

UC San Diego

Presentations and Posters

Title

All Teh Metadatas Re-Revisited

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Authors

Cowles, Kevin Esme
Critchlow, Matthew
Westbrook, Bradley

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Peer reviewed

ALL THE METADATAS

Re-revisited

2013 code4lib Meeting

February 13, 2013

Esmé Cowles
Matthew Critchlow
Bradley Westbrook



The Library
UC SAN DIEGO

Overview

- Needs Assessment
- Data Model Process
- Implementation



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Needs Assessment

Brad Westbrook



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Need One: More consistent data



Need Two: Maintain syntax of hierarchical subjects

Salvatierra, Juan María de, 1648-1717 -- Correspondence

Ugarte, Juan de, 1662-1730

Jesuits -- Missions -- Mexico -- Loreto (Baja California Sur)

Missions, Spanish -- Mexico -- Loreto (Baja California Sur)

Indians of Mexico -- Missions -- Loreto (Baja California Sur) -- History

Loreto (Baja California Sur, Mexico) -- History

Baja California (Mexico : Peninsula) -- History

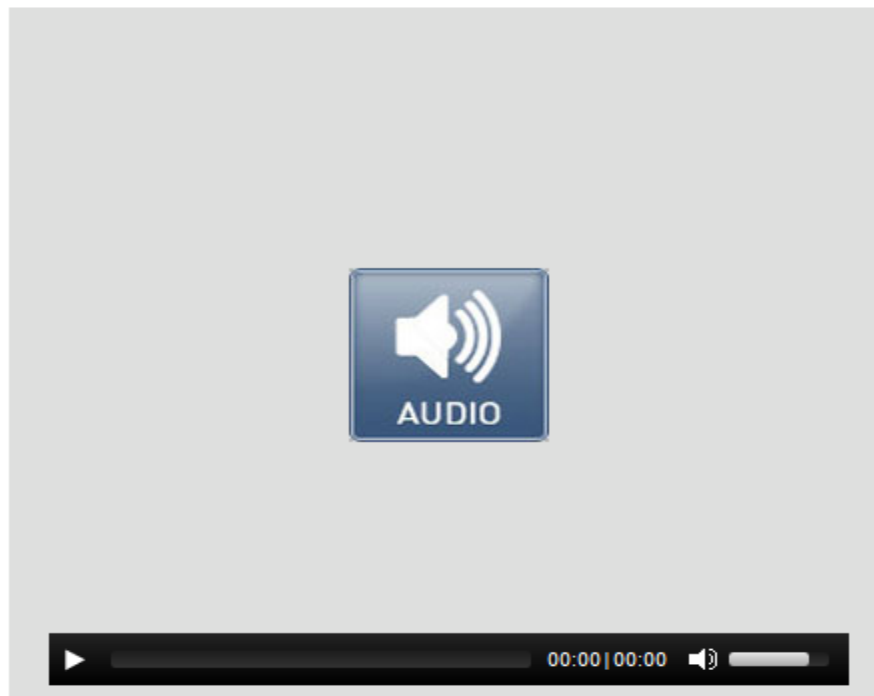
Letters -- Mexico -- Loreto (Baja California Sur) -- 1698.

Topic(s): Missions, Spanish--Mexico--Loreto (Baja California Sur)
History--Loreto (Baja California Sur, Mexico)
Correspondence--1648-1717--Salvatierra, Juan Mari^{ía} de
Missions--Jesuits--Mexico--Loreto (Baja California Sur)
1662-1730--Ugarte, Jan de
17th Century--Letters--Mexico
History--Baja California (Mexico : Peninsula)
Missions--History--Indians of Mexico--Loreto (Baja California Sur)

Need Three: Improve support for complex objects

HOME » DIGITAL LIBRARY COLLECTIONS » SEARCH RESULTS » OBJECT DETAILS

New Instrumental Resources Conference




The main content area features a large, light gray rectangular placeholder. In the center of this placeholder is a blue square icon with a white speaker symbol and the word "AUDIO" below it. Below the placeholder is a black audio player control bar with a play button, a progress bar, and a volume control icon. The progress bar shows "00:00 | 00:00".

[Back to Results](#)


Center for Music Experiment Archive

 [Part 1 of 24](#)

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Also from [Center for Music Experiment Archive](#)

1 through 5 of total 503 listed

[▶ More..](#)



[Aaron Cicourel](#)



[Acoustics of Nonlinear Processes in Brass Tone](#)

```

+ <mets:dmdSec ID="DM1"></mets:dmdSec>
- <mets:dmdSec ID="DM26">
  - <mets:mdWrap MDTYPE="MODS" MIMETYPE="text/xml">
    - <mets:xmlData>
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```


Need Four: Align more strongly with DL community

- Make sure UCSD RDF is public facing
 - Use vocabularies in the public
 - Make UCSD vocabularies public
- Develop technology stack
 - Utilize contributions from non-UCSD sources
 - Contribute to non-UCSD endeavors

Data Model Process

Matt Critchlow



The Library
UC SAN DIEGO

Project Overview

Research Data Curation Pilot **Deadline:** June, 2013

Timeline: July 16, 2012 – Oct 29, 2012

Deliverables

- Abstract Data Model
- OWL/RDF Ontology
- Data Model Extension Guidelines

Team

Metadata Analyst: Arwen Hutt, Bradley Westbrook

IT: Esmé Cowles, Matt Critchlow, Longshou Situ

User Stories

Object

As a administrative unit manager, I want know all the components belonging to an object.

As administrative unit manager, I want to know all the files belonging to an object

As an **administrative unit manager**, I want to indicate any external versions or descriptions of an object that may be of probable importance to a user

As a administrative unit manager, I want to indicate subjects that are related to an object

As a administrative unit manager, I want to indicate the copyright status of an object

As a **user**, I want to know what collection(s) an object belongs to

As a administrative unit manager, I want to indicate any license pertinent to an object.

As a **DAMS manager**, I want to know what administrative unit an object belongs to

As a administrative unit manager, I want to know all events done to an object over the object's life cycle.

As a DAMS manager, I want to know what administrative unit an object belongs to.

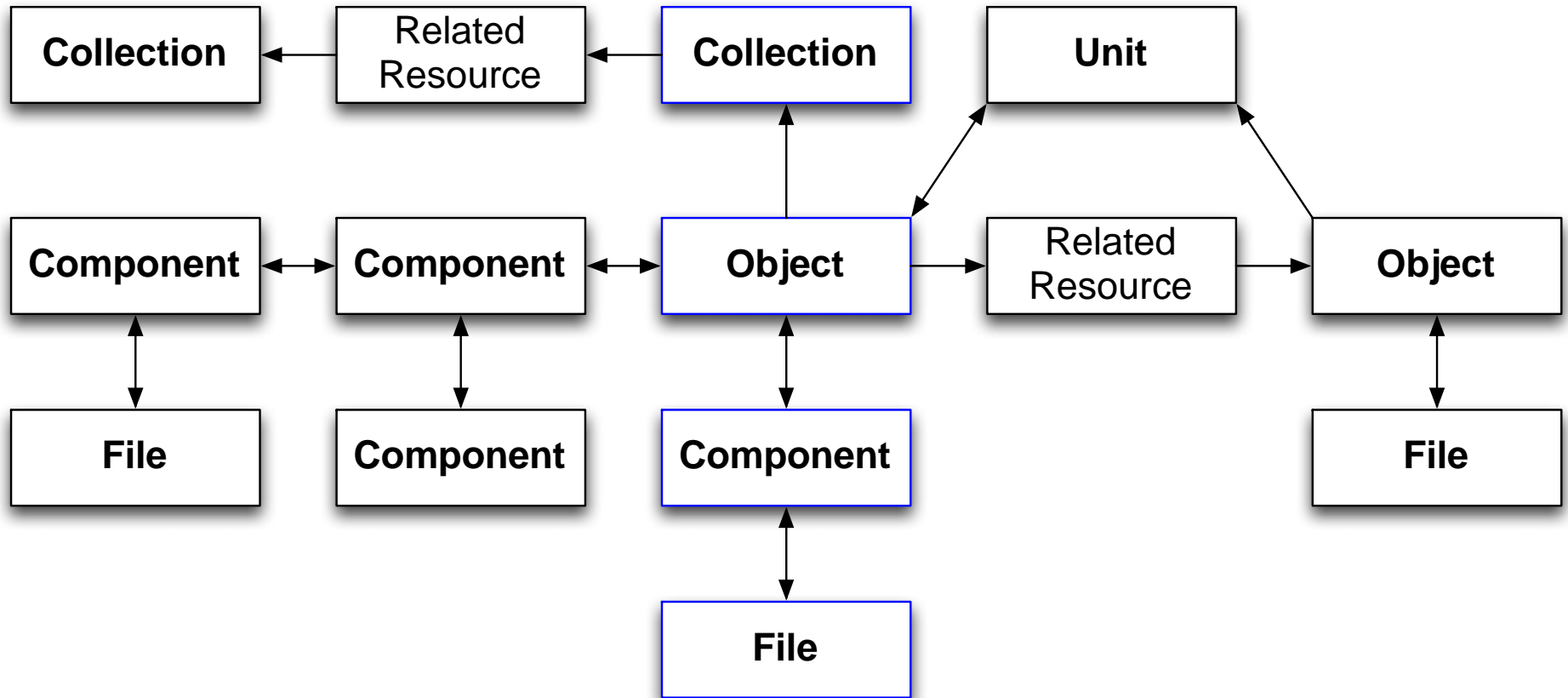
As a DAMS manager I want to know what collection(s) an object belongs to.

As a user, I want to know what administrative unit an object belongs to.

As a user, I want to know what collection(s) an object belongs to.

As a user, I want to see all the component parts of an object.

Abstract Model – High Level



Data Dictionary

Object	ID (required)	Description	Administrative Unit (administrativeUnit 1)	Notes
Title (title 1-m)				
		types of information: 1) one or more content files, 2) one or more metadata	(hasComponent 0-m) File (hasFile 0-m)	Must have at least one child component or file- DAMS Object
Copyright (copyright 1)				
		of the object together and maintaining the	Language (language 1-m)	examples) Mandatory event: object
Language (language 1-m)				
			Subject (subject 0-m)	superclass.
Administrative Unit (unit 1)				
			License (license, 0-1)	
Relationship (relationship 0-m)				
			Related Resource (relatedResource 0-m)	
			DAMS Event (event 1-m)	

Ontology

- Relationship
- Repository
- ▶ ● Rights
- ▶ ● RightsAction
- SourceCapture
- Title
- Vocabulary
- ▼ ● VocabularyEntry
 - Language
 - Role
- 'Deprecated Authority'
- ▶ ● Element
- ▶ ● Label
- LinguisticSystem = 'Language'
- List
- ▼ ● 'MADS Type'
 - ▶ ● 'Complex Type'
 - ▼ ● 'Simple Type'
 - BuiltWorkPlace
 - CulturalContext
 - Function
 - 'Genre/Form Type'
 - ▶ ● 'Geographic Authority'
 - Iconography
 - 'Language Type' = Lingu
 - 'Name Type'
 - 'Conference Name Ty
 - 'Corporate Name Typ
 - 'Family Name Type'
 - 'Personal Name Type'

comment

"Name/Role bundle which is linked to from Collection, Object, etc."

Description: Relationship

Equivalent classes +

Superclasses +

● DAMSThing

● name **exactly 1** 'Name Type'

● role **min 1** Role

Inherited anonymous classes

● event **only** DAMSEvent

Members +

Keys +

Thing 1, Thing 2



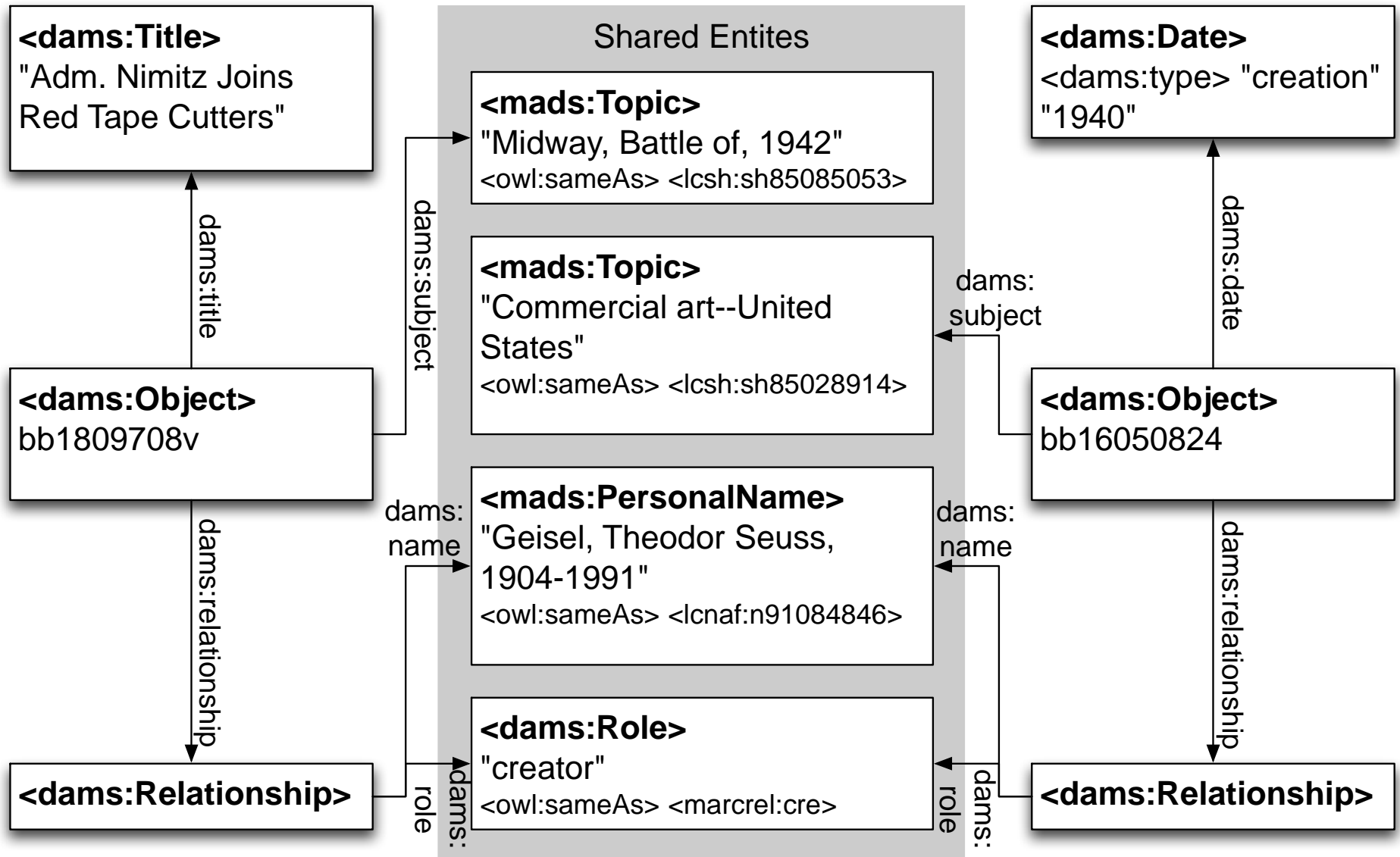
Adm. Nimitz Joins Red Tape Cutters

The Society of Red Tape Cutters is proud to add to its membership Adm. Chester Nimitz, Maj. Gen. Delos C. Emmons and the commanding officer of the Marines in the Hawaiian area for their bang-up victory over the Japanese in the Battle off Midway. They didn't let red tape get in their way when it came to all-out co-operation of the Army, Navy and Marines in teaching the Japanese a stiff lesson. As one American pilot put it: "The Navy found them and then the Navy, Army and Marines cleaned them up." The name of the top-ranking Marine officer in the Hawaiian area is a military secret, but we'll send him a certificate when the time comes.





Thing 1, Thing 2



Implementation

Esmé Cowles



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DAMS Repository

- New version of our lightweight repository
 - Metadata in triplestore
 - Files on disk or cloud storage
- Explicit structural metadata
- Native REST API
- Fedora REST API (partial)

DAMS Manager

- Separate Java webapp
- Ingest, batch operations
- Uses DAMS Repository REST API
- Functionality moved into the repository
 - Characterization (JHove)
 - Fixity checking
 - Derivatives (ImageMagick)

DAMS Public Access System

- Old frontend is unsustainable
- New frontend in Hydra
 - Backed by DAMS Repo, not Fedora
- Hydra platform and community

Timeline

- Started 2 months ago
- Code sprint in January with cbeer and jcoyne
- March: Beta release with research data
- Spring: Migrating existing content
- Summer: Production release

One More Thing

- We've talked about DAMS for years...
- Now we have code to share

<http://github.com/ucsdlib/>

@escowles @mattcritchlow

bdwestbrook@ucsd.edu