)



Digital Archive Services

DASe

[Home/Search](#)

[My Cart \(15\)](#)

[My Sets](#)

Plan II Thesis Collection (318 items)

This digital archive of Plan II Senior Theses which will include all theses submitted from 2008 onward. When possible, theses submitted prior to 2008 will also be digitized and uploaded to this collection.

Search:

go

Browse:

Select Attribute
Group:

Collection Attributes

Admin Attributes

Select Attribute:

[toggle sort](#)

Author (296)

Title (297)

Semester (20)

Supervisor (254)

Supervisor Department (98)

Second Reader (251)

Second Reader Department
(100)

Thesis Awards (3)

Supplementary Material (1)

Abstract (294)

Keyword (1769)

Dase Rights Level (0)

Scratch Pad (1)

Description (0)



WHAT STARTS HERE CHANGES THE WORLD
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Digital Archive Services

DASe

[Home/Search](#)

[My Cart \(15\)](#)

[My Sets](#)

Mexican American Experience (57 items)

Search:

go

Browse:

Select Attribute
Group:

Collection Attributes

Admin Attributes

Select Attribute:

[toggle sort](#)

Program Number (39)

Title (56)

Short Description (1)

Description (24)

Host (5)

Interviewee (6)

Recording Date (29)

Air date (28)

Rerun Number (18)

Series (16)

Keyword (3)

Transcript (2)

Rights (0)

[Manage Mexican American Experience](#) | [FAQ](#) | [email](#) | [Copyright/Usage Statement](#) | [Resources](#) | [DASe Archive](#)

DASe Powered

Atom Syndication Format

- **Atom is an XML-based document format that describes lists of related information known as "feeds". Feeds are composed of a number of items, known as "entries", each with an **extensible set** of attached metadata. For example, each entry has a title.**

DASe Item in Atom

Digital Archive Services

DASe

Home/Search

My Cart (15)

My Sets

French 312N Audio

Item 1 of 5 for to delete

prev | up | next



in cart
(remove)

French 312N Audio

edit | add metadata |

Unit
14

Title
Unit 14 Lesson 02.mp3

show/hide admin metadata

Original File Checksum
1a35a00701f6f7864e0776cc41946e0a

Sampling Rate (kHz)
22.05

Audio Time
29:31

Bitrate (kbps)
40

Original File Size
8855380

Original File Mime Type
audio/mpeg

Channel Mode
mono

Upload Date/Time
Tue, 23 Jan 2007 04:48:32 -0000

Original Filename
Unit 14 Lesson 02.mp3

DASe Item in Atom

```
<entry
  xmlns="http://www.w3.org/2005/Atom"
  xmlns:app="http://www.w3.org/2007/app"
  xmlns:d="http://daseproject.org/ns/1.0"
  xmlns:media="http://search.yahoo.com/mrss/">

  <title>Unit 14 Lesson 02.mp3</title>

  <id>http://www.laits.utexas.edu/dasebeta/item/french_312n/000384293</id>
  <link href="http://www.laits.utexas.edu/dasebeta/item/french_312n/000384293" rel=
  <link href="http://www.laits.utexas.edu/dasebeta/item/french_312n/000384293.atom"
  <updated>2008-08-22T09:13:20-05:00</updated>
  <published>2005-01-01T00:00:00-06:00</published>

  <d:unit>14</d:unit>
  <d:title>Unit 14 Lesson 02.mp3</d:title>
  <d:admin_checksum>1a35a00701f6f7864e0776cc41946e0a</d:admin_checksum>
  <d:admin_audio_sampling_rate>22.05</d:admin_audio_sampling_rate>
  <d:admin_audio_time>29:31</d:admin_audio_time>
  <d:admin_audio_bitrate>40</d:admin_audio_bitrate>
  <d:admin_file_size>8855380</d:admin_file_size>
  <d:admin_mime_type>audio/mpeg</d:admin_mime_type>
  <d:admin_audio_channel_mode>mono</d:admin_audio_channel_mode>
  <d:admin_upload_date_time>Tue, 23 Jan 2007 04:48:32 -0000</d:admin_upload_date_ti
  <d:admin_filename>Unit 14 Lesson 02.mp3</d:admin_filename>
</entry>
```

Everything is a Feed in DASE

- **Collection**
- **Search Result**
- **User “Set”**
- **A User’s Sets**
- **Collection Attributes**

Feeds in DASE

<http://dase.laits.utexas.edu/collection/plan2.atom>



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Plan II Thesis Collection

This digital archive of Plan II Senior Theses which will include all theses submitted from 2008 onward. When possible, theses submitted prior to 2008 will also be digitized and uploaded to this collection.

[Strike Against Popular Unity: Why Radical El Teniente Miners Participated in the Strike of 41% Against Salvador Allende](#)

Mon, Aug 11, 2008 1:44 PM



Media files

 [000488474_100.jpg](#) (JPEG Picture)

[Hitler's Ghost: The Shadow of Nazism in Contemporary Arguments about Biomedical Ethics](#)

Mon, Aug 11, 2008 1:33 PM



Media files

Feeds in DASE

<http://www.laits.utexas.edu/dasebeta/search.atom?q=paul+klee>



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DASE Search Result

Art & Art History Visual Resources Collection: 25 Germanic Studies: 15 Classics Collection: 1

[00-04697](#)

Mon, Sep 15, 2008 11:06 PM



Media files


 [00-04697_3600.jpg](#) (JPEG Picture, 7.9 MB)

[74-06723](#)

Fri, Oct 17, 2008 10:00 PM



Media files

 [74-06723_3600.jpg](#) (JPEG Picture, 7.8 MB)

Feeds in DASE

http://www.laits.utexas.edu/dasebeta/tag/pkeane/ben_shahn.atom



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ben shahn

[76-02496](#)

Thu, Nov 6, 2008 12:12 PM



Media files



[76-02496_3600.jpg](#) (JPEG Picture, 2.1 MB)

[06-02075](#)

Thu, Nov 6, 2008 12:12 PM



Media files



[06-02075_3600.jpg](#) (JPEG Picture, 1.9 MB)

Feeds in DASE

<http://www.laits.utexas.edu/dasebeta/user/pkeane/sets.atom>



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pkeane sets

[to delete](#)

Mon, Oct 13, 2008 5:53 PM

[pkeane's Cart](#)

[pkeane's Cart](#)

[pkeane's Cart](#)

[pkeane's Cart](#)

[pkeane's Cart](#)

[pkeane's Cart](#)

[nnnne](#)

Thu, Oct 30, 2008 10:32 AM

[my new slideshow](#)

Thu, Oct 30, 2008 1:24 PM

[ben shahn](#)

Wed, Nov 5, 2008 9:22 PM

[pk set](#)

[tcdl](#)

Feeds in DASE

<http://www.laits.utexas.edu/dasebeta/collection/bsls/attributes.atom>



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British Studies Lecture Series

Speaker

Recording Date

Description

Tue, Nov 6, 2007 8:52 AM

Keyword

Tue, Nov 6, 2007 8:52 AM

Donor

Tue, Nov 6, 2007 8:52 AM

Dase Rights Level

Tue, Nov 6, 2007 8:52 AM

Scratch Pad

Tue, Nov 6, 2007 8:52 AM

Title

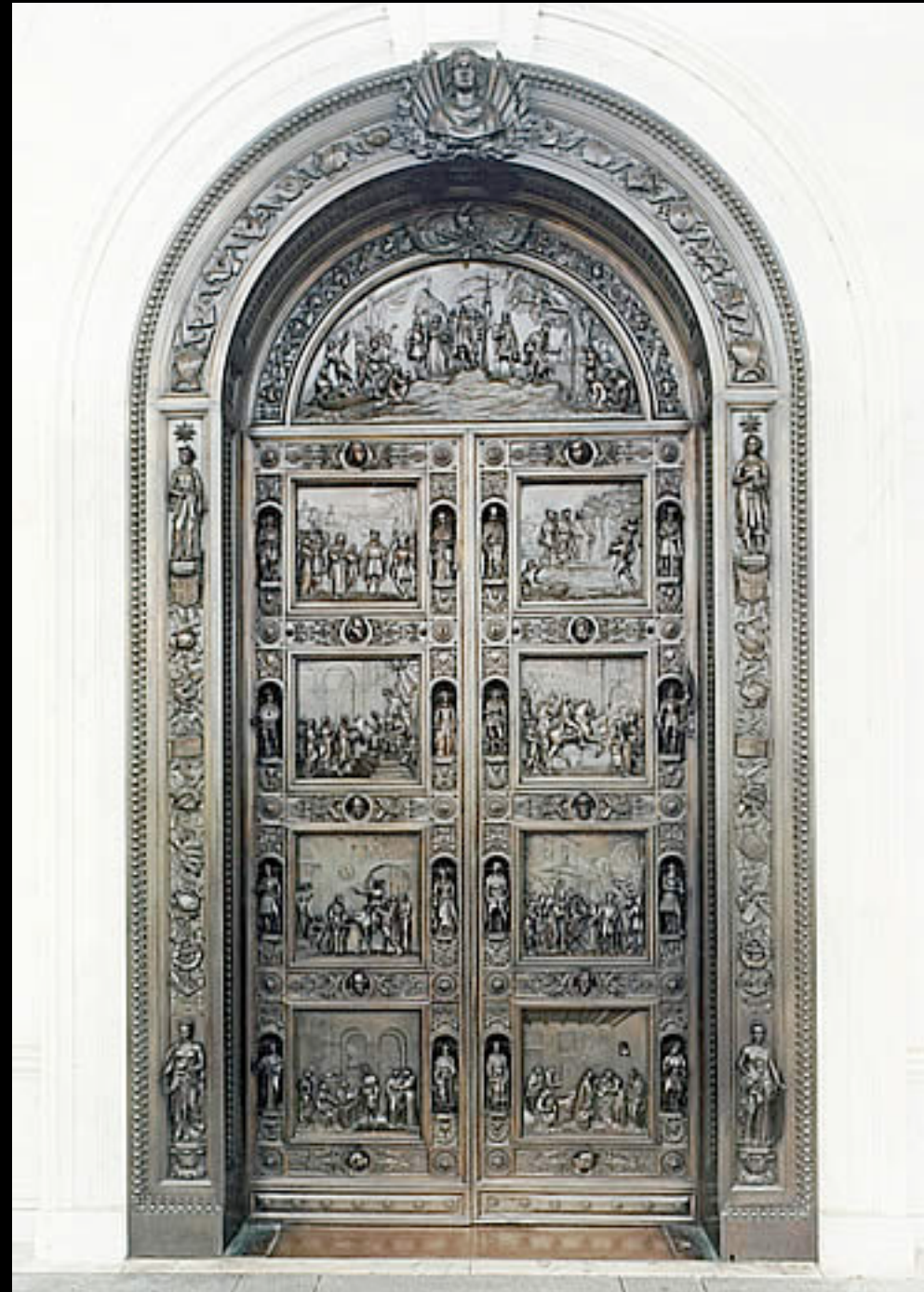
Tue, Nov 6, 2007 8:52 AM

- **WS-*/RPC/Service-Oriented Architecture**

VS

- **REST/Resource-Oriented Architecture**

try to build a better front door...



...or knock down the walls.



What is REST?

- **Representational State Transfer**
- **Coined by Roy Fielding for his PhD thesis**
- **Describes the architecture of the web**
- **Is robust and scalable**

Designing a RESTful Application

- **Identify resources and representations**
- **Give them names (URIs)**
- **Define operations for each (GET, POST, PUT, DELETE)**

URI Templates

'user/{eid}/sets' => 'sets',

'collection{collection_ascii_id}' => 'collection',

'collection{collection_ascii_id}/serial_numbers' => 'serial_numbers',

'collection{collection_ascii_id}/archive' => 'archive',

'collection{collection_ascii_id}/attributes' => 'attributes',

'collection{collection_ascii_id}/items/by/md5/{md5}' => 'items_by_md5',

DASe as REST framework

- **name resources (URI template)**
- **provide per-format per-method actions:**
 - **getCollectionsAtom**
 - **putItem**
 - **postToMedia**
 - **deleteUser**

Atom Publishing Protocol

- **The Atom Publishing Protocol is an application-level protocol for publishing and editing Web Resources using HTTP and XML.**

Atom Publishing Protocol

- **Collections:** Sets of Resources, which can be retrieved in whole or in part.
- **Editing:** **Creating, editing, and deleting** Resources.

Atom Publishing Protocol

- **Follows the principles of RESTful architectural design**
- **Is widely used: Google GData, Microsoft Windows Live Writer, IBM Lotus Connectios, etc.**

in Object-Oriented Terms...

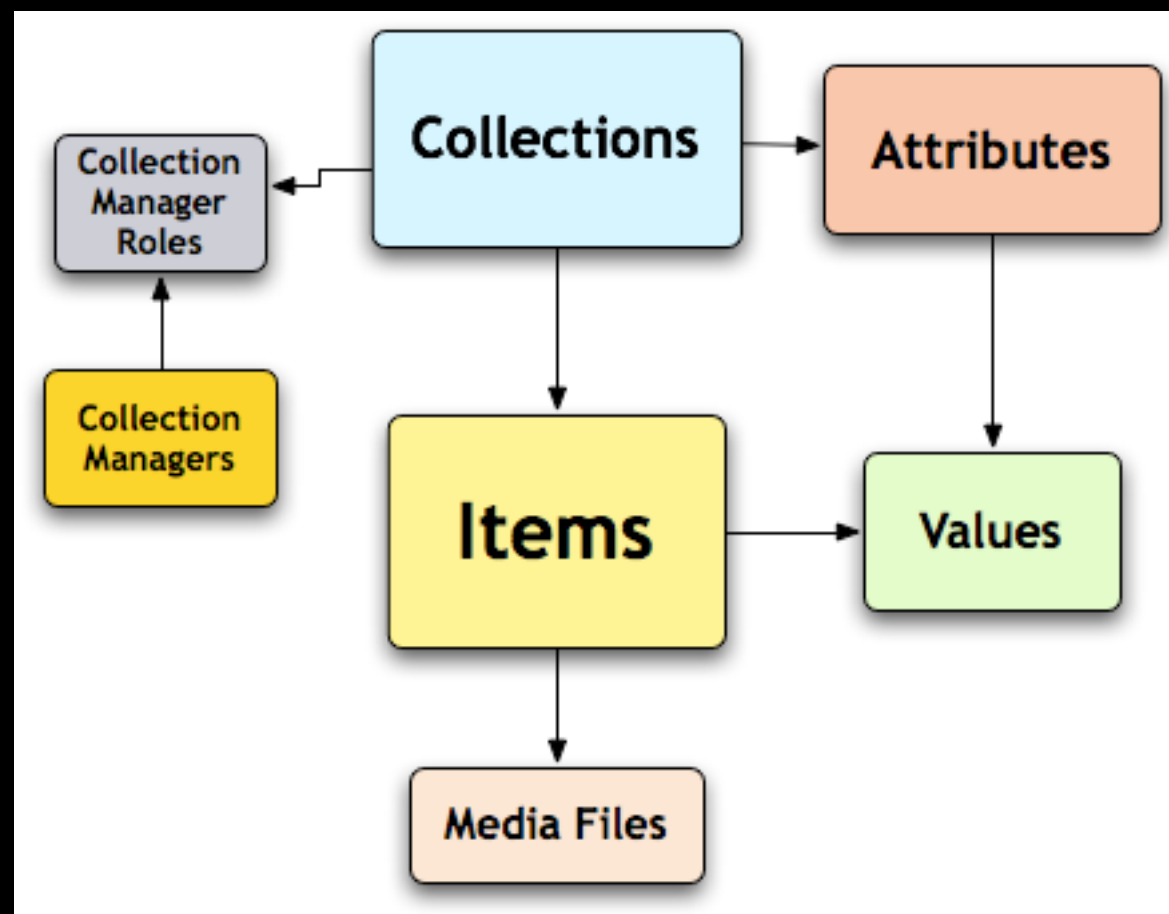
- **REST as an “abstract interface” for the web**
- **Atom/AtomPub provides a concrete implementation**
- **Atom/AtomPub can be further subclassed for particular cases**

SynOA: Syndication Oriented Architecture

- **Feeds not only for sharing Information with the world**
- **Feeds for sharing data between parts of a system**
- **plus AtomPub: application becomes a set of small pieces loosely joined**
- **microcosm of the web**

DASe & REST: five case studies

- **DASe itself**
- **Simple Uploader**
- **eLucy.org**
- **Blackboard Integration**
- **Google Spreadsheet Interop**



URI Templates

'user/{eid}/sets' => 'sets',

'collection{collection_ascii_id}' => 'collection',


'collection{collection_ascii_id}/serial_numbers' => 'serial_numbers',

'collection{collection_ascii_id}/archive' => 'archive',

'collection{collection_ascii_id}/attributes' => 'attributes',

'collection{collection_ascii_id}/items/by/md5/{md5}' => 'items_by_md5',

Atom Inside

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- ☒ Chinese 412K Audio (18)
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- ☒ French 612 Audio (47)
- ☒ Friesen Collection (202)
- ☒ Germanic Studies (6949)
- ☒ Germans From Russia (131)
- ☒ Historic Images of Art & Architecture (Allan T. Kohl Collection) (351)
- ☒ Mexican American Experience (57)

Atom Inside



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DASe Collections

[American West Collection](#)

Sun, Jan 1, 2006 1:00 AM

american_west

[Archivision \(Art and Architecture\) Collection](#)

Mon, Jul 21, 2008 1:28 PM

archivision

[Art & Art History Visual Resources Collection](#)

Sun, Jan 1, 2006 1:00 AM

vrc

[Asian Studies Collection](#)

Sun, Jan 1, 2006 1:00 AM

asian_studies

[Blanton Museum Collection](#)

Sun, Jan 1, 2006 1:00 AM

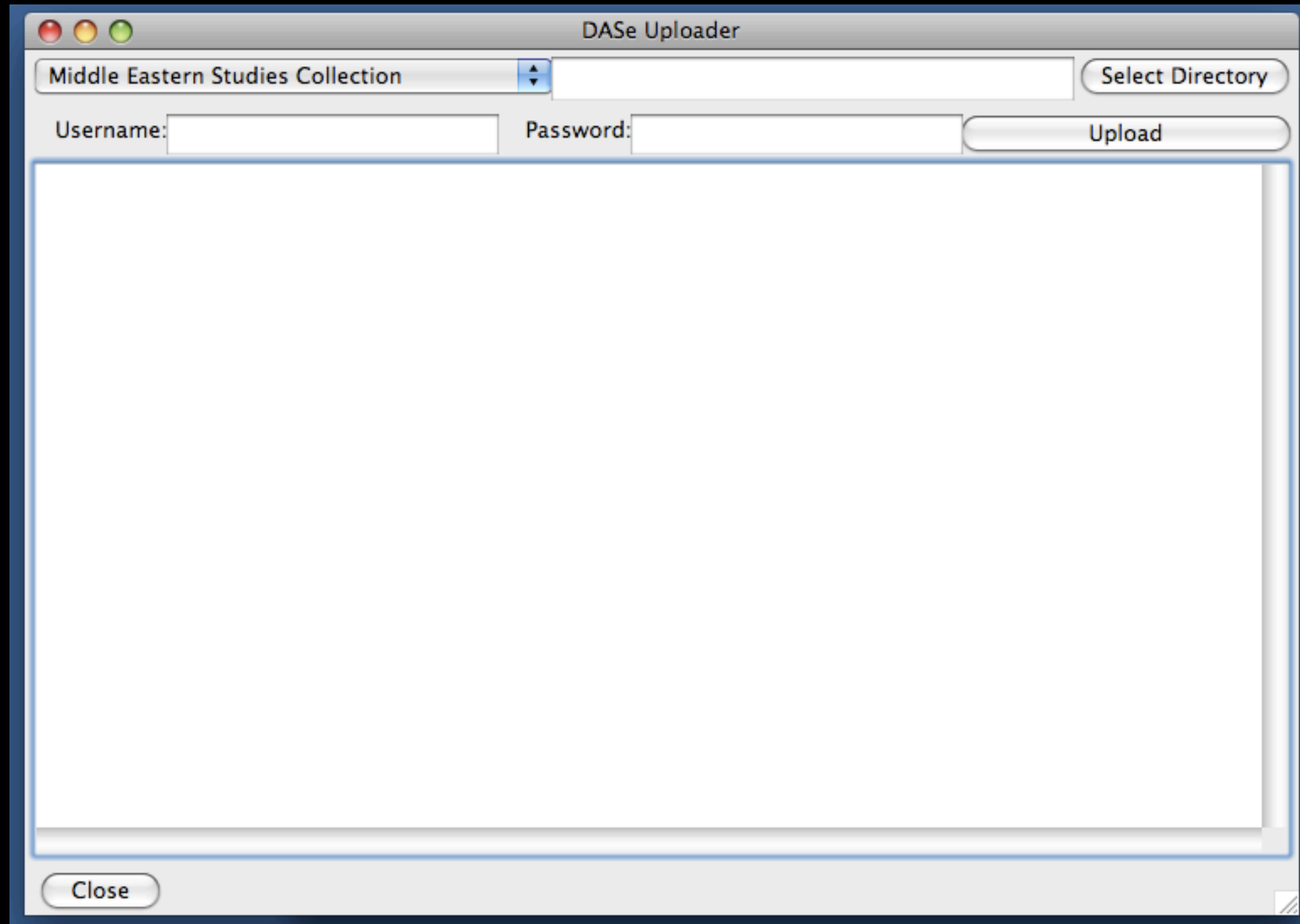
blanton

[British Studies Lecture Series](#)

Sun, Jan 1, 2006 1:00 AM

bsls

Simple Uploader



The image shows a screenshot of a web application window titled "DASE Uploader". The window has a standard macOS-style title bar with red, yellow, and green window control buttons. Below the title bar, there is a dropdown menu currently showing "Middle Eastern Studies Collection". To the right of the dropdown is a "Select Directory" button. Below these, there are two input fields: "Username:" and "Password:". To the right of the password field is an "Upload" button. The main body of the window is a large, empty white rectangular area. At the bottom left of the window is a "Close" button. The entire window is set against a black background.

DASE Uploader

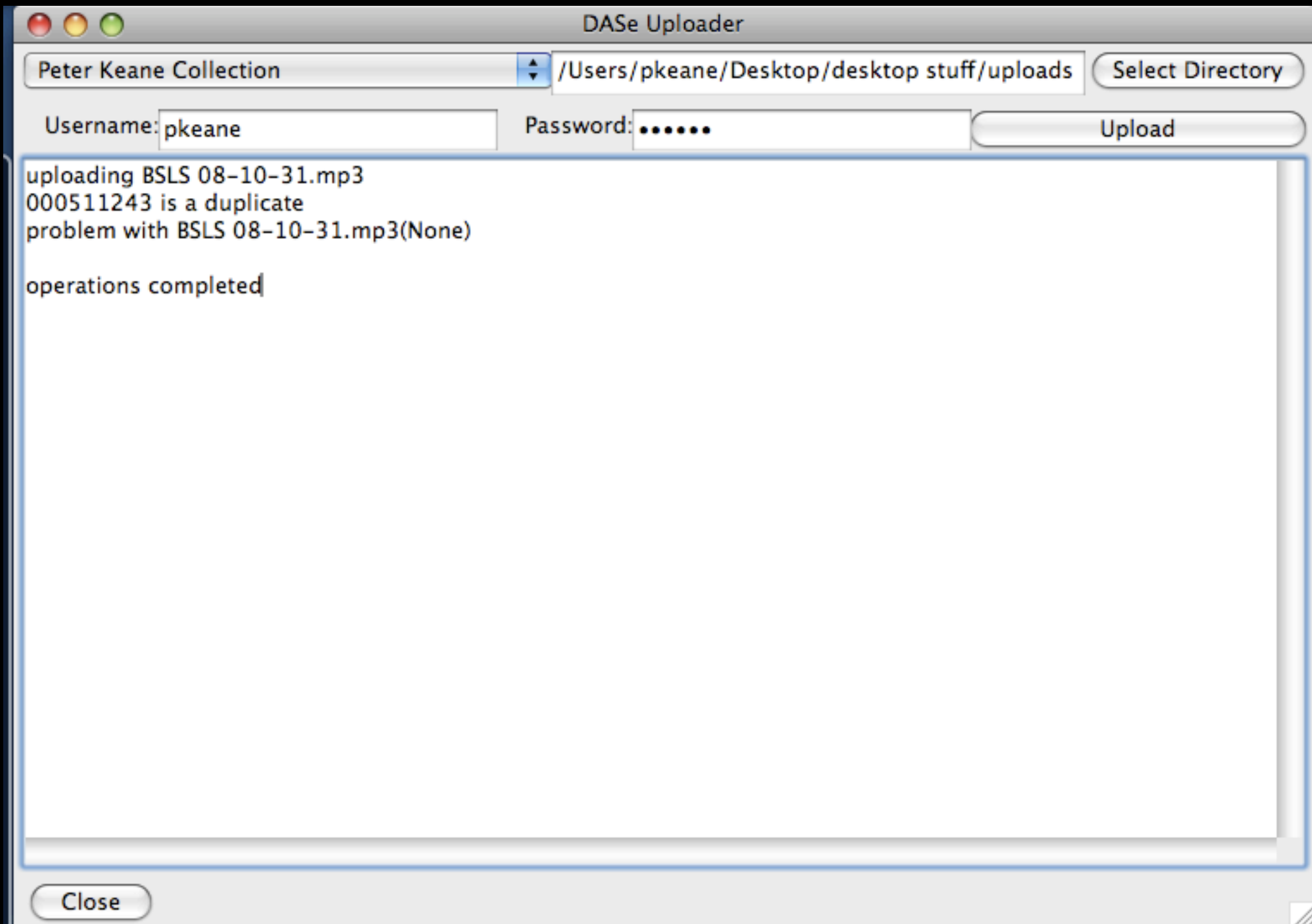
Middle Eastern Studies Collection

Select Directory

Username: Password: Upload

Close

Simple Uploader



Simple Uploader

- **get a list of collections**
- **authenticate user**
- **check for duplicate**
- **post file and return http code**

Example: eLucy.org



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meet Lucy



eLucy is a website that will help you to learn about the world's most famous fossil, Lucy, a member of the species *Australopithecus afarensis*, who lived 3.2 million years ago. Lucy was discovered in 1974 in Ethiopia, and she is unique because over 40% of her skeleton was recovered, making her one of the most complete australopithecine fossils ever found. This website provides activities and lessons that will help you to learn about Lucy's place within the history of human evolution. Some activities are online, but others can be completed offline. After studying Lucy, you can investigate other aspects of human evolution at eFossils.org. You can learn more about the human and primate skeleton at eSkeletons.org.

Lucy began her 6-year public tour of the United States in 2007. Beginning on October 4, 2008, Lucy can be viewed in

TEACHERS > Lessons

This section is a collection of lessons and suggested activities that may be used to supplement science classes focusing on human evolution and human origins.

STUDENTS > Activities

This section contains crosswords, puzzles, life-size printouts and other activities to help students learn more about Lucy and human origins.

COMPARE LUCY

Visitors can view individual bones from Lucy and compare her bone morphology with the anatomy of chimpanzees and modern humans. Just select an element to get started.

Example: eLucy.org

Home/Search

My Cart (15)

My Sets

eFossils Collection (2139 items)

Search:

go

Browse:

Select Attribute Group:

Collection Attributes

Admin Attributes

Select Attribute:

toggle sort

Title (66)

name/abbrev (51)

Resource URI (604)

Description (5)

Keyword (0)

Country (3)

Latitude (2)

Longitude (2)

Site Name (33)

Site Identifier (33)

Site Begin Date (5)

Site End Date (5)

Time Period (2)

Site Page Section (6)

Family (1)

Genus (7)

Species (22)

Hominin (23)

Holotype (20)

Phylogeny Begin Date (19)

Phylogeny End Date (18)

Predecessor (11)

Fossil Common Name (15)

Example: eLucy.org



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COMPARE LUCY: Lumbar Vertebra - Dorsal / Posterior

Lumbar Vertebra

Dorsal / Posterior

H. sapiens

P. troglodytes



A. afarensis (Female)

Superior



2 cm

silis 2007

H. sapiens (Female)


Superior



2 cm

silis 2007

Example: eLucy.org



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COMPARE LUCY: First Rib - Caudal / Inferior

First Rib


select an element:
Distal Femur
Femur
First Rib
Humerus
Lumbar Vertebra
Mandible
Manual Proximal Phalanx
Os Coxae
Pubis
Radius
Sacrum
Scapula
Talus
Thoracic Vertebra
Tibia
Ulna

Caudal / Inferior


H. sapiens




P. troglodytes



H. sapiens (Undetermined)

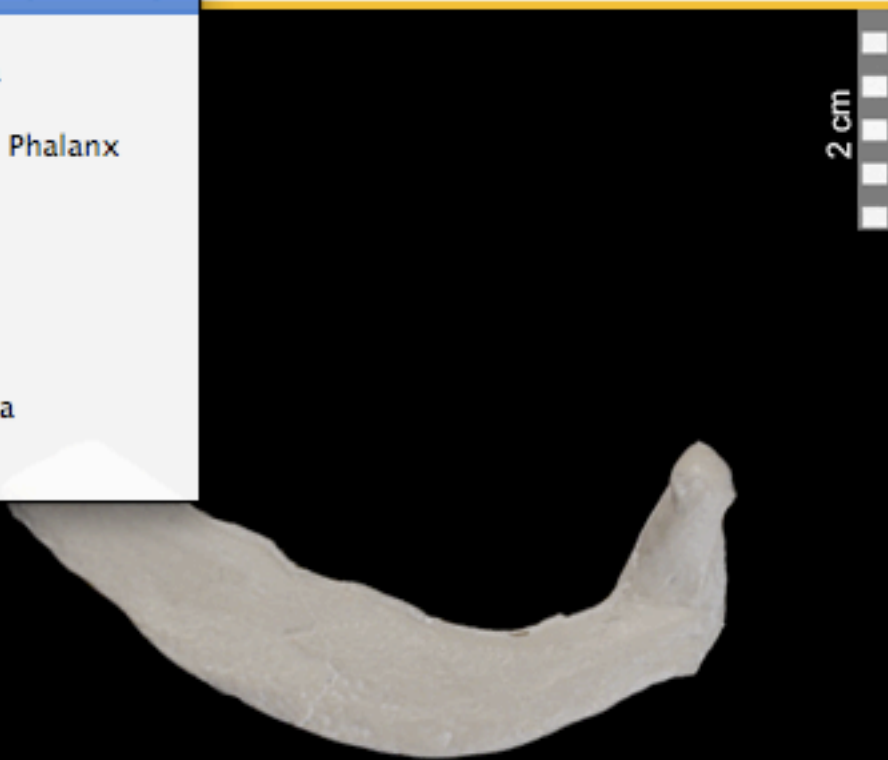


Medial



2 cm

ssils 2007



2 cm

ssils 2007

Example: eLucy.org



THE UNIVERSITY OF TEXAS AT AUSTIN

DEPARTMENT OF ANTHROPOLOGY

Lucy

COMPARE LUCY: First Rib - Medial

First Rib

Medial

select a view
Caudal / Inferior
Cranial / Superior
Dorsal / Posterior
Medial
select a view

H. sapiens

P. troglodytes



A. afarensis (Female)

Superior



2 cm

silis 2007

H. sapiens (Undetermined)

Superior



2 cm

silis 2007

DASe/Blackboard Integration

- **OAuth - style authentication
(interaction resuse!)**
- **Users view their own DASe “sets” in
Blackboard**
- **Faculty “publish” a set to a course**
- **Students access course sets in
Blackboard**

Google Spreadsheet Interop

Google Docs BETA pjkeane@gmail.com | [New features](#) | [Docs](#)

glossaryforpeter Share

	A	B
1	Term	Definition
2	aborigine	an original inhabitant of an area.
3	absolute date	the exact date of an artifact or site based on the calendar. Absolute dates can be determined by Potassium-Argon (K-Ar), or Argon-Argon (Ar-Ar) dating; contrasts with relative dating.
4	adaptive radiation	the rapid divergence and spread of a group of organisms into available ecological niches and adaptations to their new environment, commonly resulting in a speciation event on a larger scale.
5	agriculture	the intentional cultivation of land and the production of plants and animals
6	allele	an alternate form of a gene that sits at the same position on a chromosome.
7	allometry	the study of the relationship between the growth of an organism's specific part(s) and the growth of the whole organism.
8	amino acid	chains of molecules that make up proteins. In total, there are 20 amino acids.
9	analogy	[adj. analogous] characteristics of organisms that are similar and share the same common ancestry.
10	angular unconformity	a break in the geologic record; a distinct line that separates a layer of sedimentary rock that is tilted or folded from a layer of sedimentary rock that is horizontal.
11	anthropoid	[greek. "human-like shape"] in taxonomic classification, any member of the suborder Anthropoidea, including apes, and humans, but excluding tarsiers and lemurs.
12	apes	under the superfamily Hominoidea, this includes gibbons and siamangs in the family Hylobatidae, bonobos, and chimpanzees in the family Pongidae. Characteristics of apes include large brains, behavior and cognitive abilities, and an increase period of infant development.

Google Spreadsheet Interop



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A1

Fri, Feb 8, 2008 11:13 PM

Term

B1

Fri, Feb 8, 2008 11:13 PM

Definition

A2

Fri, Feb 8, 2008 11:13 PM

aborigine

B2

Fri, Feb 8, 2008 11:13 PM

an original inhabitant of an area.

A3

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absolute date

B3

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OAI-ORE and Atom

- **Atom is one possible serialization of a Resource Map OAI-ORE**
- **ORE/Atom is Atom and will be useful in an Atom-aware system**
- **ORE offers a valuable way to think about aggregated resources**
- **AtomPub can enable Resource Map creation**

get the code:

dase.googlecode.com



dase

a web-based digital assets management and presentation framework

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DASe Powered

What is DASe?

DASe (Digital Archive Services) is a lightweight digital asset repository. DASe provides a platform for users to store, catalog, aggregate, and share images, audio, video, and documents. End-users can search or browse items in DASe, and can create "sets" to save, share or present in a simple slideshow format. DASe also includes an administrative interface for creating new collections, uploading new items, and adding metadata to existing items.

In addition to the web interface, all of the DASe functionality is available through Atom/AtomPub? web services.

DASe was developed by Liberal Arts Instructional Technology Services at the University of Texas at Austin. The current installation at UT Austin includes over 4 million pieces of metadata about 300K+ audio, video, images, and document files. Public beta release is scheduled for Dec 2008.

What technologies does DASe use?

DASe is written in PHP and can use MySQL, PostgreSQL, or SQLite as a backend. The DASe code base also includes some client utilities written in Python (including a small GUI file uploader) written in Python.

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