# Graduate Student Syncopation:



(http://dbpedia.org/resource/Lil Hardin Armstrong>

%http://dbpedia.org/resource/Lil Hardin Armstrong>

<http://dbpedia.org/resource/Johnny St. Cyr>

<http://dbpedia.org/resource/Louis Armstrong>

<http://dbpedia.org/resource/Johnny Dodds>

<http://cdm16313.contentdm.oclc.org/cdm/ref/collection/p</pre>

Chttp://cdm16313.contentdm.oclc.org:80/cdm/ref/collection/

DATASET MAPPING SPREADSHEET, MUSIC GROUP DIAGRAM (ABOVE), AND IMAGE DESIGN (LEFT)

foaf:name

owl:sameAs

owl:sameAs

chema:birthDate

chema:deathDate

bpedia-owl:birthPlace

b.info/standards/elementset/gnd#playedInstrumen

http://d-ib.info/standards/elementset/gnd#professionOrOc this is an array of

first name

full name

qualifier

dbpedia

birth state

birth country

death city

death state

death country

geoDeathPlace

geoBirthPlace

birth date (YYYY-MM-DD)

death date (YYYY-MM-DD

Icnaf

Linked Jazz

foaf:name

foaf:depiction

[list of relationship

Person or Group

Person or Group

Name: Last Name: First

Name: Full

Name: Alt

**DESIGN OF THE CLASS IMAGE** 

Properties:

owl:Thing rdf:type rdfs:Class

foaf:depiction

foaf:depicts

foaf:thumbnail

schema:image

Range:

Range:

schema:thumbnail

foaf:Image rdf:type rdfs:Class

owl:equivalentClass

schema:ImageObject rdf:type rdfs:Class

owl:equivalentProperty

foaf:Image

foaf:Image

foaf:Image

schema:ImageObject

schema:ImageObject

schema:ImageObject

schema:Thing

Name: Suffix

Date of Birth

Birthplace

Death place

Ethnicity

Instrument

Occupation

Thumbnail

Relationship

Band or group

Date of Death

<http://xmlns.com/foaf/0.1/depiction>

<http://xmlns.com/foaf/0.1/knows>

<http://dbpedia.org/resource/Kid Ory>

16313coll33/id/45>

o16313coll33/id/45>



#### **About Linked Jazz**

Linked Jazz is a research project investigating the application of Linked Open Data technologies to digital cultural heritage materials. Our goal is to uncover meaningful connections between documents and data related to the personal and professional lives of musicians and to develop broadly applicable tools and methods for working with Linked Open Data. At the heart of our work are the transcripts of oral history interviews with jazz musicians.

This poster details some of the contributions of Linked Jazz student team members Karen Li-Lun Hwang, William J. Levay, and Alexandra Provo during the 2014-2015 academic year.

## Merging Linked Open Data for Enrichment and Analysis

As more transcripts are processed, our dataset of interview-derived names from the world of jazz continues to grow.

Towards the end of 2014, Linked Jazz began focusing on the underrepresented careers of women in jazz. We started by targeting interviews with female jazz musicians found in archives. In order to open the possibility of exploring gender relationships with our tools, we tapped other Linked Open Data resources to enrich our dataset, using properties such as "sameAs" and Python scripts to query gender data from different resources. DBpedia categories, MusicBrainz, and VIAF authority clusters provide the semantic definition to allow automated mash-ups with our URI list of names. To date, the SPARQL endpoints and XML records of these three sources have provided gender information for 75% of our list. With more diverse resources entering the Linked Open Data cloud every year, researchers will be able to use tools like Linked Jazz to create datasets derived from archival materials and merge them with any open data from the cloud, offering a powerful environment for researchers to explore.

INTERVIEW WITH TOSHIKO AKIYOSHI BY ANTHONY BROWN. 2008

(SMITHSONIAN JAZZ ORAL HISTORY PROGRAM NEA JAZZ MASTERS)

Anthony

Brown

(Interviewer)

I think what Im trying to highlight here is that youre composing, so, several compositions, but

well talk about that later in the interview, your process of composition, et cetera. But the fact

Yeah, right. I think its, I started writing because, when I came to Boston I used to, of course, I

band or Count Basie band, would stay for two weeks, you know, at a club. You cant think of

that today, but.... I was always sitting in, I decided that when I, if somebody asked me to sit

let me sit in, Miles Davis would let me sit in, so on, so on. So ... but Diz had a big band in

those days, and Phil Woods was, I think, lead alto, and uh, Melba Liston was playing

in, I was going to sit in. You know, I decided that. So, I used to sit in with, Max (Roach) would

trombone. Anyway, uh, I was sitting in, playing, and I heard, "Bud Powell! Bud Powell! " When

I played people said, "Aw, shes Bud Powell! Shes Bud Powell! " And I started thinking, I said,

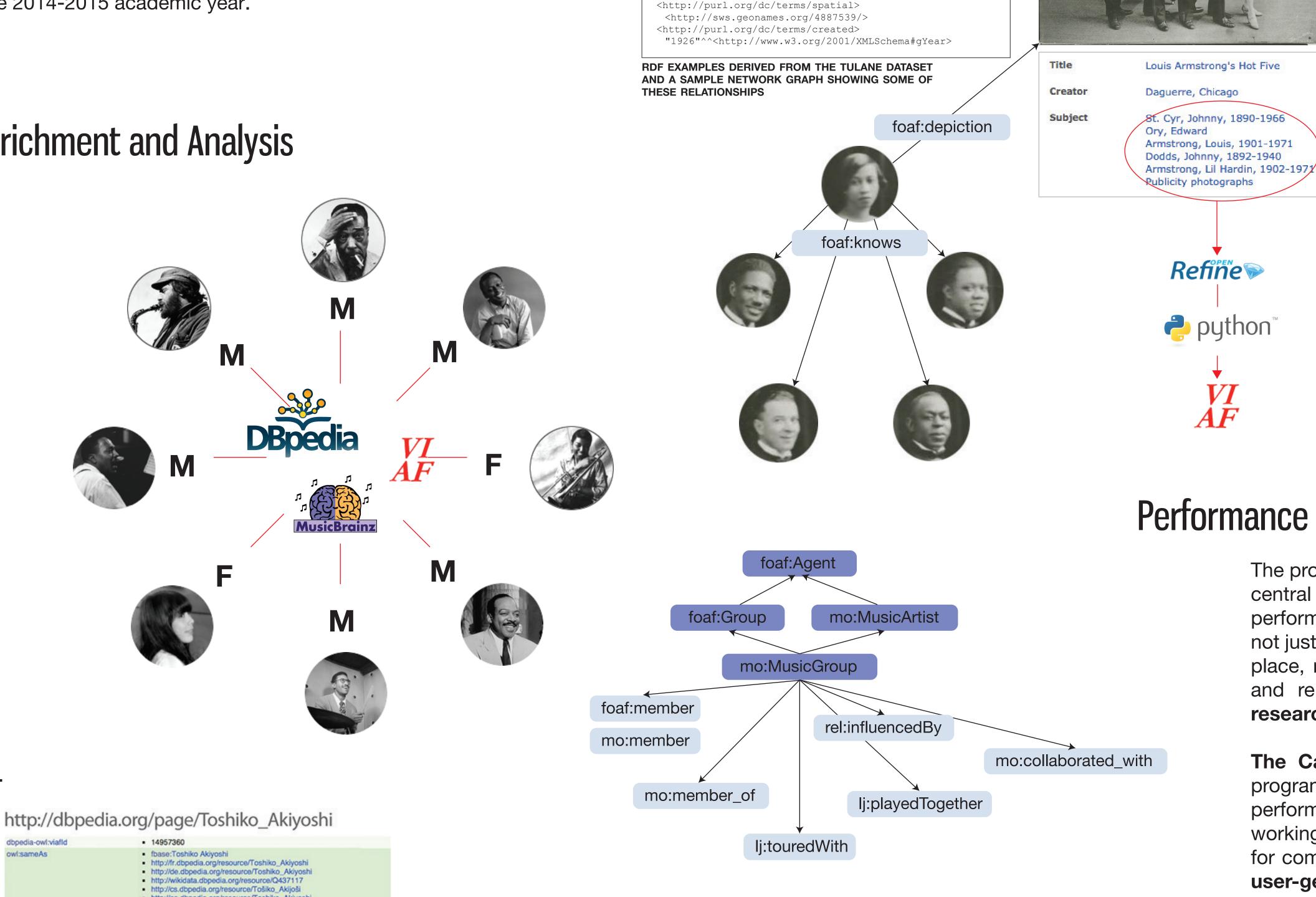
"I guess thats no good, I have to, you know, to try to find my own idiosyncrasy. " One of the

(reasons) I started writing, one of the things that, I think, thats the reason I started writing, to

develop my own idiosyncrasy. So writing was something I was never interested in before.

used to go every night to listen, and in those days like, uh, even the big bands, like Dukes

that, you know, you have several originals on this session, so....



#### Connecting Musicians Through the Photo Archive

Tulane University has a rich collection of historical photographs of jazz musicians living and performing in New Orleans and around the world. We received two tab-delimited text files from Tulane, metadata from The Hogan Jazz Archive Photography Collection and the Ralston Crawford Collection of Photography, their exported CONTENTdm system.

Some statistics: this dataset contains 1,787 images, at least 681 unique individuals, and more than 2,700 depictions. Depiction is the FOAF term that we later used as a predicate in our triples from this dataset. One group photograph might depict several individuals, and one individual might be depicted in several photographs. People depicted in the same photograph might be said to "know" each other in

Using Open Refine and Python scripts, we standardized the photograph metadata, reconciled names with VIAF, then described the photographs, and the people and relationships depicted, using RDF triples.

### Performance History Data & the Linked Jazz Ontology

The professional relationships between working jazz musicians is a central focus of the Linked Jazz project. Data about concert performances and recording dates gives us rich information about not just collaborations between musicians, but also about time and place, musical works, songs, and songwriters, and record labels and releases - all potential access points for users and researchers.

The Carnegie Hall Archives has a rich collection of concert programs, and archivist Rob Hudson has shared with us this performance history data expressed as RDF triples. We are also working with the author of BRIAN, a relational database application for compiling recording session-based discographies, to translate user-generated jazz discographies into linked data.

As we begin ingesting these new datasets to produce mashups, the need for a more robust, domain-specific ontology has arisen. During the development of our **52nd Street crowdsourcing tool** we created five new predicates describing relationships between musicians. Now, using the data model produced for the Carnegie Hall and BRIAN collaborations as a starting point, Linked Jazz has drafted an expanded inventory of RDF classes and predicates. We've begun to model new entities like music groups and images using RDFS (RDF Schema) and OWL.

Carnegie Hall

With thanks to Cristina Pattuelli, Matt Miller, the Linked Jazz team, and our collaborators. Special thanks to the musicians of jazz.

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