BIBFRAME at EBSCO

using the web to make library data visible and portable

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Gloria Gonzalez | ggonzalez@ebsco.com | @informaticmonad BIBFRAME Workshop in Europe 2022





History of EBSCO and Zepheira's work with RDF and BIBFRAME

BIBFRAME data services @ EBSCO

Creating and using BIBFRAME Resources with the Library.Link Network

Data Graphs in Action

What's on the Horizon



History of Zepheira and EBSCO's work with BIBFRAME





History of Zepheira and EBSCO's work with BIBFRAME

			Google			folio future of libraries is open	
Gloria Gonzalez leaves UCLA Library to join Zepheira as Library Strategist.		Google creates a borrow option in the Knowledge Graph for libraries in the United States.		Google Books borrow option i Knowledge Gra libraries in Car Australia.	launches the in the aph for ada and	EBSCO collaborates FOLIO community to BIBFRAME functiona the open source libra service platform.	a with the add ality to ary
	201	15	20	20	20	22	
2014		201	7	20	21	2023	
The Library Link Network	10 public and aca libraires establish Library.Link Netw partnership with 2 EBSCO, Atlas Sy Innovative Interfa SirsiDynix.	ademic n the vork in Zepheira, vstems, aces, and	EBSCO acquire and the Library open data platf	es Zepheira Link Network orm.	~2,000 librarie ~6,000 library countries are p for 250+ million Instances avai search via Libr	s representing locations in 11 publishing data n BIBFRAME lable in Google ary.Link.	

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What are **BIBFRAME** Resources?

- 1. BIBFRAME Resource refers to the most generic BIBFRAME entity.
- 2. In BIBFRAME 1.0, Work, Instance, Authority, or any subclass of these classes were all Resources
 - <u>https://www.loc.gov/bibframe/docs/vocab-conventions.html</u>
- 3. bf:Resource is not used in BF 2.0 or BF 2.1
- 4. In the BIBFRAME Lite vocabularies, Resource is equivalent to Schema.org's Thing Class
 - <u>https://schema.org/Thing</u>

Date ↓≣	Database ↓↑	Pipeline 🏦	Library Link Domain 🏻 🕸	Library Locations 🎝	MARC Records ↓ ↑	Bibframe Resources ↓↑	Links ↓ĵ
2022-07-12T04:52:24Z	v7	7.0.2	https://unimelb.library.link/	12	4354589	18681095	108812567
2022-07-01T19:22:25Z	v7	7.0.2	https://unimelb.library.link/	12	1200837	5847675	25665589
2022-06-23T00:06:38Z	v7	7.0.0	https://unimelb.library.link/	12	1200837	5847633	25664355
https://unimelb.library.lir	k/analytics.htm	וו		_	_	_	_





- Classes in **purple** are mapped to BF 2.1
- BF Lite Classes Mapped to BIBFRAME 2.1 Classes
- BF Lite Mappings on Github
- BF Lite <u>http://bibfra.me/view/lite/</u>
- BF Lite + Libraries <u>http://bibfra.me/view/library/</u>
- BF Lite + Relation <u>http://bibfra.me/view/links/</u>



BIBFRAME data services @ EBSCO

- EBSCO creates and hosts BIBFRAME data for libraries in 11 countries.
- 2. How Library.Link works
 - MARC bibliographic records are transformed into BIBFRAME Resources to create local data graphs.
 - Data graphs are connected by the Library.Link Network, an open data platform.
 - BIBFRAME Resources are identified with IDs that provide unique fingerprints for each thing.
 - ILS / discovery layer neutral works with everything $\ensuremath{\textcircled{\sc only}}$
- 3. Direct data consumption
 - EBSCO syndicates BIBFRAME data to partners including Google and the Internet Archive.
 - Resource feeds are available for any application to use.
- 4. Open web publication
 - All data graphs are available on the open web for use by any application.





The Zepheira Team's Current Development Work

- 1. Internal data viewer that shows inactive resources and events related to each data graph.
- 2. Reconciliation at local, regional, and global Library.Link Network levels to amplify new connections made by knowledge workers.
- 3. Continuing to extend the BIBFRAME Identifier class to connect library resources with additional sources of data available on the web.
 - A total of 53 bf:Identifier Types currently in use, including authority IDs, identifiers use across industries (like ISBN/ISSN/DOI/ROR) as well as internal EBSCO IDs





Library.Link uses actionable data to bring new users into the catalog



Make the catalog portable and visible

Enable users to engage with the library's collections anywhere on the web



Make the engagements richer

Enable users to see connections to people, places and topics



Make the catalog better

Enable libraries to accelerate linked data adoption add new connections to MARC records in FOLIO



Creating and using BIBFRAME Resources

Library.Link uses a transformation pipeline to create BF Resources from MARC





Each Resource is a link. The relationship is a link as well.



http://bibfra.me/vocab/lite/creator

fingerprint / resource ID

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Resources and relationships create ever-expanding graphs

graphs represent data from connected catalogs and other authoritative data sources



Creating and using BIBFRAME Resources





Benefits of decentralized open catalog data

With decentralized data, you can unlock your catalog and bring data to anywhere users are on the Web.

When connected, data graphs create a network together.

Libraries connect BIBFRAME resources and become part of a large, interconnected graph on the Library.Link open data platform.

As a result, you can see what is unique to your library, unique to others and what you share.





BIBFRAME Data Graphs in Action

Sample of BIBFRAME Resources from the University of Melbourne's data graph:

- Item: <u>https://unimelb.library.link/portal/Feminism-is-for-</u> everybody--passionate-politics/<u>TIqI7yK2Dqs/</u>
- Work:

https://unimelb.library.link/resource/j3P5pEcwfvY/

- Instance: https://unimelb.library.link/resource/TIqI7yK2Dqs/
- Person: <u>https://unimelb.library.link/resource/fPqAXmQvup8/</u>
- Concept:
- <u>https://unimelb.library.link/resource/Wt3mlLIGMFw/</u>
- Topic: https://unimelb.library.link/resource/85hbBsQpyYo/

• Provider Event:

https://unimelb.library.link/resource/nTcs56pF6DA/



fingerprint / resource ID



Syndication: actionable data delivered to the point of need when/where/how the user needs to use data

Early examples: <u>RSS Feeds</u> & <u>ATOM Feeds</u>

Modern examples: Library.Link Resource Feeds <u>Person feed / bell hooks</u>



Show off rich connections anywhere

knowledge panels and embeds provide visual context and create new paths to library catalogs any where on the Web





♠ Faculty of Arts > Engage with us > Alumni and friends > Notable Arts alumni > Professor Peter A Singer AC

Professor Peter A Singer AC

Philosopher and academic BA (Hons) 1968, MA 1969

The Arts Alumni Lifetime Achievement Award is presented to an individual who has made an outstanding, long-term and internationally-recognised contribution to their field of endeavour. The Faculty of Arts was thrilled to award a Lifetime Achievement Award to Peter Singer in 2015. Peter is an internationally recognised moral philosopher and proponent of effective altruism.



Often described as the world's most influential living philosopher, Professor Peter Singer, AC completed both a Bachelor and Master of Arts at the University of Melbourne. He is an Ira W. DeCamp Professor of Bioethics at Princeton University, and Laureate Professor at our own School of Historical and Philosophical Studies. A moral philosopher, Peter has authored countless articles and more than twenty books.

Professor Peter Singer

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In 2004 Peter was recognised as the Australian Humanist of the Year by the Council of Australian Humanist Societies, in 2006 he was voted one of Australia's ten most influential public intellectuals, and on 11 June 2012, he was named a Companion of the Order of Australia for "eminent service to philosophy and bioethics as a leader of public debate and communicator of ideas in the areas of global poverty, animal welfare and the human condition."

Embeds do more than help humans access the catalog. They also use structured data to tell machines indexing the web who the library is and what they have.

https://unimelb.library.link/resource/qD7Im_T8Z70/





Libraries use open data to take users to the catalog from any website

East Baton Rouge Public Library uses BIBFRAME to help users checkout books written by Black authors from their LibGuides.

https://ebrpl.libguides.com/c.php?g=857212&p=6141167 18 BIBFRAME at EBSCO: using the Web to make lik



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Libraries use open data to take users to the catalog from any website



European Parliament Library uses BIBFRAME to bring people into Primo from their subject-based LibGuides.

- https://eplibrary.libguides.com/CPOL/SR/AI-law
- https://eplibrary.libguides.com/CPOL/SR/AI-ethics
- https://eplibrary.libguides.com/XPOL/SR/Africa
- <u>https://eplibrary.libguides.com/EPOL/SR/Biodiversity-policies</u>
- https://eplibrary.libguides.com/CPOL/SR/European citizenship



EBSCO syndicates open data directly to Google's Knowledge Graph

- Library.Link data graphs generate Book feeds and Library feeds. Libraries continuously refresh data graphs, so feeds are updated every 6 hours.
- Library.Link syndication feeds use open data and open standards that attribute ownership back to participating libraries.
- Any application can use Library.Link syndication feeds.
- Options to borrow in Google's Knowledge Graph are currently available for print, audiobooks, and ebooks in the US, Canada, and Australia.
- Borrow options are available in desktop and mobile search, the new Google Books interface, and Google's "What to Read" feature.
- As more libraries provide structured data and borrow actions on the web, EBSCO partners with Google to help build new paths to catalogs in additional countries.



Law Library, Giblin Eunson Library, E ...



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Google	 A Darwinian Left 	× 🌷 🤇
	A Darwinian Left Book by Peter Singer	
	Q a darwinian left pdf	Report inappropriate predictions
	https://en.wikipedia.org > wiki > A_Darwinian_Left	

A Darwinian Left - Wikipedia

A Darwinian Left: Politics, Evolution and Cooperation is a 1999 book by the philosopher Peter Singer. In the book, Singer argues that the view of human ... Summary · Reception

https://www.amazon.com > Darwinian-Left-Politics-Evo...

A Darwinian Left: Politics, Evolution, and Cooperation: Peter ...

In this ground-breaking book, a renowned bioethicist argues that the political left must radically revise its outdated view of human nature. $\star \star \star \star \star$ Rating: 4 · 37 reviews

https://yalebooks.yale.edu > a-darwinian-left

A Darwinian Left - Yale University Press

11 Mar 2000 — In this ground-breaking book, a renowned bioethicist argues that the political left must radically revise its outdated view of human nature.

People also ask 🕴	
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Does Peter Singer believe in evolution?	~
	Feedback

https://www.jstor.org > stable

Peter Singer, A Darwinian Left: Politics, Evolution, and ... - JStor

by P Amato · 2003 · Cited by 1 - In light of the double meaning of "Darwinism," one might expect a particularly well-developed discussion on the political Left, where Dar.

https://www.goodreads.com > book > show

A Darwinian Left: Politics, Evolution and Cooperation

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A Darwinian Left: Politics, Evolution an is a 1999 book by the philosopher Peter Wikipedia	d Cooperation er Singer.	Prot Status Andreast	Author Singer Title A Darv Published Londo Location UniM Bail	RECORD # ; Peter, 1946- vinian left : politics, evolutioi n : Weidenfeld & Nicolson, 1	b2522880 Limit search to items available and cooperation / Peter Singer. 999. Call No. 304 5 SING	le for bo
Originally published: 1999 Author: Peter Singer		E.o.t	Physical description 70 pag Series Darwir Bibliography Includ Subject Social Nature	jes; 19 cm. hism today. hism today. se bibliographic references. Darwinism. il selection.		
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Libraries syndicate open data to become an option in What to Read

⊕ 🗣 ⊙ ▼⊿ 🕯 94%

Preview

Reading list

Get book 👻





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Availability

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Library.Link syndicates knowledge panels to any application that libraries select





Library Knowledge Graph - San Francisco Public Library

Example knowledge panel inside the University of Moncton's Enterprise catalog

http://umon.library.link/portal/Yearning--race-gender-and-cultural-politics/7dh1WqZZyMs/borrow

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				AKA:	Bell Hooks, Gloria Je	an Watkins, Gloria Watkir	าร
	1			Born: Died:	September 24, 1952 December 14, 2021 i	in Hopkinsville n Berea	
🔚 Bellho	oks			Cause of death:	Kidney failure		
				Occupation(s):	Writer, University tea	cher, Philosopher	
				Citizenship:	United States of Ame	erica	
				Gender: Religion:	Female Buddhism		
				Education:	Honkinsville High Sc	hool Stanford University	
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Tracking data usage: Library.Link stats dashboard



https://stats.library.link/domain/link.dclibrary.org/2022/07/

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Resource Enrichment: finding the overlap between two graphs and using data from one graph to make the other graph better



Library.Link Network Resource Enrichment

- We use unique identifiers to calculate the overlapping People, Topics, Titles, Places, Organizations, Genres etc.
- Enrichment works with any identifier or resource type.
- Data from one graph is added to another, creating new classes and properties available to use in a local data graph.





Example: Using BIBFRAME to power Controlled Digital Lending

Library.Link intelligently maps links (local identifiers) to equivalent identifiers in other graphs.

We use ISBN overlap to find the matches between catalogs and Open Library. Each match provides a digital copy that can shared on behalf of the Boston University Libraries.



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https://archive.org/details/bostonuniversitylibraries-ol

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Example: Using BIBFRAME to enrich data graphs with WikiData

Library.Link intelligently maps links (local identifiers) to equivalent identifiers in other graphs.



https://www.wikidata.org/wiki/Q259507 https://umon.library.link/resource/NZoOFvP4VSE/

²⁹ BIBFRAME at EBSCO: using the Web to make library data visible and portable



Nearby

Help Donate

Tools

bell hooks (Q259507) American author, feminist, and social activist adit 🖉 Wikipedia (43 entries) / edit Gloria Jean Watkins | Bell Hooks | Gloria Watkins Main page af Bell hooks Community portal - In more languages ar بيل هوكس Project chat Configure arz بيل هوكس Create a new Item Language Label Description Also known as Recent changes bg Бел Хукс Random Item ca Bell hooks English bell hooks American author, feminist, and social activist Gloria Jean Watkins Query Service Bell Hooks cy Bell hooks Gloria Watkins da Bell hooks Spanish bell hooks escritora y activista social estadounidense Gloria Jean Watkins de Bell hooks el Μπελλ Χουκς No label defined Lexicographical data Traditional Chinese No description defined en Bell hooks Create a new Lexeme Chinese 貝爾·胡克斯 美國作家, 女權主義者和社會活動家 葛劳瑞亚·晋·沃特金 Recent changes eo Bell hooks 貝爾. 胡克斯 Random Lexeme es Bell hooks Il entered language eu Bell hooks بل هوکس fa

Bell Hooks, 2009. (Swedish)

Using BIBFRAME for resource enrichment

What links here Related changes Special pages Permanent link Page information Concept URI Cite this page

Statements instance of

2 references

human



Connections to services like WikiData help add additional context to descriptions by using connections across data graphs to find new information about bell hooks.

fi Bell hook

For example, libraries can add bell's alternative names and labels in other languages to support multi-lingual search.

pt	Bell hooks				
ru	Белл хукс				
sh	Bell hooks				
sim	simple Bell hooks				
sq	Bell hooks				

https://www.wikidata.org/wiki/Q259507

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Example: Using BIBFRAME to enrich data with Novelist Appeal Terms

Library.Link intelligently maps links (local identifiers) to equivalent identifiers in other graphs.

A hooks, bell, 1952-2021 O Context Occupation Author Creator of We use ISBN Appeal Terms 0 Filter overlap to add Wounds of passion : a appeal terms. 0 0 Storyline 0 Illustration 0 Tone Writing style writing life Accessible Appeal factors help Thought-provoking Own voices Impressionistic Homemade love Descriptive readers decide Impassioned Killing rage : ending racism Incisive Upbeat whether or not a Outlaw culture : resisting Lyrical representations book fits their style Scholarly Reel to real : race, sex, and or mood. class at the movies <>> Embed Remembered rapture : the writer at work Example: <>> Embed enriching the 35 Items by the Person 🛔 hooks, bell, 1952-2021 Contributor of 'person' bell hooks O Teaching to transgress : WOUNI D with **Appeal Terms** belongin, education as the practice of freedom O Black is-- black ain't : a personal journey through black identity O Ain't I a woman : Black bell hooks women and feminism All about love : Appalachian Art on my mind : Wounds of Be boy buzz, Belonging : a new visions, Bell elegy : poetry visual politics. passion : a Bell Hooks : culture of place. Hooks and place, bell Bell Hooks writing life, Bell illustrated by **Bell Hooks** Focus of hooks Hooks **Chris Raschka** hooks, bell, 1952-2021 -http://link.ebrpl.com/resource/YW3h26ipxlo/ Borrow it Borrow it Borrow it Borrow it Borrow it Borrow it Childhood and youth -- Poetry

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How does Library.Link enrich resources?

Using data from authoritative data sources



Other data sources prioritized libraries in alignment with their current goals.

Example recent priorities from the <u>University of Melbourne</u> include faculty data, ORCID, and subject headings from Australian Institute of Aboriginal and Torres Strait Islander Studies (<u>AIATSIS</u>).

While most enrichment is automated, we also have tools for semi-automated reconciliation that provide human intervention for matches with lower confidence levels. These tools help mitigate disambiguation issues.



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What's on the Horizon

Resource Enrichment Example: bell hooks





NEW

Example: Using BIBFRAME to enrich resources with LCNAF



The Library of Congress > Linked Data Service > LC Name Authority File (LCNAF)

hooks, bell, 1952-2021

URI(s)

- http://id.loc.gov/authorities/names/n82203435

Instance Of

- MADS/RDF PersonalName
- MADS/RDF Authority
- SKOS Concept 🗗

Scheme Membership(s)

- Library of Congress Name Authority File

Collection Membership(s)

- Names Collection Authorized Headings
- LC Names Collection General Collection

Variants

- hooks, bell, 1952-
- bell hooks, 1952-2021
- Watkins, Gloria Jean, 1952-2021

Additional Information

- http://id.loc.gov/rwo/agents/n82203435
- Birth Date

(edtf) 1952-09-25

Death Date

- Occupation College teachers

College teachers

Educators

Novelists

Feminists

Authors

Identified By

- https://isni.org/isni/000000011072449X

Identified By

- https://viaf.org/viaf/79115934

Identified By

- https://www.wikidata.org/wiki/Q259507

Additional Related Forms

- Berea College
- City University of New York

Exact Matching Concepts from Other Schemes

- 🕌 http://viaf.org/viaf/sourceID/LC%7Cn++82203435#skos:Concept 🗹

Closely Matching Concepts from Other Schemes

- 💵 bell hooks 🗗 🚯 Label from public data source Wikidata
- Q Hada, 2 H Z

🜀 Hooks, Bell, 1952- 🗗

Earlier Established Forms

- hooks, bell, 1952-

https://id.loc.gov/authorities/names/n82203435.html https://id.loc.gov/download/ EBSCO



What's on the Horizon

Resource Enrichment Example: bell hooks





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https://unimelb.library.link/resource/fPqAXmQvup8/

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What's on the Horizon

Combining the power of open data with open source



- FOLIO is format agnostic. However, only MARC Source Record Storage is built with a quickMARC editor. Library.Link services currently work with any ILS and operate outside of the FOLIO platform.
- FOLIO's Vision for 2023-2025 includes an objective to "support entity-based data models, as well as interchange with linked open data, including BIBFRAME."
- As part of EBSCO's work to support this vision, I'm working on a Proof of Concept (POC) project with forward thinking libraries in Chile, Australia, and New Zealand to help extend the FOLIO platform to include linked data inside.
- To remain flexible, extensible, and cost-effective, FOLIO must continue to be powered by communitydriven development.



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Future BIBFRAME development @ EBSCO

- 1. We're gathering library input on integrating BIBFRAME into EBSCO Discovery Service and FOLIO. Send ideas and questions to me at ggonzalez@ebsco.com
- 2. Libraries that use EBSCO's FOLIO Services are asking us to build BIBFRAME features that include:
 - 1. Entity management
 - 2. Automated entity mapping
 - 3. Data syndication for direct consumption of data
 - 4. Sharing BF Resources at group, region, and network levels
 - 5. Services that provide tighter integrations between library catalogs, institutional repositories, and open/proprietary article data
 - 6. Editing and storage
- 3. Extending EBSCO's MARC to BIBFRAME pipeline to accommodate other formats, including UNIMARC and other MARC flavors (KORMARC, CNMARC)
- 4. Through these new use cases, further align data services with the BIBFRAME model maintained by the Library of Congress







Summary: BIBFRAME at EBSCO

The Library.Link Network unlocks the catalog, transforms MARC to BIBFRAME, and uses select authority data sources for enrichment

Weave the library into the Web to meet users where they are

Publish and embed enriched resources across institutional web properties such as faculty pages, reading lists, IR, department websites, etc.

By participating in the Library.Link Network, libraries make connections with other catalog data graphs to understand what is unique and shared

EBSCO is working with libraries extend FOLIO with BIBFRAME functionality and open data services to provide users with on demand access to libraries from any website or application



Thank you

Gloria Gonzalez | ggonzalez@ebsco.com | @informaticmonad BIBFRAME Workshop in Europe 2022

