Outside the Box: Building a Digital Curation Ecosystem for Preservation and Access

Andy Weidner, Sean Watkins, Bethany Scott, Drew Krewer, Anne Washington, Matt Richardson, Annie Wu, Santi Thompson

UNIVERSITY of HOUSTON | LIBRARIES

Texas Conference on Digital Libraries
Austin, TX  |  May 24, 2017
➢ Introduction
  ○ UH Libraries Task Forces
  ○ Project Team

➢ Bayou City DAMS
  ○ Agile Library Project
  ○ Digital Curation Ecosystem

➢ Workflow Tools
  ○ BCDAMS-MAP
  ○ Carpenters
  ○ Brays
  ○ Cedar
  ○ Greens
  ○ Halls

➢ Next Steps
UH Libraries Task Forces

- Digital Asset Management System Implementation Task Force (DAMSTF)
- Digital Preservation Task Force (DPTF)
- Iterative Development
  - Tools
  - Workflows
- Communicate Progress
Project Team

➢ Sean Watkins (Lead Developer)
➢ Andy Weidner (Project Manager)

➢ Marcus Elizondo (Systems)
➢ Drew Krewer (Digitization)
➢ Matt Richardson (Spec. Coll.)
➢ Bethany Scott (Spec. Coll.)
➢ Emily Vinson (Spec. Coll.)
➢ Anne Washington (Metadata)

➢ Santi Thompson (Steering)
➢ Annie Wu (Steering)
Bayou City DAMS Project
Digital Curation Ecosystem

PM/MM/AC Files

Carpenters
Digitization

Greens
ID Minter

Cedar
SKOS Vocab Manager

Brays
Metadata

Mint Digital Object ARKs

Mint Authority ARKs

Collection Hierarchy

Preservation Object SIPS

Archivematica

ArchivesSpace

Halls
Public User Interface

Jackson
Export

Hyku | Avalon

Access Objects DIP

Authority Control

Access Metadata Spec

Access Objects DIP

POST Digital Object ARKs

Armand
Import

BCDAMS-MAP
Metadata Application Profile

ACCESS METADATA SPEC

Access Metadata Spec

Preservation Metadata Spec

Access Metadata Spec

API Request

Data Input

KEY

UH Libraries Dev

Community Dev

Post-process
Preservation Workflow

PM/MM/AC Files

Carpenters
Digitization

Preservation Object SIPS

Collection Hierarchy

Archivematica

ArchivesSpace

Jackson Export

Hyku | Avalon

BCDAMS-MAP
Metadata Application Profile

Preservation Metadata Spec

KEY

API Request
Data Input
Post-process

UH Libraries Dev
Community Dev
Curation Workflow Tools

- Carpenters
  - Digitization
- Greens
  - ID Minter
- Cedar
  - SKOS Vocab Manager
- Brays
  - Metadata
- BCDAMS-MAP
  - Metadata Application Profile
- ArchivesSpace
- Halls
  - Public User Interface
BCDAMS-MAP

- Simplified Metadata Schema
- Align with DPLA MAP
- User Interface for Metadata Creators
- API for Workflow Tools (Brays & Carpenters)
- Automated Authority Control (Cedar)
Bayou City DAMS

Metadata Application Profile

Descriptive: Title | Alternate Title | Series Title | Creator | Contributor | Publisher | Date | Language | Description | Subject | Place | Time Period | Genre | Format | Type | Extent

Administrative: Identifier | Collection | ArchivesSpace URI | Donor | Rights | Access Rights | Note

Descriptive Metadata

<table>
<thead>
<tr>
<th>Label</th>
<th>Element</th>
<th>URI</th>
<th>Same As</th>
<th>Definition</th>
</tr>
</thead>
</table>
Carpenters: Digitization Workflow

- Load ArchivesSpace finding aid & select components from the intellectual hierarchy
- Digitize content
- Associate files with archival components
- Export Archivematica Submission Information Package (SIP) & access system Dissemination Information Package (DIP)
Artists, 1900-2010
Production and Events, 1924-2008
Labels and Studios, 1924-2008
Radio, 1939-2005
   Chambers, Vernon (KCOH), 1953-1955, undated
   Box: 7, Folder: 11
   Frazier, Skipper Lee, 1999, undated
   Box: 7, Folder: 12
   KATL, 1947
   Box: 7, Folder: 13
   Box: 7, Folder: 14
   Rochon, Lonnie (KNUZ), approximately 1950
   Box: 7, Folder: 15
   WIBW, Round-up, 1945, 1950
   Box: 7, Folder: 16
   WOAI San Antonio, approximately 1939, undated
   Box: 7, Folder: 17
Producers, 1959-2004
Venues, 2001-2003, 2010
   Box: 6, Folder: 2
   Bill Mraz Dance Hall, 2002
   Box: 6, Folder: 3
Record Shops, 2002
   Rio Record Shop, 2004, undated
   Box: 6, Folder: 4
Geographical, 1925-2008
Genres, 1960-2006
Reference, 1948-2006
Ephemera, 1945-1967
Box: 4, Folder: 25, Item: 1
Duke/Peacock Records - Administrative, 1951-1973, 1994, undated > Item 001

Preservation Files
- uhlib_2011_011_b004_f026_000_001_pm...
- uhlib_2011_011_b004_f026_000_002_pm...

Modified Master Files +

Access Copy Files
- uhlib_2011_011_b004_f026_001_001.tif
- uhlib_2011_011_b004_f026_001_002.tif

Box: 4, Folder: 25, Item: 2

Preservation Files
- uhlib_2011_011_b004_f026_000_001_pm...
- uhlib_2011_011_b004_f026_000_002_pm...

Modified Master Files +

Access Copy Files
- uhlib_2011_011_b004_f025_006_001.tif
- uhlib_2011_011_b004_f025_006_002.tif

Box: 6, Folder: 2, Item: 1

Preservation Files
- uhlib_2011_011_b006_f002_001_000_001_pm...
- uhlib_2011_011_b006_f002_001_002_000_pm...

Modified Master Files +

Access Copy Files
- uhlib_2011_011_b006_f002_001_001.tif
- uhlib_2011_011_b006_f002_001_002.tif

Box: 6, Folder: 4, Item: 1
Duke/Peacock Records - Promotional photographs, 1958 > Item 001

Preservation Files
- uhlib_2011_011_b006_f004_001_000_001_pm...
- uhlib_2011_011_b006_f004_000_002_000_pm...

Modified Master Files +

Access Copy Files
- uhlib_2011_011_b006_f004_001_001.tif
- uhlib_2011_011_b006_f004_001_002.tif

Box: 6, Folder: 4, Item: 2
Duke/Peacock Records - Promotional photographs, 1958 > Item 002

Preservation Files
- uhlib_2011_011_b006_f004_000_001_001_pm...
- uhlib_2011_011_b006_f004_000_002_001_pm...

Modified Master Files +

Access Copy Files
- uhlib_2011_011_b006_f004_001_001.tif
- uhlib_2011_011_b006_f004_001_002.tif
Done packaging DIP

Minted SIP Ark: ark:/84475/pm2832r5643

Creating SIP...

Creating directories

Moved file uLib_b006_f025_004_001_pm.tif to /Users/sean/ownCloud/Work/Projects/DAMS/carpenters/2011-011_tmo_premeta/2011-011_objects/pm/s002/ss001/003_pm2832r5643/uLib_b006_f025_004_001_pm.tif
Moved file uLib_b006_f025_004_002_pm.tif to /Users/sean/ownCloud/Work/Projects/DAMS/carpenters/2011-011_tmo_premeta/2011-011_objects/pm/s002/ss001/003_pm2832r5643/uLib_b006_f025_004_002_pm.tif
Moved file uLib_b006_f025_005_001_pm.tif to /Users/sean/ownCloud/Work/Projects/DAMS/carpenters/2011-011_tmo_premeta/2011-011_objects/pm/s002/ss001/003_pm2832r5643/uLib_b006_f025_005_001_pm.tif
Moved file uLib_b006_f025_005_002_pm.tif to /Users/sean/ownCloud/Work/Projects/DAMS/carpenters/2011-011_tmo_premeta/2011-011_objects/pm/s002/ss001/003_pm2832r5643/uLib_b006_f025_005_002_pm.tif
Moved file uLib_b006_f000_001_001_pm.tif to /Users/sean/ownCloud/Work/Projects/DAMS/carpenters/2011-011_tmo_premeta/2011-011_objects/pm/s002/ss001/001_pm2832r5643/uLib_b006_f000_001_001_pm.tif
Moved file uLib_b006_f000_002_pm.tif to /Users/sean/ownCloud/Work/Projects/DAMS/carpenters/2011-011_tmo_premeta/2011-011_objects/pm/s002/ss001/001_pm2832r5643/uLib_b006_f000_002_pm.tif
Moved file uLib_b006_f000_003_pm.tif to /Users/sean/ownCloud/Work/Projects/DAMS/carpenters/2011-011_tmo_premeta/2011-011_objects/pm/s002/ss001/001_pm2832r5643/uLib_b006_f000_003_pm.tif
Moved file uLib_b006_f000_004_pm.tif to /Users/sean/ownCloud/Work/Projects/DAMS/carpenters/2011-011_tmo_premeta/2011-011_objects/pm/s002/ss001/001_pm2832r5643/uLib_b006_f000_004_pm.tif
Moved file uLib_b006_f000_005_pm.tif to /Users/sean/ownCloud/Work/Projects/DAMS/carpenters/2011-011_tmo_premeta/2011-011_objects/pm/s002/ss001/001_pm2832r5643/uLib_b006_f000_005_pm.tif
Moved file uLib_b006_f000_006_pm.tif to /Users/sean/ownCloud/Work/Projects/DAMS/carpenters/2011-011_tmo_premeta/2011-011_objects/pm/s002/ss001/001_pm2832r5643/uLib_b006_f000_006_pm.tif
Moved file uLib_b006_f000_008_001_pm.tif to /Users/sean/ownCloud/Work/Projects/DAMS/carpenters/2011-011_tmo_premeta/2011-011_objects/pm/s002/ss001/002_pm2832r5643/uLib_b006_f000_008_001_pm.tif
Moved file uLib_b006_f000_008_002_pm.tif to /Users/sean/ownCloud/Work/Projects/DAMS/carpenters/2011-011_tmo_premeta/2011-011_objects/pm/s002/ss001/002_pm2832r5643/uLib_b006_f000_008_002_pm.tif
Moved file uLib_b006_f000_009_pm.tif to /Users/sean/ownCloud/Work/Projects/DAMS/carpenters/2011-011_tmo_premeta/2011-011_objects/pm/s002/ss001/002_pm2832r5643/uLib_b006_f000_009_pm.tif
Moved file uLib_b006_f000_010_001_pm.tif to /Users/sean/ownCloud/Work/Projects/DAMS/carpenters/2011-011_tmo_premeta/2011-011_objects/pm/s002/ss001/003_pm2832r5643/uLib_b006_f000_010_001_pm.tif
Moved file uLib_b006_f000_010_002_pm.tif to /Users/sean/ownCloud/Work/Projects/DAMS/carpenters/2011-011_tmo_premeta/2011-011_objects/pm/s002/ss001/003_pm2832r5643/uLib_b006_f000_010_002_pm.tif
Moved file uLib_b006_f000_011_001_pm.tif to /Users/sean/ownCloud/Work/Projects/DAMS/carpenters/2011-011_tmo_premeta/2011-011_objects/pm/s002/ss001/003_pm2832r5643/uLib_b006_f000_011_001_pm.tif
Moved file uLib_b006_f000_011_002_pm.tif to /Users/sean/ownCloud/Work/Projects/DAMS/carpenters/2011-011_tmo_premeta/2011-011_objects/pm/s002/ss001/003_pm2832r5643/uLib_b006_f000_011_002_pm.tif
Moved file uLib_b006_f000_012_001_pm.tif to /Users/sean/ownCloud/Work/Projects/DAMS/carpenters/2011-011_tmo_premeta/2011-011_objects/pm/s002/ss001/004_pm2832r5643/uLib_b006_f000_012_001_pm.tif
Moved file uLib_b006_f000_012_002_pm.tif to /Users/sean/ownCloud/Work/Projects/DAMS/carpenters/2011-011_tmo_premeta/2011-011_objects/pm/s002/ss001/004_pm2832r5643/uLib_b006_f000_012_002_pm.tif
Moved file uLib_b006_f000_013_001_pm.tif to /Users/sean/ownCloud/Work/Projects/DAMS/carpenters/2011-011_tmo_premeta/2011-011_objects/pm/s002/ss001/004_pm2832r5643/uLib_b006_f000_013_001_pm.tif
Moved file uLib_b006_f000_013_002_pm.tif to /Users/sean/ownCloud/Work/Projects/DAMS/carpenters/2011-011_tmo_premeta/2011-011_objects/pm/s002/ss001/004_pm2832r5643/uLib_b006_f000_013_002_pm.tif
Created SIP metadata.csv
Packaging project file


Done packaging SIP
Brays: Descriptive Metadata

- Metadata creation/editing interface
- Reads Carpenters DIP (CSV & files)
- Integrates with BCDAMS-MAP
- Provides basic validation
- Integrates with Cedar vocabulary manager
Waves on Seawall 4:30-5:00 p.m.

Alternate Title
An alternative name for the resource.

dcterms.alternative

Series Title
Work in which the part has been issued; the title of the larger work appears on the part.

bf.series

Creator
An entity primarily responsible for making the resource.

Frazier, Rex Dunbar

Contributor
An entity responsible for making contributions to the resource.

dcterms.contributor

Publisher
An entity responsible for making the resource available.

dcterms.publisher

Date
A point or period of time associated with an event in the lifecycle of the resource.

1915-08-16

Language
A language of the resource.

dcterms.language

Description
An account of the resource.

Waves on the Galveston Seawall between 4:30 and 5:00 p.m. before the hurricane.
Waves on the Galveston Seawall between 4:30 and 5:00 p.m. before the hurricane.
Cedar: Local Vocabulary Manager

➢ Authority control
➢ Workflow efficiency
➢ Linked Data publication
Cedar: Local Vocabulary Manager

Bayous Concept

http://id.loc.gov/authorities/subjects/sh85012513  Close Matches
http://vocab.getty.edu/aat/300008674  Close Matches
https://id.lib.uh.edu/ark:/84475/au9180vs53d  Exact Matches

Representations
- HTML
- RDF/XML
- RDF/TURTLE
- RDF/NTRIPLES
- CONCEPT URI
Cedar: Local Vocabulary Manager

@prefix : <https://vocab.lib.uh.edu/>.
@prefix dct: <http://purl.org/dc/terms/>.
@prefix foaf: <http://xmlns.com/foaf/spec/>.
@prefix iqvoc: <http://try.iqvoc.net/schema#>.
@prefix owl: <http://www.w3.org/2002/07/owl#>.
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>.
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#>.
@prefix schema: <https://vocab.lib.uh.edu/schema#>.
@prefix skos: <http://www.w3.org/2004/02/skos/core#>.
@prefix void: <http://rdfs.org/ns/void#>.

:concept skos:prefLabel "Concept"@en.
:sh85012513 a skos:Concept;
    schema:memberOf :aat;
    schema:memberOf :lcsh;
    skos:inScheme :scheme;
    skos:prefLabel "Bayous"@en;
    skos:broader :concept;
    skos:closeMatch <http://id.loc.gov/authorities/subjects/sh85012513>;
    skos:closeMatch <http://vocab.getty.edu/aat/300008674>;
    skos:exactMatch <https://id.lib.uh.edu/ark:/84475/au9180vs53d>.
Greens: ID Minter & Resolver

➢ Mint Archival Resource Key (ARK) identifiers

➢ Resolve ARK identifiers to a target URL

erc:
who: University of Houston Libraries Vocabularies
what: Bayous
when: 2016-06-23
where: https://vocab.lib.uh.edu/en/concepts/sh85012513
Greens: ID Minter & Resolver

Bayous Concept

who: University of Houston Libraries Vocabularies
what: Bayous
when: 2016-06-23
where: https://vocab.lib.uh.edu/en/concepts/sh85012513
Halls: Finding Aids

- Customized public interface for ArchivesSpace
- Browse digital collections
- Reflects archival context and sequence
Texas Music Collection, 1900-2010

Overview

Title: Texas Music Collection
ID: 05/2011-011

Primary Creator:

Extent: 11.00 linear feet

Subjects: "Music -- Texas -- History and criticism", "Musicians -- Texas", "Popular music -- Texas -- History and criticism"

Forms of Material: Administrative records, Correspondence, Ephemera, Financial records, Interviews, Photographs, Publications (document genre)

Languages: English, English

Scope and Contents

The Texas Music Collection contains research files on the history of Texas music, particularly musicians and record labels, including the administrative and financial files of Duke/Peacock records, of the Houston area. Newspaper clippings, photographs, financial records, songbooks, and administrative files comprise the research files.

Subject/Index Terms

- Music -- Texas -- History and criticism
- Musicians -- Texas
- Popular music -- Texas -- History and criticism

Administrative Information

Repository: University of Houston Libraries Special Collections
Conditions Governing Access: Open for research:
Conditions Governing Use: Special Collections owns the physical items in our collections, but copyright normally belongs to the creator of the materials or their heirs. The researcher has full responsibility for determining copyright status, locating copyright holders, and abiding by current copyright laws when publishing or displaying copies of Special Collections material in print or electronic form. For more information, consult the appropriate librarian.
Box and Folder Listing

Expand/Collapse All

Series: Artists, 1900-2010
The Artists series contains files on various Texas music artists and typically contains biographical information and materials documenting their recording careers. Formats represented in this series include photographs, correspondence, newspaper clippings, and promotional materials.

- Box 1
- Box 2
- Box 3
- Box 4

Series: Production and Events, 1924-2008
The Production and Events series comprises a range of material documenting the production of Texas music and is further divided into subseries pertaining to: Labels and Studios, Radio Stations, Producers, Venues, and Record Shops.

Sub-Series: Labels and Studios, 1924-2008

- Box 4
  - Folder 15: General studio files, 1987-1997, undated
  - Folder 17: Audio Company of America - Master books, 1950-1964, undated
  - Folder 18: Audio Company of America - Master books, 1950-1964, undated
  - Folder 19: Audio Company of America - Master books, 1950-1964, undated
  - Folder 20: Columbia - Session files, 1954
  - Folder 21: Columbia - Texas Masters, 1924-1941, undated
  - Folder 22: Decca, undated
  - Folder 23: Decca - Coral session, 1951-1952
Duke/Peacock Records - Promotional photographs

Overview

Collection: Texas Music Collection
Parent: Labels and Studios

Container

- Box 6
- Folder 4

Digital Objects

[Images of various promotional photographs associated with Duke/Peacock Records]
Next Steps

➢ Community Engagement
  ○ IMLS Grant Proposal
  ○ Hyku Beta Testing
➢ Implementation Phase 2
  ○ Refine Workflows
  ○ Migrate Data

If you want to go far, go together.
Outside the Box: Building a Digital Curation Ecosystem for Preservation and Access

Andy Weidner, Sean Watkins, Bethany Scott, Drew Krewer, Anne Washington, Matt Richardson, Annie Wu, Santi Thompson

UNIVERSITY of HOUSTON | LIBRARIES

Texas Conference on Digital Libraries
Austin, TX | May 24, 2017