



Linked Infrastructure for
Networked Cultural Scholarship

Connecting Research to Cultural Content Online

The Linked Infrastructure for Networked Cultural Scholarship

Susan Brown

CRC in Collaborative Digital Scholarship, University of Guelph
CRKN Conference, October 2022



L'infrastructure liée pour les
données culturelles reliées

The research knowledge ecosystem



Research and the knowledge ecosystem

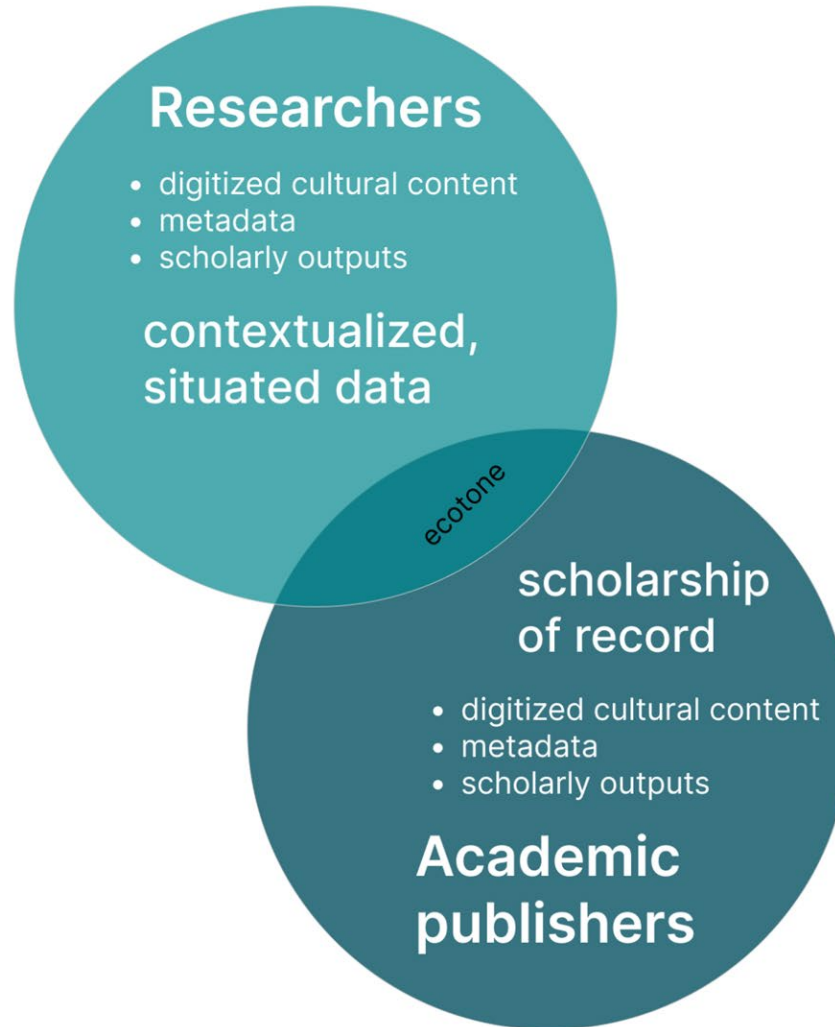
Researchers

- digitized cultural content
- metadata
- scholarly outputs

contextualized,
situated data



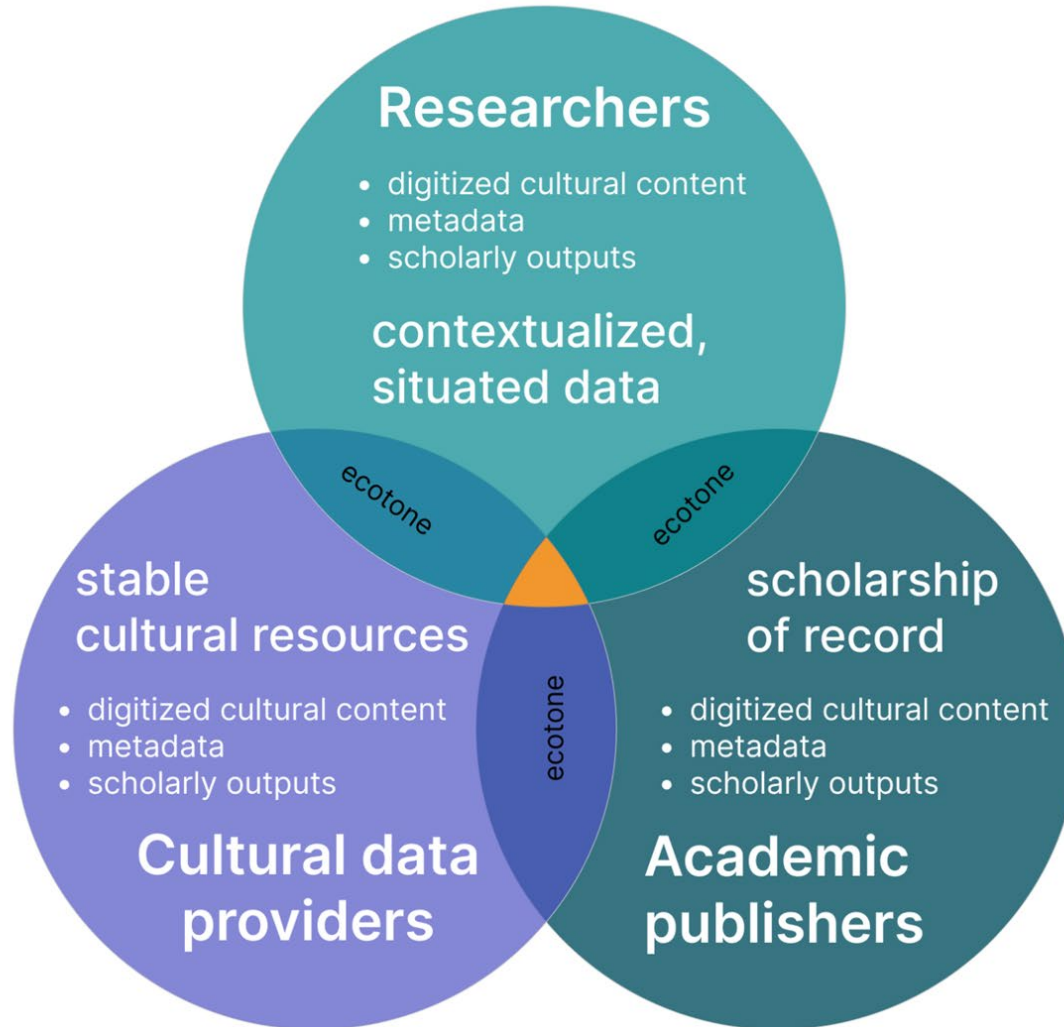
Research and the knowledge ecosystem



Derived from Susan Brown and John Simpson. "An Entity by Any Other Name: Linked Open Data as a Basis for a Decentered, Dynamic Scholarly Publishing Ecology." *Scholarly and Research Communication* 6.2 (2015).
<https://doi.org/10.22230/src.2015v6n2a212>



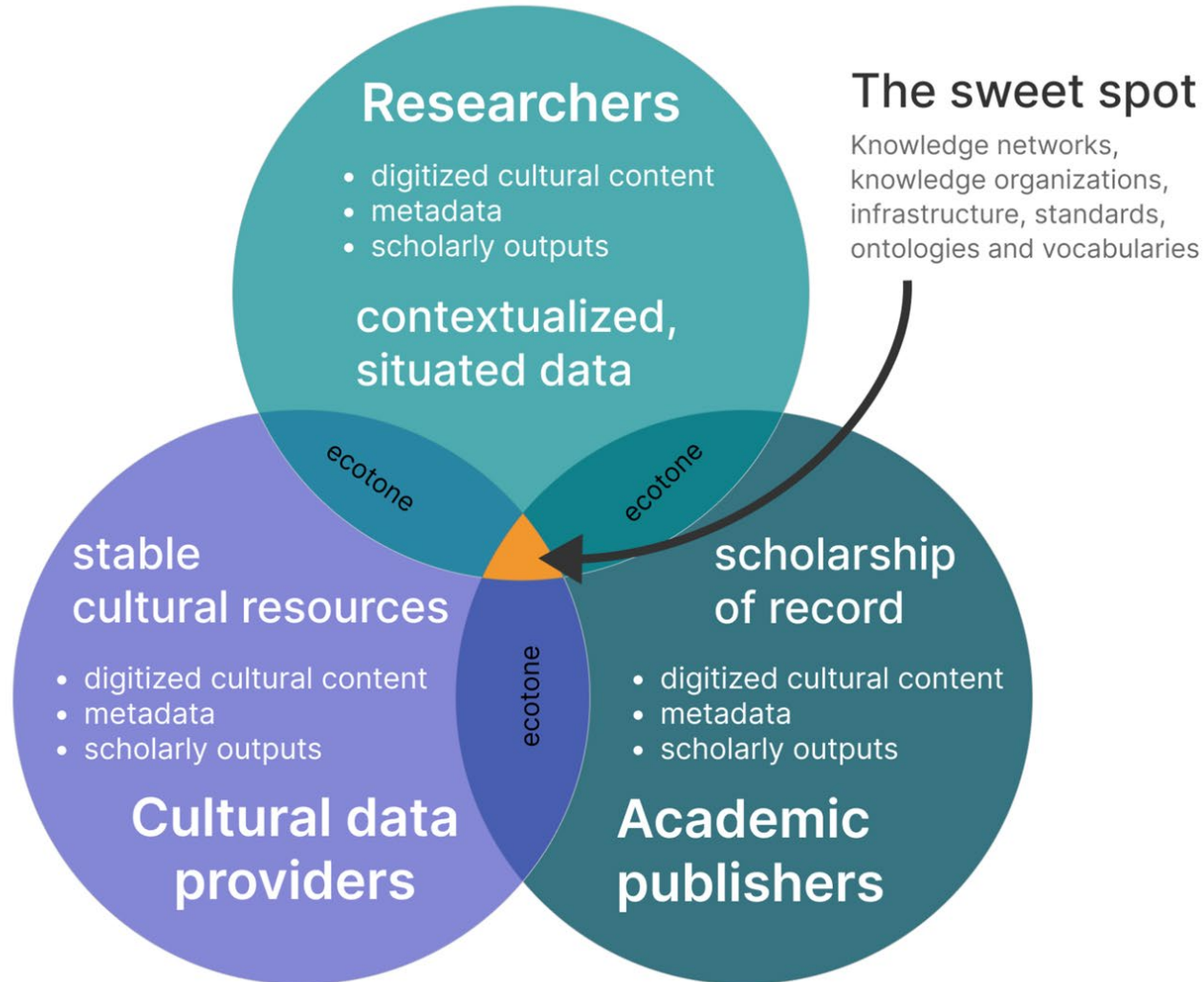
Research and the knowledge ecosystem



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Research and the knowledge ecosystem



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LINCS and linking data





Linked Infrastructure for
Networked Cultural Scholarship

CFI Cyberinfrastructure project launching spring 2023

The Linked Infrastructure for Networked Cultural Scholarship (LINCS) enables Canadian researchers to create interlinked and contextualized online data about culture to benefit scholars and the public.

What is Linked Open Data?

- A set of standards for contributing data to a **semantic web**
(aka the web of data or global knowledge graph)
- Extends WWW standards for data format and exchange

Structures data using Resource Description Framework (RDF)

Formalizes relationships using Web Ontology Language (OWL)

Standardizes by reusing ontologies and vocabularies through identifiers (URIs/PIDs)

Converts “strings” to “things”

via URIs, to make web links meaningful, i.e. semantic

Makes humans and machines partners
in making sense of data on the Web



The Flip Side



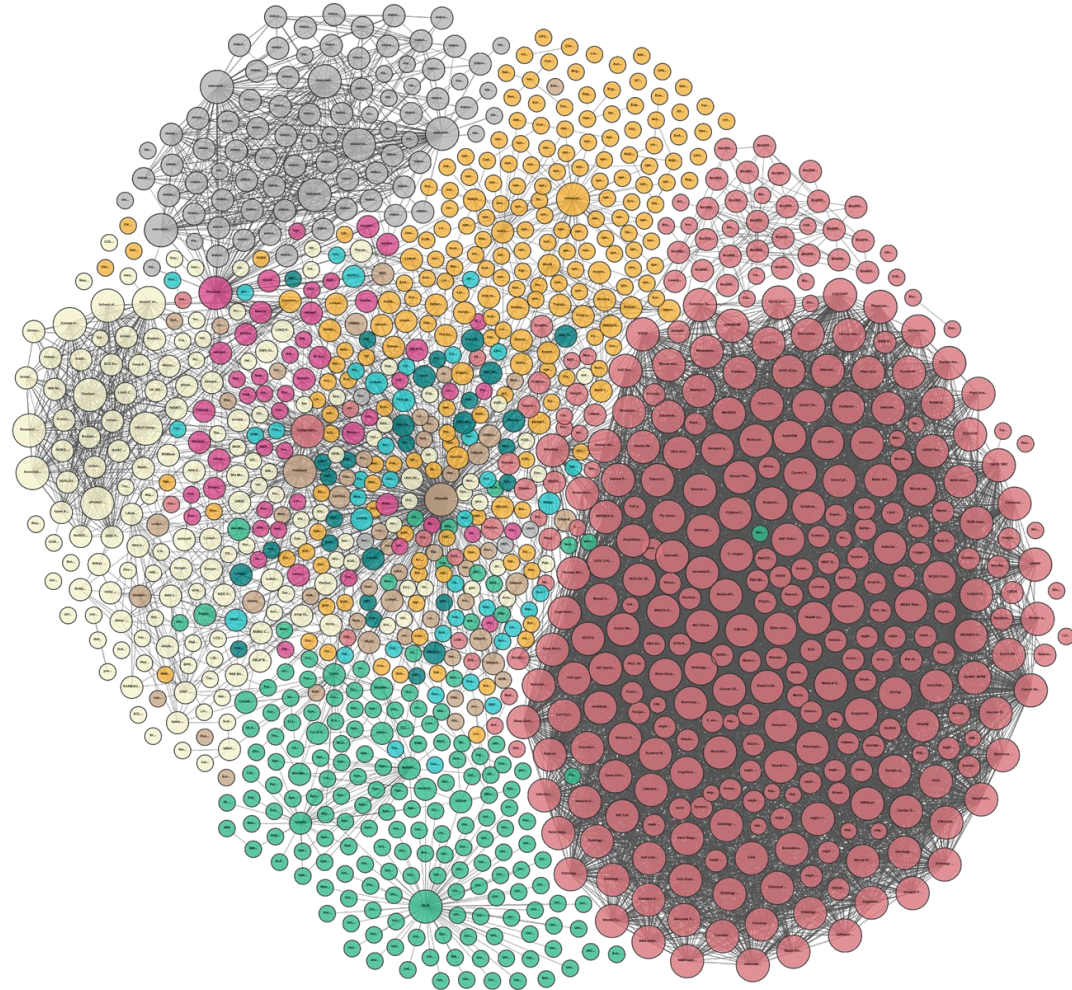
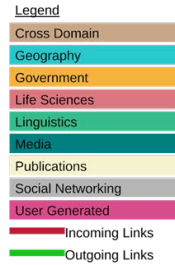
Like a credit card, linked data is both human-readable on front, and machine readable.

Metaphor credit: Gloria Gonzalez, Zapheira

Back and front card by Pham Duy Phuong Hung from the Noun Project (CC-BY)

Linked Open Data promotes

- Findability
- Accessibility
- Interoperability
- Reusability
- sharing
- Inferencing
- contextualization
- provenance
- serendipity



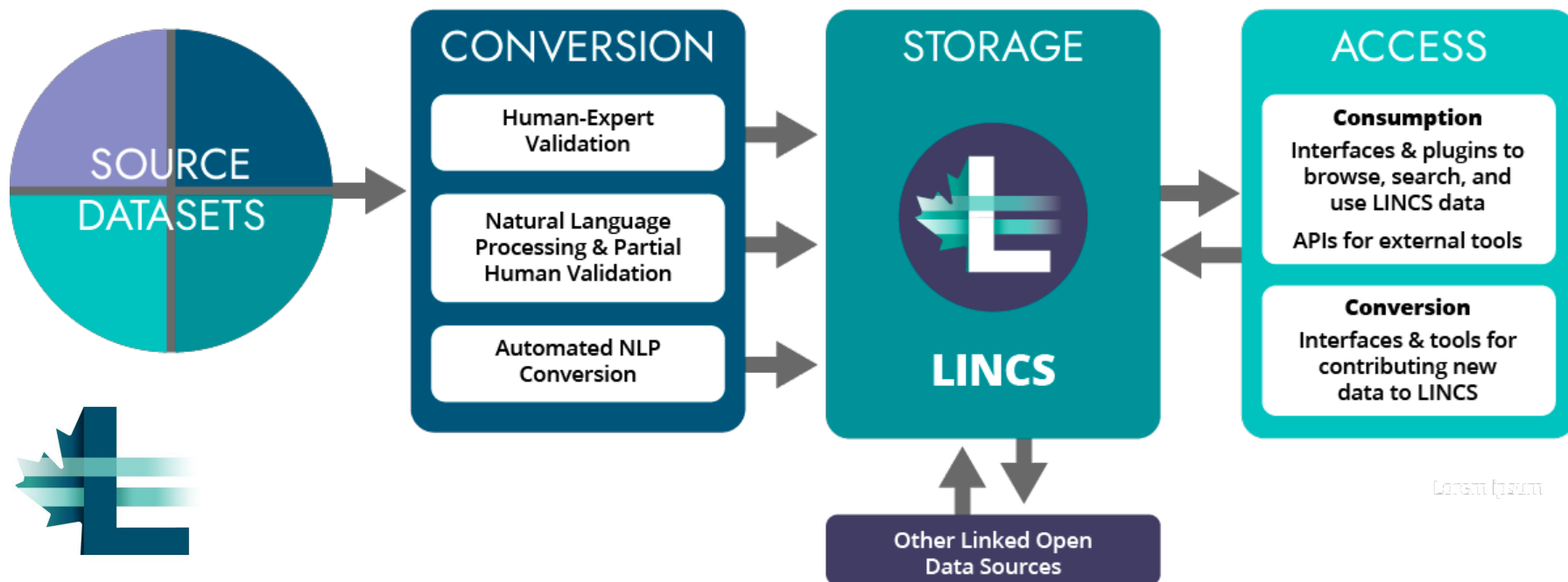
Portion of Linking Open Data cloud diagram 2017, by Andrejs Abele, John P. McCrae, Paul Buitelaar, Anja Jentzsch and Richard Cyganiak. <http://lod-cloud.net/>



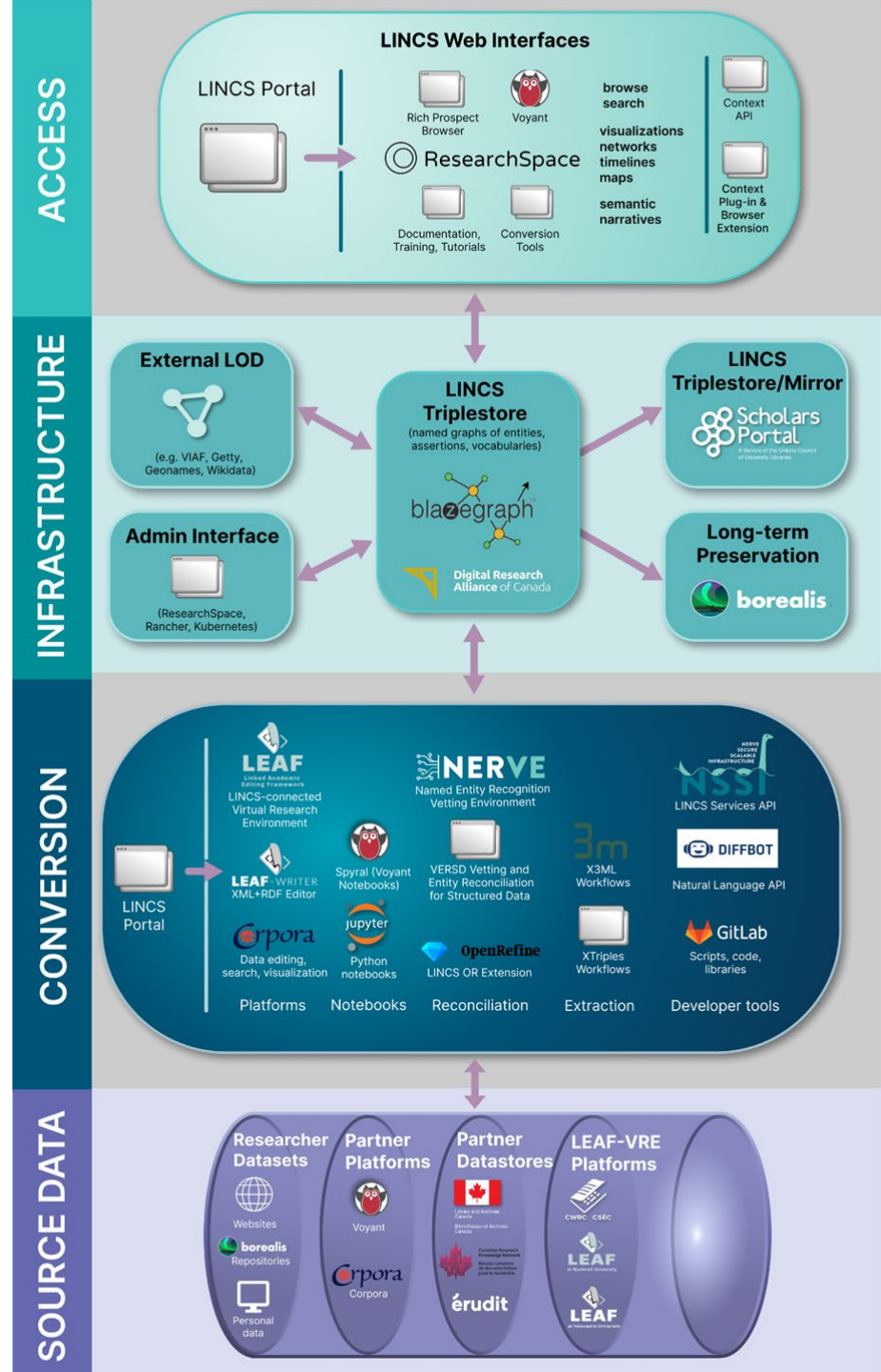
Source Datasets

Data types:

- Structured data (database, spreadsheets, metadata)
- Semi-structured data (XML documents such as Text Encoding Initiative (TEI) ones)
- Natural language

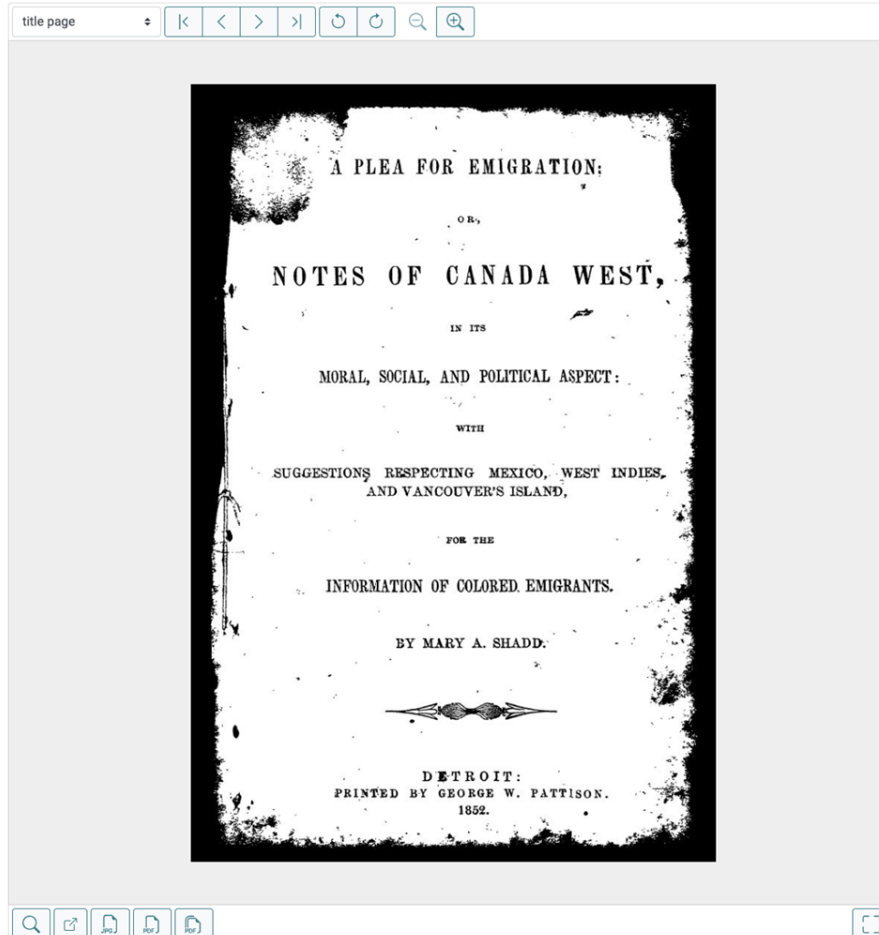


A suite of tools,
not a single
platform



The LINCS Context Plugin/Extension



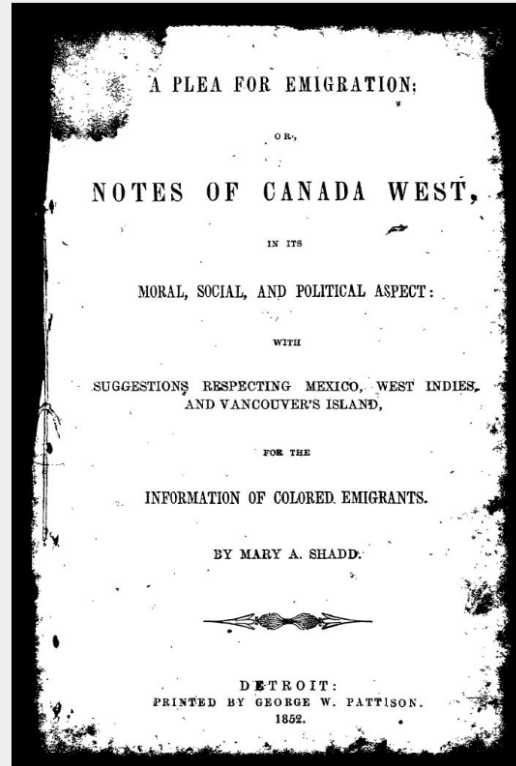


A plea for emigration, or, Notes of Canada West : in its moral, social, and political aspect; with suggestions respecting Mexico, West Indies, and Vancouver's Island, for the information of colored emigrants / by Mary A. Shadd.

[Detroit? : s.n.], 1852 (Detroit : G.W. Pattison); 46 images with full-text search [?](#)

Document Record

Creator	Shadd, Mary A., 1823-1893.
Title	Notes of Canada West. A plea for emigration, or, Notes of Canada West : in its moral, social, and political aspect; with suggestions respecting Mexico, West Indies, and Vancouver's Island, for the information of colored emigrants
Published	[Detroit? : s.n.], 1852 (Detroit : G.W. Pattison)
Identifier	47542



A plea for emigration, or, Notes of Canada West : in its moral, social, and political aspect ; with suggestions respecting Mexico, West Indies, and Vancouver's Island, for the information of colored emigrants / by Mary A. Shadd.

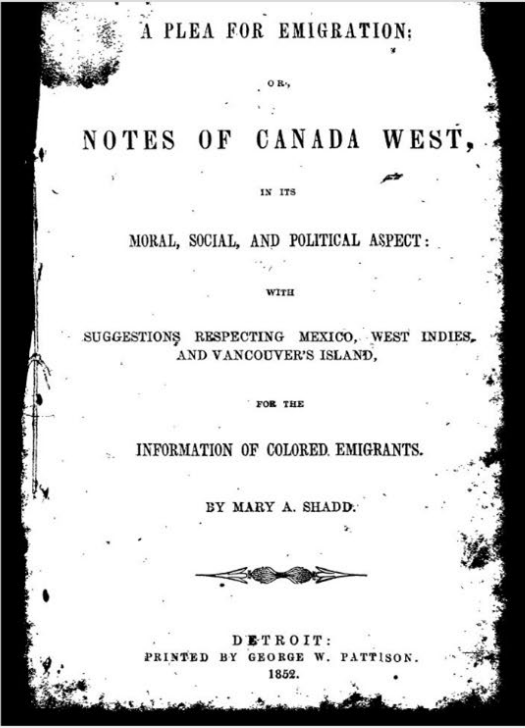
[Detroit? : s.n.], 1852 (Detroit : G.W. Pattison); 46 images with full-text search ?

Document Record

Creator Shadd, Mary A., 1823-1893.

Title Notes of Canada West

Linking data with its contexts *in situ*
Named entity recognition (with matching stage if needed)



A plea for emigration, or, Notes of Canada West : in its moral, social, and political aspect; with suggestions respecting Mexico, West Indies, and Vancouver's Island, for the information of colored emigrants / by Mary A. Shadd Cary.

[D... G.W. Pattison]; 46 images

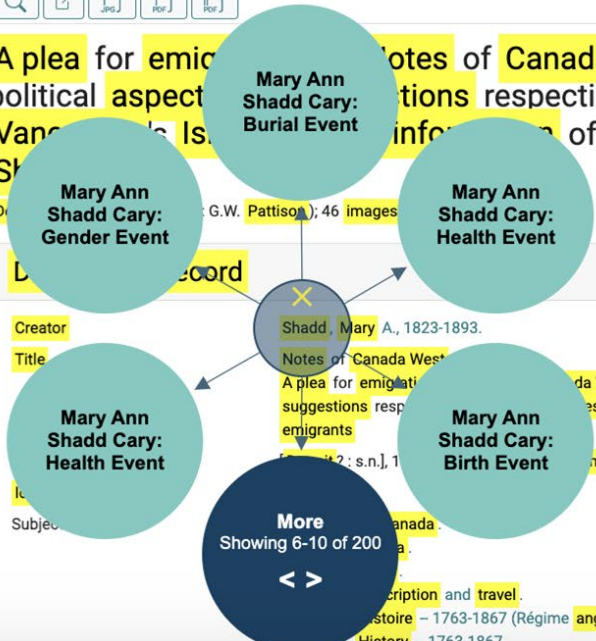
Creator: Shadd, Mary A., 1823-1893.

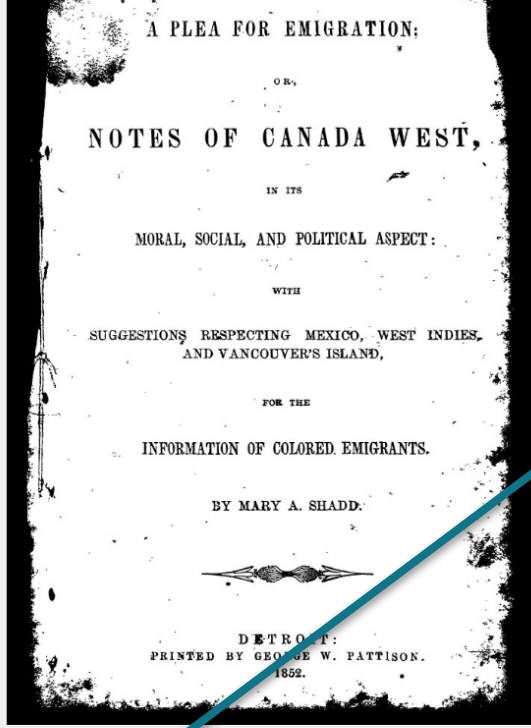
Title: Notes of Canada West : in its moral, social, and political aspect; with suggestions respecting Mexico, West Indies, and Vancouver's Island, for the information of colored emigrants.

Subject: Canada. -- Description and travel. -- Histoire -- 1763-1867 (Régime anglais) -- History -- 1763-1867.

More Showing 6-10 of 200

Initial contexts





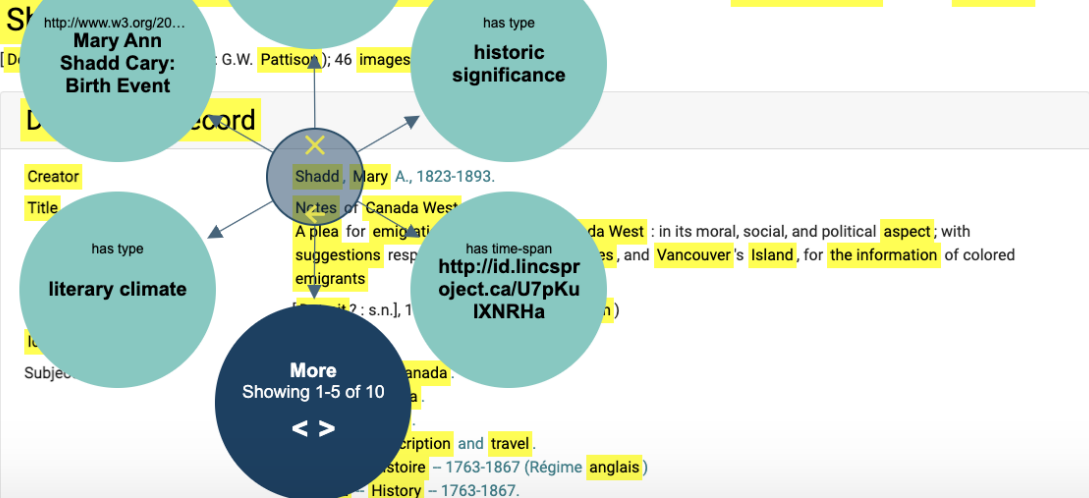
Mary Ann Shadd Cary:
has note
9 October 1823: Mary Ann Shadd (who published her later writings as Cary) was born in Wilmington, Delaware, USA, the eldest of thirteen

← ⚙️



A plea for emigration... Notes of Canada West : in its moral, social, and political aspect... Suggestions respecting Mexico, West Indies, and Vancouver's Island... information of colored emigrants / by Mary A. Shadd

Detailed contexts





Home > Author Profiles > Mary Ann Shadd Cary

Highlights

Biography

Birth and Background

- Parents
- Early Homes and Education

Teaching

Emigration to Canada

- The Provincial Freeman

Brief Marriage, Children

Later Career

- After Emancipation
- The Law
- Women's Rights

Death

Writing

- Early Political Writing
- A Plea for Emigration

Mary Ann Shadd Cary

09 October 1823 - 05 June 1893

Journalist and editor of the newspaper *The Provincial Freeman* in the northern US and Canada during the mid nineteenth century, MASC also wrote a short book advocating emigration to Canada for free blacks living in the United States and lectured on abolition, emigration, and women's suffrage.



Mary Ann Shadd Cary

Links to context, sources & provenance

Milestones

9 October 1823

Mary Ann Shadd (who published her later writings as Cary) was born in Wilmington, Delaware, USA, the

search for... This project

Advanced search

CWRC » COLLABORATORY » THE ORLANDO PROJECT » ORLANDO MIGRATION: 2020-09-02 » ORLANDO PROFILES - PUB-C



Mary Ann Shadd Cary

- View
- Share
- Manage
- Unlock
- Edit content**
- Edit Record
- Dashboard

✔ This object is locked by you, so others cannot change it. You may [remove the lock from this object](#).

Researcher-generated links through semantic tagging

<http://cwrc.ca>

CWRC-Writer

Markup Entities NERVE

- ▾ DIV1
- HEADING
- BIRTH
- ▾ DIV1
- ▾ CULTURALFORMATION
- GENDER
- ▾ DIV2
- ▾ SHORTPROSE
- ▾ P
- RACECOLOUR
- GEOGHERITAGE
- CLASS
- DENOMINATION
- ORNAME
- BIBCITS
- ▾ DENOMINATION
- ORNAME
- BIBCITS
- POLITICAL AFFIL

Cary, Mary Ann Shadd

Journalist and editor of the newspaper *The Provincial Freeman* in the northern **US** and **Canada** during the mid nineteenth century, **MASC** also wrote a short book advocating emigration to Canada for free blacks living in the United States and lectured on abolition, emigration, and women's suffrage.

Biography

Birth Name: **MaryAnnCambertonShadd**
 Married Name: **Cary**
 Indexed: **Mary Ann Shadd**

There is no consensus on whether she ought now to be known as Shadd, under which name she published her pamphlet and guide to emigration, or Cary, the last name under which she wrote.

Birth and Background

9 October 1823 **Mary Ann Shadd** (who published her later writings as Cary) was born in **Wilmington, Delaware, USA**, the eldest of thirteen children. Citations (11) Citations

It appears, however, that only five of her siblings lived to adulthood. Citations (11) Citations

Mary Ann Shadd came of mixed white and black (or, in her own word, 'colored') **American** heritage on both maternal and paternal sides. Her paternal great-grandfather came originally from Germany. The family was economically comfortable, with Cary's father deriving his income from his trade as a shoemaker. She attended a

Find an Organization



search for...

African Methodist Episcopal



CWRC



VIAF



DBPedia

African Methodist Episcopal University - *The African Methodist Episcopal University (AMEU) is a private institution of higher learning*

Wilberforce University - *with the African Methodist Episcopal Church (AMEC) college to be owned and operated*

Livingstone College - *. It is affiliated with the African Methodist Episcopal Zion Church Livingstone College*

Democratic Party (United States) - *The Democratic Party is one of the two major contemporary political parties in the United States, along with its main rival, the Republican Party. Tracing its heritage back to Thomas Jefferson and James Madison's Democratic-Republican Party, the modern-day Democratic Party was founded around 1828 by supporters of Andrew Jackson, making it the world's oldest active political party.*

Morris Brown College - *arts college in Atlanta, Georgia. It is affiliated with the African Methodist Episcopal Church*

Wikidata



African Methodist Episcopal Church - *African American Protestant denomination*

African Methodist Episcopal Zion Church - *predominantly African American religious organization*

African Methodist Episcopal University - *University in Monrovia, Liberia*

African Methodist Episcopal Church (Cumberland, Maryland) - *church in Cumberland Maryland*

African Methodist Episcopal Church in Nigeria - *American-founded church in West Africa*

Researcher-generated links through semantic tagging

<http://cwrc.ca>

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Mary Ann Shaughnessy

View Share Manage Unlock

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CWRC-Writer

Markup Entities NERVE

HEADING

BIRTH

DIV1

CULTURALFORMATION

GENDER

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nder which name she published her wrote.

Cary) was born in **Wilmington**,

ns (11) Citations

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Multi-perspectival views of entities

Mary Ann Shadd in Carole Gerson's Canada's Early Women Writers project

[Edit Record](#) [Dashboard](#)



Mary Ann Shadd (1823-1893)



This image is in the public domain.

Although she was born and died in the US, Mary Ann Shadd spent a significant portion of her life in Canada West, and was known for her pamphlets and journalism promoting racial equality.

- Non-fiction
- Periodical Contributions
- Other Publications
- Edited:
- Family and Relationships
 - Siblings
 - Marriage:
 - Children
- Religion**
- Residences
- Education
- Awards
- Employment and Volunteer Activitie...
 - Employment
- Archival Holdings
- Published Resources

Birth: 9 October 1823, Wilmington, DE

Death: 5 June 1893, Washington, DC

Name at birth:



What more is possible?

Entities embedded in natural language (not recognizable in page image)

With a "view text" option that exposed the OCR, the plugin could provide much more context

Other possibilities: leveraging existing PIDs, harvesting annotations; reconciliation in context

unnumbered

INTRODUCTORY REMARKS.

The increasing desire on the part of the colored people, to become thoroughly informed respecting the Canadas, and particularly that part of the province called Canada West—to learn of the climate, soil and productions, and of the inducements offered generally to emigrants, and to them particularly, that the passage of the odious Fugitive Slave Law has made a residence in the United States to many of them dangerous in the extreme,—this consideration, and the absence of condensed information accessible to all, is my excuse for offering this tract to the notice of the public. The people are in a strait,—on the one hand, a pro-slavery administration, with its entire uncontrollable force, is bearing upon them with fatal effect: on the other, the Colonization Society, in the garb of *Christianity and Philanthropy*, is seconding the efforts of the first named power, by bringing into the lists a vast social and immoral influence, thus making more effective the agencies employed. Information is needed of Tropical Africa, the land of promise of the colonizationists, teaching as she is with the breath of pestilence, a burning sun and fearful maladies, bids them welcome;—she feelingly invites to moral and physical death, under a voluntary escort of their most bitter enemies at home. Again, many look with dreadful forebodings to the probability of worse than inquisitorial inhumanity in the Southern States.

Search, Copy, Download (JPG, PDF, PDF)

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Linked Infrastructure for
Networked Cultural Scholarship

Merci ! Thank you !

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Visit <https://lincsproject.ca/> for more information.

(A bilingual portal to replace this site is launching in early 2023.)

To contribute to testing LINCS tools, click on [Take Part](#) and fill out the form!

Many thanks to the LINCS, CWRC/LEAF and Orlando teams
and my many collaborators



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