Data for a Post-Silo Age Part 2

Linked Data Integration

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Linked Open Data

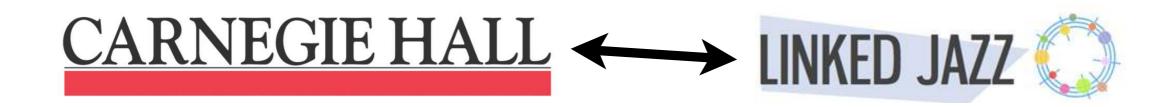




Linked Jazz Meets Carnegie Hall

Pilot study goals:

- Interlinking: identifying Carnegie Hall performers in Linked Jazz network
- Visualization of shared relationships among the matches
- Explore possibilities and identify problems in data integration process

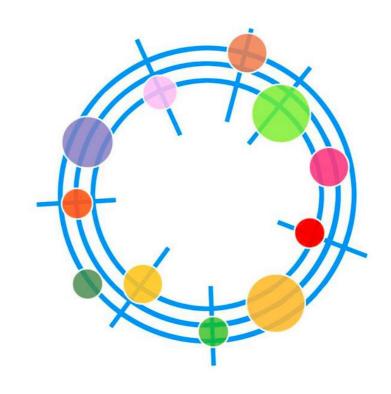








- 90,000 performers
- 50,000 events
- 16,000 composers
- · 85,000 musical works



Jazz Transcript Data

- 2006 people
- ~9000 "knows of" relationships



Data Subset - Carnegie Hall Jazz Events

- All 'jazz' events at Carnegie Hall from 1912 to 1955
- Date, time, title, venue (specific hall), performers, groups
- Sources include programs, concert calendars, newspapers





Carnegie Hall Event Triples

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<a href="http://data.carnegiehall.org/events/CH">http://data.carnegiehall.org/events/CH</a> 19460104 2030> <a href="http
<a href="http://data.carnegiehall.org/events/CH">http://data.carnegiehall.org/events/CH</a> 19470316 0000> <a href="http://durl.org/ontology/mo/performer">http://dbpedia.org/resource/Lionel Hampton</a> .
<a href="http://data.carnegiehall.org/events/CH">http://data.carnegiehall.org/events/CH</a> 19440402 2030> <a href="http://durl.org/ontology/mo/performer">http://dbpedia.org/resource/Mezz Mezzrow</a>.
<a href="http://data.carnegiehall.org/events/CH 19431211 2045"> <a href="http://data.carnegiehall.org/events/CH 19431211"> <a href="http://data.carnegiehall.org/events/CH 19431211"> <a href="http://data.carnegiehall.org/events/CH 19431211"> <a href="http://data.carnegiehall.org/events/CH 19431211"> <a href="http://data.carnegiehall.org/events/CH 1943121"> <a href=
<a href="http://data.carnegiehall.org/events/CH">http://data.carnegiehall.org/events/CH</a> 19490220 2030> <a href="http://durl.org/ontology/mo/performer">http://dbpedia.org/resource/Symphony Sid>...</a>.
<a href="http://data.carnegiehall.org/events/CH 19460603 2030"> <a href="http://data.carnegiehall.org/events/CH 19460603 2030"
<a href="http://data.carnegiehall.org/events/CH">http://data.carnegiehall.org/events/CH</a> 19441225 1730> <a href="http://data.carnegiehall.org/events/CH">http://data.carnegiehall.org/events/CH</a> 19441225 1730> <a href="http://purl.org/ontology/mo/performer">http://data.carnegiehall.org/events/CH</a> 19441225 1730> <a href="http://purl.org/ontology/mo/performer">http://data.carnegiehall.org/events/CH</a> 19441225 1730> <a href="http://purl.org/ontology/mo/performer">http://data.carnegiehall.org/events/CH</a> 19441225 1730> <a href="http://purl.org/ontology/mo/performer">http://data.carnegiehall.org/events/CH</a> 19441225 1730> <a href="http://purl.org/ontology/mo/performer">http://purl.org/ontology/mo/performer</a> > <a href="http://data.carnegiehall.org/events/chi.html">http://data.carnegiehall.org/events/chi.html</a> 19441225 1730> <a href="http://purl.org/ontology/mo/performer">http://purl.org/ontology/mo/performer</a> > <a href="http://data.carnegiehall.org/events/chi.html">http://purl.org/ontology/mo/performer</a> > <a href="http://data.carnegiehall.org/events/chi.html">http://data.carnegiehall.org/events/chi.html</a> <a href="http://data.carnegiehall.org/events/chi.html">http://data.car
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<a href="http://data.carnegiehall.org/events/CH">http://data.carnegiehall.org/events/CH</a> 19550316 2030> <a href="http://durl.org/ontology/mo/performer">http://dbpedia.org/resource/Duke Ellington</a>.
<a href="http://data.carnegiehall.org/events/CH">http://data.carnegiehall.org/events/CH</a> 19471129 2030> <a href="http
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<a href="http://data.carnegiehall.org/events/CH">http://www.w3.org/2000/01/rd.-schema#label</a> "Benefit: Sydenham Hospital"
<a href="http://data.carnegiehall.org/events/CX">http://data.carnegiehall.org/events/CX</a> 19550403 0000> <a href="http://purl.org/ontology/mo/performer">http://dbpedia.org/resource/Pearl
<a href="http://data.carnegiehall.org/events/">http://data.carnegiehall.org/events/</a>, H 19510928 1945> <a href="http://www.w3.org/2000/01/rif-schema#label">http://data.carnegiehall.org/events/</a>, H 19510928 1945> <a href="http://www.w3.org/2000/01/rif-schema#label">http://www.w3.org/2000/01/rif-schema#label</a> "Jazz Concert featuring Duke Ellington and Others"@en
```

```
/CH 19470316 2030
```

/performer

/Ella Fitzgerald

Subject

Predicate

· Object



Object

Linked Jazz People Triples

Subject

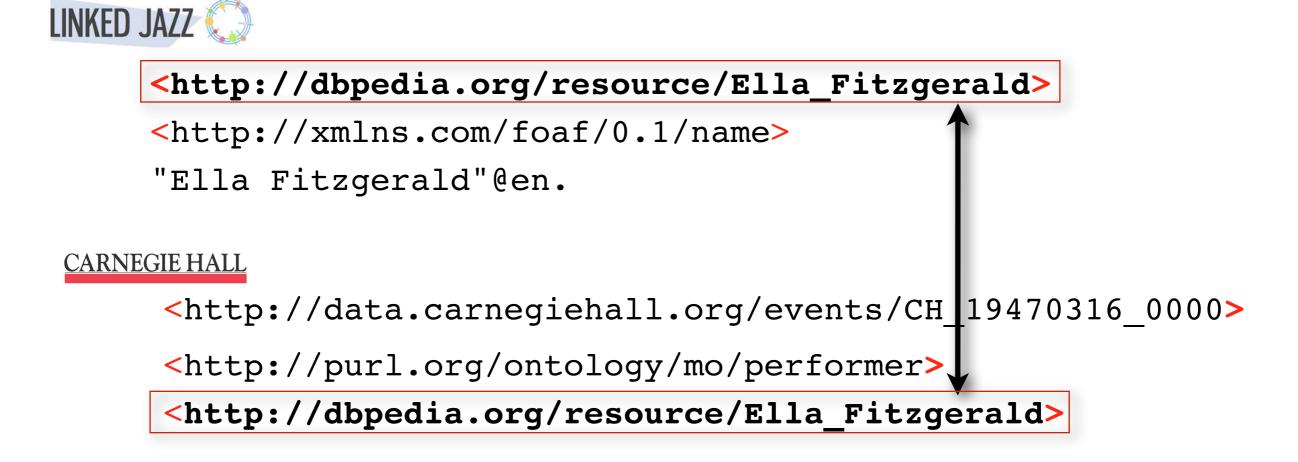
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<http://dbpedia.org/resource/John Coltrane> <http://xmlns.com/foaf/0.1/name> "John Coltrane"@en .
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<http://dbpedia.org/resource/Wynton Marsalis> <http://xmlns.com/foaf/0.1/name> "Wynton Marsalis"@en .
<http://dbpedia.org/resource/Miles Davis> <http://xmlns.com/foaf/0.1/name> "Miles Davis"@en .
<http://dbpedia.org/resource/Billie Holiday> <http://xmlns.com/foaf/0.1/name> "Billie Holiday"@en .
<http://dbpedia.org/resource/Rodney Kendrick> <http://xmlns.com/foaf/0.1/name> "Rodney Kendrick"@en .
<http://dbpedia.org/resource/Thad Jones> <http://xmlns.com/foaf/0.1/name> "Thad Jones"@en .
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<http://dbpedia.org/resource/Lionel Hampton> <http://xmlns.com/foaf/0.1/name> "Lionel Hampton"@en .
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<a href="http://dbpedia.org/resource/Joe Williams" (jazz singer)"> <a href="http://xmlns.com/foaf/0.1/name"> "Joe Williams"@en .</a>
<http://dbpedia.org/resource/James Moody (saxophonist)> <http://xmlns.com/foaf/0.1/name> "James Moody"@en .
<a href="http://dbpedia.org/resource/Ella Fitzgerald">http://xmlns.com/foaf/0.1/name</a> "Ella Fitzgerald"@en.
<a href="http://dbpedia.org/resource/Charges Davis (flute player)"> <a href="http://xmlns.com/foaf/0.1/nme"> "Charles Davis"@en .</a>
<http://dbpedia.org/resource/Son/ky Rollins> <http://xmlns.com/foaf/0.1/name> "Sonny Rollins"@en .
<http://dbpedia.org/resource/Syn Ra> <http://xmlns.com/foaf/0.1/name> "Sun Ra"@en .
  /Ella Fitzgerald
                                                    /name
                                                                           "Ella Fitzgerald"
```

Predicate



Step 1: Finding People Matches

Find matching DBpedia URIs between datasets:



=268 matches!



Not all performers in Carnegie Hall event triples have URIs that can be matched to Linked Jazz

CARNEGIE HALL

<http://data.carnegiehall.org/names/Fats_Waller_His_Orchestra>
=
<http://dbpedia.org/resource/Fats_Waller>
LINKED JAZZ



Use Carnegie Hall "address book" data describing ALL performers (74,000+ triples)

-dates of birth, places of birth, instruments, professions, etc.

This data includes name in "string" form (not URI):

Python Human Name Parser...

```
"full name": "Willie " the Lion" Smith",
    "first name": "Willie",
    "last name": "Smith"
}
```

=264 matches!



Data Clean-up

Removing duplicates, total matches = 373

New dataset of performers with their associated URIs from Linked Jazz

Step 2: From matches, pull "knows of" relationships Linked Jazz data



CSV

http://dbpedia.org/resource/Mary_Lou_Williams>	http://purl.org/vocab/relationship/knowsOf	http://dbpedia.org/resource/Max_Roach .		
http://dbpedia.org/resource/Mary_Lou_Williams>	http://purl.org/vocab/relationship/knows0f	http://linkedjazz.org/resource/Harris_Le	<u>. vy</u>	
http://dbpedia.org/resource/Mary_Lou_Williams>	http://purl.org/vocab/relationship/knows0f	http://id.loc.gov/authorities/names/n830) <u>56867</u> > .	
http://dbpedia.org/resource/Mary_Lou_Williams	http://purl.org/vocab/relationship/knows0f	http://dbpedia.org/resource/Kenny_Clarke	> .	
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http://dbpedia.org/resource/Mary_Lou_Williams>	<pre>http://purl.org/vocab/relationship/knows0f></pre>	<a href="http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/resource/Al_Hall_(muse-http://dbpedia.org/re</td><td>•</td></tr><tr><td>http://dbpedia.org/resource/Mary_Lou_Williams></td><td>http://purl.org/vocab/relationship/knowsOf	http://dbpedia.org/resource/Kai_Winding	Mary Lou Will
http://dbpedia.org/resource/Mary_Lou_Williams>				
http://dbpedia.org/resource/Mary_Lou_Williams>	http://purl.org/vocab/relationship/knowsOf	http://dbpedia.org/resource/Woody_Herman	Mary Lou Will	
http://dhpadia.org/resource/Mary Lou Williams	<pre><http: knowsof="" org="" purl="" relationship="" wocsh=""></http:></pre>	Chttp://dhpadia.org/resource/Mickey Dokey		
http://dbpedia.org/resource/Mary_Lou_Williams>	http://purl.org/vocab/relationship/knowsOf	http://dbpedia.org/resource/Kenny_Dorham	iviary Lou will	
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http://dbpedia.org/resource Mary_Lou_Williams>	http://purl.org/vocab/relationship/knows0f	http://dbpedia.org/resource/Katherine_Di	Mary Lou Wil	
<pre>http://dbpedia.org/resource/Mary_Lou_Williams></pre>	http://purl.org/vocab/relati nship/knowsOf>	http://id.loc.gov/authorities/names/n920		
			Mary Lou Will	
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			IVIALY LOU WILL	

illiams Fats Navarro Blanche Calloway illiams illiams David Stone Martin illiams Jo Jones Stumpy Brady illiams illiams Alvin Ailey Lena Horne illiams illiams Kenny Durham illiams Johnny Hodges illiams Van Cliburn Melba Liston illiams illiams Johnny Garrett Al Hall illiams Sarah Vaughan illiams illiams Hot Lips Page Ted Heath illiams George Wein illiams Mary Lou Williams J. C. Heard Mary Lou Williams Milton Orent Peggy Mellon Hitchcock Mary Lou Williams Willis Scruggs Mary Lou Williams Edmond Hall Mary Lou Williams Miles Davis Mary Lou Williams Johnny Dankworth Mary Lou Williams

Howard Burley

Joe Smith

Joe Turner

Earl Hines

Mary Lou Williams

Mary Lou Williams

Mary Lou Williams

Mary Lou Williams

/Mary Lou Williams

/knowsOf /Lena Horne

Subject **Predicate Object**

From RDF triples to CSV using Python

Step 3: Create relationships for people who played in the same CH event together



Event-performer triple:

```
<http://data.carnegiehall.org/events/CH_19490211_2330>
<http://purl.org/ontology/mo/performer>
<http://dbpedia.org/resource/Ella_Fitzgerald> .
```

Event-performer dictionary:

Performer relationships:

	_	
Ella Fitzgerald	Oscar Peterson	
Ella Fitzgerald	Ray Brown	
Ella Fitzgerald	Charlie Shavers	
Ella Fitzgerald	Herb Ellis	
Ella Fitzgerald	J. C. Heard	
Ella Fitzgerald	Benny Carter	
Ella Fitzgerald	Roy Eldridge	
Ella Fitzgerald	Flip Phillips	
Ella Fitzgerald	Lester Young	
Ella Fitzgerald	Gene Krupa	
Ella Fitzgerald	Ben Webster	
Ella Fitzgerald	Shadow Wilson	
Ella Fitzgerald	Joe Newman	
Ella Fitzgerald	Illinois Jacquet	
Ella Fitzgerald	Buddy Rich	
Ella Fitzgerald	Hank Jones	
Ella Fitzgerald	Barney Kessel	
Ella Fitzgerald	Milt Jackson	
Ella Fitzgerald	Dizzy Gillespie	
Ella Fitzgerald	Charlie Parker	
Ella Fitzgerald	James Moody	
Ella Fitzgerald	Al McKibbon	
Ella Fitzgerald	Chano Pozo	
Ella Fitzgerald	Leonard Feather	
Ella Fitzgerald	Woody Herman	
Ella Fitzgerald	Frankie Laine	
Ella Fitzgerald	Louis Jordan	
Ella Fitzgerald	Lennie Tristano	
Ella Fitzgerald	Bud Powell	
Ella Fitzgerald	Lee Konitz	
Ella Fitzgerald	Ralph Burns	
Ella Fitzgerald	Kai Winding	



Step 4: Identify relationships that exist in both datasets

- Both Linked Jazz "knowsOf" relationship and played at the same Carnegie Hall event

- The CH data shows that Ella Fitzgerald and Roy Eldridge performed at a 1953 Carnegie Hall event

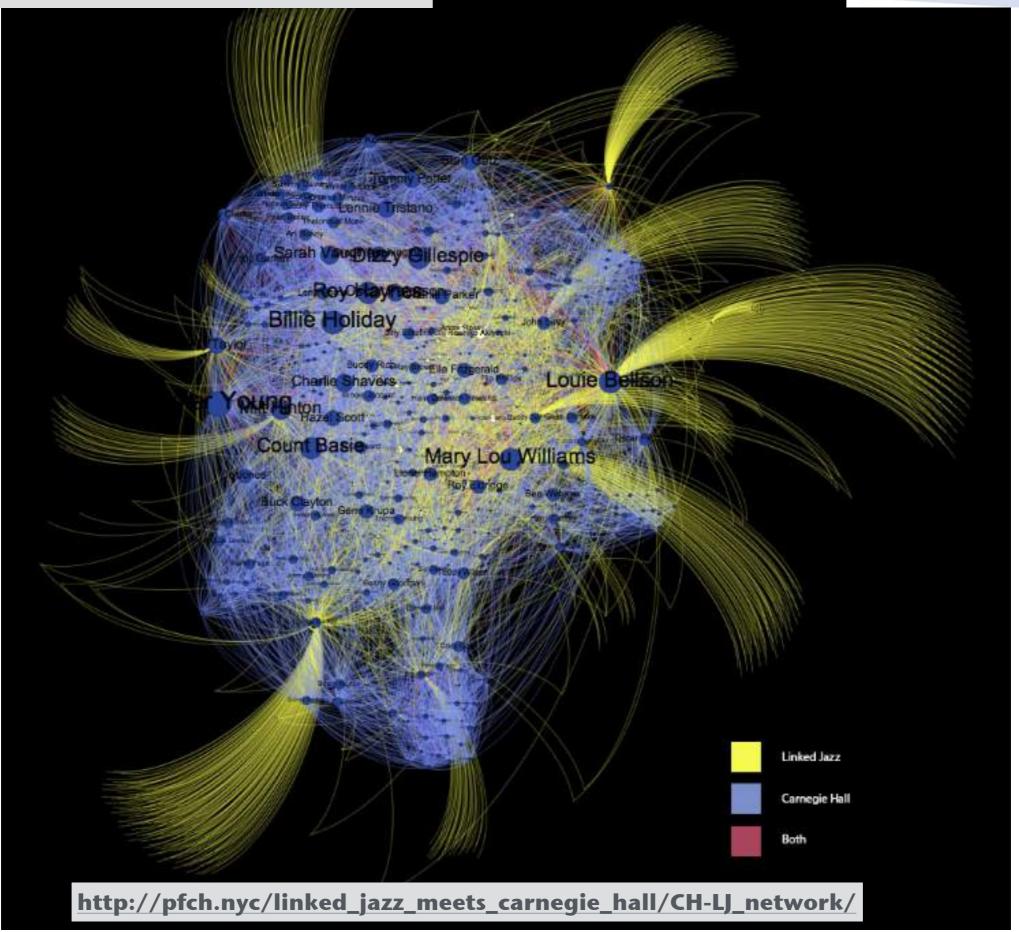
Ella Fitzgerald Buddy DeFranco Toshiko Akiyoshi Louie Bellson

Roy Haynes

Total = 293 shared relationships

Gephi Visualization







Next Steps

```
<http://data.carnegiehall.org/events/CH_19490211_2330>
<http://www.w3.org/2000/01/rdf-schema#label>
"Jazz at the Philharmonic"@en
Label: "Jazz at the Philharmonic"
Philharmonic"
```

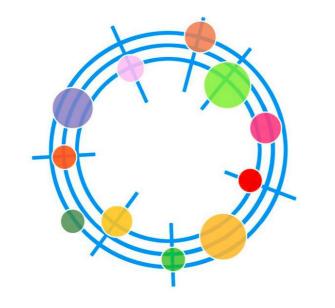
```
<http://data.carnegiehall.org/events/CH_19490211_2330>
<http://purl.org/dc/terms/date> "1949-02-11T23:30:00-05:00"^^
<http://www.w3.org/2001/XMLSchema#dateTime>
Date: Feb.11,
```

```
<http://data.carnegiehall.org/events/CH_19480413_2030>
<http://purl.org/ontology/mo/performer>
<http://dbpedia.org/resource/Ella_Fitzgerald>
Performer/s
```



Conclusion

- Learn by doing! Python, SPARQL, data wrangling, trial and error
- Best practices not well established
 - -develop methodologies
 - -contribute to community by sharing research
- Get involved with the LOD Research Group at Pratt



website: linkedjazz.org

email: linkedjazz@linkedjazz.org

twitter: @linkedjazz



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- William Levay and Molly Seegers