



Linked Data for Production

Linked data for opening up discovery avenues in library catalogs

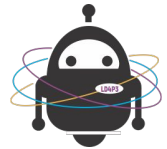
Huda Khan, Cornell University

SWIB 2020

<http://bit.ly/ld4pswib>

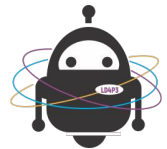
Overview

- Acknowledgments and thanks
- Background and motivation
- Research and prototyping: Lightning round!
 - User feedback and lessons learned
- Ongoing and future work
 - Moving to production
- Community engagement



Continuing LD4 Grants Evolution

- Linked Data For Pathways to Implementation (*LD4P2*)
 - “A collaborative project among four institutions (Cornell, Harvard, Stanford, and the University of Iowa) and the Program for Cooperative Cataloging (PCC)...”
- *Linked Data For Production: Closing the Loop (LD4P3)*
 - “LD4P3 aims to “close the loop” to create a working model of a complete cycle for library metadata creation, sharing, and reuse.”

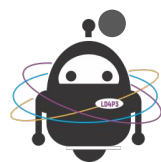


Special Thanks and References

- Linked Data For Pathways to Implementation (LD4P2) - 2018-2020
 - [LD4P2 Discovery Wiki](#)
 - *Cornell Team:* Steven Folsom, Jason Kovari, Lynette Rayle, John Skiles Skinner, Simeon Warner, Tim Worrall. DevOps: Greg Delisle, Robbie Douglas. (Special thanks to Frances Webb as consultant)
 - *Stanford Team:* Chris Beer, Tom Cramer, Michelle Futornick, Jessie Keck, Jack Reed, Hilary Thorsen, Astrid Usong, Camille Villa, Jennifer Vine
 - *U of Iowa:* Dave Eichmann

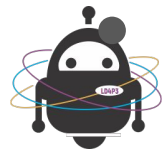
[Linked Data For Production: Closing the Loop.](#)

[2020-2022 \(LD4P3\)](#)



Special Thanks

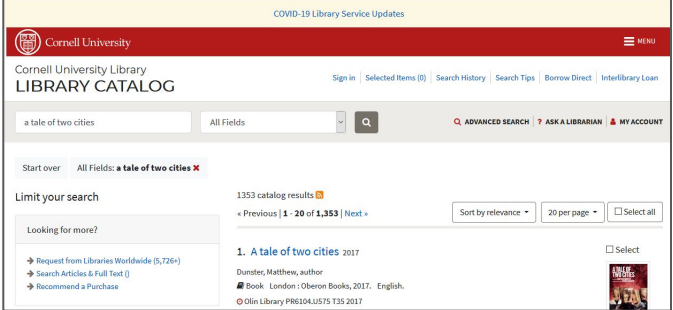
- Greg Delisle (*Cornell*)
- Steven Folsom (*Cornell*)
- Michelle Futornick (*Stanford*)
- Jessie Keck (*Stanford*)
- Jason Kovari (*Cornell*)
- John Skiles Skinner (*during LD4P2*)
- Astrid Usong (*Stanford*)
- Tim Worrall (*Cornell*)



Background and Context

Discovery of library resources

- “Known item” search → open-ended discovery
- Provide context around entities
- Include relevant relationships
- Link external data back to the catalog

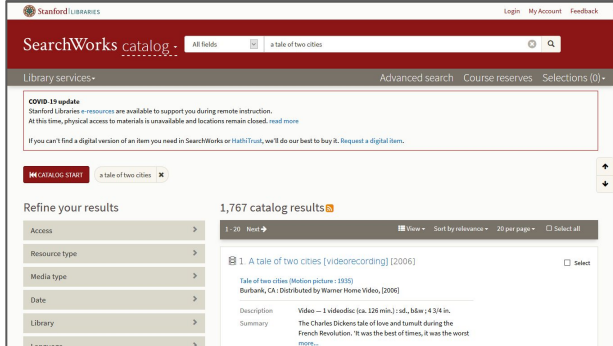


Cornell University LIBRARY CATALOG

Search: a tale of two cities

1353 catalog results

1. **A tale of two cities** 2017
Dunster, Matthew, author
Book London : Oberon Books, 2017. English.
Olin Library P86J04.LU575 T35 2017



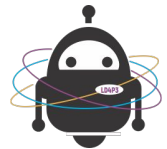
Stanford Libraries SearchWorks catalog

Search: a tale of two cities

1,767 catalog results

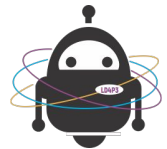
1. **A tale of two cities [videorecording]** [2006]
Tale of two cities (Motion picture : 1935)
Burbank, CA : Distributed by Warner Home Video, [2006]

Description: Video -- 1 videorec (ca. 126 mins.) : col., b&w ; 4 3/4 in.
Summary: The Charles Dickens tale of love and turmoil during the French Revolution. "It was the best of times, it was the worst of times."



Motivating Questions

- Which data connections provide linkages or context?
- Which discovery tasks can we support using linked data?
- How can we support discovery of catalog resources through search engines?



Wherefore Art Thou, Entities?

Lincoln in the bardo

a novel

George Saunders.

Author, etc.: Saunders, George, 1958- author [Info](#)

Format:  Book

Language: English.

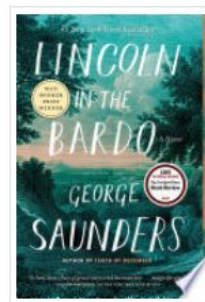
Edition: First edition.

Published: New York : Random House, [2017]

Subject: Lincoln, Abraham, 1809-1865 > Fiction.
Lincoln, William Wallace, 1850-1862 > Fiction.
Purgatory > Fiction.
Presidents > United States > Fiction.
Parental grief > Fiction.
FICTION / Ghost.
FICTION / Historical.
FICTION / Literary.


Name Authority

100 1 #a Saunders, George, #d 1958- #e author.



Availability

Olin Library [Hours/Map](#)

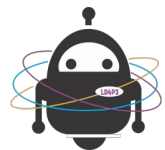
PS3569.A7897 L56 2017  Text

 Available

[Request scan of article/chapter](#)

Authorized Subject Heading

600 1 0 #a Lincoln, Abraham, #d 1809-1865 #v Fiction.



External Data Sources

Lincoln at the Bardo



Work



Authority URI for author

<http://id.loc.gov/authorities/names/n95046060>



LCNAF Linked Data
~ 738 Million Triples



Authority URI for subject

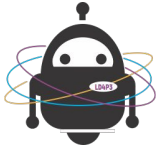
<http://id.worldcat.org/fast/30184>



LCSH / FAST
Linked Data
LCSH: ~24.5 million
triples

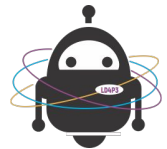


Wikidata is highlighted but other data sources also included.



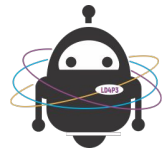
Questions for You

- Additional linked data sources?
- Interactions and tasks to support?
- Production challenges and opportunities?
- Design ideas?
- User stories and scenarios?
 - E.g. BIBFRAME entities for discovery



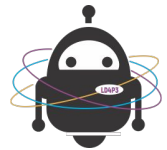
Lightning Round!

- LD4P2 focus: *Design, develop, evaluate prototypes*
 - Knowledge panels
 - Browsing
 - Semantic search/search suggestions
 - Schema.org output



Knowledge Panels and Context

- *Context around entities/related entities*



a novel

George Saunders.

Author, etc.: [Saunders, George, 1958- author](#)
 Format: Book
 Language: English.
 Edition: First edition.
 Published: New York : Random House, [2017]
 Subject: [Lincoln, Abraham, 1809-1865](#)

- [Fiction.](#)
- [Lincoln, William Wallace, 1850-1862](#)
- [Fiction.](#)
- [Purgatory](#)
- [Fiction.](#)
- [Presidents](#)
- [United States](#)
- [Fiction.](#)
- [Parental grief](#)
- [Fiction.](#)
- [FICTION / Ghost.](#)
- [FICTION / Historical.](#)
- [FICTION / Literary.](#)
- [Biographical fiction.](#)
- [Historical fiction.](#)
- [Paranormal fiction.](#)

Summary: February 1862. The Civil War is less than a year old, and the nation has begun to realize it is in for a long, hard fight. In a beloved eleven-year-old son, Willie, Lincoln, despite predictions of a recovery, will find that the boy, he was too good for this earth," says a newspaper. Newspapers report that a grief-stricken Lincoln has had his son's body. From that seed of historical fiction that breaks free of its historical frame, George Saunders's "Lincoln" finds himself in a strange, new world and enact bizarre acts of penance. Will Lincoln find a way to be a bard -- a monumental struggle erupts.



Image: Wikidata

Saunders, George, 1958-
 Works by: [17 Title\(s\)](#)
 Works about: [1 Title\(s\)](#)

Field:

Occupation:

Children's author
 Author

Group/Organization:

Syracuse University

Wikidata Info

Was influence for

- [Elliott, Will](#)
- [Russell, Karen](#)
- [Snyder, Scott](#)

Was influenced by

- [Updike, John](#)

- Digital Collections Results
- [Holland receives the Charles Evans Hughes Awards for "...](#)
 - [Brihadisvara Temple,Brihannayaki Amman Temple](#)
 - [Brihadisvara Temple,Subrahmanya Temple](#)
 - [Brihadisvara Temple,Subrahmanya Temple](#)
 - [Brihadisvara Temple,Subrahmanya Temple](#)
 - [Brihadisvara Temple,Subrahmanya Temple](#)

Availability

Olin Library [Hours/Map](#)
 PS3569 .A7897 L56 2017

Checked out, due 10/25/19

[Request item](#)

All fields

books & media



Library services

Advanced search Course reserves Selections (0)

CATALOG START

Author > Beethoven, Ludwig van, 1770-1827



Refine your results

Access



Resource type



Media type



Date



Library



Language



Author



Beethoven, Ludwig van, 1770-1827



9,528

Mozart, Wolfgang Amadeus, 1756-1791

1,144

9,528 catalog results

1 - 20 Next

View

Sort by relevance

20 per page

Select all

Ludwig van Beethoven [1770 - 1827]

Description

German classical and romantic composer

notable work

Für Elise

[more...](#)

occupation

composer

Sources: [Wikidata](#)

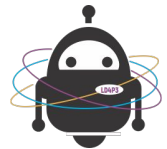
Improve this knowledge panel by contributing to its open data source.

1 The 61 keys era (2008)

Select

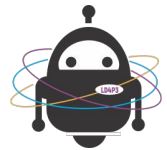
Knowledge Panels and Context

- *Context around entities/related entities*
- User feedback: “*The Bomb Dot Com*”. Streamline information. Review properties used.
- Implementation: Client-side requests
- Data sources: Wikidata, Who’s on First, LCNAF, LCSH, Discogs, digital collections



Browsing

- *Navigating categories and relationships* while linking back to search



Limit your search

Access

At the Library	5,982,292
Online	2,200,304

Format

Book	7,044,037
Journal/Periodical	404,420
Microform	355,385
Musical Recording	235,901
Thesis	203,442
Video	106,232
Musical Score	103,059
Map	65,092
Manuscript/Archive	17,429
Non-musical Recording	10,386
more »	

Language

Library Location

Welcome to the Cornell University Library Catalog.

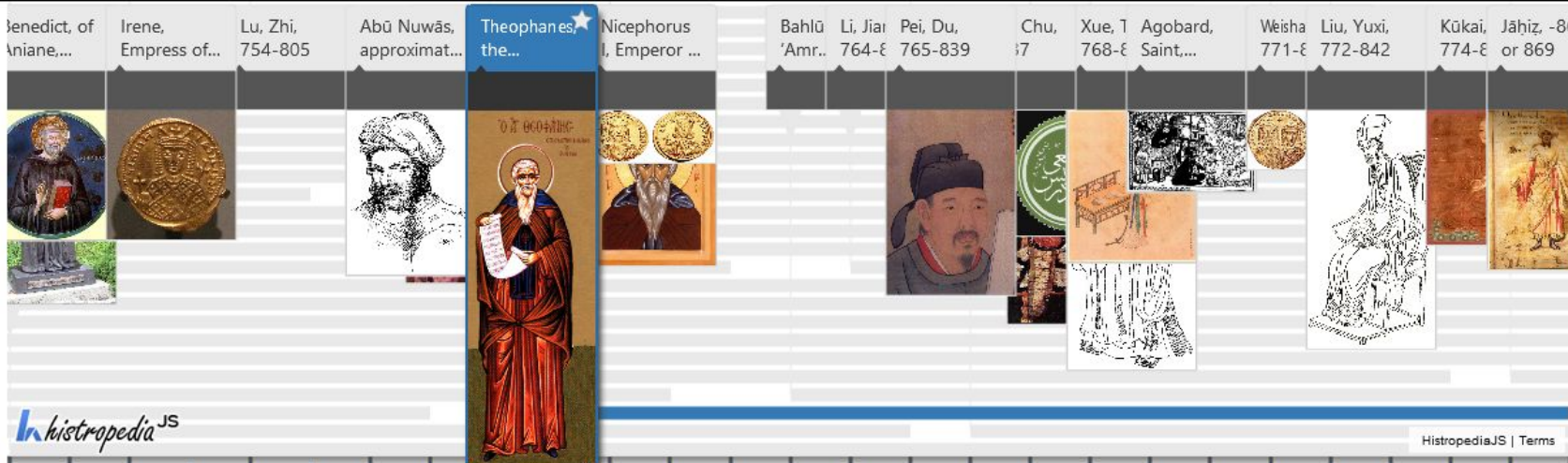
- For help in searching the Catalog, try our [Search Tips](#).
- For additional assistance, please [Ask a Librarian](#).
- Or [send us comments or suggestions](#) that may help us improve the Catalog.

To search beyond Cornell holdings, follow the “Libraries Worldwide” link on the Catalog search results page, or use [WorldCat](#).

 Browse Subjects Browse Author Timeline Browse by Region Browse by Course Subject

OTHER RESOURCES

[Articles & Full Text](#) | [Databases](#) | [E-journal Titles](#) | [Digital Collections](#)



Theophanes, the Confessor, -approximately 818

Birth (Wikidata): 758

Death (LOC): 818

Byzantine historian and saint

Occupation: writer ,historian

Search Results: 1 - 6 of 6

1. [The chronicle of Theophanes : an English translation of anni mundi 6095-6305 \(A.D. 602-813\)](#) 1982

Chronographia. English

Theophanes, the Confessor, -approximately 818.

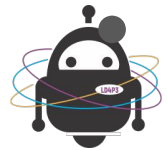
Book Philadelphia : University of Pennsylvania Press, 1982. English.

Olin Library D17.T39 C5 1982

2. [Chronographia, a chronicle of eighth century Byzantium](#) 1982

Browsing

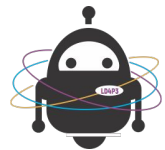
- *Navigating categories and relationships* while linking back to search
- User feedback: positive reactions for subject and timeline among novice users. Subject Matter Experts found less valuable.
- Implementation: Client-side and indices combining data sources



Data sources: LCSH, LCNAF, Wikidata, LCCN, Open Syllabus API

Suggestions: Related Search Results

- Provide entity and search suggestions



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All Fields



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Start over

All Fields: **charles dickens** ✕

Limit your search

Related subject searches

English literature

Close: [Order of the Fancy \(Group of writers\)](#), [Nonsense Club \(Group of writers\)](#), [Inklings \(Group of writers\)](#)

Broader: [British literature](#)

Dickens, Charles, 1812-1870

English fiction

Manners and customs

English literature

Literature

Related people and organization searches

Dickens, Charles, 1812-1870



English writer and social critic

Dickens, Charles, 1812-1870

Dickens, Charles

ebrary, Inc.

Browne, Hablot Knight, 1815-1882

Naxos Digital Services US

2282 catalog results

« Previous | 1 - 20 of 2,282 | Next »

Sort by relevance ▾

20 per page ▾

Select all

1. Charles Dickens c2011

Select

Book Pasadena, Calif. : Salem Press, c2011. English.

Online

2. Charles Dickens c2007

Select

Hawes, Donald.

Book London ; New York : Continuum, c2007. English.

Online



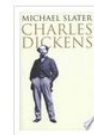
3. Charles Dickens 2009

Select

Slater, Michael.

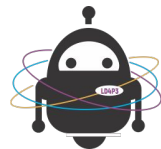
Book New Haven : Yale University Press, 2009. English.

Olin Library PR4581 .S6155 2009



4. Charles Dickens c2009

Select



charles dickens

All Fields



Search Term: Charles Dickens

Related subject searches

Novelists, English > 19th century > Biography

LCSH

Source: annif

Novelists, English

Authors and publishers > Great Britain > History > 19th century

Novelists, English > 19th century > Biography

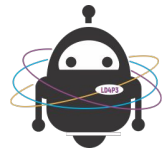
England > Drama

English drama > 19th century

Mini knowledge panel for entity

Entity suggestions:

- ***Annif Rest API***
 - Training set: 194,555 entries matching full titles from the catalog with LCSH URI
 - User query -> LCSH suggestion



charles dickens

All Fields



Search Term: Charles Dickens

Related subject searches

English literature

Close: Order of the Fancy (Group of writers), Nonsense Club (Group of writers), Inklings (Group of writers)

Broader: British literature

Dickens, Charles, 1812-1870

English fiction

Manners and customs

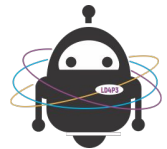
English literature

Literature

Mini knowledge panel for entity

Entity suggestions:

- ***Facet strings for search results***
 - ***FAST*** for subjects
 - ***LCNAF*** for agents



charles dickens

All Fields



Search Term: Charles Dickens

Related people and organization searches

Dickens, Catherine, 1815-1879

Contemporaries include:

[Chitty, Tompson, 1816?-1863](#)

Source: lcnaf

[Dickens, Charles, 1837-1896](#)

[Dickens, Doles, 1916-1972](#)

[Lewis, Charles D. \(Charles Dickens\), 1875-](#)

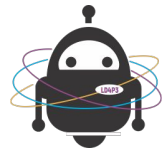
[Dickens, Gerald, Sir, 1879-1962](#)

[Dickens, Catherine, 1815-1879](#)

Mini knowledge panel for entity

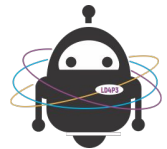
Entity suggestions:

- ***Keyword search to Questioning Authority over LOC sources***



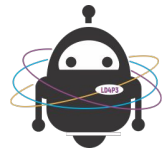
Suggestions: Related Search Results

- Provide entity and search suggestions
- User feedback: Makes catalog “stickier”. Clarify how entities are related. Streamline.
- Implementation: Client-side requests and index for contemporary authors
- Data sources: Wikidata, LCSH, LCNAF, FAST, catalog metadata, Annif suggestions



Suggestions: Autosuggest

- Typeahead suggestions for persons, locations, subjects, and genres based on user query



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Authors

Twain, Mark, 1835-1910. American author and humorist (598)

see also: Clemens, Samuel Langhorne, 1835-1910 (12)

Twain, David, 1929- (1)

Locations

Missouri > Mark Twain National Forest (27)

Illinois > Mark Twain National Wildlife Refuge (3)

Missouri > Mark Twain Lake (2)

Subjects

Twain, Mark, 1835-1910 (598)

Adventures of Huckleberry Finn (Twain, Mark) (65)

Adventures of Tom Sawyer (Twain, Mark) (9)

Musical Recording 243,080

Thesis 205,003

Video 106,611

Musical Score 103,292

Map 66,458

Manuscript/Archive 17,662


Non-musical Recording 10,410

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 [Browse Author Timeline](#)
 [Browse by Region](#)
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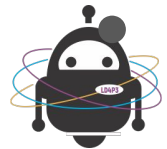
To search beyond Cornell holdings, follow the “Libraries Worldwide” link on the Catalog search results page, or use [WorldCat](#).

 [Browse Subjects](#)
 [Browse Author Timeline](#)
 [Browse by Region](#)
 [Browse by Course Subject](#)

Suggestions: Autosuggest

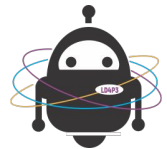
- Typeahead suggestions for persons, locations, subjects, and genres based on user query
- User feedback: Favorable and easy to understand. Clarification around shared pseudonyms. Misspelling support.
- Implementation: Client-side and index combining data sources

Data sources: catalog, LCNAF, FAST, Wikidata



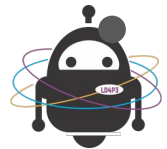
UI Lessons

- ***Focused on non-specialists*** (undergrads/beginning researchers) to help widest range possible
- Subject matter experts had specialized workflows
 - They did not require as much assistance in viewing relationships between entities
- ***Interdisciplinary research means you may still be a novice*** in an area you need to research (See [study on work discovery workflows](#))



Challenges and Opportunities

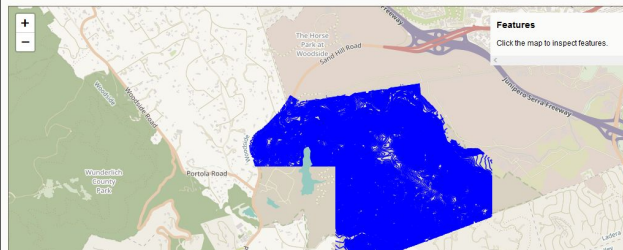
- Data: Consistency? Completeness? Ethical concerns?
 - UI and system-level handling?
 - Client-side or index?
 - Performance, aggregation, search across combined data
 - How to handle updates?
 - Additional work on accessibility
- URIs in the catalog data would be a plus!



2-Foot Contours, Jasper Ridge Biological Preserve, 2001

Type of resource: Cartographic
Software, multimedia
Imprint: Woodside, CA, Jasper Ridge Biological Preserve (Agency), 2017
Language: English
Digital origin: born digital
Extent: 17.16
Form: Shapefile
Format: Shapefile; LineString
Map data: Scale not given. : Custom projection (W 122°14'57"—W 122°12'14"/N 37°24'52"—N 37°23'25")
Scale not given. : EPSG:4326 W 122°14'57"—W 122°12'15"/N 37°24'51"—N 37°23'26"

Digital content



```
<script type="application/ld+json">
  {"@context":"http://schema.org","@type":"Dataset","citation":"Jasper Ridge Biological
2001. Jasper Ridge Biological Preserve. Available at: http://purl.stanford.edu/kk365yh0186
/kk365yh0186"],"license":"","name":["2-Foot Contours, Jasper Ridge Biological Preserve, 2
the Jasper Ridge Biological Preserve (JRBP) at 2 foot intervals. This layer is part of a
Biological Preserve.,"This dataset is intended for researchers, students, and policy mak
applications such as viewing, querying, and map output production, or to provide a basema
data.],"sameAs":"https://searchworks.stanford.edu/view/kk365yh0186","keywords":["Contour
Biological Preserve (Calif.)","2001"],"includedInDataCatalog":{"@type":"DataCatalog","nar
[{"@type":"DataDownload","encodingFormat":"application/zip","contentUrl":"https://stacks
//searchworks.stanford.edu/view/kk365yh0186"}
</script>

</div>
</div>
```

"@context":["http://schema.org"](http://schema.org),

"@type":"Dataset",

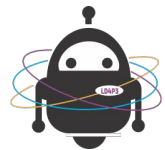
"identifier":[["https://purl.stanford.edu/kk365yh0186"](https://purl.stanford.edu/kk365yh0186)],

"description":[**"This dataset is intended for researchers..."**],

"distribution":[

{"@type":**"DataDownload"**, **"encodingFormat":****"application/zip"** }

],...



Google

jasper contour

1 dataset found

2-Foot Contours, Jasper Ridge Biological Preserve, 2001
searchworks.stanford.edu

zip

Updated Nov 30, 2017

Explore at searchworks.stanford.edu

zip

Dataset updated Nov 30, 2017

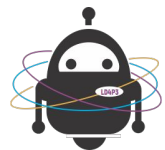
Description

This dataset is intended for researchers, students, and policy makers for reference and mapping purposes, and may be used for basic applications such as viewing, querying, and map output production, or to provide a basemap to support graphical overlays and analysis with other spatial data.

Not seeing a result you expected? [Learn](#) how you can add new datasets to our index.

Search for keywords results in SearchWorks dataset being discovered.

Description and type of file appear match what is included in Schema.org information.



• Cornell

- Overall draft plan for discovery work
- Cornell code on GitHub
- KPAOW! (Knowledge Panels Area Of Work)
 - Knowledge panels or KPAOW
 - Motivating search examples
 - Mockups for evaluation - thank you @Astrid Usong !!
 - KPAOW Mockup Usability Results . A big thank you to Evelyn Hudson, Library Research Assistant
 - KPAOW Demo (With Discovery Theatre Intro + Closing)
 - Version Without Theatre

• Lessons learned

• BAM! (Browsing Assorted Materials)

- Mockup evaluations (@Astrid Usong , @Huda Khan and Filip)
- BAM! Demo
- Lessons Learned

• SMASH! (Semantic Maneuvering Across Subject Headings)

- Usability Results
- Lessons Learned
- Annif Use and Explanation
- SMASH! demo

• WHAM! (Why Having AutoSuggest Matters)

- Organizing document with links to meetings and documentation
- Indexing Process Documentation Google slides and PDF
- Motivating Use Cases
- Script documentation
- Usability Results
- Lessons Learned
- Packaging as Blacklight gem
- WHAM! demo
- A note on Discogs work

- We examined whether it made sense to move the AJAX calls in the JavaScript into a controller. After doing some initial work on this, there would be both performance and UX improvements. So if we do anything with Discogs going forward, we should complete this update to the code.

• Cornell Focus Group meeting

- Google drive with notes
- Report outs and notes

• Stanford

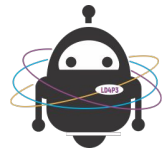
- SearchWorks LD (Stanford) Guerilla testing and results (@Astrid Usong)
- SearchWorks LD code (thanks @Jessie Keck for links below)
- SearchWorks LD prototype
- SearchWorks LD Work Cycle demo

- LD4P2 Phases of Work
 - Lessons Learned
- Usability Results
- Links to Code
- Links to Demos



Current Efforts: LD4P3

- Research and Design
 - New features or extensions of LD4P2 implementation
- Integrate with Production
 - Ideas from LD4P2 as well as LD4P3



Current Efforts: Research and Design Strand

Research user needs and tasks

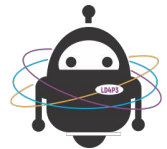
Identify data sources (library/external)

Identify connections with library metadata

Generate design

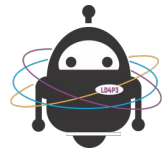
Develop prototype

Evaluate prototype

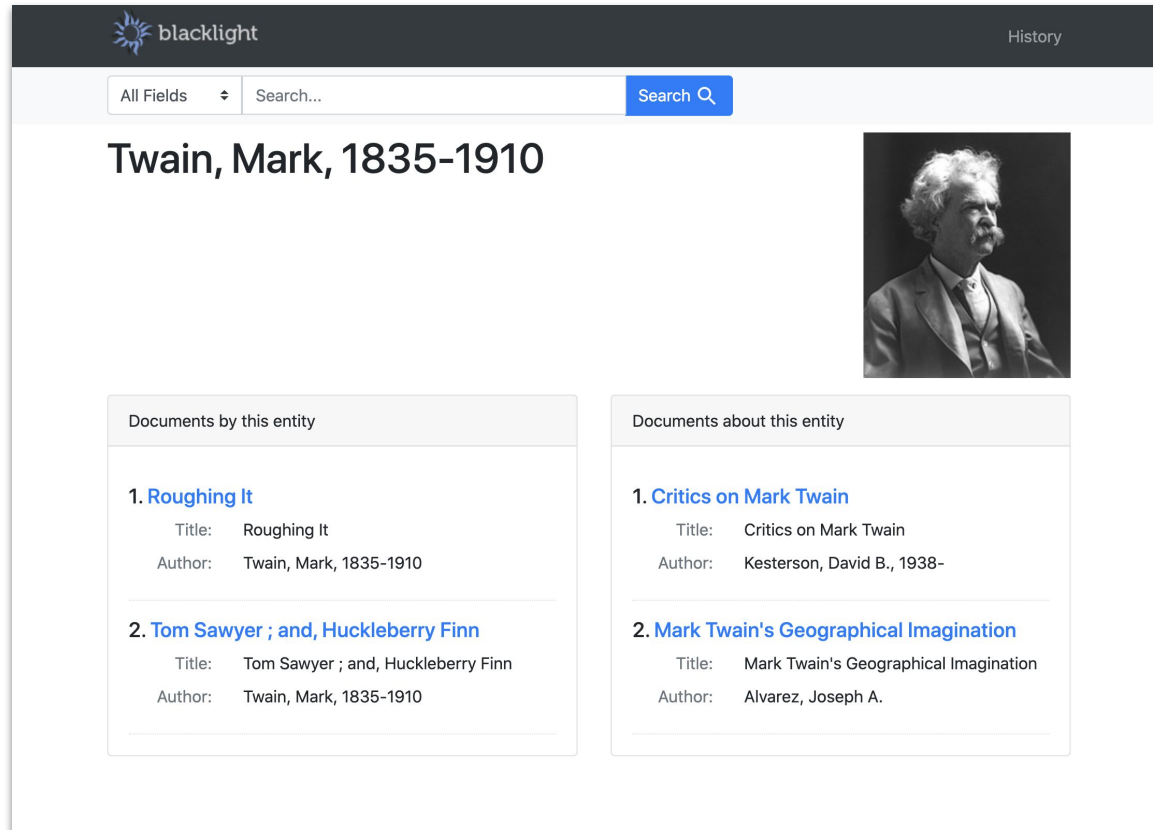


Current Efforts: LD4P3

- DASH!: Displaying Authorities Seamlessly Here!
 - Entity-specific dashboard
 - Cross-data source view of an entity within library catalog
 - E.g. Subject page
 - Broader/Narrower
 - PeriodO temporal and geographic information



URI Based Entity Pages

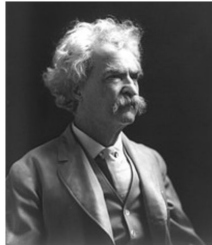


The screenshot shows a Blacklight search interface. At the top left is the Blacklight logo, and at the top right is a 'History' link. Below the header is a search bar with a dropdown menu set to 'All Fields', a search input field containing 'Search...', and a blue 'Search' button with a magnifying glass icon. The main content area features the title 'Twain, Mark, 1835-1910' in a large, bold font. To the right of the title is a black and white portrait of Mark Twain. Below the title and portrait are two columns of document results. The left column is titled 'Documents by this entity' and contains two entries: '1. [Roughing It](#)' with title 'Roughing It' and author 'Twain, Mark, 1835-1910', and '2. [Tom Sawyer ; and, Huckleberry Finn](#)' with title 'Tom Sawyer ; and, Huckleberry Finn' and author 'Twain, Mark, 1835-1910'. The right column is titled 'Documents about this entity' and contains two entries: '1. [Critics on Mark Twain](#)' with title 'Critics on Mark Twain' and author 'Kesterson, David B., 1938-', and '2. [Mark Twain's Geographical Imagination](#)' with title 'Mark Twain's Geographical Imagination' and author 'Alvarez, Joseph A.'.

blacklight History

All Fields Search... Search

Twain, Mark, 1835-1910

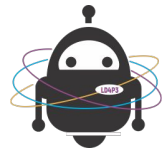


Documents by this entity

- [Roughing It](#)
Title: Roughing It
Author: Twain, Mark, 1835-1910
- [Tom Sawyer ; and, Huckleberry Finn](#)
Title: Tom Sawyer ; and, Huckleberry Finn
Author: Twain, Mark, 1835-1910

Documents about this entity

- [Critics on Mark Twain](#)
Title: Critics on Mark Twain
Author: Kesterson, David B., 1938-
- [Mark Twain's Geographical Imagination](#)
Title: Mark Twain's Geographical Imagination
Author: Alvarez, Joseph A.



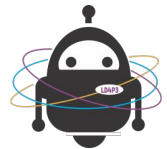
Current Efforts: Integrate Into Production

Define data and architectural dependencies

Discuss and evaluate with production stakeholders

Refine and "robustify" as needed

Coordinate with production development and
deployment teams



High priestess of soul

Format:  Musical Recording

Published: Philips [196-?]

Publisher number: PHS 600-219

Subject: [Popular music > United States.](#)

Description: 1 disc. 33 1/3 rpm. microgroove. stereo. 12 in.

Contributors: [Simone, Nina, 1933-2003, performer](#)

Other contributors: Jack McMahon: Edited By [Tape Editor].
Del Shields: Liner Notes.
Hal Mooney: Producer, Arranged By.

Table of contents:

- Don't You Pay Them No Mind
- I'm Gonna Leave You
- Brown Eyed Handsome Man
- Keeper Of The Flame
- The Gal From Joe's
- Take Me To The Water
- I'm Going Back Home
- I Hold No Grudge
- Come Ye
- He Ain't Comin' Home No More
- Work Song
- I Love My Baby

Notes: Popular songs, sung by Nina Simone.
Program notes by Del Shields on slipcase.



Availability

Music Library A/V (Non-Circulating) [Hours/Map](#)

Rec 1630.18 S59 H6 [Text](#)

✓ Available On-site use

[Request item](#)

[Request scan of article/chapter](#)

Other forms of this work

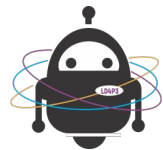
[High priestess of soul](#)

 Musical Recording [English](#) [Online](#)

[See all forms of this work](#)

Some information for this item comes from the [Discogs database](#) [↗](#).

[Remove the Discogs highlighting.](#)



Linked Data For Production: Closing the Loop

Saunders, George, 1958-
Works by: [17 Title\(s\)](#)
Works about: [1 Title\(s\)](#)
Literature
Image: Wikidata
Field:
Occupation:
Children's author
Author
Group/Organization:
Syracuse University
[Full record](#)
[Wikidata Info](#)

Prototypes

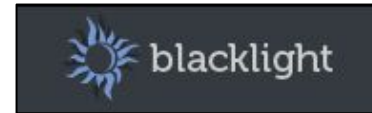


Linked Data Sources



Cornell University
Cornell University Library
LIBRARY CATALOG
a tale of two cities
SearchWorks catalog: All fields | a tale of two cities
Library services+
COVID-19 update
Stanford Libraries e-resources are available to support you during remote instruction.
At this time, physical access to materials is unavailable and locations remain closed. [read more](#)
If you can't find a digital version of an item you need in SearchWorks or FullText, we'll do our best to buy it. [Learn more](#)
Request from Libraries V
Search Articles & Full Text
Recommend a Purchase
CATALOG START | a tale of two cities X
Refine your results 1,767 catalog results
Access > 1:00 hours
Resource type > 1: A tale of two cities [video]

Discovery Systems

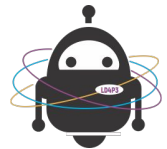


Blacklight Code and Community



Community Engagement and Review

- [LD4 Conference -> Community](#)
- [Discovery Affinity Group](#)
- [Knowledge Panel White Paper](#)
- [Blacklight LD Working Meeting](#)
- [Wikidata Affinity Group](#)
- [Ethics in Linked Data Affinity Group](#)



And thanks to the SWIB community!

