

Understanding what it means to be a repository online – unpacking the definition and requirements of a “digital repository”

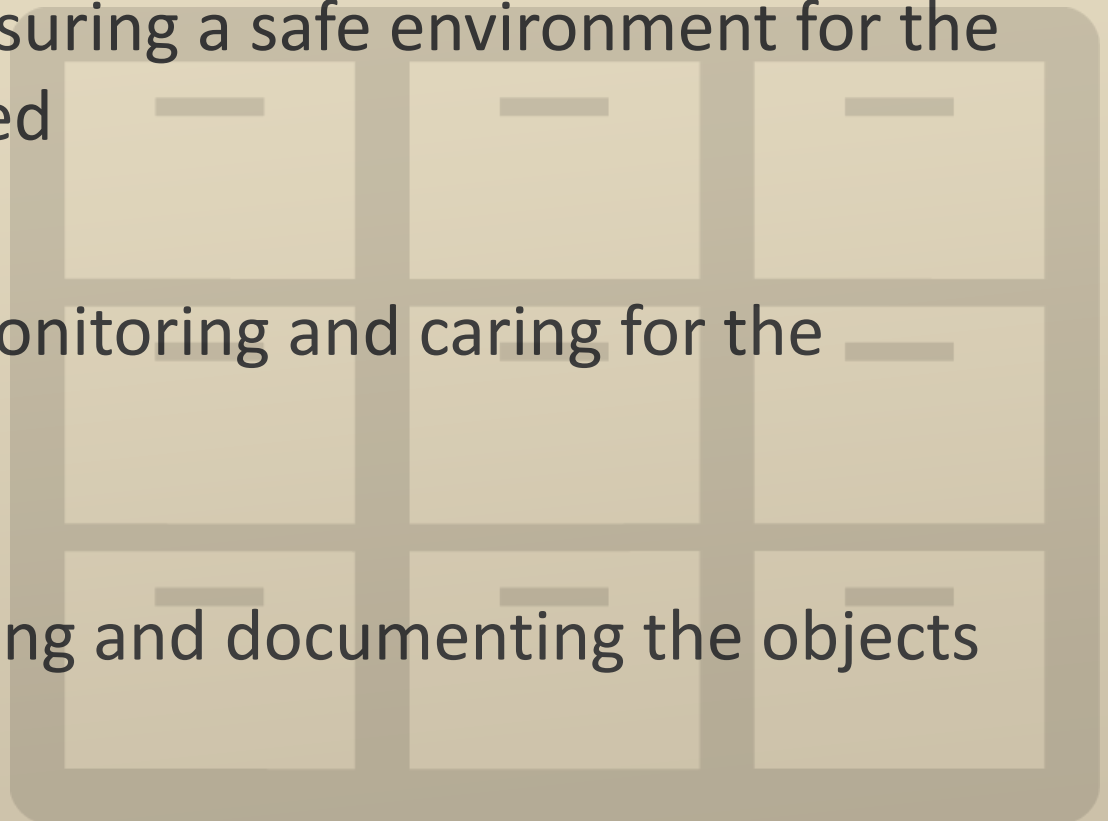
Adam Brin
Digital Antiquity

What makes a repository?

Preservation – ensuring a safe environment for the materials deposited

Conservation – monitoring and caring for the objects

Context – organizing and documenting the objects



So, what about a digital repository?

Preservation – ensuring that the information entered and provided is stored, managed, and usable in 100 years...

Conservation – testing files regularly and converting them as necessary to be readable and accessible.

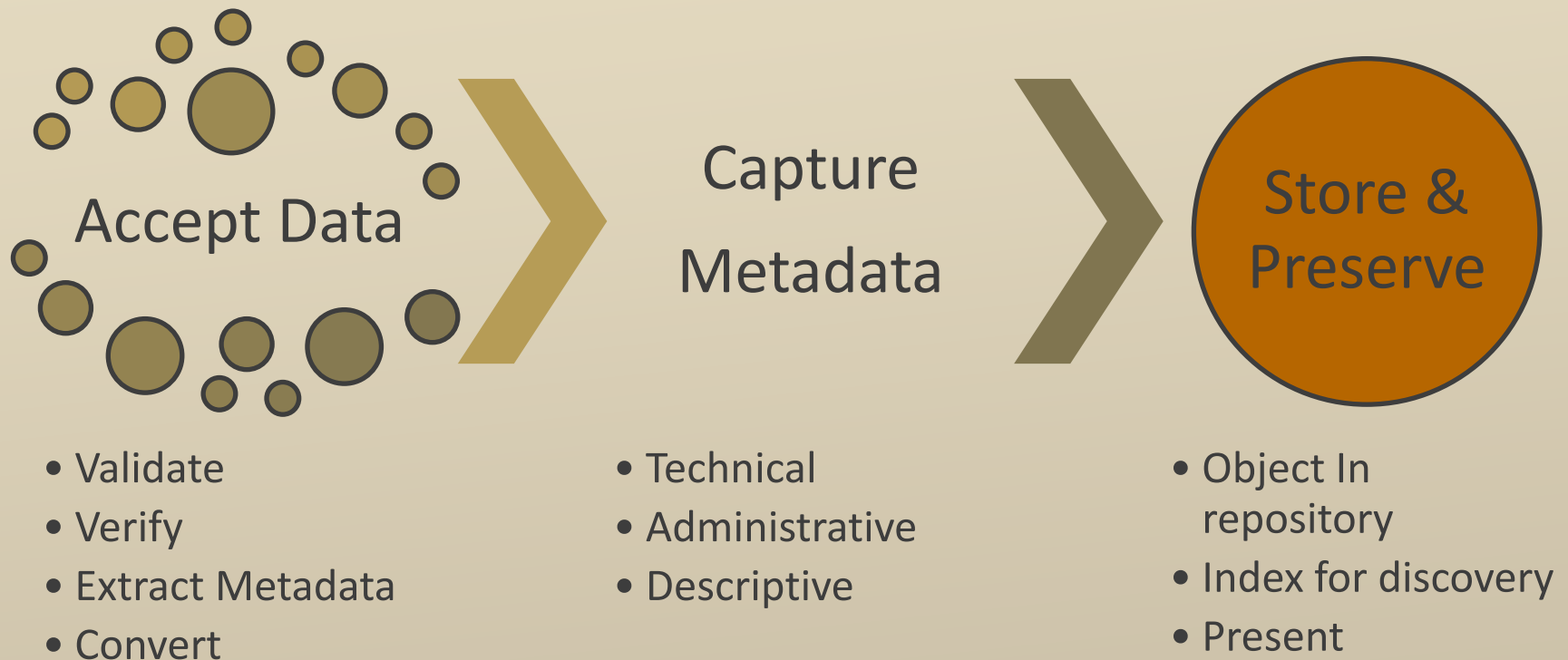
So, what about a digital repository?

Context – Like physical collections, digital collections require metadata. What is the “minimum” information required to properly **read** and **use** a file?

Access – Repositories often work under two models: “dark” and “open.”

Identity – All materials stored in the repository should be uniquely identifiable.

Basic Repository Workflow



Most of a repository is below the surface...

Repository Software Components

Preservation

Metadata

Access / Discovery

Curation

Fixity

Identity

Technical

Administrative

Descriptive

Browse

Search

Organize

But, it's not just software...

Probably the most important thing to understand about a digital repository is that it's not just software...

Digital Repositories require:

- Organizational commitment
- Monitoring
- Financial Support
- Long term Planning
- Infrastructure

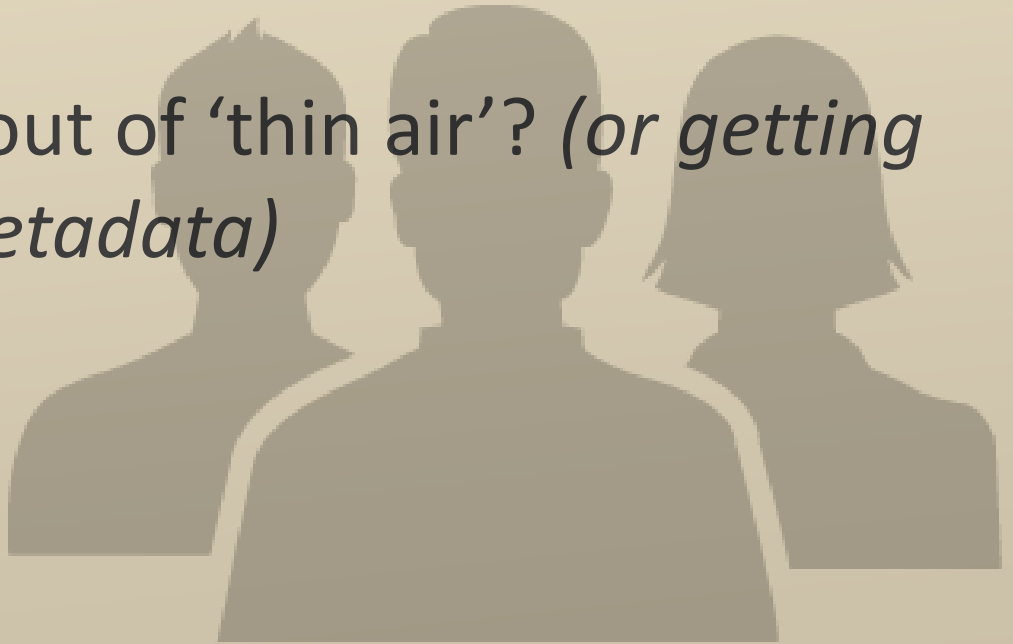


Technical Challenges...

- Developing and maintaining relationships between files
- Validating files
- Dealing with proprietary formats
- Migration
- Security

Social Challenges

- Integrating into the scholarly or professional workflow *(or getting users to contribute)*
- Making metadata out of ‘thin air’? *(or getting users to provide metadata)*
- Copyright



Why create tDAR?

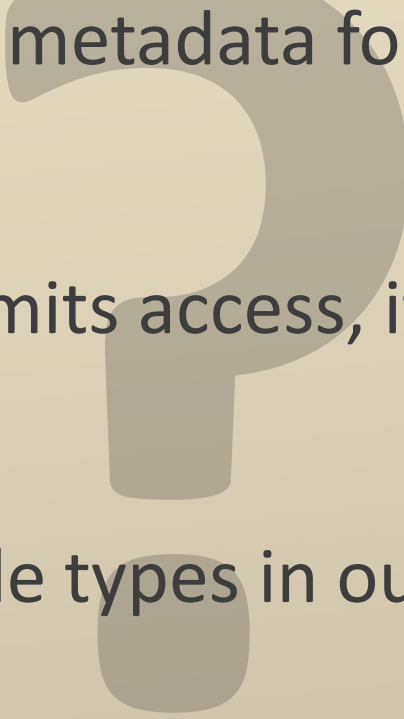
Digital Data are not accessible—

- Standard archaeological work flows do not move digital data into trusted repositories.
- Few institutions provide digital curation (access and preservation).
- Media on which data reside are treated as artifacts.

Digital Data are fragile and are not preserved—

- media degradation
- software obsolescence
- loss of information about the data (metadata)

What's Special About tDAR?

- Built around archaeological metadata for cataloging and discovery
 - Protects site-security and limits access, if necessary
 - Supports commonly used file types in our field
 - Enables the integration of disparate datasets within the tool
- 

Archaeological Search

Grouping (Show results that match ALL the terms below)

Title			
Material Types	<input type="checkbox"/> Basketry <input type="checkbox"/> Ceramic <input type="checkbox"/> Dating Sample <input type="checkbox"/> Fire Cracked Rock <input type="checkbox"/> Ground Stone <input type="checkbox"/> Human Remains <input type="checkbox"/> Metal <input type="checkbox"/> Pollen <input type="checkbox"/> Textile	<input type="checkbox"/> Building Materials <input type="checkbox"/> Chipped Stone <input type="checkbox"/> Fauna <input type="checkbox"/> Glass <input type="checkbox"/> Hide <input type="checkbox"/> Macrobotanical <input type="checkbox"/> Mineral <input type="checkbox"/> Shell <input type="checkbox"/> Wood	<div>-</div> <div>-</div>

[+ Add another search term](#)

Narrow Your Search

Limit by resource type:

<input type="checkbox"/> Projects	<input type="checkbox"/> Documents	<input type="checkbox"/> Datasets
<input type="checkbox"/> Images	<input type="checkbox"/> Sensory Data	<input type="checkbox"/> Coding Sheets
<input type="checkbox"/> Ontologies		

STATUS

☐ Draft ☐ Active ☐ Flagged ☐ Deleted

LIMIT BY GEOGRAPHIC REGION:



Data Access

[Home](#) [Search](#) [Login](#) [Help](#)

DATASET Yellow Jacket Pueblo faunal dataset

Part of the *Crow Canyon Archaeological Center fauna through 2008 project*

[Robert Muir](#) (Creator) [Jonathan Driver](#) (Creator) [Karen Schollmeyer](#) (Creator)

Faunal data from Yellow Jacket Pueblo, excavated by Crow Canyon Archaeological Center 1995 through 1997. Faunal analysis was by Robert J. Muir and Jonathan C. Driver in 1999, using methodology described in the CCAC Manual for the Description of Vertebrate Remains. Context information was integrated by Karen G. Schollmeyer in 2011 using data supplied by CCAC. Fauna is from AD 1060 to the late 1200s. Additional information on Yellow Jacket Pueblo and its fauna is available on the web at http://www.crowcanyon.org/ResearchReports/YellowJacket/Text/yjpw_faunalremains.asp.

Basic Information

Resource language: English

Year: 2011

tDAR ID: 6126

External Id: doi:10.6067/XCV8H41Q2T

Download(s)

File #1 [yellow-jacket-fauna-may2011.xlsx](#) (1.16mb) [downloaded 20 times]

Keywords

Site Name: [Yellow Jacket Pueblo](#)

Site Type: [Domestic Structure or Architectural Complex](#) • [Non-Domestic Structures](#)

Culture: [Ancestral Puebloan](#)

Material: [Fauna](#)

Investigation Types: [Data Recovery](#) / [Excavation](#)

Spatial Coverage



Easy Capture & Entry

Create a new Document

Basic Information

Status Title* Year* Document Type ☒ Book / Report ☐ Book Chapter / Section ☐ Journal Article
☐ Thesis / Dissertation ☐ Conference Presentation ☐ Other

Authors / Editors

1	PERSON							
		Last Name	First Name	Email				
		Institution Name			Role	Author		
2	INSTITUTION							
		Institution Name			Role	Author		

[+ add another person](#)[+ add another institution](#)

Additional Citation Information

Language Series Title Series # Edition Publisher Publisher Loc. Conv Location

Introduction

This is the page for editing metadata associated with Documents.

Documenting Datasets

YELLOW-JACKET-FAUNA-MAY2011 TABLE

Column Name	Data Type	Type	Category	Coding Sheet	Ontology
■ Site	VARCHAR	Uncoded Value	Provenience and Context : Horizontal Location	none	none
■ PD	BIGINT	Uncoded Value	Provenience and Context	none	none
■ FS	BIGINT	Uncoded Value	Provenience and Context	none	none
■ RecID	BIGINT	Uncoded Value	Fauna	none	none
■ Taxon	VARCHAR	Coded Value	Fauna : Taxon	Taxon coding sheet for Crow Canyon Archaeological Center fauna through 2008	Outdated: Fauna Taxon - Southwest US Ontology (3028)
■ Element	VARCHAR	Coded Value	Fauna : Element	Element coding sheet for Crow Canyon Archaeological Center fauna through 2008	Fauna Element Ontology
■ Part	BIGINT	Coded Value	Fauna : Breakage	Part coding sheet for Crow Canyon Archaeological Center fauna through 2008	none
■ Side	VARCHAR	Coded Value	Fauna : Side	Side coding sheet for Crow Canyon Archaeological Center fauna through 2008	none
■ ProxAntFusion	VARCHAR	Coded Value	Fauna : Fusion	Fusion coding sheet for Crow Canyon Archaeological Center fauna through 2008	none
■ DistPostFusion	VARCHAR	Coded Value	Fauna : Fusion	Fusion coding sheet for Crow Canyon Archaeological Center fauna through 2008	none
■ Breakage	VARCHAR	Coded Value	Fauna : Breakage	Breakage coding sheet for Crow Canyon Archaeological Center fauna through 2008	none

Integration of Datasets

Create your Integration Table:

EACH COLUMN BELOW WILL BE A COLUMN IN EXCEL

☐ Auto-select integratable columns

☐ Clear all columns

Column 1: integration (Fauna Age Ontology)

x

Column 2: integration

T1. BAGE

x

T1. BSIDE

T2. Age

x

T2. Side

[+ Add a new Column](#)

[Next: filter values](#)

Select Variables

☐ Display Variable

☒ Integration Variable with mapped Ontology

☐ Measurement Variable

☐ Count Variable

▼ 1: ALEXANDRIA FAUNA DATASET

SITENO - Alexandria / Spitalfields Faunal Date Ontology	CN	FEATURE	Artifact Type	SHERDCT	MNV
CATNO	BCLASS	BCLASSID	BNAME	BNAMEID	Taxon - Fauna Taxon Ontology - TAG (UK)
BELEMENT - Outdated: Fauna Element Ontology (5863)	BELEMENTID	BAGE - Fauna Age Ontology	BAGEID	BSIDE - Fauna Side Ontology	BSIDEID
BPORTION	BPATHOL	BPATHOLID	BCONDITION	BCONDCT	BCONDGNAW
BCONDBURN	BFUNCGRP	BDIET	BCUT	COMMENTS	REFERENCE
LOCATION	BOXNO				

▼ 2: SPITALFIELDS FAUNAL MAIN INFORMATION DATASHEET WITH CONTEXTUAL DATA

Site code	Site-context	Context	Basic INT EXP	Context Notes	Period
Period text	Site-bone	Bone ID	Species Common name	Bone Common name	Side - Fauna Side Ontology
Part Common	No	FUS PROX	FUS DIS	Prop	Age - Fauna Age Ontology
Sex - Fauna Sex Ontology	Carcas	No.teeth with tooth wear	No. measurements taken	No. Modifications recorded	Notes

Reconcile Ontologies

Filter Ontology Values

You can filter data values for the datasets listed below. Only checked values mapped to an ontology will be reported below. Select checkboxes next to the values that you would like to be included or aggregated to that level. Checkboxes are automatically checked if values are present in ALL datatables. Indented unchecked values are aggregated to the next higher level that is checked. Unchecked values at the top (leftmost) level are ignored, along with any unchecked subdivision categories. Values that occur in each dataset are indicated with blue checks, absent values are indicated with red x's.

Ontology labels from Fauna Age Ontology [BAGE, Age] (Select All Select All With Shared Values Clear All Hide Unmapped)	bage (Alexandria fauna dataset)	age (Spitalfields faunal main information datasheet with contextual data)
<input type="checkbox"/> adult	✓	✓
<input type="checkbox"/> indeterminate	✗	✗
<input type="checkbox"/> juvenile (all clear)	✓	✓
<input type="checkbox"/> fetal	✗	✓
<input type="checkbox"/> other juvenile	✗	✓
<input type="checkbox"/> unknown	✗	✗
Ontology labels from Fauna Side Ontology [Side, BSIDE] (Select All Select All With Shared Values Clear All Hide Unmapped)	side (Spitalfields faunal main information datasheet with contextual data)	bside (Alexandria fauna dataset)
<input type="checkbox"/> Axial OR Not Applicable	✗	✓
<input type="checkbox"/> Both Left and Right	✓	✗
<input type="checkbox"/> Indeterminate	✗	✗
<input type="checkbox"/> Left	✓	✓
<input type="checkbox"/> Not Recorded	✗	✗
<input type="checkbox"/> Right	✓	✓

Thanks



NATIONAL ENDOWMENT FOR THE
Humanities

The Andrew W. Mellon Foundation

JISC

Attributions

- The Noun Project:
 - File Cabinet - **Alex Hartmann**
 - Safe - **Simon Child**
 - Community - **Rémy Médard**
 - Tag - **Ian Hamilton**
 - Microchip - **Rémy Médard**