



How Primo Works

Laura Jacobs



- Resources in Primo, Alma, & CDI
- How Search Works
- How Ranking Works
- User Experience



- **Resources in Primo, Alma, & CDI**
- How Search Works
- How Ranking Works
- User Experience

How your local records work with discovery

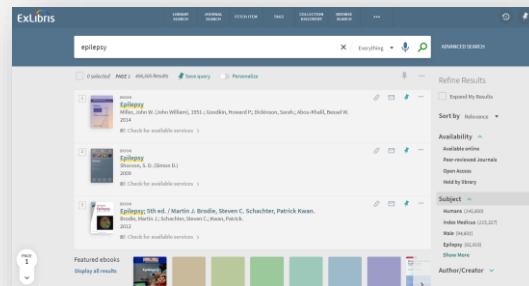
Library Collections

- Alma (Institution/Network Zones)
- Alma Digital
- External resources loaded into Alma



Indexed
within 15
minutes

Primo User Interface



How the Central Discovery Index works with discovery

Ex Libris ingests all available collections and titles into the KnowledgeBase

Ex Libris ingests article (book, book chapter) level metadata from different sources and deduplicates it in CDI



1

Activate your full text subscriptions in Alma

Electronic collection | Title

Electronic Collections

Institution | Network

Sort by: Rank

1 EBSCOhost Academic Search Premier

Type: Aggregator package
Service: Full Text
Interface name: EBSCOhost
Linking Level: Article, Journal
Creation Date: 02/03/2010 12:19
Modification Date: 06/22/2020 03:41

In CDI: Yes
Search Rights in CDI: Free
Full Text Rights in CDI: Subscription (Linkresolver)
Full Text Linking in CDI: Linkresolver
Collection ID: 61110975947325575
MMS ID: 99553719300041

2

CDI matches active titles with ALL metadata in the index



48-72 hours

3

Your full text subscriptions are automatically discoverable in Primo

Ex Libris LIBRARY SEARCH JOURNAL SEARCH

ecotourism arctic

0 selected PAGE 1 1,612 Results

1 ARTICLE / multiple sources exist, see also
The Use of Information and Communication Technology in Managing High Arctic Tourism: A Perspective
Bystrowska, Marta; Wigger, Karin; Liggett, David
pertinent issue in vulnerable Arctic environment
Managing High Arctic...
PEER REVIEWED OPEN ACCESS
Available Online

2 BOOK CHAPTER
Green ice? Tourism ecologies in the high north
Abram, S.; Lund, K.A.
2017
Available Online

PAGE 1

ARTICLE / multiple sources exist, see also
Evaluating the Role of CSR and SLO in Ecotourism: Collaboration for Economic and Environmental Sustainability of Arctic

Tweak your results

Expand My Results

Sort by Relevance

Availability

Available online
Peer-reviewed Journals
Open Access

Resource Type

Subject

Creation Date

Author/Creator

Resources in Alma and Primo (DEMO)

- Physical resource in the catalog
- Online resource in the catalog
- Physical and online resource in the catalog
- CDI resources



Local Resources (DEMO)

The screenshot shows the ExLibris search interface. The search bar contains 'biolinguistics'. The results are displayed in a list format with filters on the left. The filters include: Sort by (Relevance), Availability (Held by library, Available online), Topic, Author/Creator, Location, Library, and Resource Type. Three results are shown:

- 1. JOURNAL **Biolinguistics**. Available Online >
- 2. BOOK **The language instinct** by Pinker, Steven, 1954-1995. Available at Graduate Library Stacks (P106 .P476 1995) >
- 3. BOOK **How the brain evolved language** by Loritz, Donald, 1947-2002. Available at Main Library Stacks (P116 .L67 1999) and other locations >. Available Online >

The screenshot shows the detailed view of search results for 'biolinguistics'. The page title is 'All Titles (1 - 4 of 4) biolinguistics'. The results are sorted by Rank. Four results are listed:

- 1. **Biolinguistics**. Journal (Other Serial - Physical). Subject: Arts and Humanities--Language & Linguistics. Language: English. ISSN: 1450-3417. MMS ID: 991749990000521. Creation Date: 02/25/2012 17:17:30 CST. Modification Date: 06/27/2020 17:52:20 CDT. Physical, Electronic (2), Digital. Other details.
- 2. **The language instinct / Steven Pinker.** Book (Book - Physical) By Pinker, Steven, (New York : HarperPerennial, 1995.). Language: English. ISBN: 0060976519 (alk. paper). MMS ID: 991525660000541. Subject: Language and languages. Biolinguistics. Creation Date: 12/17/2011 15:56:10 CST. Modification Date: 07/08/2020 12:15:46 CDT. Edition: 1st HarperPerennial ed. Physical (1), Electronic, Digital. Other details.
- 3. **How the brain evolved language / Donald Loritz.** Book (Book - Physical) By Loritz, Donald, (New York : Oxford University Press, 2002.). Language: English. ISBN: 019511874X (hardcover : alk. paper). MMS ID: 99223640600711. Subject: Language and languages--Origin. Biolinguistics. Grammar, Comparative and general. and others. Creation Date: 06/27/2020 16:26:16 CDT. Modification Date: 06/27/2020 16:33:09 CDT. Physical (2), Electronic, Digital. Other details.
- 4. **How the brain evolved language [electronic resource] / Donald Loritz.** Book (Book - Electronic) text; computer; online resource By Loritz, Donald, (New York : Oxford University Press, 2002.). Medium Type: electronic resource. Language: English. MMS ID: 99223640600711. Subject: Language and languages--Origin. Biolinguistics. Grammar, Comparative and general. and others. ISBN: 1-282-36708-0 and others.

CDI and your Electronic Resources (DEMO)

ExLibris LIBRARY SEARCH JOURNAL SEARCH FETCH ITEM TAGS ... Sign in Menu

language biolinguistics X Articles ADVANCED SEARCH

0 selected PAC

ARTICLE

What are Languages? A Biolinguistic Perspective

Mendivil-Giró, José-Luis

Open Linguistics, 2014-11-19, Vol.1 (1)

♦♦ The goal of the biolinguistic point

PEER REVIEWED

Available Online

Details

Title What are Languages? A Biolinguistic Perspective

Creator Mendivil-Giró, José-Luis >

Is Part Of Open Linguistics, 2014-11-19, Vol.1 (1)

Subject biolinguistics > typology > linguistic theory > philosophy of language > parameters > language change > linguistic diversity >

Description The goal of the present contribution is to explore what kinds from a biolinguistic point of view. I define the biolinguistic study of languages and I show that from this point of view, language organs, that is, they are natural objects. However, they are also historically modified objects. Consider that language organs are historically modified natural objects, I look for inspiration from the study of language organs and how to better specify what kinds of objects languages are and how to conclude that every language is a 'unique evolutionary history of design. This conclusion means that although the structural aspects of formal elegance and aspects of functional efficiency to state that these aspects are manifested more or less intentionally in others. Then their formal and functional aspects are part of languages, while variable parts of language are a reflection of the nature of the lexical interface between the components of

Publisher De Gruyter Open

Source Directory of Open Access Journals

DOAJ Directory of Open Access Journals

Type: Selective package

Services: Full Text (Available)

Interface name: DOAJ Directory of Open Access Journals

Linking Level: Journal

Creation Date: 07/08/2020 10:16:16 CDT

Modification Date: 07/08/2020 10:16:17 CDT

Collection ID:

6181869800000711

MMS ID: 99223740900711

Available for CDI search activation ⓘ

Provider coverage: Yes

Search Rights in CDI: Free

Full Text Rights in CDI: OpenAccess

Full Text Linking in CDI: Link in record

CDI Type: Full Text Collection



- Resources in Primo, Alma, & CDI
- **How Search Works**
- How Ranking Works
- User Experience

How Search Works

- Automatic search optimizations
- User search optimizations
 - Keyword searches
 - Exact match searches
 - Root words
 - Wildcards
 - Stemming
 - Boolean operators
- Restricted search and delivery scopes
- Authentication, Discovery, Delivery for CDI



Automatic Search Optimizations

Suggested search terms

- Autocomplete
- Controlled vocabulary
- Spelling corrections and synonyms
- Stop words

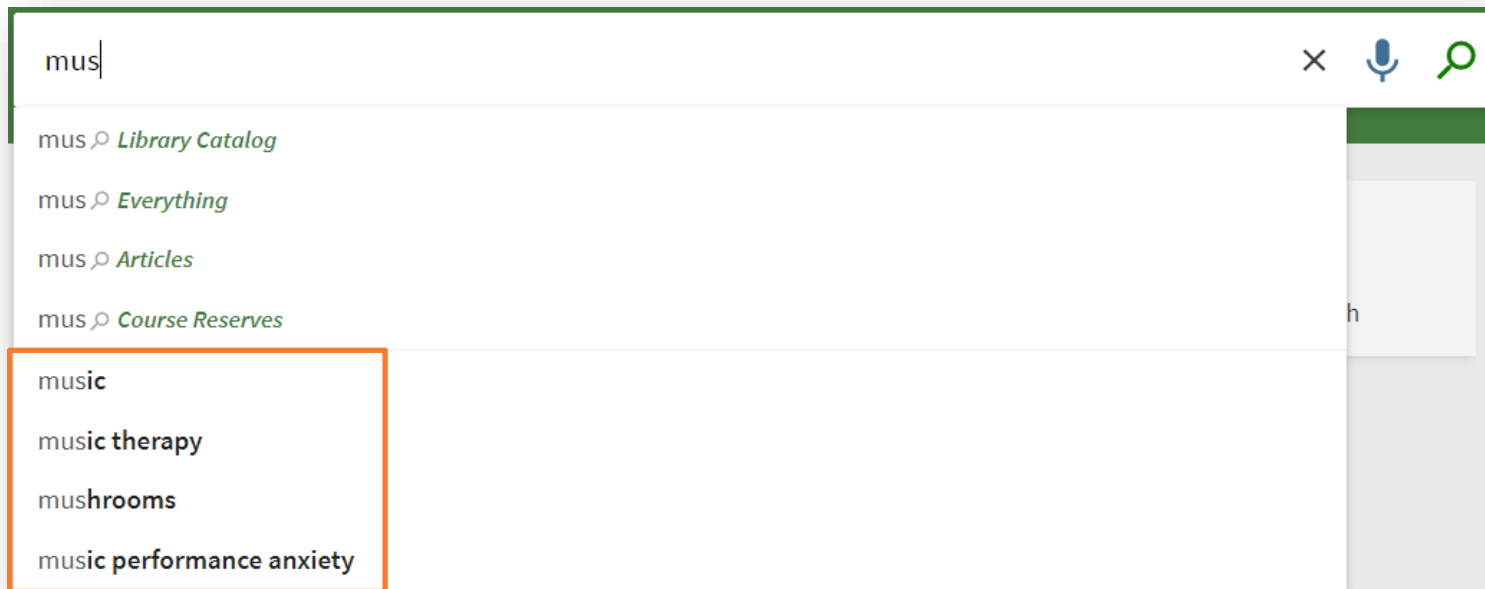
Expands searches based on word stems

- Considers results with original query more relevant

Keyword phrase searches

- Considers results with terms in close proximity more relevant

Suggested Search Terms – Autocomplete



Suggested Search Terms – Controlled Vocabulary Service

heart attack

Articles

Including "myocardial infarction". Just search *heart attack*

PAGE 1 1,619,089 Results Save query

1

REFERENCE ENTRY

heart attack

2017

Encyclopædia Britannica, Inc.

“ information on heart attack, visit Britannica... . A heart attack results from obstruction of the... facilitate the onset of a heart attack upon waking... ”

Available Online >

Suggested Search Terms – Spelling Corrections & Synonyms

The screenshot shows the ExLibris search interface. At the top, there is a navigation bar with the ExLibris logo and several menu items: LIBGUIDES, LIBRARY SEARCH, JOURNAL SEARCH, ILL REQUEST, and a dropdown menu. To the right of the navigation bar are icons for a refresh button, a pushpin, and a 'Sign in' link. Below the navigation bar is a search bar with the text 'Shakespeare' entered. To the right of the search bar are icons for a close button, a dropdown menu set to 'Everything', a microphone icon, and a magnifying glass icon. To the right of the search bar is a link for 'ADVANCED SEARCH'. Below the search bar is a section for 'Tweak your results' with a checkbox for 'Expand My Results'. A suggestion box below the search bar contains the text 'Did you intend to search for: [shakespeare](#) ?'.

Synonyms

- 5th or fifth
- Color or colour
- Spelling corrections and synonyms

Suggested Search Terms – Stop words

- A
- An
- The
- And
- But
- Or
- It
- Of
- On
- With
- In
- Is
- Are

Keyword Searches (DEMO)

ExLibris LIBGUIDES LIBRARY SEARCH JOURNAL SEARCH ILL REQUEST ...

mushroom / Library Catalog ADVANCED SEARCH

Tweak your results 0 selected PAGE 1 22 Results Save query

Sort by Relevance

Availability Held by library Available online

Topic

Author/Creator

Location

Library

Resource Type

Language

- 1 **SHROOM** BOOK
Shroom : a cultural history of the magic mushroom
Letcher, Andy, 1968-
c2007
Available at Science Library Science Stacks (GT3010 .L48 2007) >
- 2 **The edible mushroom book**
Del Conte, Anna Author; Laesele, Thomas Contributor
2008
Available at Main Library Stacks (QK617 .D44 2008) >
Available Online >
- 3 **Mushrooming without fear: the beginner's guide to collecting so delicious mushrooms**
Schwab, Alexander.; Lehmann, Monika.; Mantle, Roy.
2006
Not Available >
- 4 **The mushroom handbook**

ExLibris LIBGUIDES LIBRARY SEARCH JOURNAL SEARCH ILL REQUEST ...

Search for: Library Catalog Everything Articles Course Reserves SIMPLE SEARCH

Any field contains mushroom Material Type All items

AND Any field contains Language Any language

Start Date: Day Month Year

End Date: Day Month Year

+ ADD A NEW LINE CLEAR

Any field contains mushroom SEARCH

Tweak your results 0 selected PAGE 1 22 Results Save query

Sort by Relevance

Availability Held by library

- 1 **SHROOM** BOOK
Shroom : a cultural history of the magic mushroom
Letcher, Andy, 1968-
c2007
Available at Science Library Science Stacks (GT3010 .L48 2007) >

Exact Search (DEMO)

The screenshot displays the ExLibris search interface. At the top, the navigation bar includes links for LIBGUIDES, LIBRARY SEARCH, JOURNAL SEARCH, and ILL REQUEST, along with a user profile for Dill, Jean. The search bar contains the query "mushroom" and is set to the "Library Catalog" database. Below the search bar, the results page shows "Tweak your results" options and a list of three books. The first book, "Shroom: a cultural history of the magic mushroom" by Andy Letcher, is highlighted. An advanced search dialog is overlaid on the right, showing search criteria: "Library Catalog" selected, "is (exact)" operator, and "mushroom" as the search term. The dialog also includes options for material type, language, and date ranges.

ExLibris LIBGUIDES LIBRARY SEARCH JOURNAL SEARCH ILL REQUEST ... Dill, Jean

"mushroom" Library Catalog ADVANCED SEARCH

Tweak your results 0 selected PAGE 1 11 Results Save query

Sort by Relevance

Availability Held by library Available online

Topic

Author/Creator

Location

Library

1 SHROOM BOOK Letcher, Andy, 1968- c2007 Available at Science Lib

2 The edible mushroom BOOK Del Conte, Anna Author; La 2008 Available at Main Librar Available Online

3 Mushrooming without delicious mushrooms BOOK

ExLibris LIBGUIDES LIBRARY SEARCH JOURNAL SEARCH ILL REQUEST ...

Search for: Library Catalog Everything Articles Course Reserves

Any field is (exact) mushroom Material Type All items

AND Any field contains Language Any language

+ ADD A NEW LINE CLEAR

Start Date: Day Month Year

End Date: Day Month Year

Any field is (exact) mushroom SEARCH

Boolean Operators and Order (DEMO)

mushroom* NOT "mushroom" OR "mushrooms"



Library Catalog



ADVANCED SEARCH

Terms are handled sequentially: everything that starts with mushroom (but not the exact term 'mushroom') OR the exact term mushrooms. Would include mushrooming and mushroomed, but would also include results with the term mushrooms

mushroom* NOT ("mushroom" OR "mushrooms")



Library Catalog



ADVANCED SEARCH

Terms in parentheses gets handled first: everything that starts with the term mushrooms, but not the exact terms 'mushroom', 'mushrooms.' Would include terms like mushrooming or mushroomed.

Root words, wildcards, and stemming (DEMO)



A search bar with a green border. The input field contains the text "mushroom". To the right of the input field is a close button (X), a dropdown menu labeled "Library Catalog", a microphone icon, and a magnifying glass icon. Further right is a button labeled "ADVANCED SEARCH".

Keyword search: if results are limited, will include both 'mushroom' and 'mushrooms'



A search bar with a green border. The input field contains the text "mushroom*". To the right of the input field is a close button (X), a dropdown menu labeled "Library Catalog", a microphone icon, and a magnifying glass icon. Further right is a button labeled "ADVANCED SEARCH".

Wildcard search: will include results that have words that start with 'mushroom' (inc. mushrooms, mushroomed, mushrooming...)

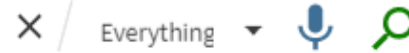


A search bar with a green border. The input field contains the text "mushrooming". To the right of the input field is a close button (X), a dropdown menu labeled "Library Catalog", a microphone icon, and a magnifying glass icon. Further right is a button labeled "ADVANCED SEARCH".

Stemming: if results are limited, will include 'mushroom' results as well; however results with the term 'mushrooming' are treated as more relevant

How Users Can Affect Ranking – Boolean Operators (DEMO)

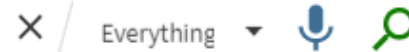
honey bee communication



ADVANCED SEARCH

Treats entire query as a keyword phrase and returns results where the terms are near each other.

honey bee AND communication



ADVANCED SEARCH

Treated as separate phrases and returns results in which the phrase communication may not be close to the words in the other phrase.

Authentication, Discovery and Delivery

On Campus Users

Logged in Users

Off Campus Users

On Campus Users	Logged in Users	Off Campus Users	Off Campus Users
<p>On Campus <i>Not logged in</i></p> <p><i>Primo knows where they are, but not who they are</i></p> <p><i>User is recognized as an authorized user of subscription content</i></p>	<p>On Campus <i>Logged in</i></p> <p><i>Primo knows where and who the user is</i></p> <p><i>User is recognized as an authorized user of subscription content</i></p>	<p>Off Campus <i>Logged in</i></p> <p><i>Primo knows who they are, but not where they are</i></p> <p><i>User is recognized as an authorized user of subscription content</i></p>	<p>Off Campus <i>Not logged in</i></p> <p><i>Primo doesn't know where or who the user is</i></p> <p><i>User is NOT recognized as an authorized users of subscription content</i></p>

Authentication, Discovery and Delivery

On Campus Users

Logged in Users

Off Campus Users

On Campus <i>Not logged in</i>	On Campus <i>Logged in</i>	Off Campus <i>Logged in</i>	Off Campus <i>Not logged in</i>
<i>CDI search results include all resources active in CDI</i>	<i>CDI search results include all resources active in CDI</i>	<i>CDI search Results include all resources active in CDI but may also need to log in via proxy for delivery of full text</i>	<i>CDI search results include only resources active in CDI that are not restricted to search; for results retrieved, they may also need to log in via proxy for delivery of full text</i>

Restricted Groups

Restricted User Groups

- Restricts groups of users from accessing restricted Central Index collections and EBSCO Search
- If user is part of restricted group, they will not have access unless on campus
- E.g. Alumni w/user accounts who sign in off campus

Restricted Search Groups

- Restricts groups of records from appearing in the search results for specific users (based on IP ranges, user groups, registered users, on campus users)
- If user is allowed to search, they will be able to see search results from that group of records
- If user is not allowed to search, no search results from that group of records will appear



- Resources in Primo, Alma, & CDI
- How Search Works
- **How Ranking Works**
- User Experience

How Ranking Works (DEMO)

- How users can affect ranking of results
- How CDI results are ranked
- How local records are ranked
- How blended results are ranked



How Users Can Affect Ranking – Personalization (DEMO)

The screenshot shows the ExLibris search interface with the search term "biolinguistics". The results page includes a "Tweak your results" section with a "Personalize" toggle switch. A "Personalize the results" dialog box is open, showing a list of disciplines to select. Annotations with arrows point to the "Expand My Results" checkbox, the "Sort by Relevance" dropdown, the facet filters on the left, and the "Personalize" toggle and dialog.

Expand → Expand My Results

Sort → Sort by Relevance

Facet (filter) → Availability **Topic** **Author/Creator** **Location** **Library** **Resource Type** **Collection**

Personalize → Personalize

Personalize the results
You can help us provide you with better result matches by focusing the search on your preferred disciplines. Please select up to 5 disciplines.

- Agriculture & Forestry
- Arts & Humanities
 - History & Archaeology
 - Languages & Literature
 - Philosophy & Religion
- Business & Economics
- Engineering
 - Computer Science
 - Materials Science
- Law
- Library & Information Science
- Medicine
 - Diet & Clinical Nutrition
 - Pharmacy, Therapeutics & Pharmacology
- Nursing
- Physics
- Psychology
- Sciences
 - Biology
 - Chemistry
 - Earth Sciences
 - Mathematics
- Social Sciences
 - Anthropology
 - Education
 - Geography
 - Journalism & Communications
 - Political Sciences
 - Public Health
 - Sociology
- Statistics
- Veterinary Medicine

How CDI Results are Ranked

Dynamic Rank (applies to query)	Static Rank (value of the item)
Field weighting	Resource type
Term weighting	Publication date
Term frequency and field length	Scholarly/Peer review
Verbatim match boost	Citation counts
Phrase and proximity match boost	Journal rank
Exact title and title+subtitle match boost	Anonymous author
Known item search boost	

How Local Results are Ranked (DEMO)

ExLibris | Alma Sandbox

★ » Acquisitions Resources Research Discovery Fulfillment Admin Analytics

Ranking Configuration

Fields Boosting

1 - 7 of 7 + Add New Field 🔄 ⚙️

Field	Name	Boosting Factor	Updated By	Last Updated	
1 title	Title	3.5	-	-	⋮
2 creator	Creator	3.0	-	-	⋮
3 sub	Subject	2.5	-	-	⋮
4 toc	TOC	1.5	-	-	⋮
5 isbn	ISBN	1.0	-	-	⋮
6 lang	Language	1.0	-	-	⋮
7 addtitle	Additional title	0.01	-	-	⋮

Date Boosting + Add Year

No records were found.

Resource Type Boosting + Add Resource Type

No records were found.

How Blended Results are Ranked

Search Profiles Back

	Code	Display Name	Search type	Description	
1	CentralIndex	Articles and more	Central Index	All records within your Central Index profile	...
2	CourseReserves	Course Reserves	Local Data	All records linked to an active course	...
3	MAPS	Maps	Local Data	-	...
4	MUSIC	Music Library	Local Data	All resources in the Music Library	...
5	MyInst_and_CI	Search everything	Blended	Blended - All records belonging to your institution and your Central Index profile	...
6	MyInstitution	Library Catalog	Local Data	All records belonging to your institution	View
7	Research	All outputs	Local Data	All Records within your Research	Edit
8	ResearchETD	Dissertations & Theses	Local Data	Dissertations and Theses	Configure blending

← Edit blending configuration for Search profile: MyInst_and_CI Back

	Enabled	Search engine	Boost type	Settings	
1	<input checked="" type="checkbox"/>	Local	Boost	Boost records with a medium score - Boost position: top - Number of results to boost: 5 - Boost factor: 2.5	...
2	<input type="checkbox"/>	Central Index	-	-	...



- Resources in Primo, Alma, & CDI
- How Search Works
- How Ranking Works
- **User Experience**

User Experience Optimization (DEMO)


- Branding
- Links in Main Menu
- Labels
- Search configuration
- Search results configuration
- Brief and full record configuration
- Topic Overview
- Resource Recommender



Advanced Search Interfaces – Resource Recommender (DEMO)

linguistics X / Library Catalog 🔊 🔍

SUGGESTED DATABASE
ProQuest Linguistics Database
[Go to database](#)

SUGGESTED WEBSITE
 Linguistic Society of America :
Advancing the Scientific Study of
Language since 1924
[Linguistic Society of America](#)

Databases **Websites**

library hours X / Library Catalog 🔊 🔍

LIBRARY INFORMATION
Library Hours
[Ex Libris Institute Homepage](#)
Open Monday thru Friday 8 am - 8 pm; Saturday and Sunday 10 am - 4 pm

Library Information

lichen identification X / Everything 🔊 🔍

SUGGESTED LIBRARIAN
Jean Dill
Experienced in identifying wildflowers, trees, lichens, mushrooms, birds, and other wildlife.

Person

electronic resource management X / Everything 🔊 🔍

LIBRARY GUIDE
[Ex Libris' Resource Management LibGuide](#)

Library Guide

Knowledge Center Resources

- [Primo VE End User Help](#)
- [Linguistic Features for Primo VE](#)
- [Search and Ranking in CDI](#)
- [Personalizing Results](#)
- [How Blended Results are Ranked](#)
- [Resource Recommender](#)

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Thank you!