



Introducing Cedar

A Linked Data Authority Service at the
University of Houston Libraries

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ALA Midwinter Conference Linked Library Data Interest Group Meeting
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Cedar: Software

- Ruby on Rails Web Application
- iQvoc SKOS Vocabulary Gem
 - Full featured GUI
 - Responsive UI
- Local Customizations for Minting Identifiers



Greens: ID Minter & Resolver

- Mint Archival Resource Key (ARK) identifiers
- Resolve ARK identifiers to Cedar URLs

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

Cedar

≡ MENU

Bayous Concept

MAIN

LABELS

RELATIONS

NOTES

CONCEPT MAPPINGS

<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

erc:

who: University of Houston Libraries Vocabularies

what: Bayous

when: 2016-06-23

where: <https://vocab.lib.uh.edu/en/concepts/sh85012513>



Cedar: Guiding Principles

- Authority Control
- Workflow Efficiency
- Applied Linked Data



Cedar: Top Concepts

- DPLA MAP
- Context Classes
- Hierarchical Organization

Cedar

Concepts Hierarchical

⊕ Agent 🔍

⊕ Collection 🔍

⊕ Concept 🔍

⊕ Place 🔍

Time Period 🔍



Populating Cedar

- Bulk import
- Individual entry
 - Vocabulary development projects
 - Digital projects workflow

Individual term entry

Labels

Multiple values can be entered comma-separated.

Preferred labels

en

"Hoover, Herbert"

Preferred labels

es

Alternative labels

en

"Hoover, Herbert Clark"

Alternative labels

es



Collections

Type to search

Virtual International Authority File

Library of Congress Name Authority File x

Virtual International Authority File x

Change notes

Definitions

Editorial notes

Value

Source: Cruiser Houston Collection.

Language

en

Examples

History notes

Scope notes

Relations

☐ Top Term

Broader term

Person x

Related terms

Matches

Other

<http://id.loc.gov/authorities/names/n79021421>

Close Matches x

<https://viaf.org/viaf/14778660>

Close Matches x

Notations

LC URI

VIAF URI

Publishing terms

Hoover, Herbert Concept

Concept has been successfully created.

Unpublished version. Current revision 1 is being edited by

PUBLISH

CHECK CONSISTENCY

SEND TO REVIEW

MAIN

LABELS

RELATIONS

NOTES

CONCEPT M

Assigned collections

Hoover, Herbert Concept

MAIN

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CONCEPT MAPPINGS

<http://id.loc.gov/authorities/names/n79021421>

Close Matches

<https://viaf.org/viaf/14778660>

Close Matches

<https://id.lib.uh.edu/ark:/84475/au87032475w>

Exact Matches

Searching in Cedar

Cedar ≡ MENU

UNIVERSITY of **HOUSTON** | LIBRARIES

Vocabularies

hoover

Hoover, Herbert
type: Preferred label
language: en

Hoover, Herbert Clark
type: Alternative label
language: en



Input Guidelines

- Unique label requirement
- May not always match LC
 - LC: Gatun Lake (Panama)
 - Cedar: Lakes>Gatun Lake; related term: Panama
 - Cedar: LGBTQ people
- Enriching with additional useful information



Enriching Records

Cedar

Cheung, Margaret Concept

CREATE NEW VERSION

MAIN

LABELS

RELATIONS

NOTES

CONCEPT MAPPINGS

Related terms

Department of Physics, University of Houston



Cedar reuse

- ETD metadata cleanup (DSpace)
- ETD cataloging (Sierra)

ETD name remediation in OpenRefine

3608 rows						
Show as: rows records			Show: 5 10 25 50 rows			
All	id	collection	dc.contributor.a	dc.contributor.c	dc.creator	
☆	1.	1519	10657/2	White, Cameron S	Craig, Cheryl J	Gauna, Leslie Michel
☆	2.				Pedrana, Angela Lopez	
☆	3.				Hutchinson, Laveria	
☆	4.	296	10657/2	Stewart, Robert R.	Hilterman, Fred J.	Fraquelli, Henrique
☆	5.				Holley, Thomas K.	
☆	6.	926	10657/2	Coleman, Nicole M.	Arbona, Consuelo	Butler, Ebony 1982-
☆	7.				Horn, Catherine	
☆	8.				Williams, Sheara	
☆	9.	519	10657/2	Sansgiry, Sujit S.	Essien, Ekere James	Beatty, Collin R 1983-
☆	10.				Sherer, Jeff	
☆	11.	409	10657/2	Johnson, Olin	Yun, Chang	Nirmal, Rohit K 1990-
☆	12.				Yi, Jenny	

Reconcile with RDF-based Cedar vocabulary

1272 records					
Show as: rows records		Show: 5 10 25 50 records			
All	id	collection	dc.contributor.advisor1	dc.contributor.committeemember1	dc.creator
☆	1.	1519 10657/2	White, Cameron S ✓ White, Cameron (0.875) ✓ White, Cathryn (0.688) ✓ Cameron, Bruce (0.188) ✓ Create new item Search for match	Craig, Cheryl J ✓ Craig, Cheryl J. (0.875) ✓ Salyards, Cheryl (0.375) ✓ Hartley, Craig J. (0.294) ✓ Create new item Search for match	Gauna, Leslie Michel
☆				Pedrana, Angela López Choose new match	
☆				Hutchinson, Laveria ✓ Hutchinson, Laveria F. (0.81) ✓ Hutchinson, Janis F. (0.65) ✓ Hutchinson County, Texas (0.458) ✓ Create new item Search for match	
☆	2.	296 10657/2	Stewart, Robert R. Choose new match	Hilterman, Fred J. Choose new match	Fraquelli, Henrique
☆				Holley, Thomas K. Choose new match	
☆	3.	926 10657/2	Coleman, Nicole M. ✓ Coleman, M. Nicole (0.667) ✓ Coleman, Garnet (0.556) ✓ Andrews, Nicole (0.444) ✓ Create new item Search for match	Arbona, Consuelo Choose new match	Butler, Ebony 1982-
☆				Horn, Catherine Choose new match	
☆				Williams, Sheara Choose new match	
☆	4.	519 10657/2	Sansgiry, Sujit S. Choose new match	Essien, Ekere James Choose new match	Beatty, Collin R 1983-
☆				Sherer, Jeff Choose new match	

Exact match

Close matches

ETD cataloging

650	4	Chemistry
653	0	Electron/Hole separation MM/QM
655	4	Electronic Thesis or Dissertation
710	2	University of Houston #b Chemistry
720	1	Lubchenko, Vassiliy #e committee member
720	1	Cheung, Margaret #e committee member
720	1	Xu, Shoujun #e committee member
720	1	Gilbertson, Scott #e committee member

650	0	Chemistry.
653	0	Electron/Hole separation MM/QM
655	7	Academic theses. #2 lcgft
710	2	University of Houston. #b Department of Chemistry.
700	1	Lubchenko, Vassiliy. #e committee member.
700	1	Cheung, Margaret #e committee member
700	1	Xu, Shoujun, #e committee member.
700	1	Gilbertson, Scott #e committee member

Search in Cedar

Cedar

≡ MENU

UNIVERSITY of **HOUSTON** | LIBRARIES
Vocabularies

cheung

Cheung, Margaret

type: Preferred label

language: en

Cheung, Monit

type: Preferred label

language: en



Suggest a new name

Cedar Term Request

Request new controlled vocabulary terms or term edits for Cedar, the UH Libraries controlled vocabulary management system: <https://vocab.lib.uh.edu/en.html>

* Required

Request Type *

Choose

Entity Type *

Choose

Preferred Label *

Enter the primary label

Authority control in local catalog

sierra

Browse a AUTHOR cheung, margaret Search + Local

Format	Results
E-BOOK	2
Language	2
English	2
Locations	1
ANDERSON	1
UH MAIN	1
Available at Library	2
true	2
Phrase	1
Cheung, Margaret,	1
Cheung, Margaret S.,	1

Format	Description
1 E-BOOK	Indexed Entry: <i>Cheung, Margaret</i> , III-V dilute nitride multi-quantum well so Vijaya, Gopi Krishna, 1986- author. Thesis 530 2014.V55 (Electronic) UH MAIN
2 E-BOOK	Indexed Entry: <i>Cheung, Margaret S.</i> , On the microscopic mechanism of mes Chan, Ho Yin, 1985- author. Thesis 530 2015.C43 (Electronic) ANDERSON



Issues and next steps

- Vocabulary building
- Adjust and refine workflows
- Collaboration
- Documentation



Thank you!

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Cedar: <https://vocab.lib.uh.edu/en.html>

GitHub: <https://github.com/uhlibraries-digital/cedar>

Image credits:

Hello my name is sticker by Eviatar Bach (Own work) [Public domain], via Wikimedia Commons from Wikimedia Commons

https://commons.wikimedia.org/wiki/File%3AHello_my_name_is_sticker.svg

“Dictionary” Freeimages.com/B Boy

White House reception for USS Houston (CA-30), Washington, D.C., Schutz Group Photographers

<http://digital.lib.uh.edu/collection/hca30/item/638>