

Mar 15, 2024

Core MARC Formats Transition Interest Group

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# Integrating Linked Data into Cataloging Workflows

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# Anne Washington

Product Analyst

Metadata & Digital Services

# Linked data at OCLC

# Expand influence and reach with linked data

- Connect and scale library knowledge
- Fuel serendipitous discovery
- Focus on high-value knowledge work
- Contribute to the global information ecosystem



[oc.lc/linkeddata](https://oc.lc/linkeddata)

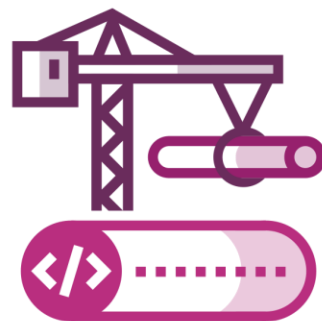
# Delivering on our linked data strategy



Expertise



Data



Infrastructure



Tools

# WorldCat Entities

# Linked data entities

- WorldCat Entities
  - Persons
  - Works
  - Places
  - Events
  - Organizations (March)

**Find WorldCat Entities to improve resource  
discoverability through connections**

Search by Title, Author or Keyword

 Search



Showing 1 - 10 of 1517 results for *toni morrison*

Sort by: Relevance ▼

## Entity Type

- ☐ Text (1350)
- ☐ Sound (67)
- ☐ Moving Image (41)
- ☐ Work (32)
- ☐ Music (23)
- ☐ Notated Music (6)
- ☐ Still Image (3)
- ☐ Person (1)

Entity Label	Entity Type	Description
<a href="#">Toni Morrison</a>	Person	American novelist, essayist and academic (1931–2019)
<a href="#">Toni Morrison</a>	Moving image	Moving image associated with Toni Morrison about Morrison, Toni. released in 1984
<a href="#">Toni morrison</a>	Text	Text associated with Toni Morrison
<a href="#">Toni Morrison</a>	Text	Text associated with Carl Plasa about Beloved (Morrison, Toni)
<a href="#">Toni Morrison</a>	Text	-
<a href="#">Toni Morrison</a>	Text	-
<a href="#">Toni Morrison</a>	Text	Criticism, interpretation, etc associated with interviewee Toni Morrison about Authors, American

Sign in to explore  
more[← Back to search](#)

Top

Key Information

Significant Dates

Characteristics

Names

Other Identifiers

Related Persons and  
Organizations

Related Places

Related Works

View

## Toni Morrison



Copy URI



Download

Entity ID: E39PBJymvHmTFRDGy9C8fFx7HC

Entity Type: Person

Description: American novelist, essayist and academic (1931–2019)

## Key Information

1-5 of 134



Language of Content	Entity Label	Description	Aliases
English	Toni Morrison	American novelist, essayist and academic (1931–2019)	5
German	Toni Morrison	Schwarz-amerikanische Schriftstellerin und Literaturnobelpreist...	2
Spanish	Toni Morrison	escritora estadounidense	1
French	Toni Morrison	écrivaine afro-américaine, lauréate du prix Nobel de littérature	2

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Related Places

Related Works

## Other Identifiers

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Type	ID	
NLP ID	A11820913	
BLBND ID	000586747	
BNC ID	a11542585	
NLR ID	7782571	
NKS ID	000068304	

## Related Persons and Organizations

1-4 of 7



Zora Neale Hurston Influenced by	Henry Dumas Influenced by	William Faulkner Influenced by	Virginia Woolf Influenced by	Doris Lessing Influenced by
-------------------------------------	------------------------------	-----------------------------------	---------------------------------	--------------------------------

## Related Places

Lorain Place of birth
--------------------------

Sign in to explore  
more[← Back to search](#)

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## Toni Morrison



Copy URL



Download

Entity ID: E39PBJymvHmTFRDGy9C8fFx7HC

Entity Type: Person

Description: American novelist, essayist and academic (1931–2019)

## Key Information

1-5 of 134

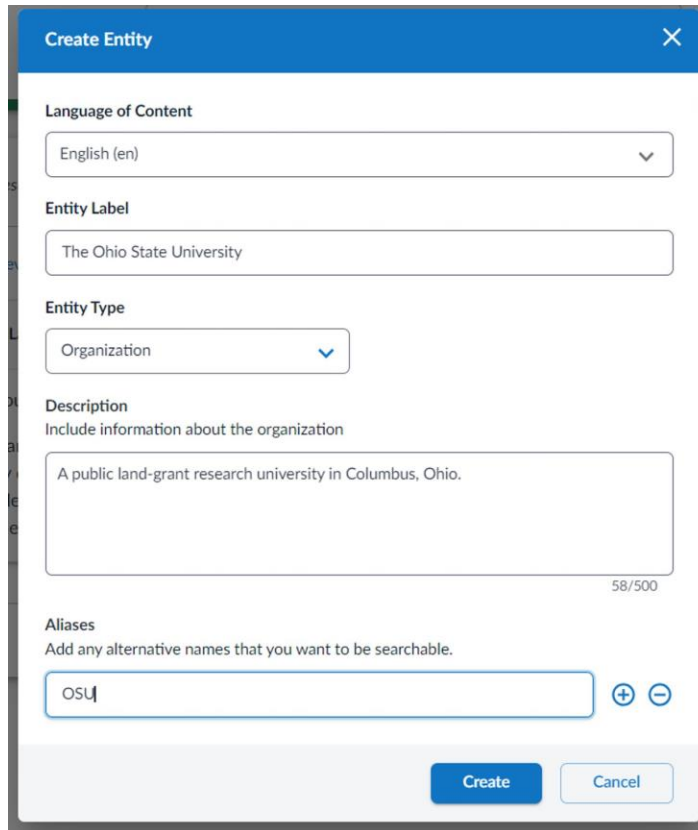


Language of Content	Entity Label	Description	Aliases	
English	Toni Morrison	American novelist, essayist and academic (1931–2019)	5	
German	Toni Morrison	Schwarz-amerikanische Schriftstellerin und Literaturnobelpreist...	2	
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French	Toni Morrison	écrivaine afro-américaine, lauréate du prix Nobel de littérature	2	

# OCLC Meridian

# OCLC Meridian

- Create a new Organization entity



The screenshot shows the 'Create Entity' form in the OCLC Meridian interface. The form is titled 'Create Entity' with a close button (X) in the top right corner. It contains several sections for creating a new Organization entity:

- Language of Content:** A dropdown menu showing 'English (en)' with a downward arrow.
- Entity Label:** A text input field containing 'The Ohio State University'.
- Entity Type:** A dropdown menu showing 'Organization' with a downward arrow.
- Description:** A section with the instruction 'Include information about the organization'. It contains a text area with the text 'A public land-grant research university in Columbus, Ohio.' and a character count '58/500' at the bottom right.
- Aliases:** A section with the instruction 'Add any alternative names that you want to be searchable.' It contains a text input field with 'OSU' and two buttons, '+' and '-', for adding or removing aliases.

At the bottom right of the form are two buttons: 'Create' (in blue) and 'Cancel' (in light gray).

# OCLC Meridian

- Immediately access a linked data URI

The screenshot displays the 'Create Entity' window in the OCLC Meridian interface. The 'Language of Content' dropdown is set to 'English (en)'. The 'Edit' tab is active, showing details for 'The Ohio State University'. The entity ID is 'E39QjHt4mqDQXwXHPc6vjBPHJ7', the type is 'Organization', and the description is 'A public land-grant research university in Columbus, Ohio.' A 'Copy URI' button is available. Below, the 'Key Information' section contains a table with one entry for 'The Ohio State University'.

**Create Entity**

Language of Content: English (en)

**View Edit**

**Actions**

**The Ohio State University**

[Copy URI](#)

Entity ID: E39QjHt4mqDQXwXHPc6vjBPHJ7  
Entity Type: Organization  
Description: A public land-grant research university in Columbus, Ohio.

**Key Information Add**

Language of Content	Entity Label	Description	Aliases
English	The Ohio State University	A public land-grant research university in Columbus, Ohio.	1 <a href="#">Edit</a> <a href="#">Delete</a>

**Create Cancel**

# OCLC Meridian

- Connect the new entity to other entities in the WorldCat graph

The image shows a screenshot of the OCLC Meridian interface. In the background, a 'Create Entity' form is visible, showing fields for 'Language of Content' (English (en)), 'Entity Label' (The Ohio State University), 'Entity ID' (E39PBJghmBfH76JbHTqycKXfMP), and 'Entity Type' (Organization). The 'Add Related Place' dialog box is in the foreground. It has a blue header with a back arrow and the title 'Add Related Place'. Below the header, there is a 'Relationship' dropdown menu set to 'Headquarters'. Underneath is the 'Entity Label' section, which displays the entity name 'Columbus' in blue, followed by its ID 'E39PBJghmBfH76JbHTqycKXfMP' and a description: 'seat of a first-order administrative division in Franklin County, Ohio, United States, North America'. At the bottom right of the 'Entity Label' section is a 'Change Selection' link.

Create Entity

Language of Content  
English (en)

View Entity Label  
The Ohio State University

Actions  
Copy URI  
Organization  
Entity ID: E39PBJghmBfH76JbHTqycKXfMP  
Entity Type: Organization  
Description: A public land-grant university in Columbus, Ohio, United States, North America  
Include information about this entity in the graph

Key Information Add

Language of Content  
English

Aliases  
Add any alternative names for this entity

OSU

Add Related Place

Relationship  
Headquarters

Entity Label  
Columbus  
E39PBJghmBfH76JbHTqycKXfMP  
seat of a first-order administrative division in Franklin County, Ohio, United States, North America  
Change Selection



# OCLC Meridian

- Find other connection points in the WorldCat graph

The screenshot shows the 'Edit' page for the entity 'Jeff Mixer' in the OCLC Meridian interface. At the top, there are tabs for 'View' and 'Edit', with 'Edit' being the active tab. Below the tabs is an 'Actions' dropdown menu. The entity name 'Jeff Mixer' is displayed, followed by a 'Copy URI' button. The entity details are listed: Entity ID: E39PBJtRJykHh8gwxXj3JQ4cyd, Entity Type: Person, and Description: product manager at OCLC. Below this is a section for 'Key Information' with an 'Add' button. A pagination indicator shows '1-5 of 28' with navigation arrows. A table lists the entity's information across different languages. The table has four columns: Language of Content, Entity Label, Description, and Aliases. The first row shows English content with 2 aliases. The second and third rows show German and Spanish content, both with 0 aliases. Each row has edit and delete icons.

View Edit

Actions ▾

**Jeff Mixer**

Copy URI

Entity ID: E39PBJtRJykHh8gwxXj3JQ4cyd  
Entity Type: Person  
Description: product manager at OCLC

Key Information Add

1-5 of 28 < >

Language of Content	Entity Label	Description	Aliases
English	Jeff Mixer	product manager at OCLC	2
German	Jeff Mixer		0
Spanish	Jeff Mixer		0

# OCLC Meridian

- Connect them back to the new entity

The screenshot shows the 'Add Related Person or Organization' interface in OCLC Meridian. On the left, a sidebar displays details for 'Jeff Mixer', including his Entity ID (E39PBJRjykt), Entity Type (Person), and Description (product manag). Below this, a 'Key Information' section lists 'Language of Content' with options for English and German. The main area features a blue header with a back arrow and the title 'Add Related Person or Organization'. Under the 'Relationship' section, a dropdown menu is set to 'Educated At'. The 'Entity Label' section contains a search input field with the text 'the ohio state' and a magnifying glass icon. Below the search field, a result card for 'The Ohio State University' is shown, featuring its Entity ID (E39QjHt4mqDQXwXHPc6vjBPHJ7) and a descriptive sentence: 'A public land-grant research university in Columbus, Ohio.'

View Edit

Actions ▾

Jeff Mixer

Copy URI

Entity ID: E39PBJRjykt

Entity Type: Person

Description: product manag

Key Information Add

Language of Content

English

German

Spanish

← Add Related Person or Organization

Relationship

Educated At ▾

Entity Label

the ohio state 🔍

**The Ohio State University**  
E39QjHt4mqDQXwXHPc6vjBPHJ7  
A public land-grant research university in Columbus, Ohio.

# OCLC Meridian

- Rich and meaningfully connected graph of data to serve library workflows

The screenshot displays the OCLC Meridian interface for a user profile. On the left, a sidebar shows the 'View' and 'Edit' tabs, with 'Edit' selected. Below this, the 'Actions' dropdown is visible, followed by the user's name 'Jeff Mixer' and a 'Copy URL' button. The 'Key Information' section lists 'Language of Content' with options for English, German, and Spanish. The main content area is divided into three sections: 'Related Persons and Organizations', 'Related Places', and 'Related Works'. Each section has an 'Add' button and a list of related entities. The 'Related Persons and Organizations' section includes 'The Ohio State University' (Educated at) and 'Bruce Washburn' (Influenced by). The 'Related Places' section includes 'Cleveland' (Place of birth). The 'Related Works' section includes 'Transforming metadata into linked data to improve digital collectio...' and 'Library Linked Data in the Cloud'.

Related Persons and Organizations [Add](#)

- The Ohio State University  
Educated at
- Bruce Washburn  
Influenced by

Related Places [Add](#)

- Cleveland  
Place of birth

Related Works

- Transforming metadata into linked data to improve digital collectio...
- Library Linked Data in the Cloud

# Cataloging workflows

# ‘Linkifying’ WorldCat



# WorldShare Record Manager

- Lookup and insert WorldCat Entities
- WorldCat Entities URIs can be added to fields:
  - Person entity – 100, 600, or 700
  - Event entity – 647
  - Place entity – 651
  - Work entity – 758
- Selection will appear in \$1 of the field

# Inserting WorldCat Entity URI

<input type="checkbox"/>	↑ ↓	650		7	<a href="#">Semantic Web</a> \$2 gnd	<input type="button" value="+"/> <input type="button" value="-"/>
<input type="checkbox"/>	↑ ↓	653	1		Resource Description Framework	<input type="button" value="+"/> <input type="button" value="-"/>
<input type="checkbox"/>	↑ ↓	653	1		Semantic Web	<input type="button" value="+"/> <input type="button" value="-"/>
<input type="checkbox"/>	↑ ↓	700	1		<a href="#">Wang, Shenghui</a> \$c (Computer scientist), \$e author. \$1 <a href="https://id.oclc.org/worldcat/entity/E39PCjKYfD7qHmcry8CDdTdTgX">https://id.oclc.org/worldcat/entity/E39PCjKYfD7qHmcry8CDdTdTgX</a>	<input type="button" value="+"/> <input type="button" value="-"/>
<input type="checkbox"/>	↑ ↓	700	1		<a href="#">Mixer, Jeffrey</a> , \$e author.	<input type="button" value="+"/> <input type="button" value="-"/>
<input type="checkbox"/>	↑ ↓	710	2		<a href="#">OCLC Research</a> , \$e issuing body.	<input type="button" value="+"/> <input type="button" value="-"/>
<input type="checkbox"/>	↑ ↓	758			\$i has work: \$a Library Linked Data in the Cloud (Text) \$1 <a href="https://id.oclc.org/worldcat/entity/E39PCG7v4VbQ36x83qgGx7gqHy">https://id.oclc.org/worldcat/entity/E39PCG7v4VbQ36x83qgGx7gqHy</a> \$4 <a href="https://id.oclc.org/worldcat/ontology/hasWork">https://id.oclc.org/worldcat/ontology/hasWork</a>	<input type="button" value="+"/> <input type="button" value="-"/>
<input type="checkbox"/>	↑ ↓	776	0		Godby, Jean. \$t Library linked data in the cloud. \$d San Rafael, Calif : Morgan & Claypool, 2015 \$o 10.2200/S00620ED1V01Y201412WBE012 (doi) \$z 9781627052207	<input type="button" value="+"/> <input type="button" value="-"/>
<input type="checkbox"/>	↑ ↓	830		0	<a href="#">Synthesis lectures on the semantic web, theory and technology</a> , \$v #9.	<input type="button" value="+"/> <input type="button" value="-"/>
<input type="checkbox"/>	↑ ↓	938			Baker and Taylor \$b BTCP \$n BK0015614154	<input type="button" value="+"/> <input type="button" value="-"/>

# Insert WorldCat Entity URI

The screenshot displays a table of library records. The second record, for Jeffrey Mixer, is selected. A context menu is open over this record, showing options: Field, Apply Authority Data, Controlled Heading, Insert WorldCat Entity (highlighted), Transliterate, Unlink Non-Latin Field, and Field Help. A red arrow points from the text 'Library Linked Data' in the record's description to the 'Insert WorldCat Entity' menu option.

<input type="checkbox"/>	↕	700	1		▶	<a href="#">Wang, Shenghui</a> \$c (Computer scientist), \$e author. \$1 <a href="https://id.oclc.org/worldcat/entity/E39PCjKYfD7qHmcry8CDdTdTgX">https://id.oclc.org/worldcat/entity/E39PCjKYfD7qHmcry8CDdTdTgX</a>
<input type="checkbox"/>	↕	700	1		▶	<a href="#">Mixer, Jeffrey</a> , \$e author.
<input type="checkbox"/>	↕	710	2		▶	<a href="#">OCLC Research</a> , \$e issuing body
<input type="checkbox"/>	↕	758				\$i has work: \$a Library Linked Data
<input type="checkbox"/>	↕	776	0			Godby, Jean. \$t Library linked data
<input type="checkbox"/>	↕	830		0		<a href="#">Synthesis lectures on the semantics</a>
<input type="checkbox"/>	↕	938				Baker and Taylor \$b BTCP \$n BK



# Insert WorldCat Entity URI

Linked data. \$2 fast \$0 (OCoLC)fst01896555

Metadata

Semantic

OCLC

Americ

Cloud

Metadata

Semantic

Resource

Semantic

Wang, J.

Mixer, J.

OCLC

\$i has v

Godby, Jean. \$t Library linked data in the cloud. \$d San Rafael, Calif : Morgan & Claypool, 2015 \$o 10.2200/S00620ED1V0

Insert WorldCat Entity

Entity Type

Term(s)

Person

Mixer, Jeffrey,

Search

Reset

Results 1 - 1 of 1

Rows 10

Entity Label	Description	
<a href="#">Jeff Mixer</a>	product manager at OCLC	Select Entity

Results 1 - 1 of 1

Rows 10

Cancel

# Insert WorldCat Entity URI

653	1	<input type="checkbox"/>	Resource Description Framework
653	1	<input type="checkbox"/>	Semantic Web
700	1	<input type="checkbox"/>	Wang, Shenghui \$c (Computer scientist), \$e author. \$1 <a href="https://id.oclc.org/worldcat/entity/E39PCjKYfD7qHmcry8CDdTdTgX">https://id.oclc.org/worldcat/entity/E39PCjKYfD7qHmcry8CDdTdTgX</a>
700	1	<input type="checkbox"/>	Mixter, Jeffrey, \$e author. \$1 <a href="https://id.oclc.org/worldcat/entity/E39PBJtRjYkHh8gwxXj3JQ4cyd">https://id.oclc.org/worldcat/entity/E39PBJtRjYkHh8gwxXj3JQ4cyd</a>
710	2	<input type="checkbox"/>	OCLC Research, \$e issuing body.
758		<input type="checkbox"/>	\$i has work: \$a Library Linked Data in the Cloud (Text) \$1 <a href="https://id.oclc.org/worldcat/entity/E39PCG7v4VbQ36x83ggGx7ggHy">https://id.oclc.org/worldcat/entity/E39PCG7v4VbQ36x83ggGx7ggHy</a> \$4 <a href="https://id.oclc.org/worldcat/ontology/hasWork">https://id.oclc.org/worldcat/ontology/hasWork</a>
776	0	<input type="checkbox"/>	Godby, Jean. \$t Library linked data in the cloud. \$d San Rafael, Calif : Morgan & Claypool, 2015 \$o 10.2200/S00620ED1V01Y201412WBE012 (doi) \$z 9781627052207
830		0	<a href="#">Synthesis lectures on the semantic web, theory and technology.</a> ; \$v #9.
830			Related Texts \$t BTCP \$v BK004504454

# BIBFRAME ingest/export



# BIBFRAME editor

Will meet the needs of librarians as they transition to non-MARC formats

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Supports new data needs and workflows

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Will work seamlessly back-and-forth with BIBFRAME and MARC data

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Libraries can choose what works for them

**Because  
what is  
known must  
be shared.®**

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