

The Virtual International Authority File in the Bibliographic Ecosystem

VIII Encuentro Nacional de Catalogadores

Del 1 al 5 de noviembre de 2021

Modalidad virtual



Nathan B. Putnam

Director, Metadata Quality, OCLC

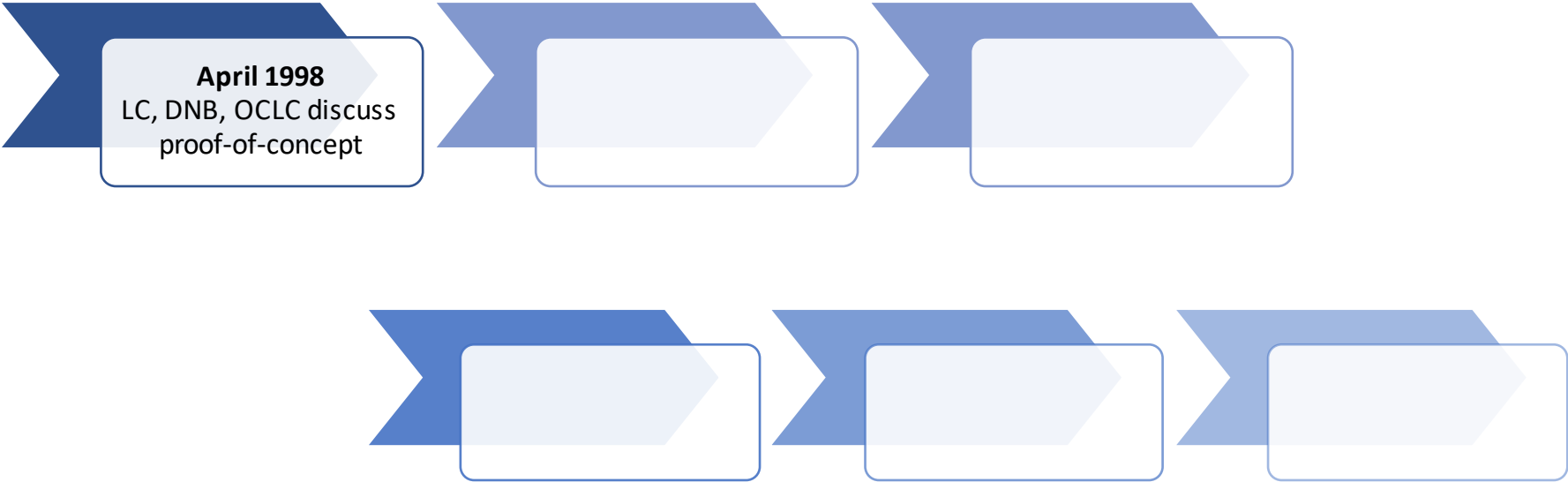
putnamn@oclc.org

Presentation overview

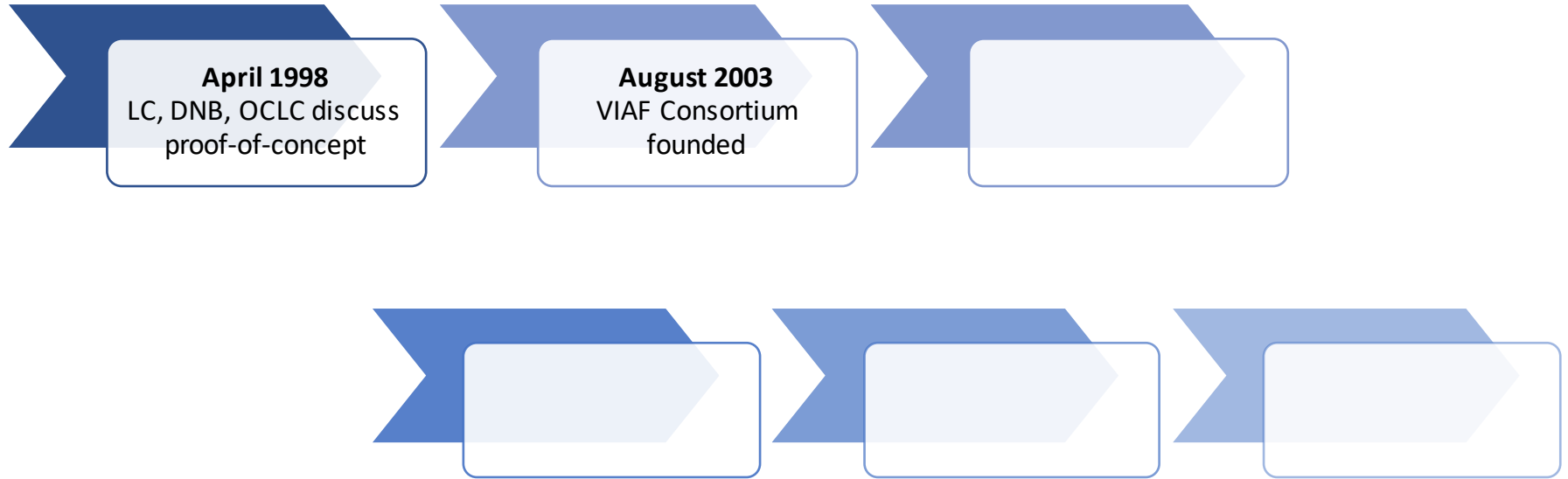
- History & overview
- VIAF usage
- Future

The screenshot displays the VIAF website interface. At the top, there is a search bar with a dropdown menu for 'Select Field' (set to 'All Readings') and a 'Search' button. Below the search bar, the text reads: 'VIAF: The Virtual International Authority File. The VIAL (Virtual International Authority File) combines multiple name authority files by matching and linking related-authority files and making that information available to users.' A list of contributing libraries is shown, including the National Diet Library, National Library of Medicine, National Library of Science, National Library of the Netherlands, National Library of the Czech Republic, and others. A 'Search' section is also visible, showing a search for 'Homer' with results for 'Homer, ca. 850 BC', 'Homer, 8th c. B.C.', and 'Homer, ca. 8th c. B.C.'. A map of the world shows red pins indicating the locations of contributing libraries across various continents. The OCLC logo is visible in the top right corner.

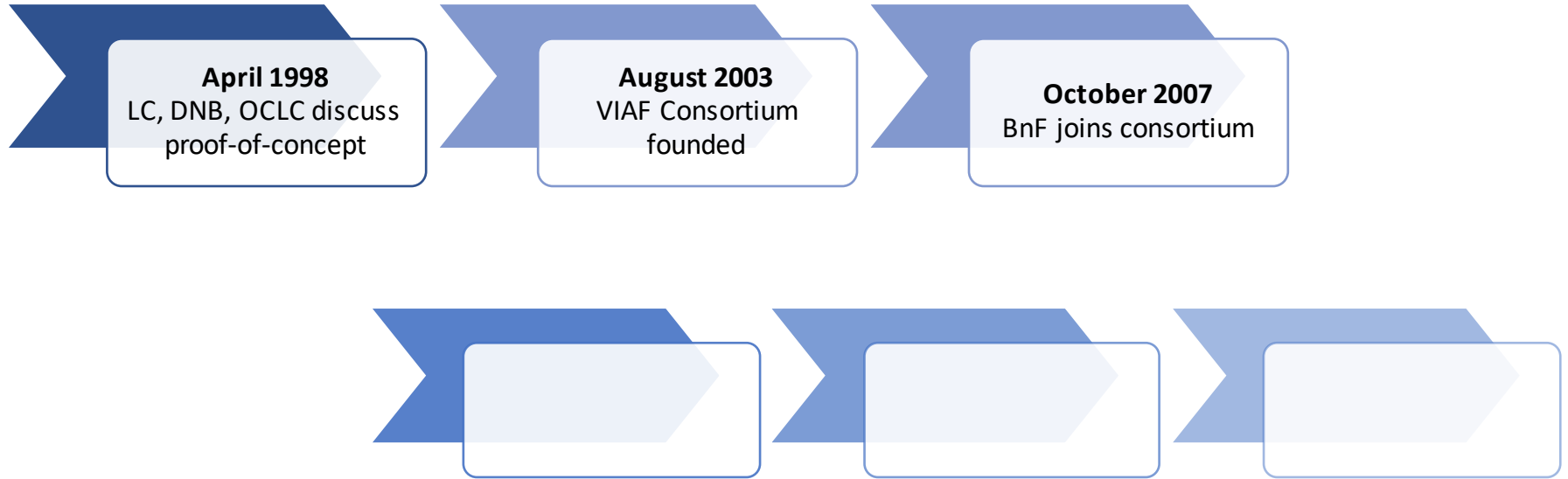
History



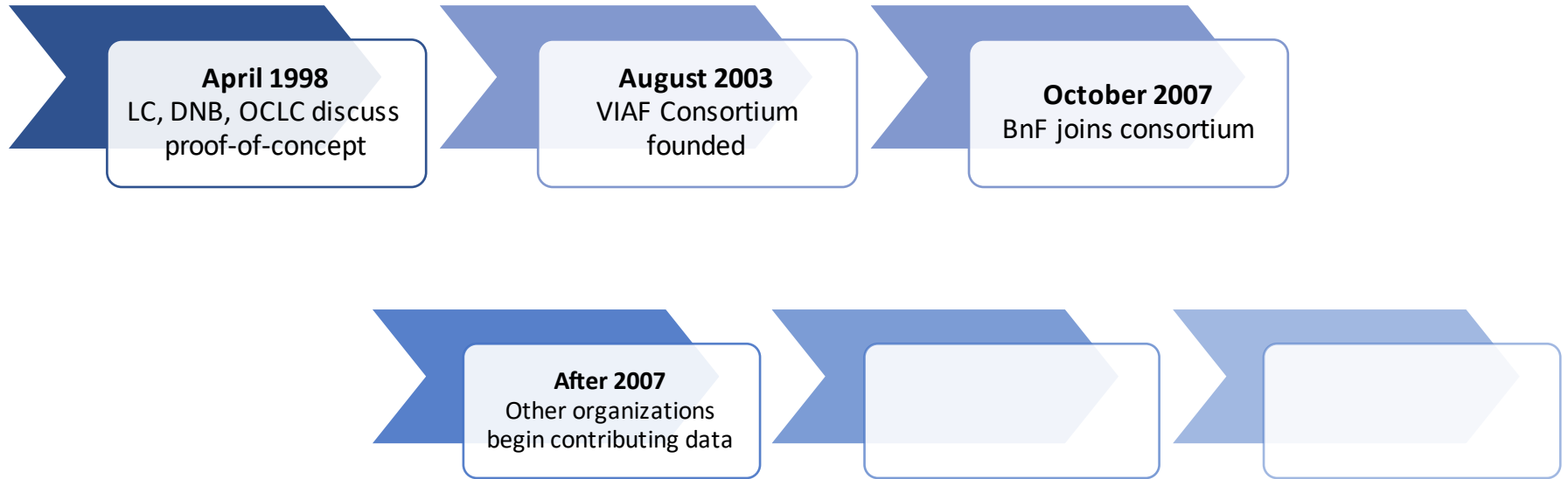
History



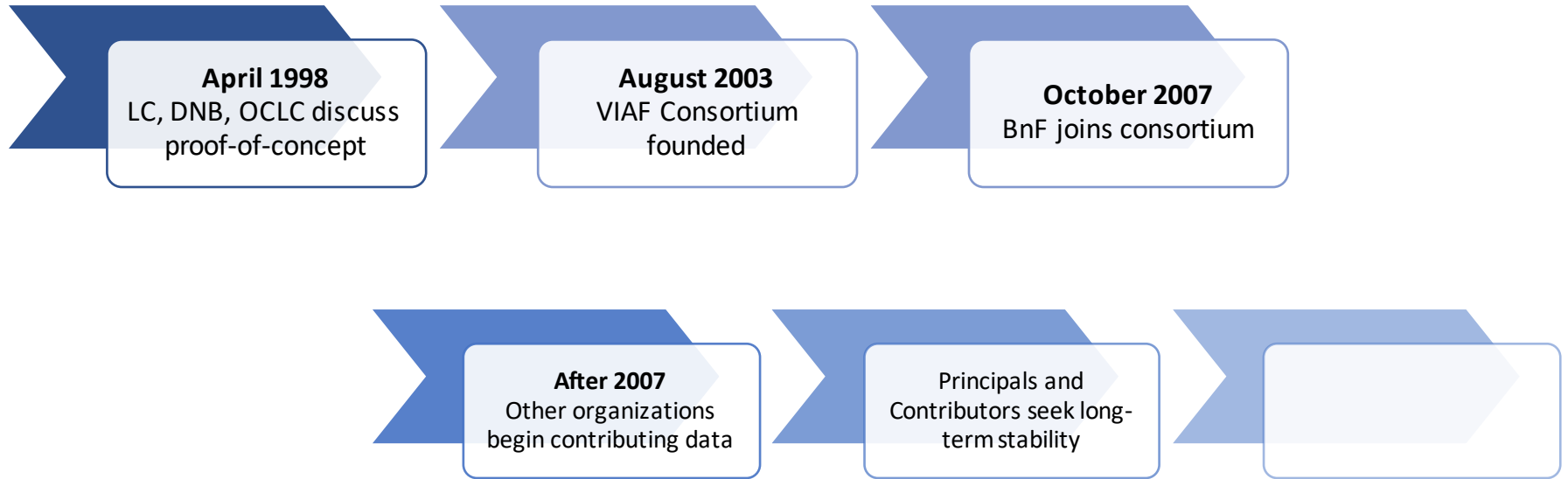
History



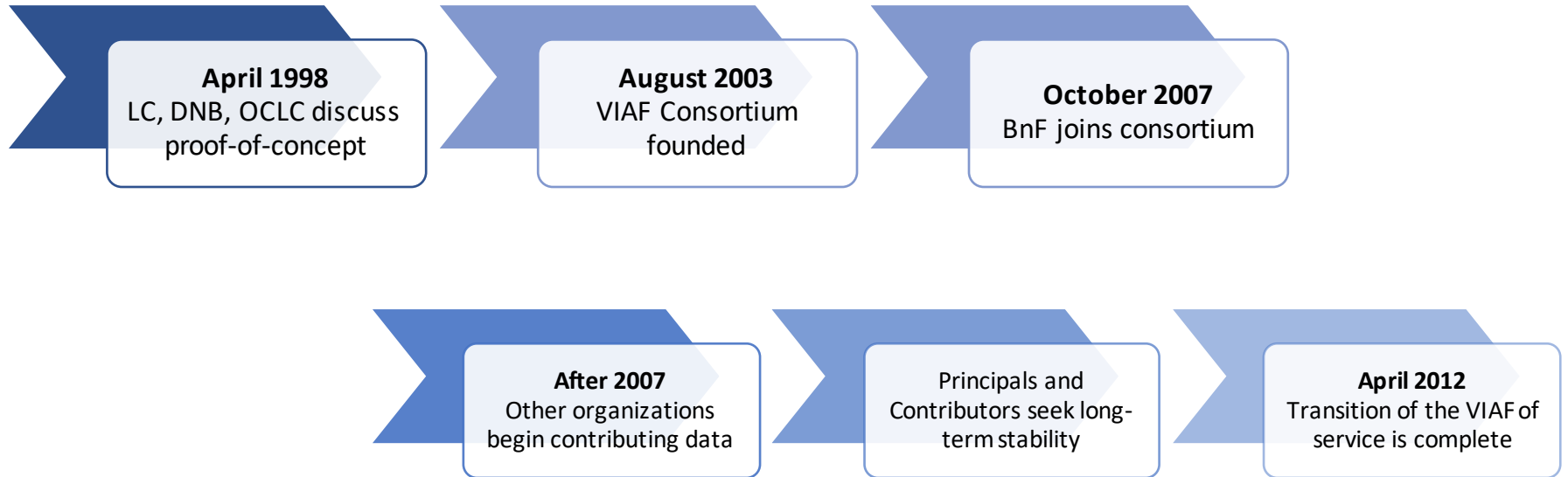
History



History

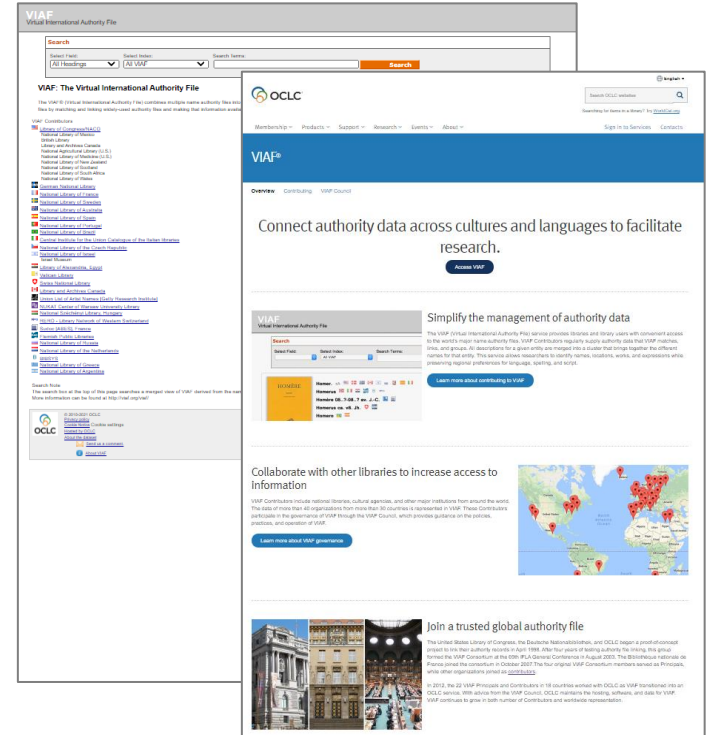


History



The Virtual International Authority File (VIAF)

- Files from LAM institutions
- Cooperation between OCLC, national libraries, and other partners
- Governed by the VIAF Council



Search








Select Field: Select Index: Search Terms:

VIAF: The Virtual International Authority File








The VIAF® (Virtual International Authority File) combines multiple national authority files to lower the cost and increase the utility of library authority files by making them available on the Web. [Learn more.](#)

ice. The goal of the service information available on

VIAF Contributors

-  [Library of Congress/NACO](#)
-  National Library of Mexico
-  British Library
-  Library and Archives Canada
-  National Agricultural Library (U.S.)
-  National Library of Medicine (U.S.)
-  National Library of New Zealand
-  National Library of Scotland
-  National Library of South Africa
-  National Library of Wales
-  [German National Library](#)
-  [National Library of France](#)
-  [National Library of Sweden](#)
-  [National Library of Australia](#)

- [Brontë, Charlotte, 1816-1855](#)
- [Brontë, Emily, 1818-1848](#)
- [Brontë, Anne, 1820-1849](#)
- [Brontë, Patrick Branwell, 1817-1848](#)
- [Brontë, Horatio Viscount Nelson-, 1758-1805](#)
- [Brontë, Patrick, 1777-1861](#)
- [Brontë Woodard](#)
- [Brontë, Emily, 1818-1848. | Wuthering heights](#)
- [Brontë Society](#)
- [Brontë, Emil, -1919](#)

-  [National Library Board, Singapore](#)
-  [National Library of Latvia](#)
-  [National Library of Poland](#)
-  [National Library of Catalonia](#)
-  [Lebanese National Library](#)
-  [Perseus](#)
-  [Syriac Reference Portal](#)

Search

Select Field:

All Headings

Select Index:










All VIAF

Search Terms:

Brontë, Charlotte, 1816 1855

Search

202 headings found for *Brontë, Charlotte, 1816 1855*

	Heading	Type	Sample Title
1	Brontë, Charlotte, 1816-1855 	Personal	Agnes Grey The Belgian essays Jane Eyre Jane Eyre Džeina Eira Emma Jane Eyre
	Brontë, Charlotte 		Jane Eyre
	Бронте, Ш. 1816-1855 Шарлотта 		Džeina Eira
	1855-1816, برونتی، شارلوت، 		Emma
	Charlotte Brontë 		Jane Eyre
	Бронте, Шарлотта, 1816-1855. 		Jane Eyre
	1816-1855, ברונטה, שרלוט. 		Jane Eyre
	Brontë, Charlotte (English novelist, 1816-1855) 		
	Brontë, Ch. 1816-1855 Charlotte 		

Search

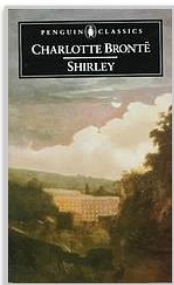
Select Field: All Headings
Select Index: All VIAF



Brontë, Charlotte, 1816-1855
Brontë, Charlotte
Эпокре, Ш. 1816-1855 Шарлотта
1855-1816 برونتي, شارلوت
Charlotte Brontë
Эпокре, Шарлотта, 1816-1855.
1816-1855 ברונטה, שרלוט
Brontë, Charlotte (English novelist, 1816-1855)
Brontë, Ch. 1816-1855 Charlotte
VIAF ID: 71388025 (Personal)
Permalink: <http://viaf.org/viaf/71388025>

Preferred Forms

- 200 1 1 2a_Brontë_Ch Charlotte 2f (1816-1855)
- 200 1 1 2a_Brontë_Ch Charlotte 2f 1816-1855
- 200 1 1 2a_Brontë_Ch Charlotte 2f 1816-1855
- 100 1 1 2a_Brontë_Ch Charlotte 2d 1816-1855
- 100 1 1 2a_Brontë_Ch Charlotte 2d 1816-1855
- 100 1 1 2a_Brontë_Ch Charlotte 2d 1816-1855
- 100 1 1 2a_Brontë_Ch Charlotte 2d 1816-1855
- 100 1 1 2a_Brontë_Ch Charlotte 2d 1816-1855
- 100 1 1 2a_Brontë_Ch Charlotte 2d 1816-1855
- 100 1 1 2a_Brontë_Ch Charlotte 2d 1816-1855
- 100 1 1 2a_Brontë_Ch Charlotte 2d 1816-1855
- 100 1 1 2a_Brontë_Ch Charlotte 2d 1816-1855



Brontë, Charlotte, 1816-1855
Brontë, Charlotte
Эпокре, Ш. 1816-1855 Шарлотта
1855-1816 برونتي, شارلوت
Charlotte Brontë
Эпокре, Шарлотта, 1816-1855.
1816-1855 ברונטה, שרלוט
Brontë, Charlotte (English novelist, 1816-1855)
Brontë, Ch. 1816-1855 Charlotte
VIAF ID: 71388025 (Personal)
Permalink: <http://viaf.org/viaf/71388025>

Preferred Forms

4xx's: Alternate Name Forms (255)

5xx's: Related Names (68)

Works

Selected Co-authors

Countries and Regions of Publication (53)

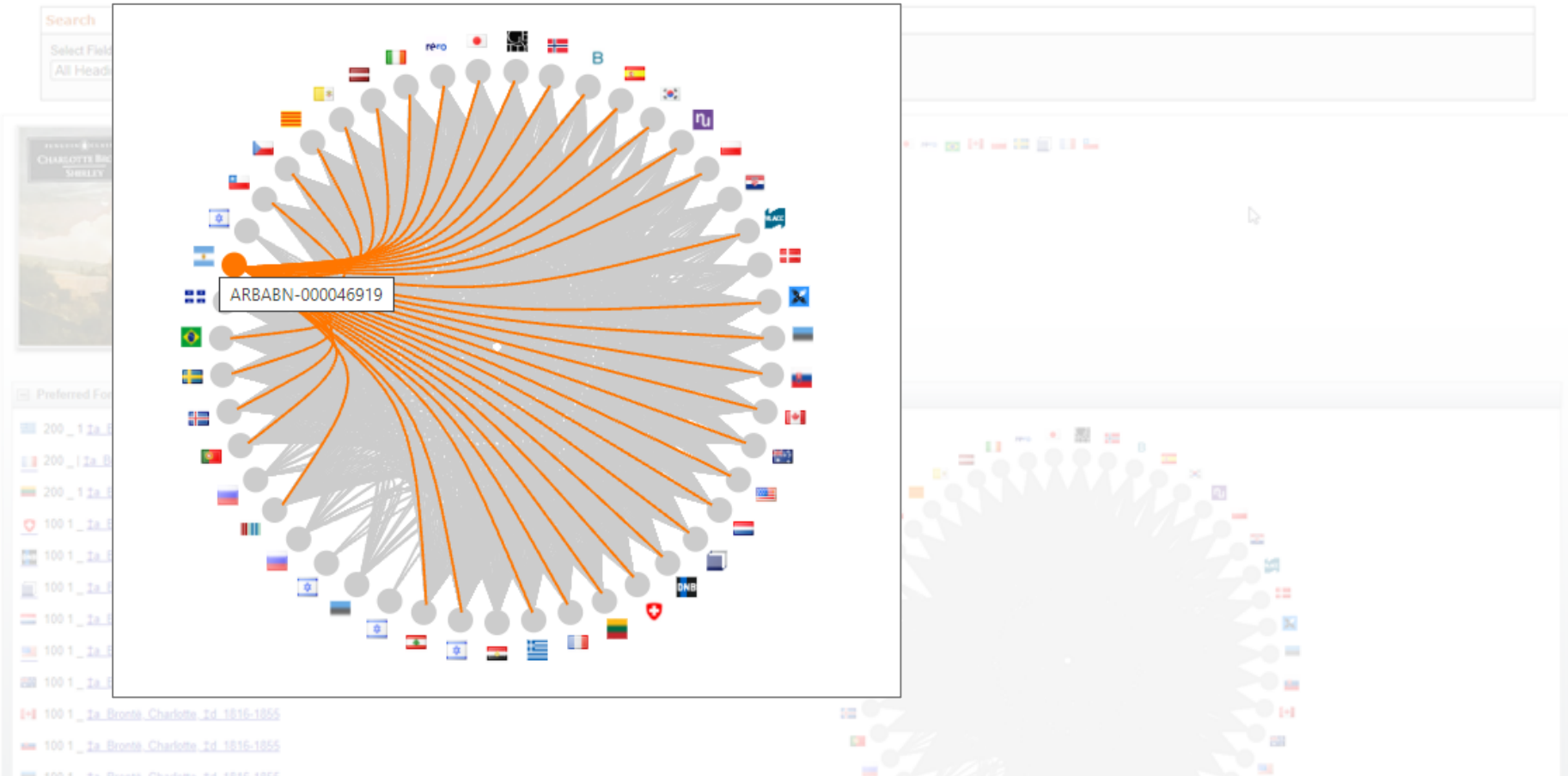
Publication Statistics

Selected Publishers (20)

About

Record Views

History of VIAF ID:71388025 (74)



Search

Select Field:

All Headings

Select Index:

All VIAF

Search Terms:

Brontë, Charlotte, 1816 1855

Search

Leader	00000cz a2200037n 45 0
001	ARBABN 000046919 (VIAF cluster) (Authority/Source Record)
005	20180227165324.0
008	790621nn azannaabn a aaa
003	ARBABN
035	‡a (ARBABN)000046919
040	‡a DLC ‡b eng ‡e rda ‡c DLC ‡d OCoLC ‡d NjP ‡d TxHU ‡d NjP ‡d SG-SiLLA ‡d DLC-R ‡d OCoLC ‡d UPB ‡d DLC ‡d WU ‡d IEN ‡d AR-BaBN ‡e aacr
043	‡a e-uk-en
046	‡f 18160421 ‡g 18550331
100	1 ‡a Brontë, Charlotte, ‡d 1816-1855
370	‡a Thornton (Inglaterra)

Usted se encuentra en: [Búsqueda de autoridades](#) > [Registro completo](#)

Formato MARC

No. sistema 000046919
Otro ID normalizado 71388025
0000000122816316
Q127332
Nombre personal Brontë, Charlotte,1816-1855
• [Ver obras del autor](#)
• [Ver obras sobre el autor](#)
Lugar asociado Nació en Thornton (Inglaterra)
Murió en Haworth (Inglaterra)
Residió: Haworth (Inglaterra)
Campo de actividad Literatura
Novela
Poesía
Educación
Ocupación Escritores
Poetas

Utilidades

Enlace permanente

Copiar

 Exportar registro MARC

 Agregar a estante electrónico

 Imprimir el registro seleccionado

 Sugerencias acerca del registro

Compartir



57

Data
sources

173M

Bibliographic
records

87M

Authority
records

35M

Cluster
records

Comparison of 2020 and 2021

Language of cataloging (authorities)

4,052,496

additions during 2021 (accumulative)

Language	2020	2021	Change
English	41,457,007	45,723,100	4,266,093 ▲
French	11,060,913	11,322,552	261,639 ▲
German	9,829,143	8,953,158	-875,985 ▼
Polish	3,655,071	3,869,764	214,693 ▲
Japanese	2,919,521	2,959,920	40,399 ▲
Dutch	2,767,079	2,797,380	30,301 ▲
Norwegian	2,001,655	2,063,893	62,238 ▲
Czech	951,122	983,503	32,381 ▲
Spanish	897,101	917,838	20,737 ▲
Grand Total	75,538,612	79,591,108	4,052,496 ▲

Types of clusters

1,860,564

additions during 2021 (accumulative)

Type	2020	2021	Change
Corporate	6,049,465	6,190,001	140,536 ▲
Geographic	650,198	660,491	10,293 ▲
Personal	22,086,320	23,787,809	1,701,489 ▲
Uniform Title/Expression	1,637,517	1,645,763	8,246 ▲
Grand Total	30,423,500	32,284,064	1,860,564 ▲

Types of authorities

-41,537

changes during 2021 (accumulative)

Type	2020	2021	Change
Corporate	10,525,583	10,582,609	57,026 ▲
Geographic	10,990,753	11,565,753	575,000 ▲
Personal	59,974,058	59,467,105	-506,953 ▼
Title	5,764,836	5,598,226	-166,610 ▼
Grand Total	87,255,230	87,213,693	-41,537 ▼

Continuous updates as demonstrated with changes to language of cataloging, types of clusters, and types of authority records

Source: OCLC, September 2021

VIAF guidelines document

- Documentation on
 - Supported authority types
 - Supported record formats
 - Required record data
 - Typical issues
- See: [oc.lc/viaf-guidelines](https://oclc.org/viaf-guidelines)
(opens as a PDF)

VIAF Guidelines

Adopted 14 August 2015 in Cape Town, South Africa
Revised 16 July 2019

Aim and scope of this document

This document gives a short description of what is needed to successfully participate in the Virtual International Authority File (VIAF®), including: what records should be submitted, basic requirements for records, where VIAF looks for information, how you can influence the clustering, and common problems.

Outline:

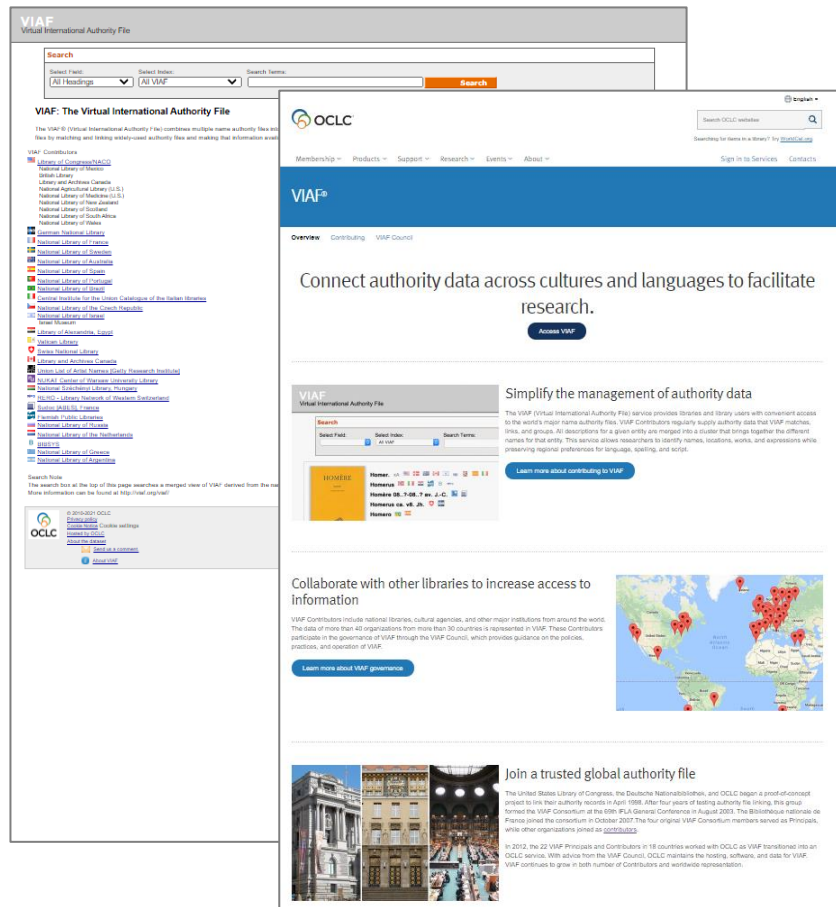
- Key principles
- Types of authorities currently supported
- Record formats
- Minimum information required
- What types of records to include in VIAF
- Information by types of entities
- Typical problems
- Forced links
- Reassigning authority control identifiers
- Where VIAF looks

The intended audience is VIAF participants and applicants.

Key principles: The more complete and accurate the information, the better the matching

- VIAF reflects the data submitted to it by the participants. VIAF does not create data but only processes data submitted by VIAF participants.
 - The participants are encouraged to submit all their authority data corresponding to the VIAF scope (see below).
 - VIAF respects the editing rules set up by each participant in building authority records.
- VIAF is periodically updated and reprocessed to be compliant with updates its participants submit to it. While the VIAF team at OCLC does its best to properly match and represent an institution's records in VIAF and regularly keeps the participants informed on the processing of their data, the participants are encouraged to pay attention periodically to how their data appears in VIAF and let OCLC know about problems.
- VIAF ingests data from both authority and bibliographic records. VIAF uses information from associated bibliographic records to enable the matching process and enhance its quality.

VIAF usage



The screenshot displays the VIAF website interface, which is designed for connecting authority data across cultures and languages. The main navigation bar includes links for Membership, Products, Support, Research, Events, and About. The header features the VIAF logo and the OCLC logo. The main content area is titled "Connect authority data across cultures and languages to facilitate research." and includes a search bar with the text "Search OCLC website". Below the navigation bar, there is a section titled "VIAF: The Virtual International Authority File" with a brief description of the service. The left sidebar lists various contributing libraries, including the British Library, National Library of Medicine, and National Library of Science. The main content area features a search bar and a list of search results for the term "Homer". The search results are displayed in a table with columns for the title, author, and date. The first result is "Homer, ca. 850 - 480 BCE" with a link to the full record. The second result is "Homer, ca. 850 - 480 BCE" with a link to the full record. The third result is "Homer, ca. 850 - 480 BCE" with a link to the full record. The fourth result is "Homer, ca. 850 - 480 BCE" with a link to the full record. The fifth result is "Homer, ca. 850 - 480 BCE" with a link to the full record. The sixth result is "Homer, ca. 850 - 480 BCE" with a link to the full record. The seventh result is "Homer, ca. 850 - 480 BCE" with a link to the full record. The eighth result is "Homer, ca. 850 - 480 BCE" with a link to the full record. The ninth result is "Homer, ca. 850 - 480 BCE" with a link to the full record. The tenth result is "Homer, ca. 850 - 480 BCE" with a link to the full record. The bottom section of the page features a map of the world with red pins indicating the locations of contributing libraries. The map shows a high concentration of pins in Europe and North America, with fewer pins in South America, Africa, and Asia. Below the map, there is a section titled "Collaborate with other libraries to increase access to information" with a link to "Learn more about VIAF governance". The bottom right section is titled "Join a trusted global authority file" and includes a list of contributing libraries and a link to "Learn more about VIAF governance".

Authority records vs. Real World Objects (RWO)

LC control no.: n 79054114
LCCN Permalink: <https://lccn.loc.gov/n79054114>
HEADING: Brontë, Charlotte, 1816-1855
000 04189cz a2200649n 450
001 958470
005 20200228073439.0
008 790621n| azannaabn |b aaa
010 __ |a n 79054114
016 __ |a 0014G0671E
035 __ |a (OCoLC)oca00287252
040 __ |a DLC |b eng |e rda |c DLC |d DLC |d OCoLC |d NjP |d TxHU
042 __ |a nlc
046 __ |f 1816-04-21 |g 1855-03-31 |2 edtf
053 _0 |a PR4165 |b PR4169
100 1_ |a Brontë, Charlotte, |d 1816-1855
370 __ |a Thornton (England)
370 __ |b Haworth (England) |c England |e Haworth (England) |2 naf
372 __ |a Novels |a Poetry |2 lcgft
374 __ |a Novelists |2 lcdgt |s 1833 |t 1855
374 __ |a Poets |2 lcdgt |s 1846
374 __ |a Governesses |2 lcsh |s 1839 |t 1841
375 __ |a Females |2 lcdgt
377 __ |a eng

Authority description author, Charlotte Brontë

Source: <https://lccn.loc.gov/n79054114>



Image representing author Charlotte Brontë

Source: https://commons.wikimedia.org/wiki/File:Charlotte_Bront%C3%AB.jpg

URIs in bibliographic records

100 1_ \$a Brontë, Charlotte, \$d 1816-1855, \$e author.

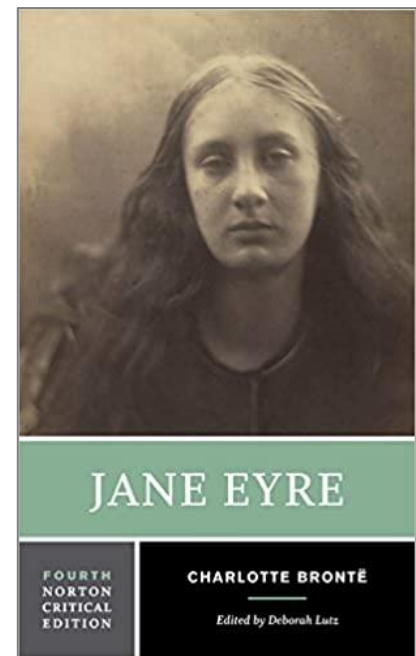
245 10 \$a Jane Eyre : \$b an authoritative text, contexts,
criticism /
\$c Charlotte Brontë ; edited by Deborah Lutz.

250 __ \$a Fourth edition

264 _1 \$a New York : \$b W.W. Norton & Company, \$c [2016]

300 __ \$a ix, 544 pages ; \$c 22 cm

490 1_ \$a A Norton critical edition



URIs in bibliographic records

100 1_ \$a Brontë, Charlotte, \$d 1816-1855, \$e author.

245 10 \$a Jane Eyre : \$b an authoritative text, contexts, criticism /

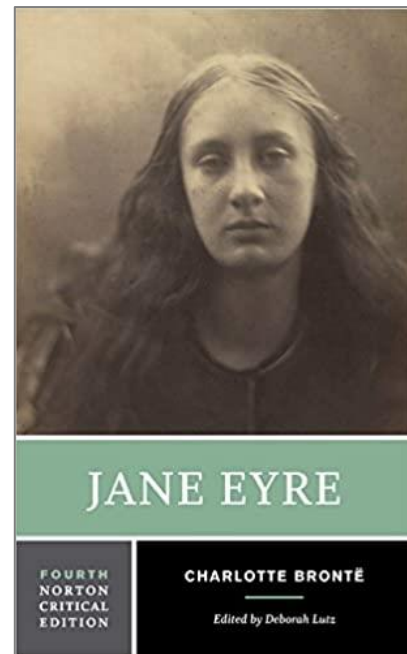
\$c Charlotte Brontë ; edited by Deborah Lutz.

250 ___ \$a Fourth edition

264 _1 \$a New York : \$b W.W. Norton & Company, \$c [2016]

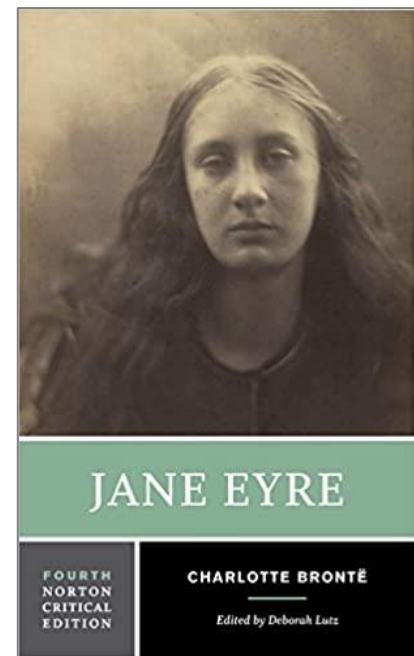
300 ___ \$a ix, 544 pages ; \$c 22 cm

490 1_ \$a A Norton critical edition



URIs in bibliographic records

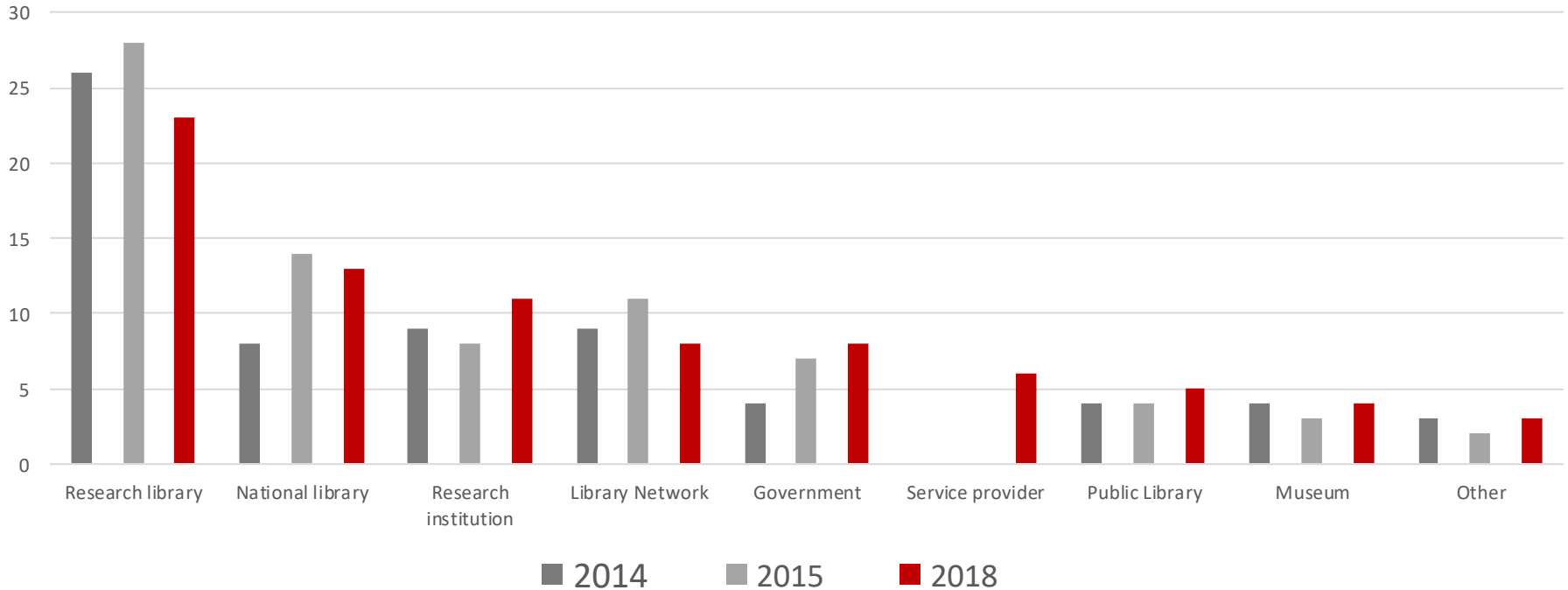
```
100 1_ $a Brontë, Charlotte, $d 1816-1855, $e author.  
$0 http://id.loc.gov/authorities/names/n79054114  
$1 http://viaf.org/viaf/71388025  
245 10 $a Jane Eyre : $b an authoritative text, contexts,  
criticism /  
$c Charlotte Brontë ; edited by Deborah Lutz.  
250 $a Fourth edition  
264 _1 $a New York : $b W.W. Norton & Company, $c [2016]  
300 $a ix, 544 pages ; $c 22 cm  
490 1_ $a A Norton critical edition  
758 ___ $i Critique of (work) $a Brontë, Charlotte, 1816-1855.  
Jane Eyre  
$0 http://id.loc.gov/authorities/names/no00002946  
$1 http://viaf.org/viaf/179440401  
758 ___ $i Apart of OCLC cluster (work)  
$1 http://worldcat.org/work/4915340582
```



International linked data survey for implementers

- Began surveying implementers in July 2014
- Continuation of the survey in 2015 and 2018
- Survey results can be downloaded
- Many articles written by Karen Smith-Yoshimura discussing the results

Responding institutions by type



Projects in production

	2018	2015
Not yet in production	26	37
Less than one year	14	19
More than one year, less than two years	15	10
More than two years	18	46
More than four years	31	
Total	104	112

Linked data implementations

 Anomisma.org

 europeana
collections

 NDL Search

 (BnF) Bibliothèque
nationale de France

 data.bnf.fr


 hbz

 lobid

 **LIBRARY**
LIBRARY
OF CONGRESS

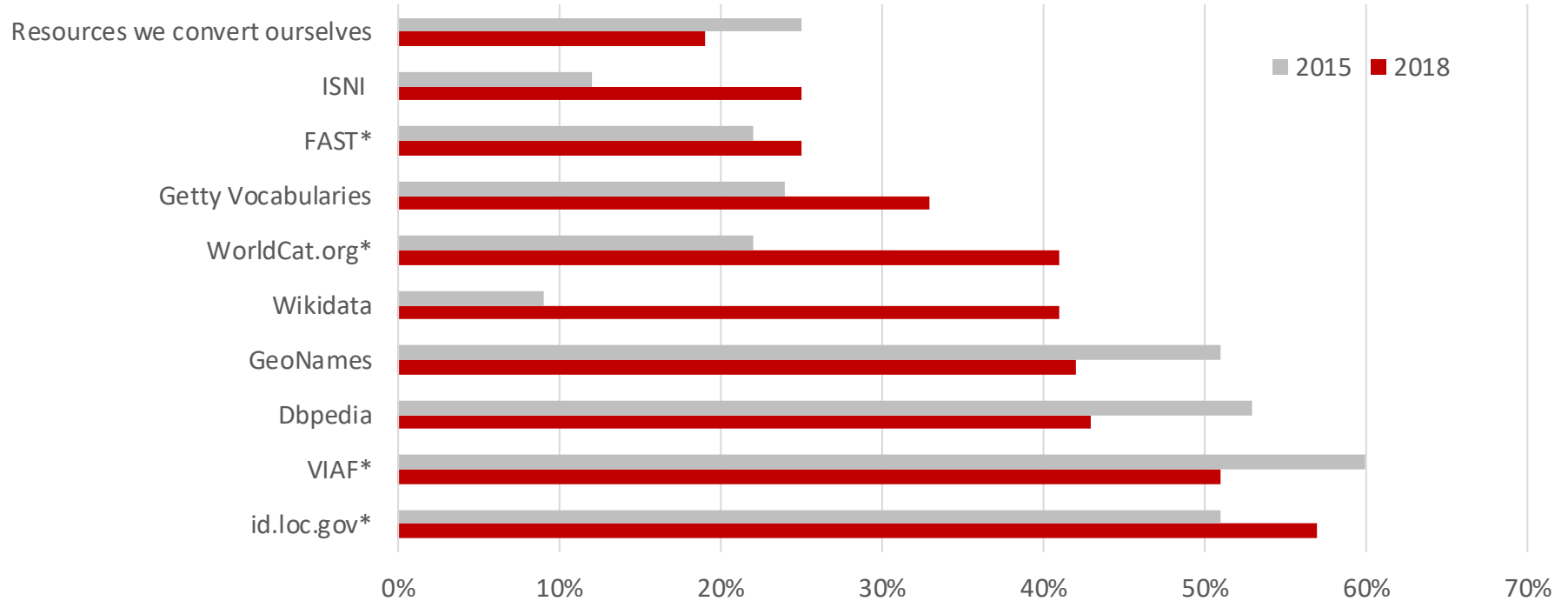
ID.LOC.GOV - Linked Data Service


OCLC®

 VIAF
Virtual International Authority File

 WorldCat®

Linked data sources consumed



Some that started consuming Wikidata

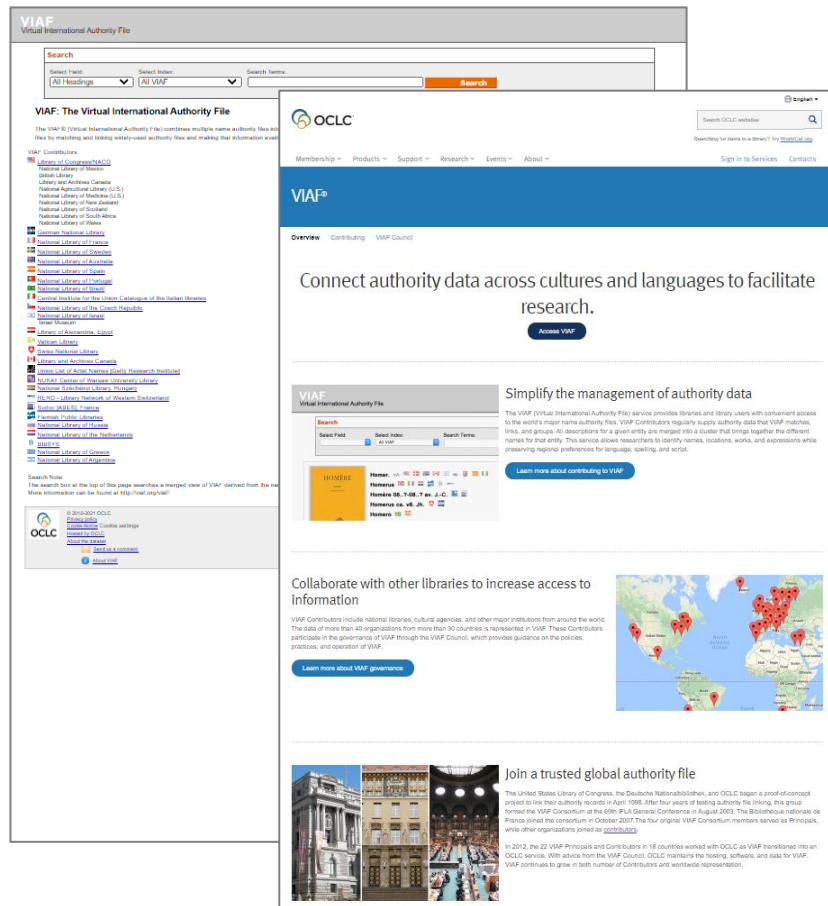


(BnF) Bibliothèque nationale de France

data.bnf.fr



Future



The screenshot displays the VIAF (Virtual International Authority File) website. The top navigation bar includes the VIAF logo and the text "Virtual International Authority File". Below this is a search bar with a "Search" button. The main content area features a list of contributing libraries, including the British Library, National Library of Medicine, and National Library of Congress. A sidebar on the right shows the OCLC logo and navigation links for Membership, Products, Support, Research, Events, and About. The central text reads "Connect authority data across cultures and languages to facilitate research." Below this is a section titled "Simplify the management of authority data" with a sub-section "VIAF Virtual International Authority File" and a search bar. A world map on the right shows the global distribution of contributing libraries. At the bottom, there is a section "Join a trusted global authority file" with a collage of library buildings and text describing the consortium's history and goals.

Shared Entity Management Infrastructure



Shared Entity
Management
Infrastructure
(2020-21)

For linked data to move into common use, libraries need reliable and persistent identifiers and metadata for the critical entities they rely on. This project begins to build that infrastructure and advances the whole field.

Lorcan Dempsey

OCLC Vice President, Membership and Research, and Chief Strategist

Photo by [Robynne Hu](#) on [Unsplash](#)

Person entity sources

VIAF

Virtual International Authority File

- label
- instance of
- dates (birth and death)
- external ids



- description
- also known as

XML data view

```
<ns1:mainHeadingEl>
  <ns1:datafield dtype="MARC21" ind1="1" ind2=" " tag="100">
    <ns1:subfield code="a">Brontë, Charlotte,</ns1:subfield>
    <ns1:subfield code="d">1816-1855</ns1:subfield>
  </ns1:datafield>
  <ns1:sources>
    <ns1:s>LC</ns1:s>
    <ns1:sid>LC|n 79054114</ns1:sid>
  </ns1:sources>
  <ns1:id>LC|n 79054114</ns1:id>
  <ns1:links>
  ...
<ns1:mainHeadingEl>
  <ns1:datafield dtype="MARC21" ind1="0" ind2=" " tag="100">
    <ns1:subfield code="a">Charlotte Brontë</ns1:subfield>
  </ns1:datafield>
  <ns1:sources>
    <ns1:s>WKP</ns1:s>
    <ns1:sid>WKP|Q127332</ns1:sid>
  </ns1:sources>
  ...
<ns1:birthDate>1816-04-21</ns1:birthDate>
<ns1:deathDate>1855-03-31</ns1:deathDate>
<ns1:dateType>lived</ns1:dateType>
```



Library of Congress

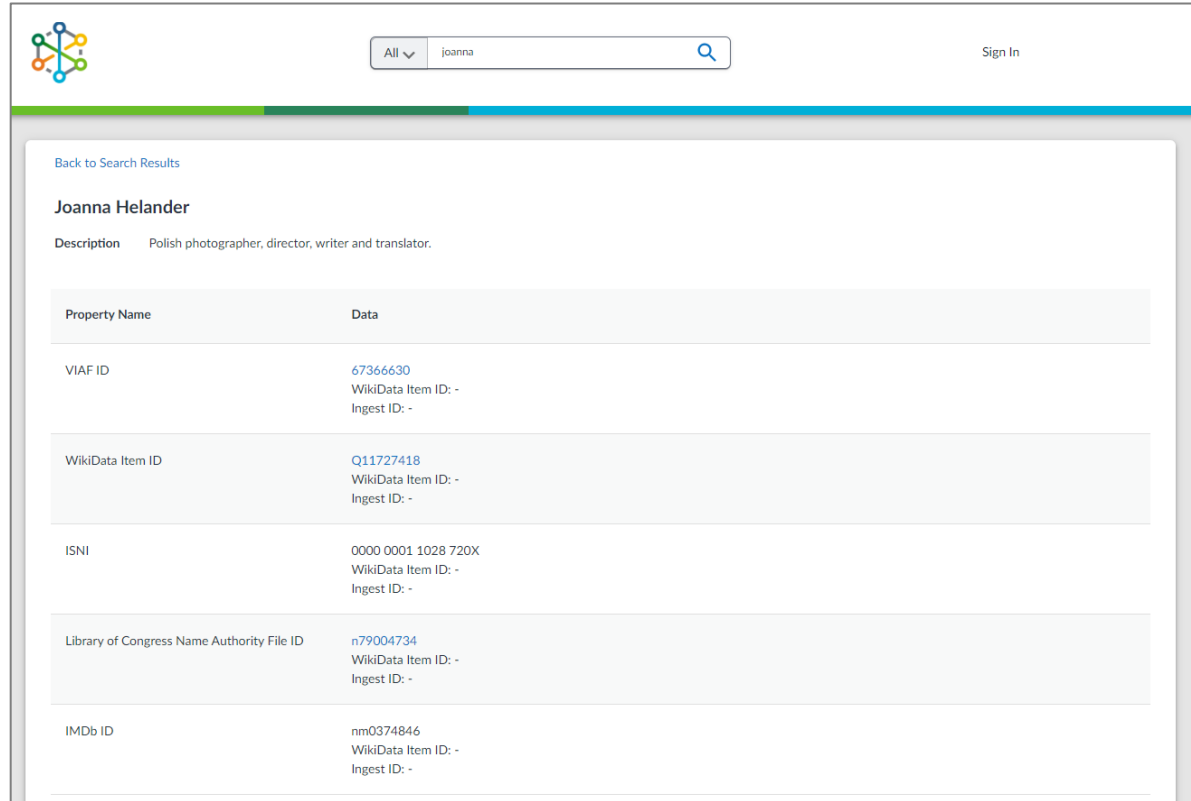


Wikidata



Library of Congress

Entity view



The screenshot shows a web interface for an entity view. At the top left is a logo with four colored nodes (green, orange, blue, yellow) connected by lines. To its right is a search bar containing the text 'joanna' and a magnifying glass icon. Further right is a 'Sign In' link. Below the search bar is a horizontal bar with a green segment on the left and a blue segment on the right. The main content area has a light gray background and contains the following elements:

- A link: [Back to Search Results](#)
- Joanna Helander**
- Description** Polish photographer, director, writer and translator.
- A table with two columns: **Property Name** and **Data**.

Property Name	Data
VIAF ID	67366630 WikiData Item ID: - Ingest ID: -
WikiData Item ID	Q11727418 WikiData Item ID: - Ingest ID: -
ISNI	0000 0001 1028 720X WikiData Item ID: - Ingest ID: -
Library of Congress Name Authority File ID	n79004734 WikiData Item ID: - Ingest ID: -
IMDb ID	nm0374846 WikiData Item ID: - Ingest ID: -



thank you