

Using Linked Data Relationships to Enhance Discovery and Mitigate Bias

Juliet L. Hardesty
Metadata Analyst
Indiana University Libraries

Semantic Web in Libraries 2021
December 3, 2021

Problem

LCSH

Library catalog at major
research university in US

LIBRARY

LIBRARY OF CONGRESS

Everything

Search

The Library of Congress > Linked Data Service > LC Subject Headings (LCSH)

Indians of North America

URI(s)

- <http://id.loc.gov/authorities/subjects/sh85065184>
- <info:lc/authorities/sh85065184>
- <http://id.loc.gov/authorities/sh85065184#concept>

Instance Of

- MADS/RDF Topic
- MADS/RDF Authority
- SKOS Concept

Scheme Membership(s)

- Library of Congress Subject Headings

Collection Membership(s)

- LCSH Collection - Authorized Headings
- LCSH Collection - General Collection
- LCSH Collection - May Subdivide Geographically

Variants

- American aborigines
- American Indians
- First Nations (North America)
- Indians of North America--Culture
- Indians of North America--Ethnology
- Indians of North America--United States
- Indians of the United States

Subject Of

2254 resources

A citizen of child's picture

ABC-Clio in American Indian

ALA OLSD Service for American Indian

Abbott, Art people,

Abeita, Lou Indian girl,

Aberle, David 2004. Then culture history David F. Ab

Aboriginal Alberta. W

Abstracts

BASIC SEARCH

ADVANCED SEARCH

BROWSE

RESERVES

MUSIC SEARCH

Search

"Indians of North America"

Online Only

Search Results

Additional Options

You searched for: Subject Link > "Indians of North America"

Start Over

« Previous | 1 - 25 of 40,891 | Next »

Sort by Relevance

25 per page

Add checked to folder

Limit your search

Newly Added Titles

Publication Details

Availability

Format

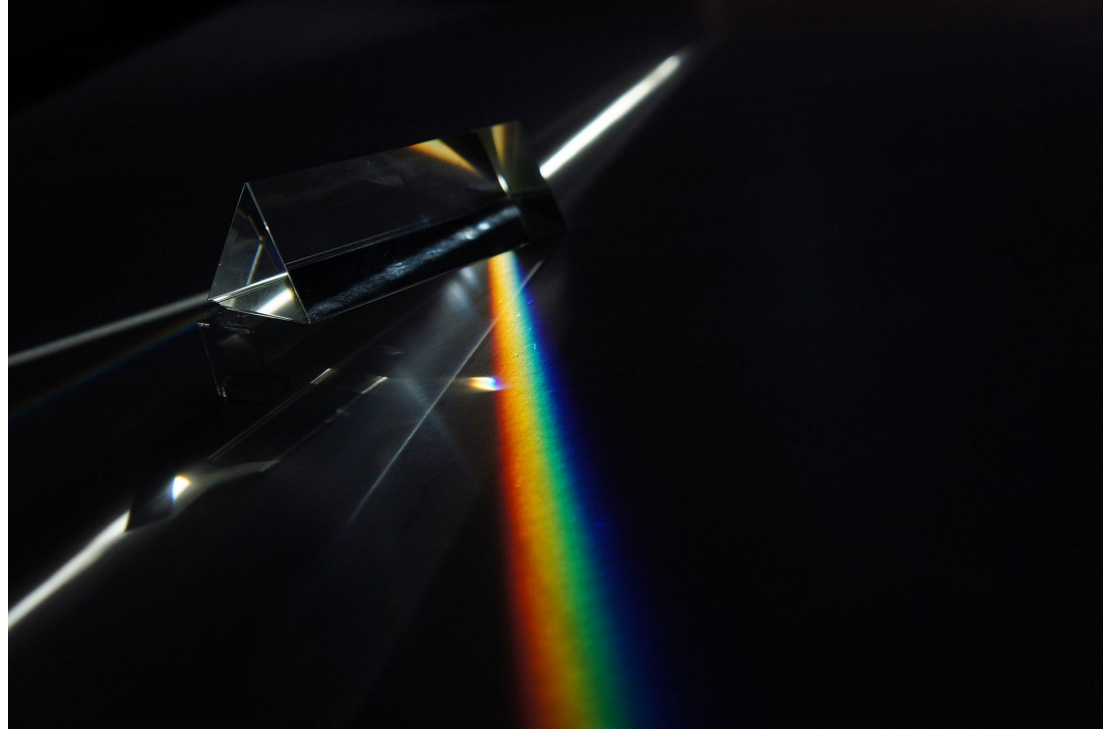
Published: 1977

1. Indians of North America

Proposal & Approach

- Controlled vocabularies from communities
- Multiple front doors to collections
- Linked Data connections
 - As defined by community

Turn the lens



[Prism_flat_rainbow.jpg](#), Kelvinsong, CC0, via Wikimedia Commons

Application

- Proof of concept
- JavaScript and HTML
- Interface design inspired by [IHLIA LBGTI Heritage](https://github.com/jlhardes/metadataBias)

<https://github.com/jlhardes/metadataBias>

Inclusivity in Metadata

Homosaurus v3 terms

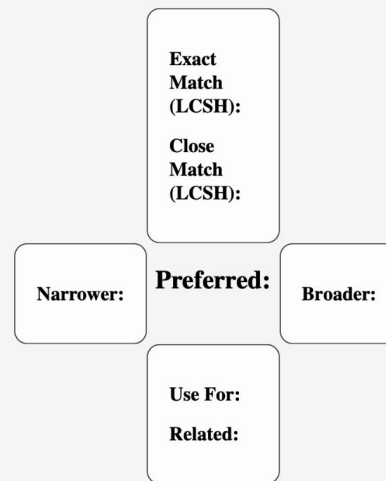
Select a term below from [Homosaurus.org](https://homosaurus.org) to see search options for finding results in [Indiana University's online library catalog \(IUCAT\)](https://www.indiana.edu/~libcat/). Use the Homosaurus terms to find expanded and more current result sets based on this controlled vocabulary designed for discovery of LGBTQ resources.

Adoptive parents
Age of consent
AIDS Activists
AIDS memorial quilts
AIDS phobia
Amazons
Anal sex
Anti-discrimination law
Anti-feminism
Asexual people
Autoeroticism
Aversion therapy
Bears
Behavioural therapy
Biphobia
Birth certificates
Birth parents
Bisexual Jews
Bisexual men
Bisexual parents
Bisexual women
Bisexual youth
Blindfolds
Blogs
Boys

The [Homosaurus](https://homosaurus.org) is an international linked data vocabulary of LGBTQ terms that supports improved access to LGBTQ resources within cultural institutions. Designed to serve as a companion to broad subject term vocabularies, the Homosaurus is a robust and cutting-edge vocabulary of LGBTQ-specific terminology that enhances the discoverability of LGBTQ resources.

This interface design is based on the design of the search aid provided at [IHLIA LBGTI Heritage](https://www.indiana.edu/~libcat/).

[Click here to reset.](#)





HOMOSAURUS

AN INTERNATIONAL LGBTQ+ LINKED DATA VOCABULARY

<https://homosaurus.org>



BROWSE ▾

LEARN ▾

ABOUT ▾

CONTACT

LOGIN

TRANS HISTORY, LINKED

MAP INSTITUTION COLLECTION TOPIC GENRE LATEST

All Text

Search the Archive

SEARCH

A large, vibrant rainbow arches over a black silhouette of a dinosaur, which is positioned behind the main title. The dinosaur's head is on the right, and its body extends towards the left.

HOMOSAURUS

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<https://homosaurus.org>

[BROWSE](#) ▾[LEARN](#) ▾[ABOUT](#) ▾[CONTACT](#)[LOGIN](#)

TRANS HISTORY, LINK

[MAP](#) [INSTITUTION](#) [COLLECTION](#) [TOPIC](#) [GENRE](#)[All Text](#)[Follow us](#)[Search within the site](#)[My profile](#) ▾[English](#) ▾[Home](#) [About us](#) ▾ [Programme](#) ▾ [Collection](#) ▾ [Support us](#) ▾

About us

IHLIA is *the* heritage organisation with a socially relevant and indispensable collection. IHLIA is continuously involved in collecting information about the LGBTI community and making it accessible. LGBTI stands for lesbian, gay, bisexual, transgender, intersex person.



HOMOSAURUS

AN INTERNATIONAL LGBTQ+ LINKED DATA VOCABULARY

<https://homosaurus.org>

BASIC SEARCH

ADVANCED SEARCH

BROWSE

RESERVES

MUSIC SEARCH

All Fields ▾

Search the library catalog

☐

Online Only

Search Results

Additional Options ▶

« Previous | 25 of 10,353,722 | Next »



Sort by Relevance ▾

25 per page ▾

Add checked to folder ▾



Limit your search

Newly Added Titles



Format ▾

1. [Oxford] Encyclopedia of Islam and Law



Publication Details

Availability

Published: [S.I.] : Oxford University Press, 2999

Format: E-Book

Homosaurus Vocabulary Terms

Graphical Views

- [Tree View](#)
- [Indented Bars View](#)

Current Term List

- [5-alpha reductase deficiency](#)
- [Acault](#)
- [Adoptive parenthood](#)
- [Adoptive parents](#)
- [Adult Children of Alcoholics](#)
- [Ae/Aer/Aerself \(Pronouns\)](#)
- [Age of consent](#)
- [Agender people](#)
- [Ageplay](#)
- [Agi](#)
- [AIDS activists](#)
- [AIDS awareness](#)
- [AIDS education](#)
- [AIDS information centres](#)
- [AIDS memorial quilts](#)
- [AIDS memorials](#)
- [AIDS organisations](#)
- [AIDS periodicals](#)
- [AIDS phobia](#)
- [Akava'ine](#)
- [Al-Anon](#)
- [Alcoholics](#)
- [Alcoholics Anonymous](#)
- [Alcoholism](#)
- [Ali](#)

Homosaurus Vocabulary Terms

Graphical Views

- Tree View
- Indented Bars View

Current Term List

- 5-alpha reductase deficiency
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- Adoptive parenthood
- Adoptive parents
- Adult Children of Alcoholics
- Ae/Aer/Aerself (Pronouns)
- Age of consent
- Agender people
- Ageplay
- Agi
- AIDS activists
- AIDS awareness
- AIDS education
- AIDS information centres
- AIDS memorial quilts
- AIDS memorials
- AIDS organisations
- AIDS periodicals
- AIDS phobia
- Akava'ine
- Al-Anon
- Alcoholics
- Alcoholics Anonymous
- Alcoholism
- Ali

AIDS activists (<https://homosaurus.org/v3/homoit0000024>)

[Back To Index](#)

Preferred Label

AIDS activists

Identifier

homoit0000024

Issued (Created)

2019-05-14

Modified

2019-05-14

External Exact Match

<http://id.loc.gov/authorities/subjects/sh93005197>

Homosaurus Vocabulary Terms

Graphical Views

- Tree View
- Indented Bars View

Current Term List

- 5-alpha reductase deficiency
- Acault
- Adoptive parenthood
- Adoptive parents
- Adult Children of Alcoholics
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- AIDS phobia
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- Al-Anon
- Alcoholics
- Alcoholics Anonymous
- Alcoholism
- Ali

homosaurus.org Home Vocabulary Search Releases About Contact

AIDS activists (<https://homosaurus.org/v3/hom>

[Back To Index](#)

Preferred Label
AIDS activists
Identifier
homoit0000024
Issued (Created)
2019-05-14
Modified
2019-05-14
External Exact Match
http://id.loc.gov/authorities/subjects/sh93005197

JSON-LD

```
{
  "@context": {
    "dc": "http://purl.org/dc/terms/",
    "skos": "http://www.w3.org/2004/02/skos/core#",
    "xsd": "http://www.w3.org/2001/XMLSchema#"
  },
  "@id": "http://homosaurus.org/v3/homoit0000024",
  "@type": "skos:Concept",
  "dc:identifier": "homoit0000024",
  "dc:issued": {
    "@value": "2019-05-14",
    "@type": "xsd:date"
  },
  "dc:modified": {
    "@value": "2019-05-14",
    "@type": "xsd:date"
  },
  "dc:replaces": {
    "@id": "http://homosaurus.org/v2/AIDSActivists"
  },
  "skos:broader": {
    "@id": "http://homosaurus.org/v3/homoit0000007"
  },
  "skos:hasTopConcept": {
    "@id": "http://homosaurus.org/v3/homoit0000915"
  },
  "skos:inScheme": {
    "@id": "http://homosaurus.org/terms"
  },
  "skos:prefLabel": "AIDS activists",
  "skos:related": [
    {
      "@id": "http://homosaurus.org/v3/homoit0000005"
    },
    {
      "@id": "http://homosaurus.org/v3/homoit0000030"
    },
    {
      "@id": "http://homosaurus.org/v3/homoit0001026"
    }
  ]
}
```

LIBRARY

LIBRARY OF CONGRESS

Everything

Q

≡

The Library of Congress > Linked Data Service > LC Subject Headings (LCSH)

AIDS activists

URI(s)

- <http://id.loc.gov/authorities/subjects/sh93005197>

- <info:lc/authorities/sh93005197>

- <http://id.loc.gov/authorities/subjects/sh93005197#concept>

Instance Of

- [MADS/RDF Topic](#)

- [MADS/RDF Authority](#)

- [SKOS Concept](#)

Scheme Membership(s)

- [Library of Congress Subject Headings](#)

Collection Membership(s)

- [LCSH Collection - Authorized Headings](#)


- [LCSH Collection - General Collection](#)


- [LCSH Collection - May Subdivide Geographically](#)


Broader Terms

- [Political activists](#)

Closely Matching Concepts from Other Schemes

 [AIDS activists](#)

 [HIV activist](#)

 [Mouvements de lutte contre le sida](#)

Label from public data source Wikidata

Subject Of Works

20 resources < Page 1 of 1 >

A & U America's AIDS magazine

Advocate

Bay area reporter

Chazan, May, grandmothers' movement solidarity and survival in the time of AIDS

Cheng, Jih-Fei, 1976- AIDS and the distribution of crises

Gao, Yaojie, 1927- Jing tou xia de zhen xiang ji Zhongguo ai zi bing shi kuang = Truth under the lens : a live documentary of AIDS in China 鏡頭下的真相 : 記中國愛滋病實況 = Truth under the lens : a live documentary of AIDS in China

Irwin, Alexander C., 1960- Global AIDS myths and facts : tools for fighting the AIDS pandemic

James, John S. 1941- AIDS treatment

Subject ▾

AIDS activists



☐ Online Only

Search Results

Additional Options >

You searched for: [Subject > AIDS activists](#) ✕

Start Over

« Previous | 1 - 25 of 176 | [Next »](#)



Sort by Relevance ▾

25 per page ▾

Add checked to folder ▾



Limit your search

Newly Added Titles >

Format ▾

Online Resource	78
Journal, Periodical	61
Book	58
+ Video & Film	32
E-Book	24
Manuscript	1

1. AIDS Council news



Publication Details

Availability

Published: Melbourne, [Australia] : Victorian AIDS Council
Language: English
Format: Journal, Periodical Online Resource
Copies At: Bloomington

Inclusivity in Metadata

Homosaurus v3 terms

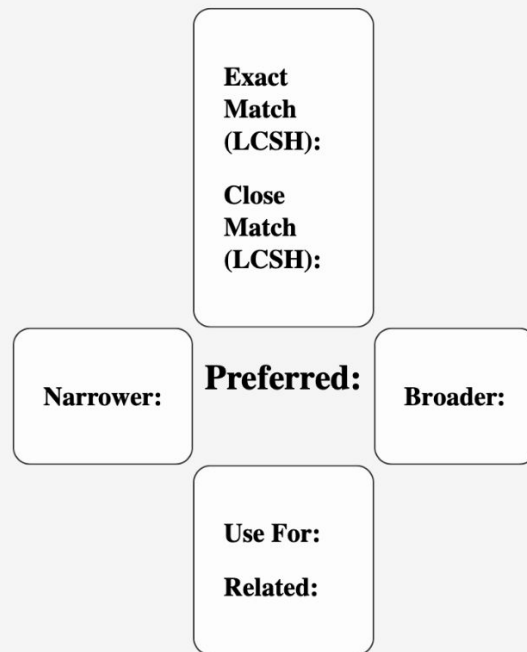
Select a term below from [Homosaurus.org](https://homosaurus.org) to see search options for finding results in [Indiana University's online library catalog \(IUCAT\)](https://www.indiana.edu/library/catalog/iucat/). Use the Homosaurus terms to find expanded and more current result sets based on this controlled vocabulary designed for discovery of LGBTQ resources.

Adoptive parents
Age of consent
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Anal sex
Anti-discrimination law
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Asexual people
Autoeroticism
Aversion therapy
Bears
Behavioural therapy
Biphobia
Birth certificates
Birth parents
Bisexual Jews
Bisexual men
Bisexual parents
Bisexual women
Bisexual youth
Blindfolds
Blogs
Boys
Breasts
Brothels
Bullying

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This interface design is based on the design of the search aid provided at [IHLIA LGBTI Heritage](https://www.ihlia.org/Heritage).

[Click here to reset.](#)



Exact Match (LCSH):

[AIDS activists](#)

Close Match (LCSH):

skos:exactMatch

Narrower:

Preferred:

[AIDS activists](#)

Broader:

<http://homosaurus.org/v3/homoit0000007>


Use For:

Related:

<http://homosaurus.org/v3/homoit0000005>

<http://homosaurus.org/v3/homoit0001026>

<http://homosaurus.org/v3/homoit0000030>



INDIANA UNIVERSITY

IUCAT /

CAMPUS ▾ HISTORY FOLDERS (1) ▾ HELP ▾ LOGIN ▾

BASIC SEARCH

ADVANCED SEARCH


BROWSE

RESERVES

MUSIC SEARCH

Subject ▾

AIDS activists



☐ Online Only


Search Results

Additional Options ▾

You searched for: Subject > AIDS activists ✕


Start Over

« Previous | 1 - 25 of 176 | Next »




Sort by Relevance ▾

25 per page ▾

Add checked to folder ▾ 

Limit your search

Newly Added Titles >

1. AIDS Council news 

Publication Details

Availability

Format ▾

BUILD A MATHS FACTSHEET WITH AIDS

Exact Match (LCSH):

[Sex role](#)

Close Match (LCSH):

Narrower:

<http://homosaurus.org/v3/homoit0000655>

<http://homosaurus.org/v3/homoit0001479>

<http://homosaurus.org/v3/homoit0000105>

<http://homosaurus.org/v3/homoit0001313>

<http://homosaurus.org/v3/homoit0001374>

<http://homosaurus.org/v3/homoit0001508>

<http://homosaurus.org/v3/homoit0000231>

<http://homosaurus.org/v3/homoit0000440>

Preferred:

[Gender roles](#)

Broader:

<http://homosaurus.org/v3/homoit0001241>

Use For:

Related:

<http://homosaurus.org/v3/homoit0000047>

<http://homosaurus.org/v3/homoit0000389>

<http://homosaurus.org/v3/homoit0000995>

<http://homosaurus.org/v3/homoit0000562>

Subject ▾

Sex role

Q

☐ Online Only



Search Results

Additional Options ▾

You searched for: Subject > Sex role ✕






Start Over


« Previous | 1 - 25 of 10,842 | Next »

 Sort by Relevance ▾ 25 per page ▾ Add checked to folder ▾ 

Limit your search

Newly Added Titles >

Format	
 Book	8,138
 E-Book	1,970
+ Video & Film	507
 Online	411
Resource	
 Journal, Periodical	104
 Microformats	101

1. Ensaios sobre identidade e gênero 

Publication Details

Availability


Published:

Salvador : Helvécia, 2003

Language:

Portuguese

Format:

 Book

Copies At:

Bloomington

Ensaios sobre identidade e gênero

All Fields ▾

Gender roles

Q

☐ Online Only



Search Results

Additional Options ⌵

You searched for: Keyword > Gender roles ✕






Start Over


« Previous | 1 - 25 of 16,166 | Next »

 Sort by Relevance ▾ 25 per page ▾ Add checked to folder ▾ 

Limit your search

Newly Added Titles >

Format	▼
 Book	11,289
 E-Book	3,741
+ Video & Film	836
 Online	704
Resource	
 Manuscript	125
 Journal, Periodical	122

1. Gender roles 

Publication Details

Availability


Published:

Farmington Hills, Mich. : Greenwood Press, a part of Gale, Cengage Learning, [2014]

Language:


English

Format:

 Book

Copies At:

Kokomo



Exact Match (LCSH):

[Gender-nonconforming people](#)

Close Match (LCSH):

[Gender nonconformity](#)

skos:closeMatch

Narrower:

Preferred:

[Non-binary people](#)

Broader:

<http://homosaurus.org/v3/homoit0001378>

Use For:

[Nonbinary people](#)

[Enbies](#)

[NB-ies](#)

Related:

<http://homosaurus.org/v3/homoit0000021>

Exact Match (LCSH):

[Women's music](#)

Close Match (LCSH):

Narrower:

Preferred:

[Women's music](#)

Broader:

<http://homosaurus.org/v3/homoit0000382>

Use For:

[Lesbian music](#)

[Wimmin's music](#)

[Women-identified music](#)

[Womyn's music](#)

Related:

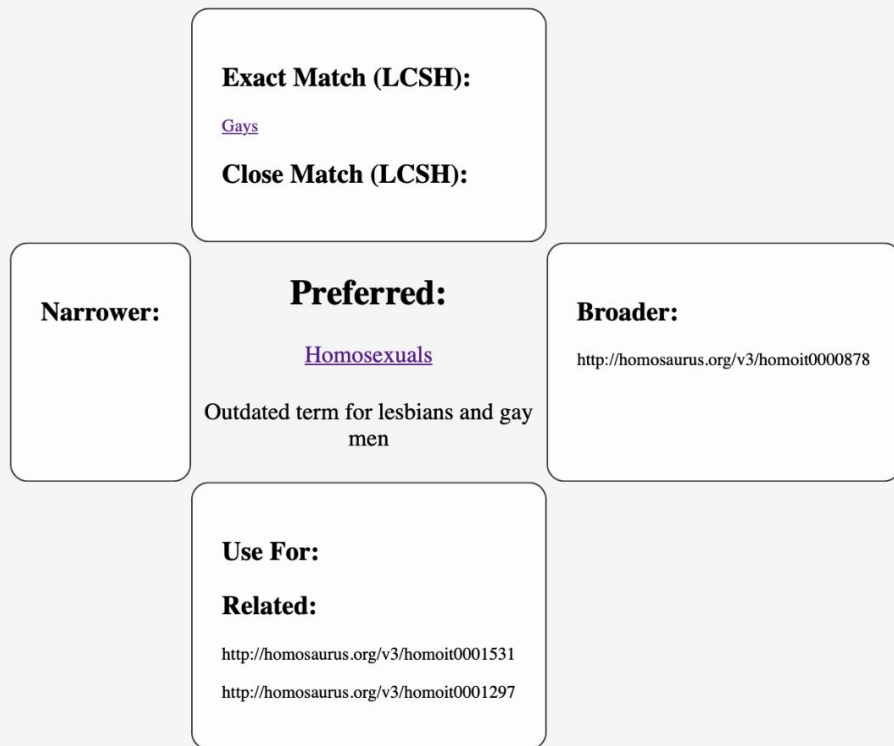
<http://homosaurus.org/v3/homoit0001515>

Hair removal
Halloween
Handcuffs
Handkerchief codes
Harassment
Harnesses
Hate crimes
Hate speech
Heteronormativity
Heterosexism
Heterosexual men
Heterosexual women
Heterosexuality
Heterosexuals
Homophobia
Homosexuals
Hormones
Human rights
Hypersexuality
Hypospadias
Hysterectomy
In vitro fertilisation
Intergenerational relationships
Internet forums
Intersex children
Intersex conditions
Intersex identity
Intersex people
Intimate partner violence
Jealousy
Kaposi's sarcoma
Kissing
Lesbian artists
Lesbian authors
Lesbian bars
Lesbian biographies
Lesbian Christians
Lesbian clergy
Lesbian community
Lesbian couples

The [Homosaurus](#) is an international linked data vocabulary of LGBTQ terms that supports improved access to LGBTQ resources within cultural institutions. Designed to serve as a companion to broad subject term vocabularies, the Homosaurus is a robust and cutting-edge vocabulary of LGBTQ-specific terminology that enhances the discoverability of LGBTQ resources.

This interface design is based on the design of the search aid provided at [IHLIA LGBTI Heritage](#).

[Click here to reset.](#)



Lesbian Jews
Lesbian libraries
Lesbian Muslims
Lesbian parents
Lesbian rights
Lesbian separatism
Lesbian studies
Lesbian youth
Lesbianism
Lesbians
Lesbophobia
LGBTQ+ employment
LGBTQ+ mistresses
LGBTQ+ movement
LGBTQ+ museums
LGBTQ+ parents
LGBTQ+ poetry
LGBTQ+ porn films
LGBTQ+ press
LGBTQ+ Protestants
LGBTQ+ slang
Libido
Lingerie
Love triangles
Lubricants
Masochism
Male impersonators
Male prostitutes
Male prostitution
Males
Marital status
Marriage
Marriage law
Marriage licenses
Married people
Masculinity
Massage
Mastectomy
Masturbation
MDMA
Medical care

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[Click here to reset.](#)

Exact Match (LCSH):

[Male impersonators](#)

Close Match (LCSH):

Narrower:

Preferred:

[Male impersonators](#)

Historical term describing a performer, often a female-identified person, who enacts a male persona for the purpose of entertainment, typically for straight audiences; use only in historical contexts

Broader:

<http://homosaurus.org/v3/homoit0001363>

Use For:

Related:

<http://homosaurus.org/v3/homoit0000373>

Kaposi's sarcoma
Kissing
Lesbian artists
Lesbian authors
Lesbian bars
Lesbian biographies
Lesbian Christians
Lesbian clergy
Lesbian community
Lesbian couples
Lesbian culture
Lesbian erotic literature
Lesbian feminism
Lesbian Jews
Lesbian libraries
Lesbian Muslims
Lesbian parents
Lesbian rights
Lesbian separatism
Lesbian studies
Lesbian youth
Lesbianism
Lesbians
Lesbophobia
LGBTQ+ employment
LGBTQ+ mistresses
LGBTQ+ movement
LGBTQ+ museums
LGBTQ+ parents
LGBTQ+ poetry
LGBTQ+ porn films
LGBTQ+ press
LGBTQ+ Protestants
LGBTQ+ slang
Libido
Lingerie
Love triangles
Lubricants
Masochism
Male impersonators
Male prostitutes

The [Homosaurus](#) is an international linked data vocabulary of LGBTQ terms that supports improved access to LGBTQ resources within cultural institutions. Designed to serve as a companion to broad subject term vocabularies, the Homosaurus is a robust and cutting-edge vocabulary of LGBTQ-specific terminology that enhances the discoverability of LGBTQ resources.

This interface design is based on the design of the search aid provided at [IHLIA LGBTI Heritage](#).

[Click here to reset.](#)

Exact Match (LCSH):

[Gay liberation movement](#)

Close Match (LCSH):

Narrower:

<http://homosaurus.org/v3/homoit0001187>

<http://homosaurus.org/v3/homoit0000162>

<http://homosaurus.org/v3/homoit0000510>

<http://homosaurus.org/v3/homoit0001423>

<http://homosaurus.org/v3/homoit0000753>

Preferred:

[LGBTQ+ movement](#)

Broader:

<http://homosaurus.org/v3/homoit0001322>

Use For:

Related:

<http://homosaurus.org/v3/homoit0000523>

Current Status

Linked Data helps
define but not
implement

Nothing
automated yet

This use case still
developing

Women's music festivals (<https://homosaurus.org/v3/homoit0001515>)

[Back To Index](#)

Preferred Label

Women's music festivals

Identifier

homoit0001515

Issued (Created)

2019-05-14

Modified

2019-05-14

External Exact Match

<http://id.loc.gov/authorities/subjects/sh99003279>

Broader Terms

```
{
  "@context": {
    "dc": "http://purl.org/dc/terms/",
    "skos": "http://www.w3.org/2004/02/skos/core#",
    "xsd": "http://www.w3.org/2001/XMLSchema#"
  },
  "@id": "http://homosaurus.org/v3/homoit0001515",
  "@type": "skos:Concept",
  "dc:identifier": "homoit0001515",
  "dc:issued": {
    "@value": "2019-05-14",
    "@type": "xsd:date"
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  "dc:modified": {
    "@value": "2019-05-14",
    "@type": "xsd:date"
  },
  "dc:replaces": {
    "@id": "http://homosaurus.org/v2/womensMusicFestivals"
  },
  "skos:broader": {
    "@id": "http://homosaurus.org/v3/homoit0000861"
  },
  "skos:hasTopConcept": {
    "@id": "http://homosaurus.org/v3/homoit0000861"
  },
  "skos:inScheme": {
    "@id": "http://homosaurus.org/terms"
  },
  "skos:prefLabel": "Women's music festivals",
  "skos:related": [
    {
      "@id": "http://homosaurus.org/v3/homoit0000755"
    },
    {
      "@id": "http://homosaurus.org/v3/homoit0001516"
    }
  ]
}
```

Evaluation

Librarian view: Learning tool for researchers new to or outside community 

Need: Evaluate with researchers new to or outside community

Need: Evaluate with researchers familiar with or inside community

**MORE EVALUATION
NEEDED!**

Additional Work (Opportunities!)

- Other community vocabularies
 - Linked Data vocabularies?
 - [BC First Nations Subject Headings](#), X̱wi7x̱wa Library, University of British Columbia
 - [Classification Schemes and CVs](#) - vocabularies from various communities
- Automating
 - Is API needed from Linked Data vocabulary?
 - Possible to switch out vocabulary and/or discovery system (offer configuration)?

Questions? Comments!

Julie Hardesty
Indiana University

jlhardes@iu.edu

<https://github.com/jlhardes/metadataBias>

Thank you to those who have contributed and helped along the way with this proof of concept information retrieval aid: **Justina Kaiser** at Miami University of Ohio, **Allison Nolan** at Tarleton State University, **Bri Watson** at University of British Columbia, and **K.J. Rawson** at Northeastern University and the Digital Transgender Archive