# Building Discourse and the Crowd

Matt Miller matthewmiller@nypl.org @thisismmiller

Upper Midwest Digital Collections Conference Aug. 2014





# **>**



- About
  - NYPL Labs
  - Linked Jazz Project
- Digital representation: visualizing discourse
- The crowd and beyond



- 87 Branches.
- 4 Research Centers.
  - Humanities and Social Sciences.
  - Science, Technology, and Business.
  - Schomburg Center for Research and Black Culture.
  - Library for the Performing Arts.



# NYPL Labs

- The library's experimental design and technology team.
- Founded by Ben Vershbow, the group consists of a director, deputy director, project manager and 6 highly interdisciplinary developers.
- Work with librarians and curators to create new tools, applications and experiences.

BULLETIN OF The New York Public Library

Aster, Lenes and Tilden Foundations

VOLUME 71 JANUARY-DECEMBER 1967

NEW YORK THE NEW YORK PUBLIC LIBRARY 1 9 6 7

### ADMINISTRATIVE CHANGES

During the past year several major changes were effected as a means of adopting the most modern techniques of administration and organization to the complex problems of the Library. A new Systems Analysis and Data Processing Office was established in July 1967 with temporary quarters in the Central Building. The new Office will study suggested applications of the electronic computer to Library operations and help to design the most efficient automation systems for the various departments of the Library. In the fall a formal training program was instituted to recruit and to train members of the staff in the skills and techniques of computer programming. In March 1968 the accounting functions of the Library were reorganized and the Accounting Office's name was changed to Controller's Office.

-1967 Bulletin of the New York Public Library



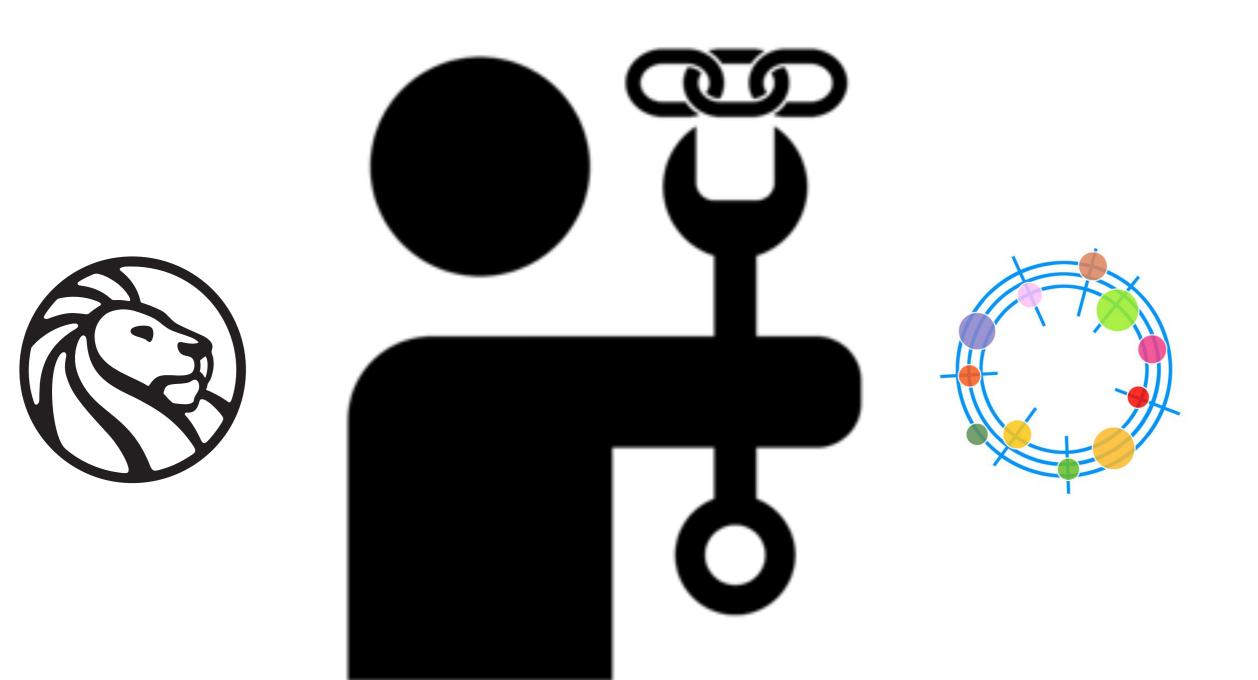
- Digital Library + Labs
  - Digital Imaging Unit
  - Permissions/Reproductions
  - Metadata Services
  - NYPL Labs

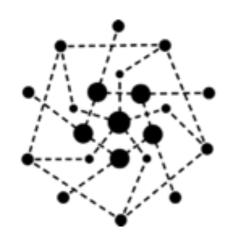


# Linked Jazz

- Research project by Cristina Pattuelli, Professor at Pratt Institute.
- How to use the power of linked open data in a cultural heritage context.
- Using oral history transcripts and the crowd to map the social networks of jazz musicians.

# Building Connections





## Discourse

- The history of ideas.
- Making hidden connections visible.
- Linking ideas with statements.





## Discourse

The document, then, is no longer for history an inert material through which it tries to reconstitute what individuals have done or said, the events of which only the trace remains; history is now trying to define within the documentary materials itself unities, totalities, series, relations.

-Michel Foucault, Archaeology of Knowledge



/mark @markdrasutis

# "If a picture is worth 1000 words, a prototype is worth 1000 meetings" @ideo

5:36 PM - 19 May 2013

861 RETWEETS 269 FAVORITES



Follow

# Archives Portal

IND ARCHIVAL MA	TERIALS				
Search names, title	s, keywords	Q			
Archives are the records creat Collections can range in size for records. They can contain dra		ns as they lived and worked. thousands of boxes of institutional records, meeting minutes, reports,	Living at NYPL	story writer, essaylst, je Bonn on November 30,	ts mens was an American novelist, short ournalist, and literary and social critic. 1835 he wrote fiction and non-fiction Mark Twain, Sleur Louis de Conte., View

Names

Explore access terms

**Digitized Pages** 

View a document.

Collections Added

this Year

New collections

Feet of Documents

That's further than-

Collections

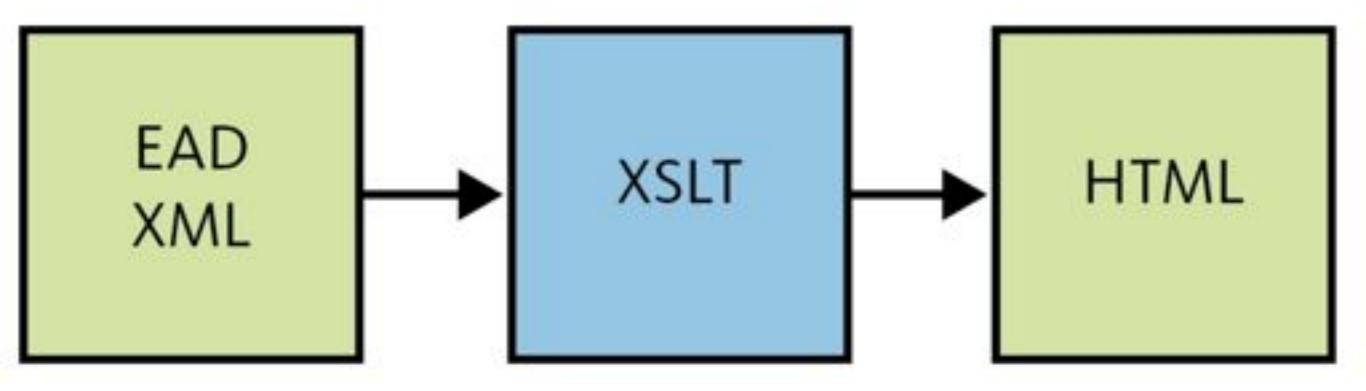
View a collection

Described

Components

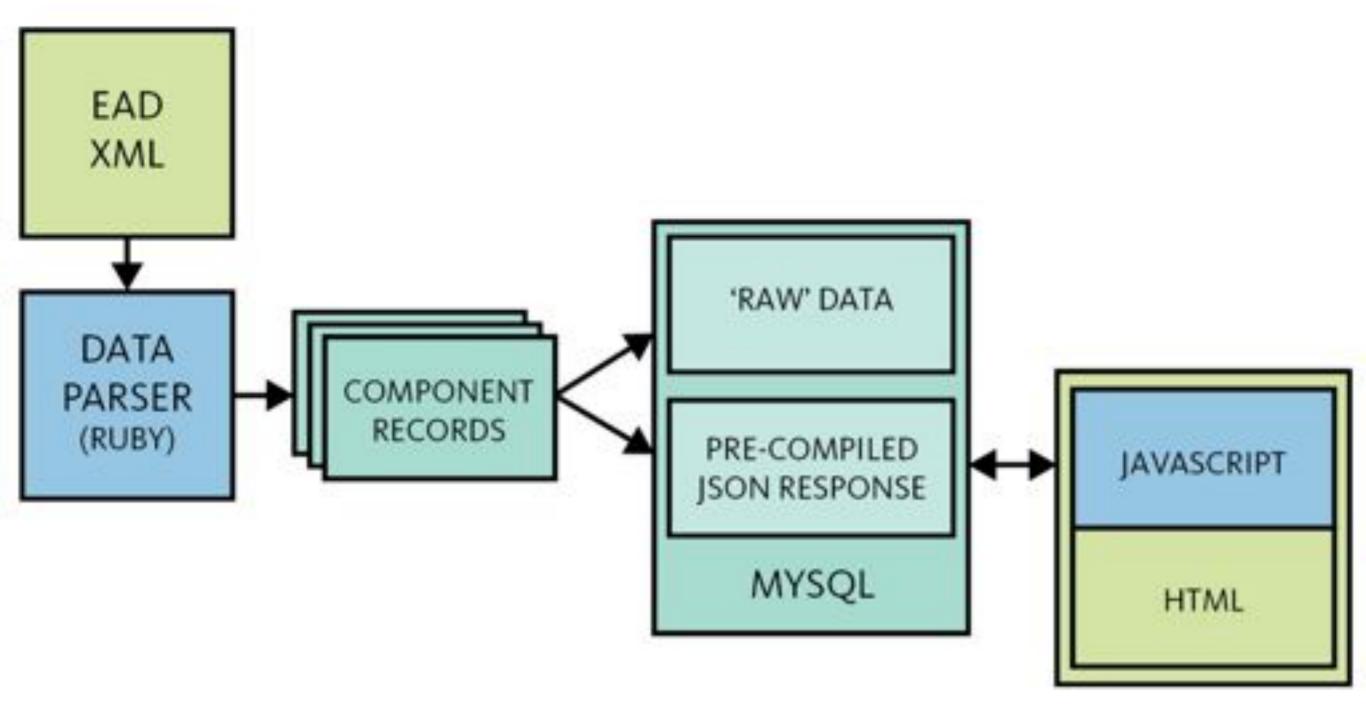
View #-component

The traditional model for presenting EAD-encoded finding aids



## Diagrams by Trevor Thornton

# archives.nypl.org





Euplon

Support the Library

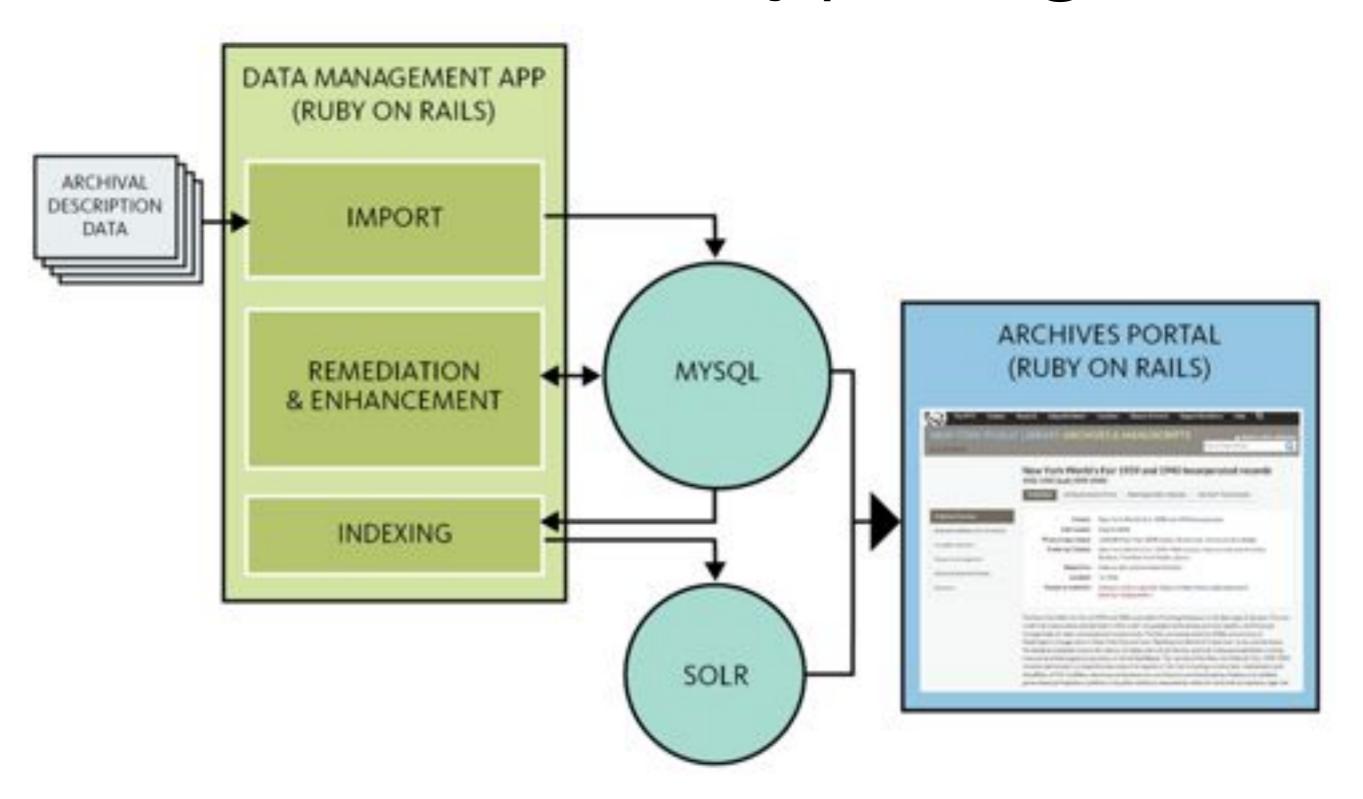
### NEW YORK PUBLIC LIBRARY ARCHIVES & MANUSCRIPTS

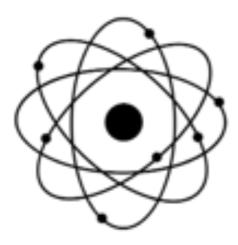
About Contact

Reset filters	New York World's Fair (1939-1940) New York World's Fair Negro Week records, 1940 Schomburg Center for Research in Black Culture, Manuscripts, Archives and Rare Books Division   Sc MG 42 A linear feet
	"Negro Week" was a program on the contributions of blacks to American culture held at the New York World's Fair in July 1940, and consisted of festivals, exhibitions, song and dance recitals, choral and symphonic music, concerts, religious
	New York World's Fair 1939 and 1940 incorporated New York World's Fair 1939 and 1940 Incorporated records, 1935-1945 [bulk 1939-1940] <sup>1</sup> Manuscripts and Archives Division   MssCol 2233 1203.48 linear feet (2508 boxes, 42 volumes; 12 sound recordings)
	The New York World's Fair of 1939 and 1940, was held in Flushing Meadows in the Borough of Queens. The non-profit Fair corporation was formed in 1935 under the guidance of business and civic leaders, and financed through federal, state, municipal
	FOUND IN VIII. Promotion and Development Division + Series VIILE. Research and Library + VIILE.3. Research + VIILE.3.c. Other Fairs + Golden Gate International Exposition (San Francisco, 1939) + World's Fair Highlights (periodical) I. Central Files + Series I.D. Participation (P.) + PO. Government + PO.D Federal + World's Fair Bill (1939)
	L Central Files + Series LA. Administration (A.) + A6. Fair Planning + World's Fair Features (1939) L Central Files + Series LE. Public Relations (PR.) + PR1. Promotion + PR1.1 Copyrights + PR1.10 Name + World's Fair Anthology (1939) VII. Operating Division + Series VII.C. Exhibits and Entertainment + VII.C.B. Sports + 1939 Season + Uniforms + Use of World's Fair Theme

[A video clip showing the system load a very large collection. See it live here: <u>http://archives.nypl.org/mss/2233#detailed</u>]

## archives.nypl.org





## Atomic Level Archival Data

- Represent the digital in context with the nondigital.
- Build and display relationships across all collections.
- Facilitates new forms of discovery at the collection and inter-collection level.

# Contextualizing The Digital

- Varying levels of digitization:
  - Collection
  - Box
  - Folder
  - Item

### THE NEW YORK PUBLIC LIBRARY

## STAFF



## NEWS

Period or The New York Period Library, 455 Fifth Assessed, on Fulder of such week, for controlution, summing the staff only.

Iness for the News should much the Diverse's Office States 210, seemed building) to Weinssley make to accord includes in the lease of the second much.

Volatie 1

#### 14 July 1911

Number 2

#### NOTICES

#### CANTRAL RUILDING.

PROTECTATING: Hereafter readers wishing photographs made of books, manuscripts, maps, prints, or other objects in the library are to be referred to Perris A. JULEY, 106 East 23d street.

Mr. Juley's prices are as follows

Unpring of one at two subfrees, one print to the lineary and one to the realized P'× 7" plate, \$2.00, entres prints, \$.20 each \$"×10" plate, 2.90, entres prints, .45 each 11">(14" plate, 2.90, entres prints, .50 each	5"× 7" plate
Coupling more than two and at least the party person at least treet.	Cipying printings or solored adjects where press other topers are domested:
N"=N" plate 200	3"× 7" plane \$2.50   3"× 30" plane 100   11"× 14" plane 5.00

On very large orders prizes are subject to reduction according to special agreement with the reader PHOTOGRAPHING: Hereafter readers wishing photographs made of books, manuscripts, maps, prints, or other objects in the library are to be referred to PETER A. JULEY, 106 East 23d street. Mr. Juley's prices are as follows:

Copying of one or two subjects, one print to	Copying more than five subjects at one time:
the library and one to the reader:	5"× 7" plate \$1.00
5"× 7" plate, \$2.00, extra prints, \$.20 each	8"×10" plate 1.50
$8'' \times 10''$ plate, 2.50, extra prints, .35 each $11'' \times 14''$ plate, 3.50, extra prints, .50 each	11"×14" plate 2.50
Copying more than two and at least five sub- jects at one time:	Copying paintings or colored objects where exact color values are demanded:
5"× 7" plate \$1.25	5"× 7" plate \$2.50
8"×10" plate	8"×10" plate
11"×14" plate,	11"×14" plate 5.00

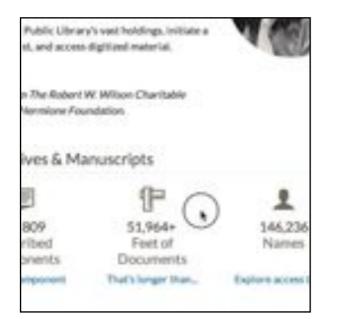
On very large orders prices are subject to reduction according to special agreement with the reader.

About	Contact the division							
		Samuel J. Tilden p 1794-1886 [bulk 1835-1						
		OVERVEW DETWILDOOD	EPTON PRIMARE	(PDF) yERSON	CONTACTIVES	HORNY		
Calleria	e Denine	Creator	Tilden, Samuel J. (Sar	munt Jones !	014-1006			
Bagad	and Antorical Information	Call number	MteCol 2993					
- Scope an	d privagement.	Physical description	42.78 linear feet (99	bown, 13 vol	lumeni			
Administ	native information	Preferred Citation	Samuel J. Tilden pap Public Library	ors, Manuscri	lpts and Archives I	Division, The	New York	
Kaytere		Reportory	Manuscriptg and Art	thives Divisio	10.00			
Usingthe	a subsciture	Access to materials	Advance notice rep.	aired. Request	Lacores to this col	lection.		
			Partiens of this colle	lection have b	een digitized and a	re evaluble	online	
Ψ	Parties at the collector are digitized	Samuel J. Tilden (3814-5886) is the Presidency in 1876. Tilden City of New York, as a member Convention. Monies from his o document his political and lep financial documents, writings.	began his career as a r of the New York State estate contributed to the el career and are comp	corporate law te Assembly, a the founding o prised primari	nyer; he served as ind as Chairman of if The New York P ity of corresponde	Corporate C the Democr ublic Library noie, political	ounsel for the atic National . His papers and legal files,	
		Digitization was made possible	e by a generous gift fro	an the Hermid	one Foundation.			
		BIOGRAPHICAL/HISTO	ORICAL INFORM	ATION				
		Samuel J. Tilden (1814-1886) v the Presidency in 1876. Tilden City of New York as a member	began his career as a	corporate law	vyer; he served as i	Corporate C	oursel for the	

## [A Video showing digitized and non-digitized listings: <u>http://</u> <u>archives.nypl.org/mss/2993#detailed</u>]







### Living at NYPL Archives & Manuscripts



### Katharine Hepburn

Star of stage and screen, and international icon, actress Katharine Houghton Hepburn was born on May 12, 1907 in Hartford, Connecticut to Dr. Thomas N. Hepburn, a distinguished urologist and surgeon speciali... View collection.

View more +



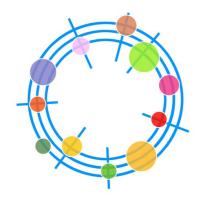
$(\mathbf{Q})$	NYPL	Explore Research	Using the Library	Locations	Classes & Events	Support the Libra	ry Help	۹	
1000	YOR	C PUBLIC L	IBRARY A	RCHI	VES & MA	NUSCRI	PTS	Search names, titles,	keywords. Q
Collect	tions A	dded Since J	anuary 2014	ł.		Y vie	e collections w	Ath digitized content.	
	Division	Title				Dates		Extent	
AUG	MSS	Voltaire letter and do	cuments			1762		0.1 linear feet	
AUG	MSS	Richard Varick letter	s and documents			1770-1835		0.2 linear feet	
AUG	MSS	Pedro de Nava paper	relating to Pedro Vi	á -		1792-1794		0.1 linear feet	
AUG	MUS	ASCAP archives				1914-1986		32.84 linear feet	
A.K.	MSS	Carl Van Vechten lett	ars .			1923-1946		0.1 linear feet	
JUL.	MSS	Van Sentvoord family	letter copies			undated		0.1 linear feet	
	1.000	Party of the Party of						A Record and	



## [A Video showing the archive as network feature]



[A Video showing the terms explorer, see it at: <u>http://</u> <u>archives.nypl.org/terms]</u>





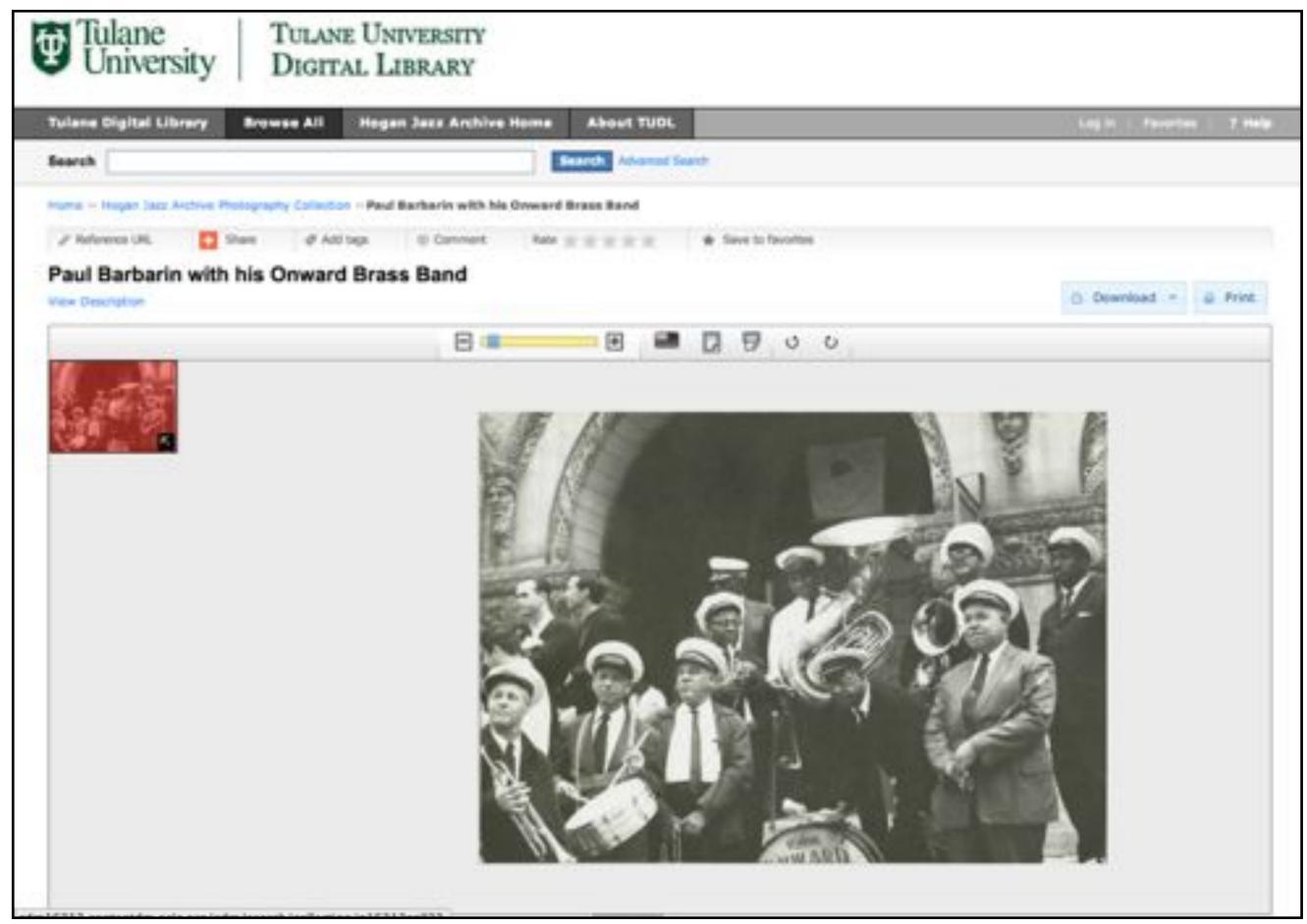


Eddie Locke Oral History from Hamilton College

326	MR:	That's great. Tell me about - I've been waiting to get to the fifteen years you spent at
327		Ryam's?
328	EL:	Ob yes.
329	MR:	Wow. That's a long time for a
330	EL:	Well Roy Ekfridge was my - well let's see - he was my conscience.
331	MR:	Yesh7
332	EL:	Well he was like my - I don't know what to call him. I had a great relationship with him
333		and Coleman, but both of the relationships were very different.
362	EL:	I've never played with anyone that loved to play as much as him. Never. And my greatest
363		story, every time I tell somebody this, they always, they love it, but I'm going to tell this
364		so this will be on film forever. I will never forget, we were playing in a place and there
365		was no one in the place, just like this room we're in now, with the band. We were up
366		there playing. And I was just like that [scats]. And he turned around and he leaned over
367		the drumset at me and he said "what are you doing?" And I said "well Roy" I says,
368		"there's nobody in here." He looked me right in - I mean he got closer - he said "I'm
369		here." That was the scariest thing, I mean and the way he said it, you know what I mean?
370		But it made a difference in me. He said "I'm here." Let's play. Because that's what he
371		did. I mean I've heard him play some of the greatest music I ever heard, in a room just
372		like this with nobody in it. He loved that horn. It was just like that's why at his
373		funeral, when Dizzy said, He said "y'all gotta find something else to do now," he said
374		"because this is the only person that was ever named Jazz." He said "he's is the only one
375		who was ever named Jazz.



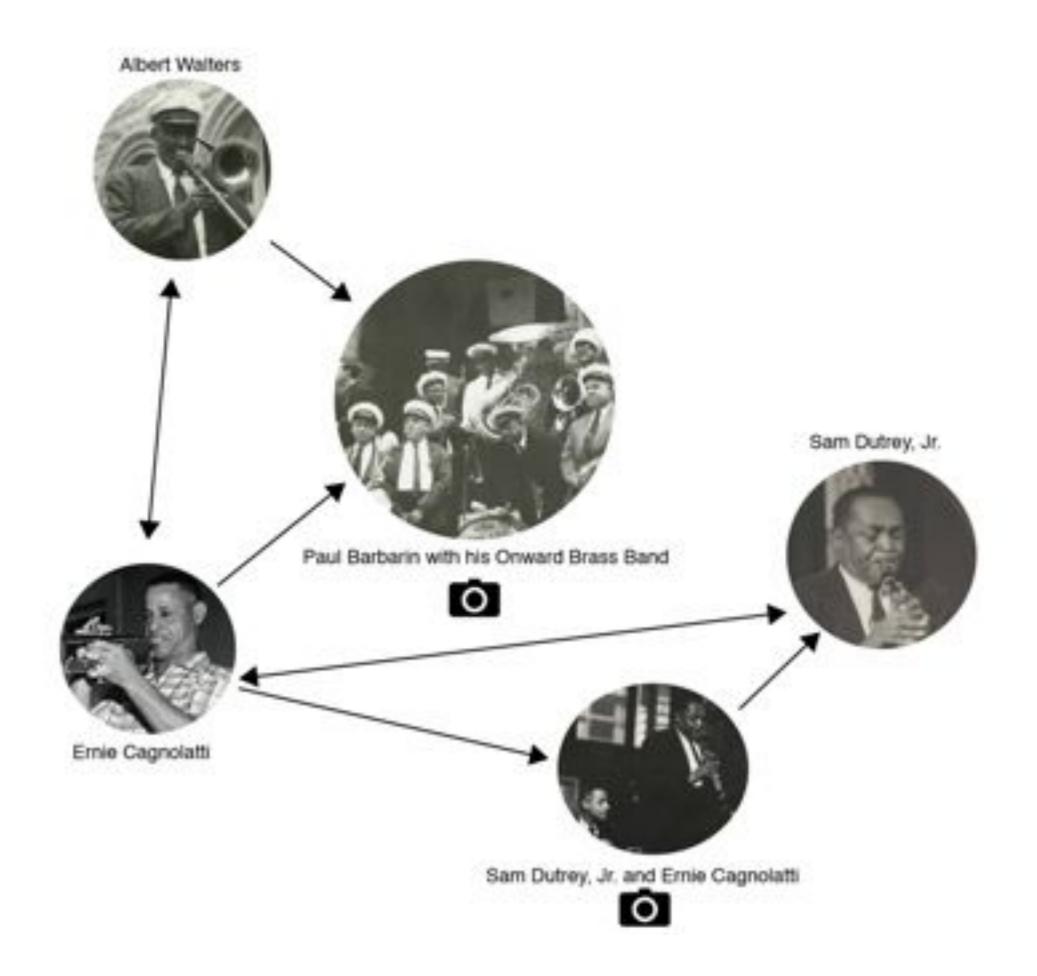
## [A Video showing the linked jazz network: <u>http://linkedjazz.org/</u> <u>network</u>]



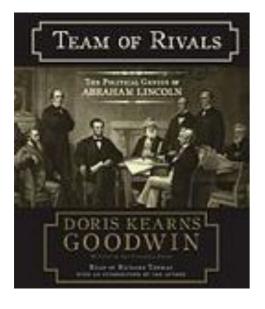


1.0410

Description	
Title	Paul Barbarin with his Onward Brass Band
Greater	Casimir, Mike
Subject	Cagnoletti, Ernie, 1911-1983 Barbarin, Louis, 1902-1997 Walters, Albert, 1905-1980 Howard, Kid, 1908-1965 Nelson, Louis, 1902-1990 Graene, Jerry Barbarin, Paul, 1899-1969 Guearque, Wardell Cottrell, Louis Wills, Jack Drums Trumpets Clarinets Musical instruments Jacz Musicalins Brass bends
Description	Ernie Cagnolatti, Louis Barbarin, Albert Walters, Kid Howard, Louis Nelson, Jery Greene, Paul Barbarin, Wardell Quezerque, Louis Cottrell, Jack Wills; a Tulane Derby Day
Date	1962-11



### New York **Co-citation** Metadata

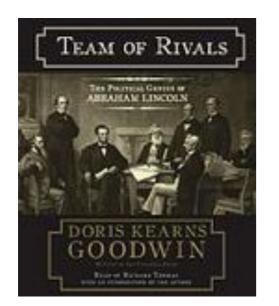


Public

Library

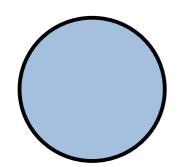
Lincoln, Abranam, -- 1809-1865. Political leadership -- United States -- History. Genius -- Case studies. United States -- History -- Civil War, 1861-1865. Lincoln, Abraham, -- 1809-1865 -- Friends and associates. Presidents -- United States -- Biography.

United States -- Politics and government -- 1861-1865.

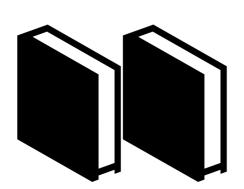


Lincoln, Abraham, -- 1809-1865. Political leadership -- United States -- History. Genius -- Case studies. United States -- History -- Civil War, 1861-1865. Lincoln, Abraham, < 1809-1865 -- Friends and associates. Presidents -- United States -- Biography. United States -- Politics and government -- 1861-1865.

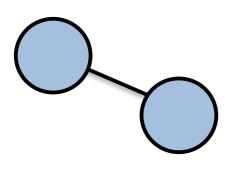




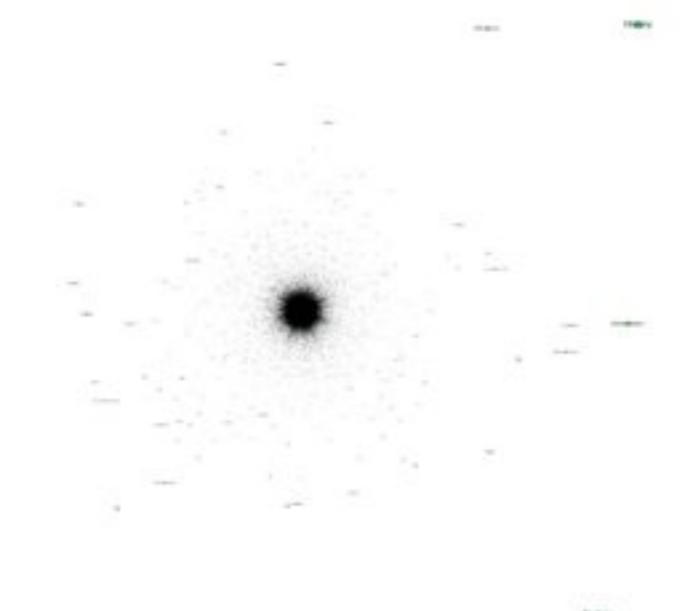
Each subject heading is a node, size indicates number of occurrences.



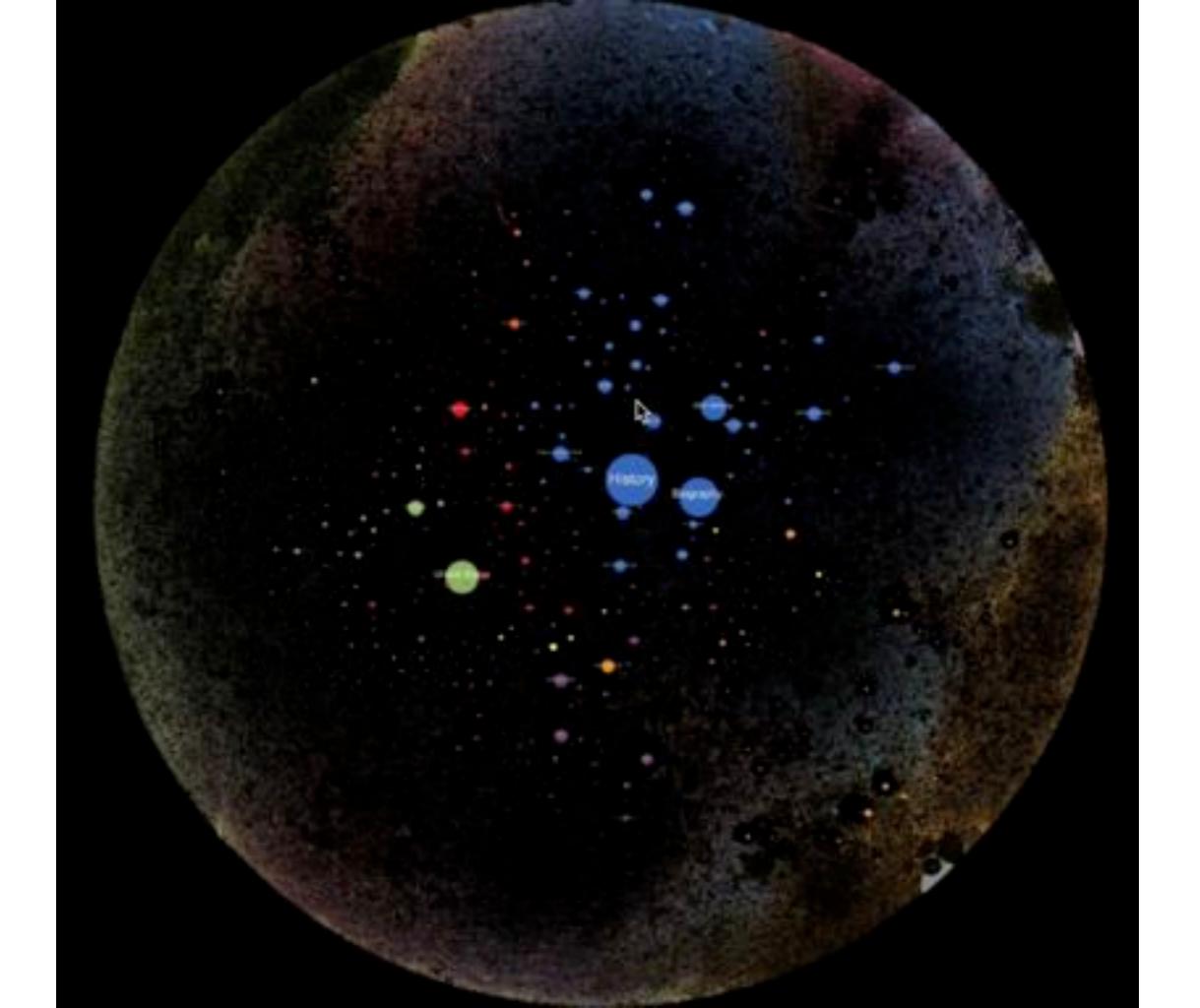
Subject heading must be used in at least two resources.

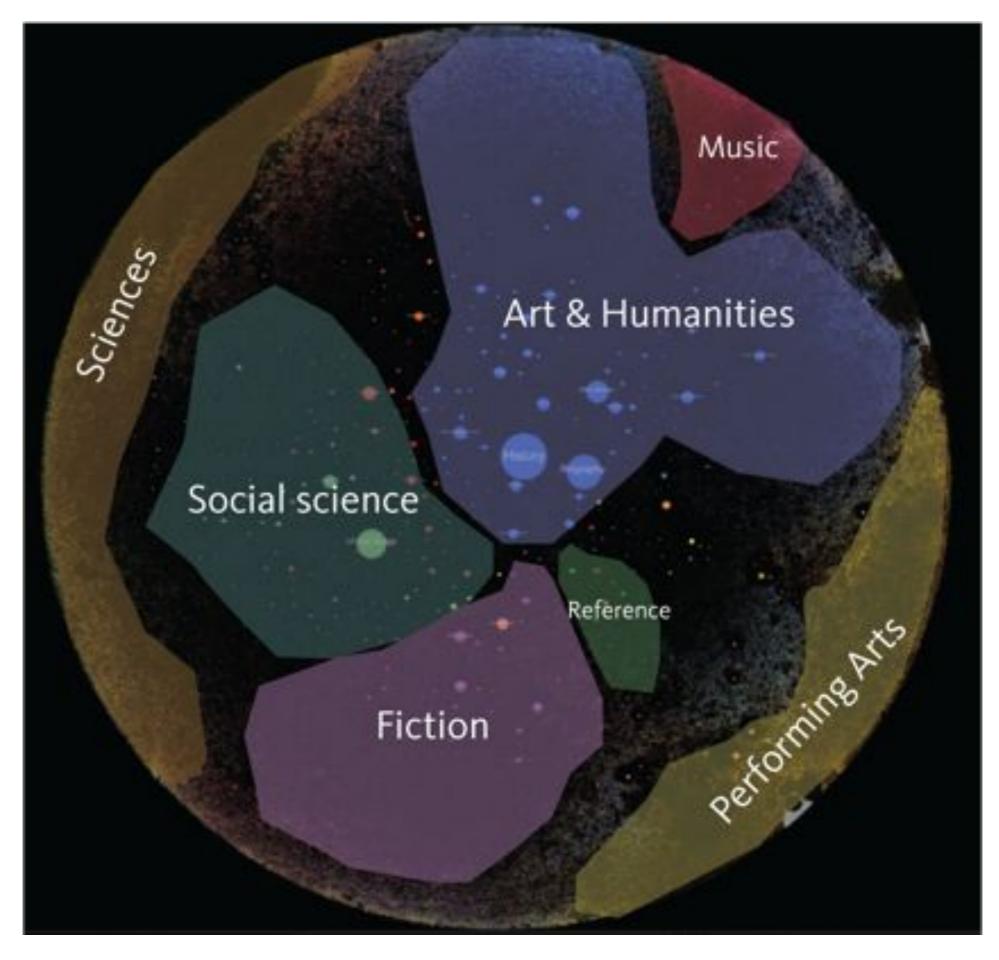


When two subjects occur in the same resource a edge is created between them. More co-occurrences creates a closer connection between them.



[A Video showing the catalog network building, view it here: <u>http://vimeo.com/91428315</u>]





## http://bit.ly/nyplnetwork

First thing he did after taking the job as school principal was to sign his resignation, explaining he didn't want people to feel obliged to keep him around. Then he fired the librarian, permitting students free access to books. Instead of being stolen or not returned, inventory after one year showed there were fifty more books than there had been originally.

> - John Cage. Diary: How To Improve The World (You Will Only Make Matters Worse)



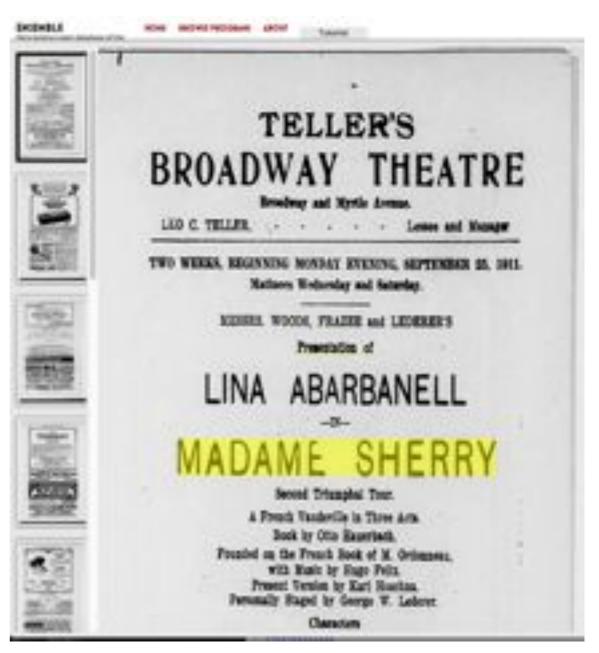
### Transcription Crowdsourcing

#### What's on the Menu?

#### Q # an INCHIL an 100.00 -Marry, Stans Billion, · · · · · the state A COMPANY at 100 percent days Advent internet Total Control of Street Wall Anderson of California with Stationers, -----And Instantis Story, Supply Yours tions distances at Land SAA DALLAR DALLAR ST. NO. OF CO., OR OTHER Contract Contractor Francis Rel DISE-TRO-R. Barret D's. dev C. H. Manual Ka, Kar No. d Mart a Chatlan and the state of t And Real Property in And Annual Contents the state of the s Asspel Window Same Singer and the second second Ministerio Mal 627 And Real Property and P. Charles R. Damas Appendiate in the local division of the loca 口的自主问题

### http://menus.nypl.org/

### Ensemble



### http://ensemble.nypl.org/

### New York Oral History Annotation

a

Using the Library Locations **Classes & Events** Support the Library

Public

Library

### **The New York Public Library Community Oral History Project**

The New York Public Library's Community Oral History Project is an initiative taking place at NYPL branches that aims to document, preserve, and celebrate the rich history of the city's unique neighborhoods by collecting the stories of people who have experienced it firsthand.

To find out when NYPL's Community Oral History Project will be coming to your neighborhood, learn how to get involved, or share your story, please contact or all interaction of contact of 212) 592-7555.

#### Browse By Neighborhood Project



### <u>http://oralhistory.nypl.org/</u>

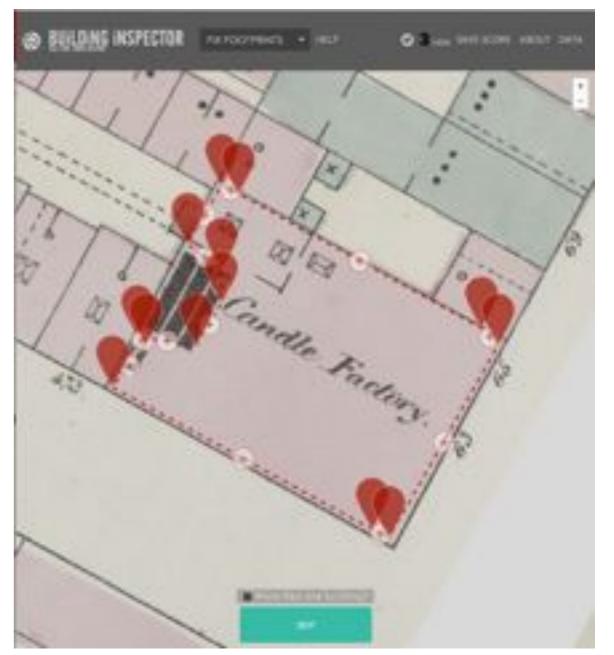


### Geospatial Crowdsourcing

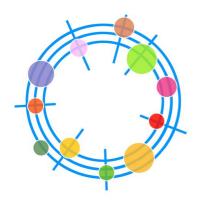
### NYPL Map Warper



### **Building Inspector**

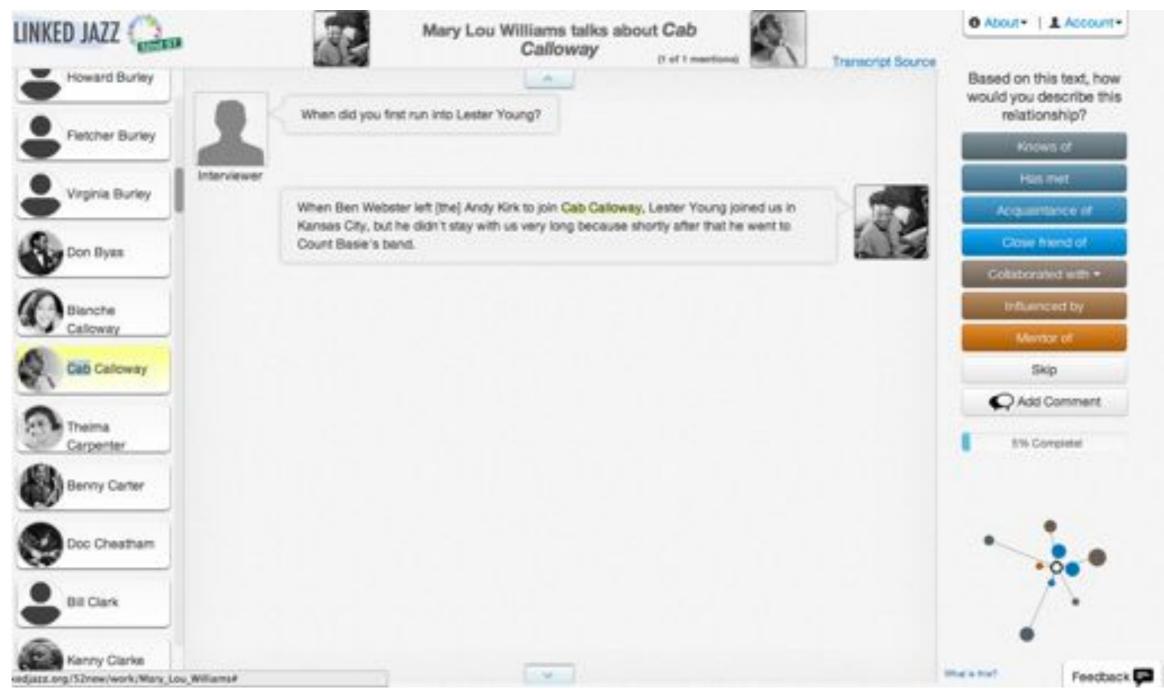


### http://maps.nypl.org/ http://buildinginspector.nypl.org/



## Relationship Classifying

### Linked Jazz 52nd Street



### http://linkedjazz.org/52ndStreet/



# Expert Sourcing

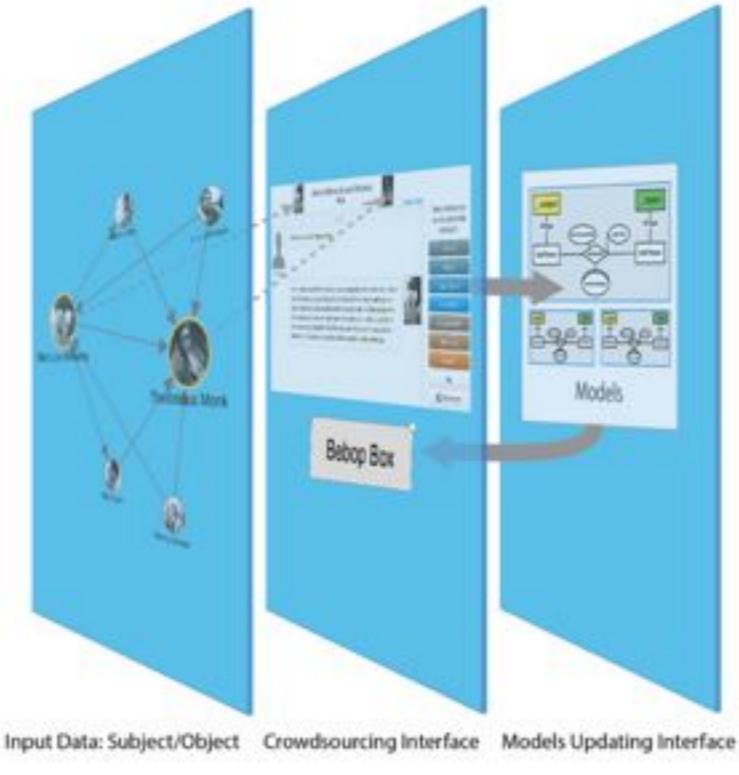
I think it was the year of 1930 in Kansas City. He was traveling with a show somewhat like a medicine show. The music was so great in Kansas City so he stopped off there. They had opened up a new night club called the Subway or something like that in Kansas City and I met Thelonious Monk there and he was playing the same way he plays now. No one understood it. I used to hang out with him and we became great friends then. During that period Lester Young, Herschel Evans, and Count Basie and all the musicians used to go down to the Subway to hear Thelonious Monk play.



### BeBop Box (purposed)



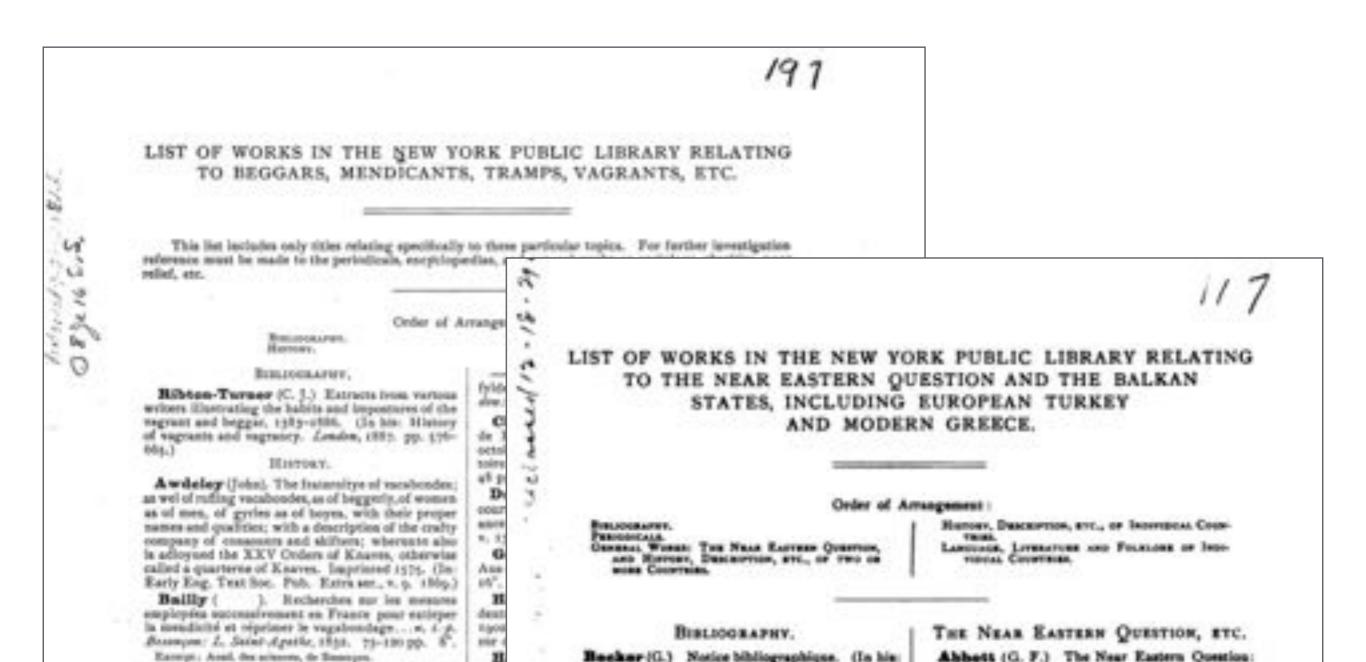
## Expert Sourcing



### BeBop Box (purposed)



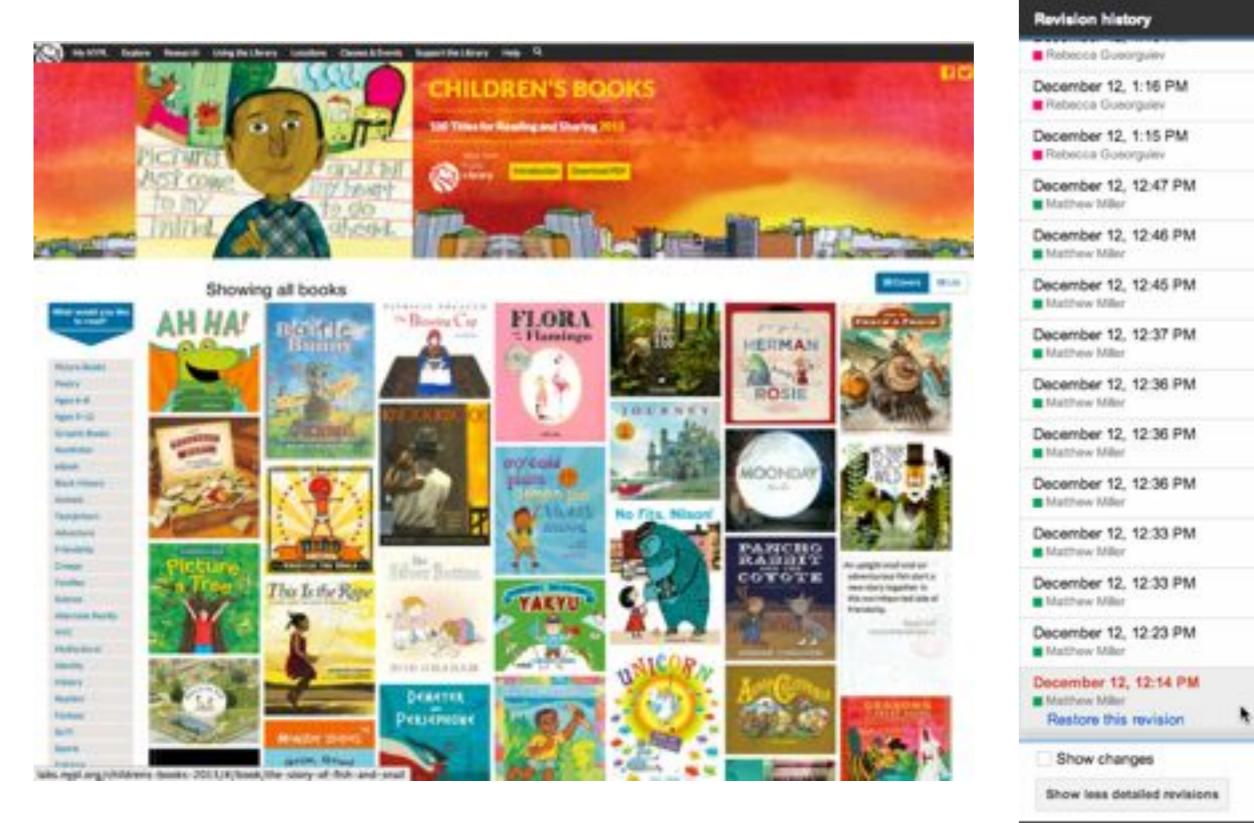
## Staff Collaboration





## Staff Collaboration

×





# Public Library Staff Collaboration

- Enrich existing records.
- Build connections.
- Collaboratively remediate.
- Ecco! Demo



## Public Library Staff Collaboration

# bit.ly/eccodemo

## Thanks!

- <u>matthewmiller@nypl.org</u>
- @thisismmiller
- <u>http://labs.nypl.org</u>
- <u>http://linkedjazz.org</u>
- <u>https://github.com/thisismattmiller</u>

Check List designed by Garrett Knoll, Network designed by Jessica Coccimiglio, Plumber designed by Dan Hetteix, Link designed by Martin Chapman Fromm, Atom designed by Eric Bird, from the thenounproject.com