Using Linked Library Data in Working Research Notes

Ryan Shaw School of Information and Library Science University of North Carolina at Chapel Hill

Our goal

is to provide a "medium by which much valuable information may become a sort of **common property** among those who can appreciate and use it"

> Thoms, William J. 1849. "Notes and Queries." *Notes and Queries* s1-I(1):1–3. http://nq.oxfordjournals.org/content/s1-I/1/1.full.pdf+html

Common property

zotero

bibliographic data

Open Annotation Collaboration

annotations



finished products



crowdsourcing



collaborative authoring

"When found, make a note of it." - CAPTAIN CUTTLE.

Focusing on notes

Documentary editing

- Editors prepare collections of documents: letters, articles, diaries, essays, etc.
- Printed volumes provide context for better understanding subjects' experiences and general milieu through footnotes, images, chronologies, articles

Documentary editing: workflow

1. Gather documents

2. Contextualize select items

3. Publish final product

4. Repeat as funding allows

Case study:

Emma Goldman Papers



EMMA GOLDMAN

A DOCUMENTARY HISTORY OF THE AMERICAN YEARS VOLUME 1: MADE FOR AMERICA, 1800-1901

Candace Falk Editor - Barry Patential According Editor - Justica Moran According Editor

To WALTER CHANNING

New York, 18 October 1902

DEAR SIR

I am in receipt of your note of the 18th inst. and in reply would like to say this, I do not know whether Czolgogz1 was an Anarchist, nor have I the right to say that he was not. I have not known him sufficiently to be acquainted with his political Views. In fact no one has, including Mr Isaak and Mr Shilling¹ and if they have expressed opinions either for or against his being an Anarchist they have done an injustice to the young man, who died such a brave death, as you and you, dear Sir will be guilty of the same offence if you attempt to prove that Czolgogz was not or was an Anarchist. No one can with certainty say, that the man was an Anarchist, since he was but little known, and since he has never proff made a public statement to that affect. Still less can one prove that he was not one; there is nothing in his act by which one can deny him the right of being an Anarchist. It is true, the Philosophy of Anarchy does not teach Invasion, but it does teach self defence, and Czolgogz's act was an act of self-defence and nothing else. You may question this, since Czolgogz was not personally attact by McKinley, quite true, but Czolgogz belonged to the Oppressed, to the Exploited and Disinherited Millions, who lead a life of darkness and despaire owing to those, of whom McKinley was one, therefore he was personally attacked by the ex President, or rather he was one of the Victims of the McKinley regime and those McKinley catered to. The act of Czolgogz may have been imprectical or inupportune, I will not argue this point now, but I insist it had nothing unanarchistic about it, since, as I said before Anarchism claims the right of Defence against Invasion and Aggression of every shape and form and no one, who has his eyes open will and can deny that those in Power are the Invadors, and McKinley certainly was one of them. I send you with this, a Articles3

a. Cleveland anarchist Emil Schilling had been Czolgosz's first contact in the anarchist movement in May 1901, lending him reading materials and answering his questions. According to Schilling they were estranged even before Czolgosz's arrival in Chicago. Abe Isaak, editor of Free Society, introduced Czolgosz to EG in Chicago; Isaak found Czolgosz's behavior suspicious.

Leon Czolgosz, who assassinated President McKinley at the world's fair in Buffalo in September 1901, was judged sane before his trial by three psychiatrists for the prosecution and two psychiatrists for the defense. Later, Tufts University Medical School psychiatrist Walter Channing assessed Czolgosz as mentally unstable, based strictly on the assassin's personal history, in a October 1902 article published in the American Journal of Insonity.











rchers					*	-	- F
afs berkeley.edu group egp Barry	individual res	earchers					
- , , , , , , ,							
lame	▼ Size	Туре	Date Modified				
🚔 Agnes	30 items	folder	2011-11-07 10:11:13				
🛁 Athalia	6 items	folder	2010-09-27 13:50:28				
Billy Sunday Bio.wpd	19.2 kB	WordPerfect document	2003-02-13 10:00:36				
grosser2.wpd	34.8 kB	WordPerfect document	2003-04-24 12:07:34				
Grosser.wpd	21.7 kB	WordPerfect document	2003-04-01 16:47:58				
Table of Political Prisoners.wpd	135.0 kB	WordPerfect document	2006-08-02 13:28:48				
The Dominant Idea by De Cleyre	59.8 kB	WordPerfect document	2004-01-08 10:59:00				
Women Political Prisoners	4.3 kB	WordPerfect document	2003-07-31 11:28:40				
🛁 Ben	6 items	folder	2010-09-27 13:50:27				
Buford Deportee Bios.doc	49.2 kB	Microsoft Word Document	2008-05-01 20:29:14				
Buford info request.doc	22.0 kB	Microsoft Word Document	2003-04-23 13:24:52				
Buford leads.doc	22.5 kB	Microsoft Word Document	2003-04-15 13:40:16				
Passengers on the Buford.doc	82.9 kB	Microsoft Word Document	2003-11-06 09:44:16				
provincetownplayersChron.wpd	13.8 kB	WordPerfect document	2003-12-11 14:53:58				
-WRD0000.tmp	33.3 kB	Microsoft Word Document	2003-03-12 13:32:34				
🛁 Brittany	3 items	folder	2011-10-14 15:33:20				
🛁 Carol	13 items	Folder	2011-10-14 15:43:55				
American Consular Practice.wpd	11.2 kB	WordPerfect document	2004-12-07 11:02:32	1410			
bachofen.wpd	9.6 kB	WordPerfect document	2004-09-10 12:15:30	2			
castleton notes.wpd	22.3 kB	WordPerfect document	2004-04-13 11:48:54				
Citizenship.wpd	11.5 kB	WordPerfect document	2003-04-15 10:42:42				
💹 Cora Bennett Stephenson.doc	20.0 kB	Microsoft Word Document	2004-10-04 11:32:48				
Earle IMDB.wpd	54.7 kB	WordPerfect document	2004-03-29 15:00:50				
Ferdinand P Earle Notes.wpd	16.6 kB	WordPerfect document	2004-04-01 13:02:42				
joehill notes.wpd	2.4 kB	WordPerfect document	2004-04-22 12:11:28				
Seagull Notes.wpd	5.7 kB	WordPerfect document	2004-04-05 13:48:12				
The Blast.doc	22.0 kB	Microsoft Word Document	2003-03-05 15:14:12				
What I believe versus Anarchism.wpd	4.3 kB	WordPerfect document	2003-02-05 14:14:20				
What I believe versus other sources.wpd	3.3 kB	WordPerfect document	2003-02-12 13:52:40				
WIBVSOTH.WPD	4.9 kB	WordPerfect document	2003-02-12 15:51:20				
🛁 christie	4 items	folder	2010-09-27 13:50:26				
Christina	3 items	folder	2010-09-27 13:50:26			"0	oner

Problems

- Published volumes & necessary work are expensive
- Lack of space for all footnotes
- Much of research done is either glossed over in footnotes or not included at all
 - Fact checking
 - Falsification or dead ends
 - Tangential biographical details
- Preservation & legacy

Patrick-

Lenin:

Had any of his family members beside his brother, been imprisoned?

What was the book he had written on 'political economy' that was used in Russsian Universities?

New York (Evening?) Post, September 1918 editorial on IWW verdict for the huge IWW trial in Chicago.



Sources consulted, notes taken based on findings

Notes stored in a Word documents? Yellow notebook? Email?

Negative conclusion reached to question, but no one will ever know Lenin, Vladimir Ilich [V.I. Ulvanov] (1870-1924) Russian revolutionary leader and founder of the Bolshevik party, a faction of the Russian Social Democratic Labor Party formed in 1903. Lenin grew up east of Moscow in the city of Simbirsk in a relatively wealthy family. When he was a teenager, his brother was executed for his role in plotting to kill Tsar Alexander III. While studying to become a lawyer, Lenin began his involvement in radical and Marxist circles in the late 1880s and 1890s. By the last years of the nineteenth century, he was a prolific writer and published many newspapers and articles encouraging revolution in Russia. To avoid being punished for his activities by the Tsarist police, Lenin spent much of the decades preceding the 1917 Russian revolution in exile in London, Paris, Geneva, Zurich, and other European cities, working with other émigrés to encourage revolution in Russia. After the overthrow of the Tsar in February 1917, Lenin planned his trip back to Russia, arriving in Petrograd in April. His return was controversial because his train from Switzerland was allowed to pass through Germany, one of Russia's enemies in World War I. This fact led many to believe that Lenin was

Editors' Notes Browse About Search

Add note

Title

Which members of Lenin's family were imprisoned?

Description -

B	I	р	H1	H2	H3	=	=	0
~	-			114	11.5	-	-	

Lenin's brother Aleksandr was famously jailed for attempting to assassinate Tsar Alexander III, but did any of his other family members ever face similar trouble?

Status-

Open	

Related topics -

Add topic (type to search)

Assigned users -

- Patrick Golden
- Barry Pateman
- Annie Powers

Save note

Add note

Editors' Notes

Title

Which members of Lenin's family were imprisoned?

Browse

About

Description-

в	I	Р	H1	H2	H3	10	=	0
	1.00							

Lenin's brother Aleksandr was famously jailed for attempting to assassinate Tsar Alexander III, but did any of his other family members ever face similar trouble?

Search

-				
C	4-	£., .,	-	-
-	L A	TI 1	ς.	
~	~~	~~	~	

Status-	Open
Open	Closed
	Open
Related topics -	Hibernating
Add topic (type to search)	Korolenko, Vladimir Galaktionovich, 1853-1921
Assisted upon	Lenin, Vladimir Ilich (1870-1924)
Assigned users-	Vladi
Patrick Golden	<u></u>
Barry Pateman	
Annie Powers	
Save note	



Editors' Notes

Search

Patrick Golden -

1-

Which members of Lenin's family were imprisoned?

Lenin's brother Aleksandr was famously jailed for attempting to assassinate Tsar Alexander III, but did any of his other family members ever face similar trouble?

Т	vpe to	sear	ch for a	king the icon to the right					
в	I	Р	H1	H2	H3	:=	=	0	
									C

Add docume	nt	
B		Generate citation
Zotero data:		
	Forum Post Map Video Recording Letter Manuscript	
	Radio Broadcast Blog Post Artwork Hearing Newspaper Article Thesis Dictionary Entry	
	Report Podcast Audio Recording Instant Message Conference Paper	Cancel Sa

I		Generate	citation	V
adkmir Lenin to	Alexander Ulyanov, December 2, 1881, reel 3, frame 78, Vladimir L	Lenin Papers.		
Author 💌	Lenin .:: . Vladkm	nir	00	
Recipient 💌	Ulvanov	der:	00	
Abstra	t	.d		
Тур	9			
Dat	December 2, 1881			7
Languag	a			
UR	- [
Accesse	i [
Archiv	Vladimir Lenin Papers	.:		
Loc. in Archiv	reel 3, frame 78			

tors' Notes	Browse Abou	Search	Patrick Golden -
hich m	embers o	Lenin's family were i	mprisoned?
n's brother Aleks	andr was famously jail	I for attempting to assassinate Tsar Alexander III, bu	ut did any of his other family members ever face similar troubl
dd section:	Document citation		Save change
Vladimir Lenin to	Alexander Ulyanov, D	cember 2, 1881, reel 3, frame 78, Vladimir Lenin Pa	ipers.
B I P	H1 H2 H3 \$	≡ %	
Indicates that the	e other members of the	llyanov family were not typically in any legal trouble	e, although there is mention of a shifty step-cousin.
			0

What has changed for researchers?

Free text



Structured blocks

Implicit people, places, events



Explicit linkable entities

Filing cabinets



Open access

Benefits

- Connections linking topics are freed from the minds of editors & researchers and **indexed for anyone to see**
- Standardized records of work can easily be revisited from within a project or from outside
- New way of seeing the outer edges of humanities research
- Evidence of intense, often messy, scholarship behind concise, clean footnotes





















Documents

Zotero for document metadata

High quality, zoomable scans

Transcripts in HTML with interface to annotate passages of text

Add document	
BI	
Emma Goldman to Alexa	nder Berkman, December 12, 1915, reel 4, Emma Gold
Item type Title	Letter
Author 🔳	Goldman
Recipient	Berkman
Abstract	
Туре	
Date	December 12, 1915
Language	
Short Title	

Topics

Primary method of indexing items

Classified by type

Interface for clustering and merging

Name Andreyev, Leonid Nikolayevitch, 1871-1919 Type Person Person Related topics Lenin, Vladimir Ilich (1870-1924) Add topic (type to search) Article B I P H1 H2 H3 E Sussian author, lawyer, crime reporter, editor, and photographer. Alt

Russian author, lawyer, crime reporter, editor, and photographer. All articles about the purgative power of World War I.By summer of the Destruction."Although Andreyev's articles addressed international v the war was to eradicate an evil, he rejected the Brest-Litovsk pear pamphlet in early 1919 entitled S.O.S. (ed. Russian Liberati Comm world to organize themselves and break Bolshevik power. In S.O.S. emphasizes his belief in the "nobility" of the people. Andreyev inten suddenly of a brain hemorrhage. His works include: The Seven Who

Citations

Change topic

Carr, E. H. A History of Soviet Russia. London: Macmillan, 196

Notes

- Most difficult part of the project
- Notes are messy, and purposefully so
- How to model something so chaotic & idiosyncratic?
- Goals: Easy to use; flexible but consistent

Notes

Description

Status: Open, closed, hibernating

Assigned users

Sections

Citation with optional notes

Stored as HTML

Revision history

Sanger and the Third ICPP

Unlike the coverage in secondary sources, planning on the Third ICPP started far earlier than De See Watumuli and the Third ICPP and British and Third ICPP for more. Focus in these notes is

Add section: Document citation

Sanger, Margaret, letter to Katharine Dexter McCormick, Jan. 8, 1951 [MSM S33:712]

Sanger, Margaret letter to Pearl S. Buck, Jan. 9, 1951 [MSM S33:717]

В	I	Р	H1	H2	НЗ	i	=	0

Notes that if they had been able to keep the East-West going, it would have made a great co and blundering, not only in Washington but wherever but leaders are, and of course most frigt civic affairs given to military leaders. We seem to learn nothing from history and one would the make our military leaders hesitant to build up a powerful military organization. Germany did so on their knees."

"There is a possibility of our having a population Conference in the Orient somewhere in 1952 from India recently tells me many of the 65 clinics that I organized in 1936 are still going. It w the health groups to that information as well as supplies will not have to be limited to people v ahead and I am so happy to feel well again."

Sanger, Margaret letter to Eleanor C. Jenkins, Jan. 9, 1951 [MSM S33:719]

P Bruch Dorothy letter to Marcarel Sancer Jan 21 1951 (MCM \$33-768)

Design principles

- Minimal amount of "friction" for researchers
- Flexibility for different work habits
- Consistency in data models
- Existing technology wherever possible
- Adherence to web standards

Open source

- https://github.com/editorsnotes
- HTTP API built on Django web framework
- PostgreSQL database
- Haystack for full-text searching
- Zotero for document description
- Google Refine for duplicate detection
- Mozilla Persona for ID management

Roadmap

- Better sorting, filtering and aggregating of notes
- Improved naming control and discoverability
- Temporal, geospatial, and relational visualization



Freebase http://rdf.freebase.com/ DBpedia <sameAs> http://dbpedia.org/ Virtual International interlinking the Web of Data Authority File http://viaf.org/ The Web of Data has many equivalent URIs. csameAc> Enter a Linked Data URL Deutsche This service helps you to find co-references behenen different data sets. Nationalbibliothek Enter a known URL or use Sindice to search first. Enter a literal (text) search. http://d-nb.info/ New York Times http://data.nytimes.com/ candidate topic URIS names statements (triples)

Linked Data Harvester

icle Discus	sion Related Notes @ Queries (1) Related Documents Facts
rom <u>VIAF</u> abou	Goldman, Emma:
name	Goldman, Emma 🖋 🗶 Goldman, Emma, 1869-1940 🖋 🗶 Goldmann, Emma, 1869-1940 🖋 🗶 Gol'dman, Émma 1869-1940 🖋 🗶 Goldmann, E. 1869-1940 🖋 🗶 Görudoman, Ema, 1869-1940 🖋 🗶 Gol'dman, אממע ,ןאמדלאג 🗶 <table-cell> 1869-1940 🖋 🗶</table-cell>
date of death	1940 🖌 🗶
type	Person 🗸 🗶 Person 🗸 🗶
date of birth	1869 🖌 🗶
rom <u>Freebase</u> a	ibout <u>Emma goldman</u> :
	date of death 1940-05-14 🥩 🐹
	series written (or contributed to) Emma Goldman: A Documentary History of the American Years 🛷 🗶
	country of nationality United States of America 🛷 🗶
	ethnicity Ashkenazi Jews 🛷 🗶 Jewish people 🛷 🗶

Lessons learned

- Possible to automatically harvest relevant linked data from libraries and other institutions
- Editorial control over the harvested data needs to be better integrated into the note-taking process
- Did not adequately demonstrate the benefits of structured data
- Do not simply aggregate and edit linked data need to usefully exploit it to researchers' benefit.

In-process reconciliation

Editors create topics to label and index their notes; later reconciled to external identifiers in a **separate batch process**.

Old

Editors fluidly create, link to, and reconcile topics within the note-taking process.

New

Motivating structured data use

enabled storing and editing of structured data, but provided **no incentive for editors** to do this storing and editing structured data **immediately enables** sorting and filtering and creating simple visualizations

New

Old

Women Already Voters: Test Cases during Reconstruction

Related topics: Anthony, Susan B. | Burnham, Carrie S. | Chicago, III. | Detroit, Mich. | Gardner, Nannette B. | Huntington, Sarah M. T. | I Norwalk, Conn. | Philadelphia, Pa. | Rochester, N.Y. | Santa Cruz, Calif. | Spencer, Sara J. | St. Louis, Mo. | Van Valkenburg, Ellen R. | Waite Washington, D.C. | Webster, Sarah E. | Woman Suffrage

Article Related N	otes & Queries (8) Related Documents (66)
Filters -	
+ Item Type	Publication Title
- Publication Title	Revolution (11) Woman's Journal (6)
+ Author	Chicago Legal News (4) Chicago Daily Tribune (3) Norwalk Gazette (3) Philadelphia Inquirer (3)
+ Archive	
+ Representations	Detroit Tribune (2) Albary Law Journal (2)
	New York Times (2)
	Rochester Union & Gazette (1)
	[Philadelphia Press] (1)
	Woman's Journal (1)
	Central Law Journal (1)
	Detroit Advertiser and Tribune (1) Sente Caus Senticel (1)
	New Northwest (1)
	St. Louis Dispatch (1)

Sorting & filtering

Sorting & filtering

- Filter and sort notes not only using the dates of the cited documents (as they currently can), but also using:
 - locations and birth and death dates of the people referenced in the notes
 - locations and dates of existence of the organizations referenced
 - locations and dates of the events referenced

Light and Shadows: Emma Goldman 1910-1916

• • • • Boulder River Arlington Camano Widemess Island (331) Port Sunan" Port North Townsend Greenbank Marysville + Sequim Port Hadlock-Irondale Lake Whithey Stevens (20) Island May 24, 1910: 4 related documents ж (\overline{m}) Haritoile Pair Click images to see full-size versions. (904) Field 850 Lynnwood Pretty Homes Which Typify the Prosperity of Portland" (context Shoreiner article from The Morning Northgate Oregonian, 22 May 1910) . Balard Dosewallips Silverdale (\bullet) State Park Bainbridge Chick Island Seattle "Airship Crosses the English Greater Channel" (context material from Bremerton The Morning Oregonian, 22 May Duwamish 1910) Bethel R Bunen. Rathai A U "Women's clothing" (context Hahobas **BSA Camp** material from The Morning Oregonian, 21 May 1910) Federal Defiance Park Way. . Toow Park & Tacoma Edgewo v Lake 8 State Puyallup Lakewood (410). Buckley South Hill Spanaway. Nisqually National Orting Wildlife Refuge Backco IT Graham Olympia Google (910) Map data @2013 Google - Terms of Use 1911 1910 1912 1913 1914 1915 1916 1917

Help | Mother Earth subscribers | Contact us

Search for a place Emma Goldman visited:

Seattle, Washington

May 24, 1910

Emma Goldman lectured on "The Crime and Sufferings of Francisco Ferrer* at Columbia Lodge Hall, Seattle, Washington. 4 related documents

May 25, 1910

Emma Goldman lectured on "White Slave Traffic" at Columbia Lodge Hall, Seattle. 4 related documents

June 9, 1912

Emma Goldman began a week long series of lectures on anarchy and socialism in Seattle, Washington. Seattle Times created furor over anarchism: "Will not some patriots save Seattle from the treasonable utterances of Emma Goldman?" 500 veterans of the Spanish War threatened to meet Emma Goldman at the train station and drive her away. Mayor refused requests to prevent Emma Goldman from speaking, but assigned police to her meetings to prevent an outbreak of trouble.

June 11, 1912

Emma Goldman scheduled to lecture on "Art and Revolution" at Eller's Recital Hall, Seattle. 1 related document

June 12, 1912

Emma Goldman scheduled to lecture on "Chantecler" at Eller's Recital Hall, Seattle.

June 13, 1912

Emma Goldman scheduled to lecture on "Communism, the Most Practical Basis for Society" at Eller's Recital Hall, Seattle.

June 14, 1912

Emma Goldman scheduled to lecture on "Sex, the Great Element of Creative Work" at Eiler's Recital Hall, Seattle.

June 15, 1912

Emma Goldman and Ben Reitman scheduled to lecture on "An

Visualizing notes

- A note on Dhanvanthi Rama Rau & the Fourth International Conference on Planned Parenthood can become viewable as:
 - a map of specific locations in Stockholm and Bombay
 - a **timeline** of dates associated with the conference
 - a **network** of relationships among people and organizations.

Expected benefits

- Working notes become repurposable
- Working notes become more discoverable
- Shift of focus from one-shot product to continuous data curation process

Thank You

We are grateful for funding from: The Andrew W. Mellon Foundation Coleman Fung

Ryan Shawryanshaw@unc.eduProject informationhttp://ecai.org/mellon2010/Project sitehttp://editorsnotes.org/Source codehttps://github.com/editorsnotes