

FOAF in the Archive: The **LINKED JAZZ** Project

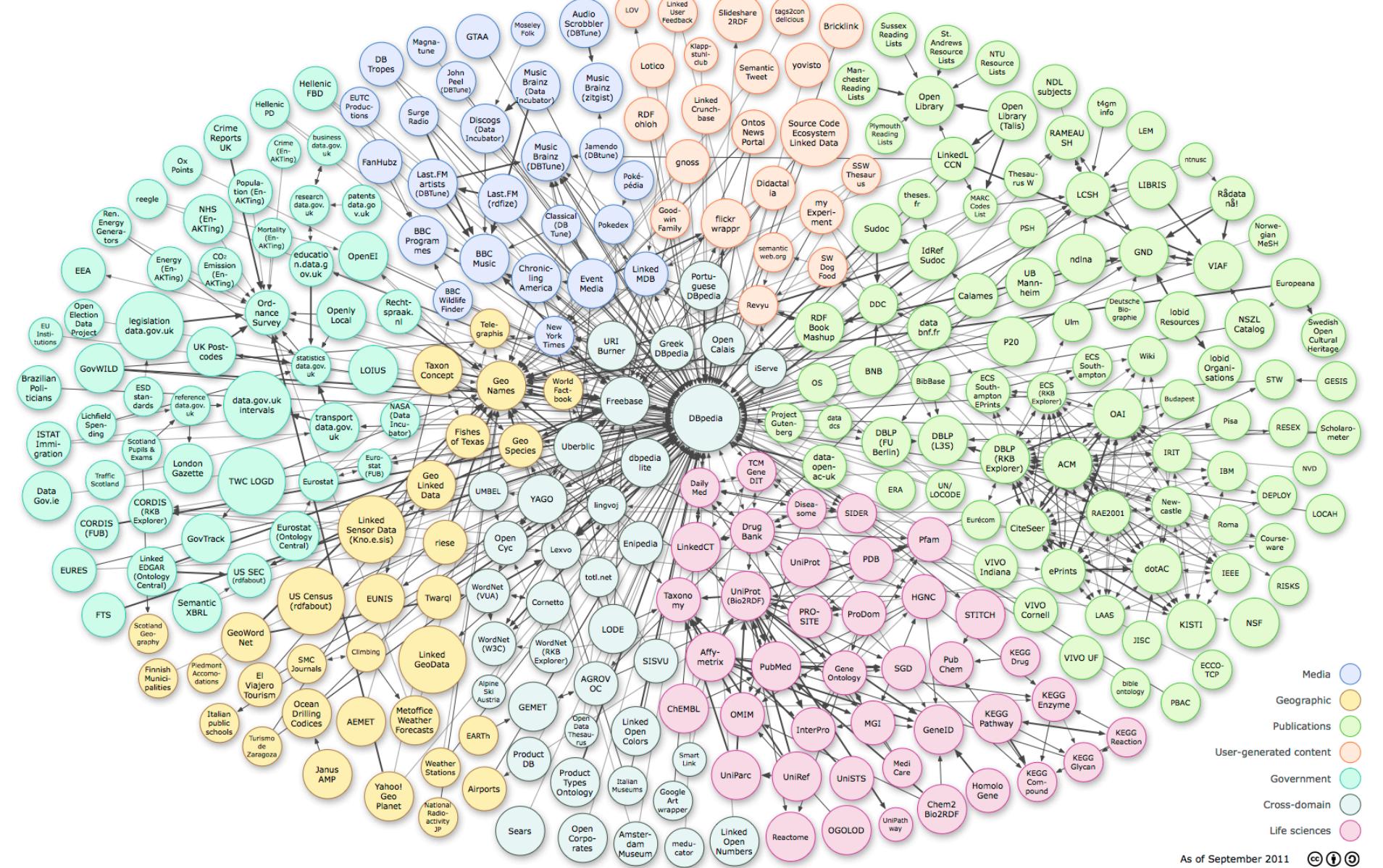


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Dallas, January 19, 2012

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Pratt Institute, New York, NY, USA

linking networks of people

Experimenting with the application of
Linked Open Data (LOD) technology
to digital archives of jazz history.



Linking Open Data cloud diagram, by Richard Cyganiak and Anja Jentzsch. <http://lod-cloud.net/>

As of September 2011 

project goals

1. To help **identify** and **give legibility** to the network of relationships among the jazz artists described in primary sources.

2. To **expose** archival data to the web in the form of LOD that would facilitate discovery and increase visibility of archival content beyond the boundaries of institutional repositories.

“A Great Day in Harlem”



Red Allen, Buster Bailey, Count Basie, Emmett Berry, Art Blakey, Lawrence Brown, Scoville Browne, Buck Clayton, Bill Crump, Vic Dickenson, Roy Eldridge, Art Farmer, Bud Freeman, Dizzy Gillespie, Tyree Glenn, Benny Golson, Sonny Greer, Johnny Griffin, Gigi Gryce, Coleman Hawkins, J.C. Heard, Jay C. Higginbotham, Milt Hinton, Chubby Jackson, Hilton Jefferson, Osie Johnson, Hank Jones, Jo Jones, Jimmy Jones, Taft Jordan, Max Kaminsky, Gene Krupa, Eddie Locke, Marian McPartland, Charles Mingus, Miff Mole, Thelonious Monk, Gerry Mulligan, Oscar Pettiford, Rudy Powell, Luckey Roberts, Sonny Rollins, Jimmy Rushing, Pee Wee Russell, Sahib Shihab, Horace Silver, Zutty Singleton, Stuff Smith, Rex Stewart, Maxine Sullivan, Joe Thomas, Wilbur Ware, Dickie Wells, George Wetling, Ernie Wilkins, Mary Lou Williams, Lester Young



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http://dbpedia.org/resource/Marian_McPartland

http://dbpedia.org/resource/Thelonious_Monk

http://dbpedia.org/resource/Mary_Lou_Williams

How many people does this artist know? Is this artist connected to another specific artist? What type of relationship do these artists have?

methodology

Create a dataset of RDF triples representing jazz artists and their connections that can be queried and visualized.

Sample: 12 transcripts of taped interviews with jazz musicians.

FOAF in the archive

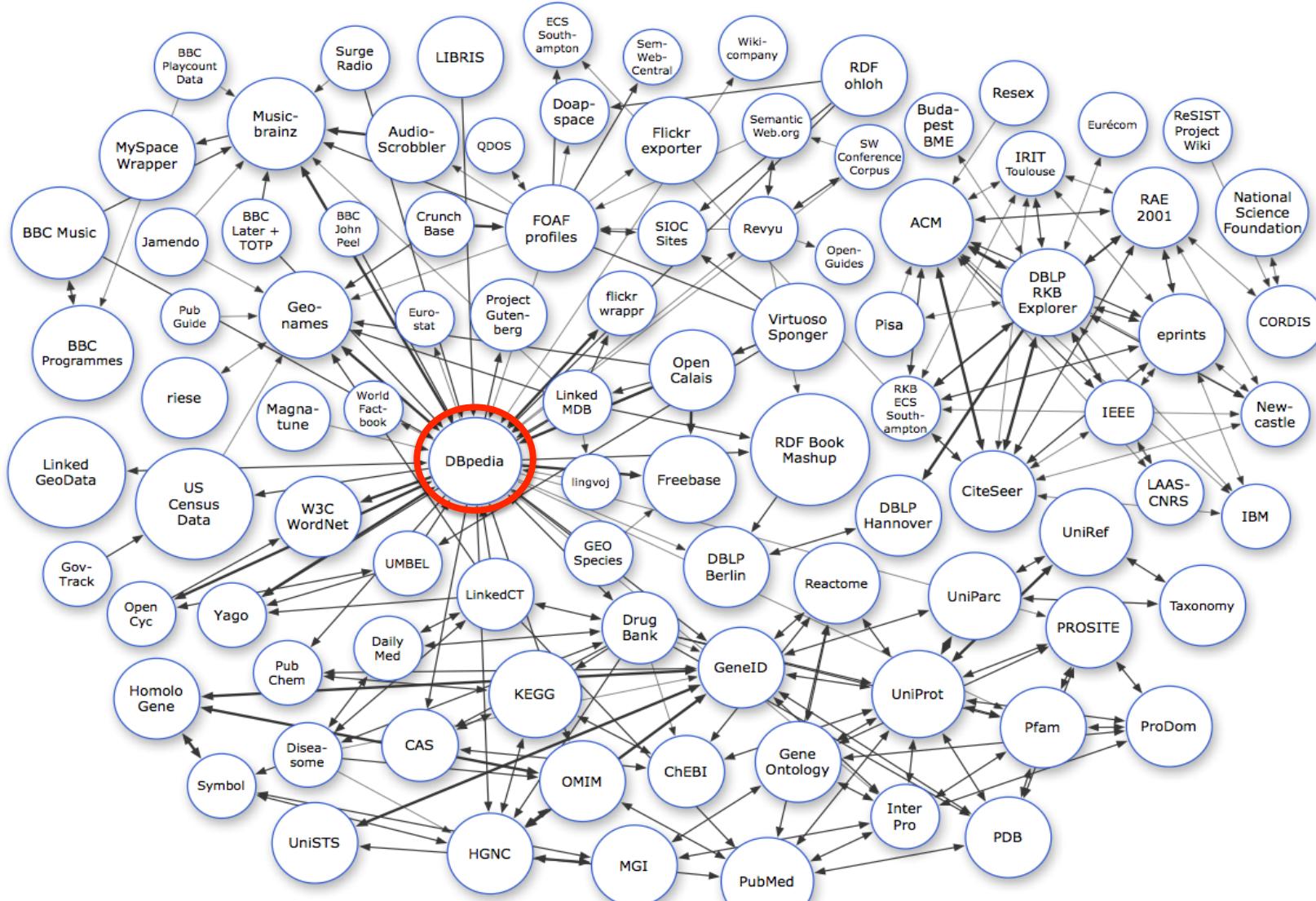
Friend of A Friend (FOAF) ontology
applied to represent relationships among
people from the past

- Core FOAF vocabulary (`foaf:knows`)
- Extension of FOAF

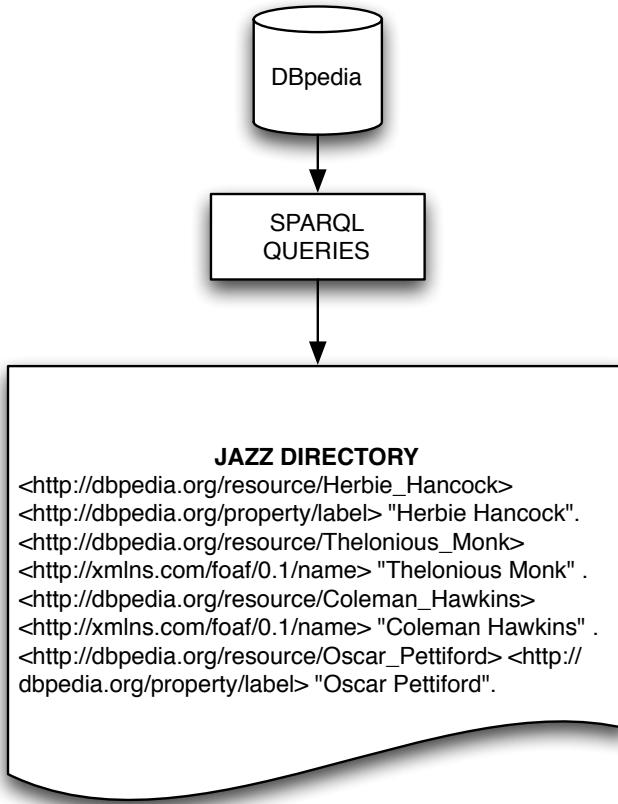
methods

- Create a directory of names.
- Find matches between names from the directory and the transcripts.
- Record the relationship between the interview subject and the resulting match in the format of an RDF triple.

Linked Data cloud

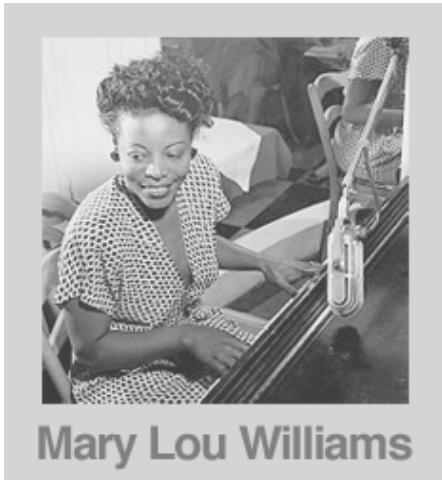


name directory



- Inconsistencies within DBpedia
- Refinement as an ongoing process
- 11,066 triples describing 6,444 individuals

<http://dbpedia.org/resource/Miles_Davis> <<http://xmlns.com/foaf/0.1/name>> "Miles Davis" .



Mary Lou Williams

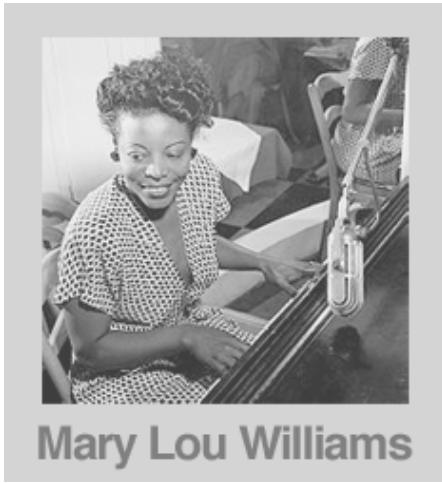
*"No, we jammed here. **Thelonious Monk**—I remember once one morning I got sleepy so I said, 'I'm going to bed.' When the guys left, the door was open and Monk rang the doorbell and he came inside [...] I screamed. He yelled too and ran out the door and ran in to the closet and the clothes fell on him..."*



Marian McPartland

*“...and this was the, like the biggest jazz festival ever. **Mary Lou Williams** played it and I played it and Toshiko Akiyoshi had her big band, and I mean it was a large event.”*

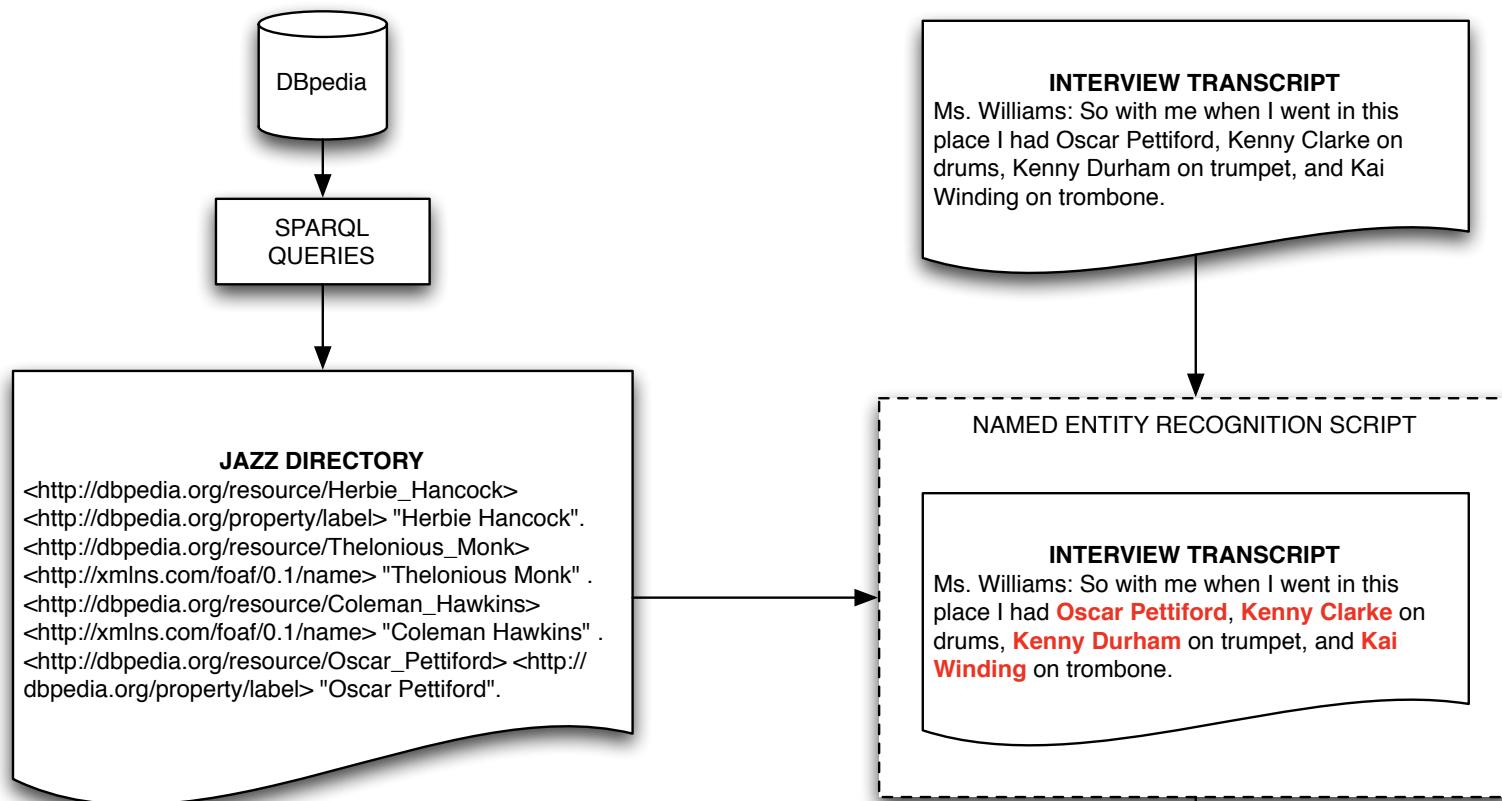




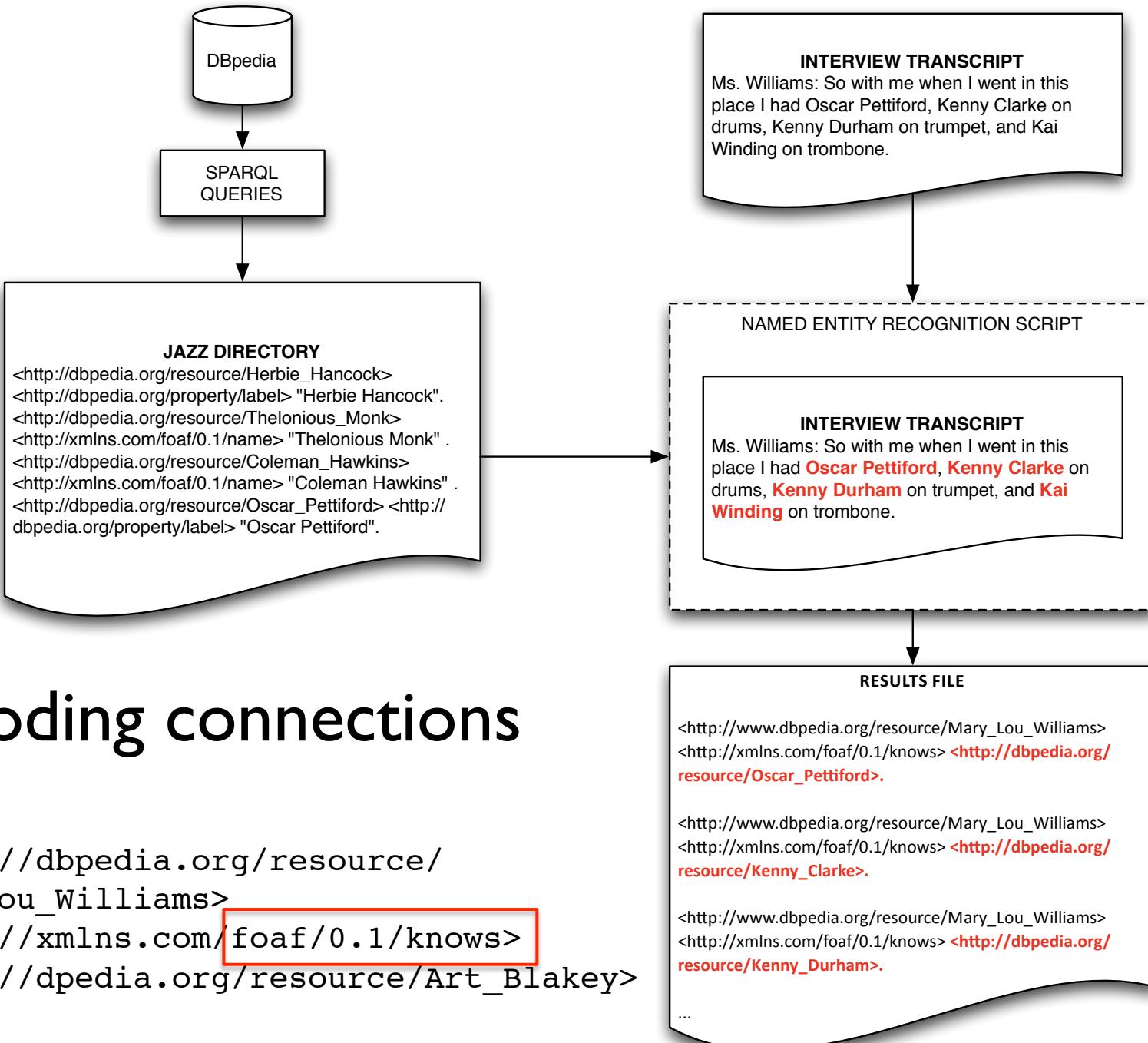
Mary Lou Williams

*“Later on after I met **Count Basie** and Art Tatum, Buck showed me a run that Art Tatum—it was his famous run. He made it from top to bottom and Buck had taught me that run.”*

searching and matching



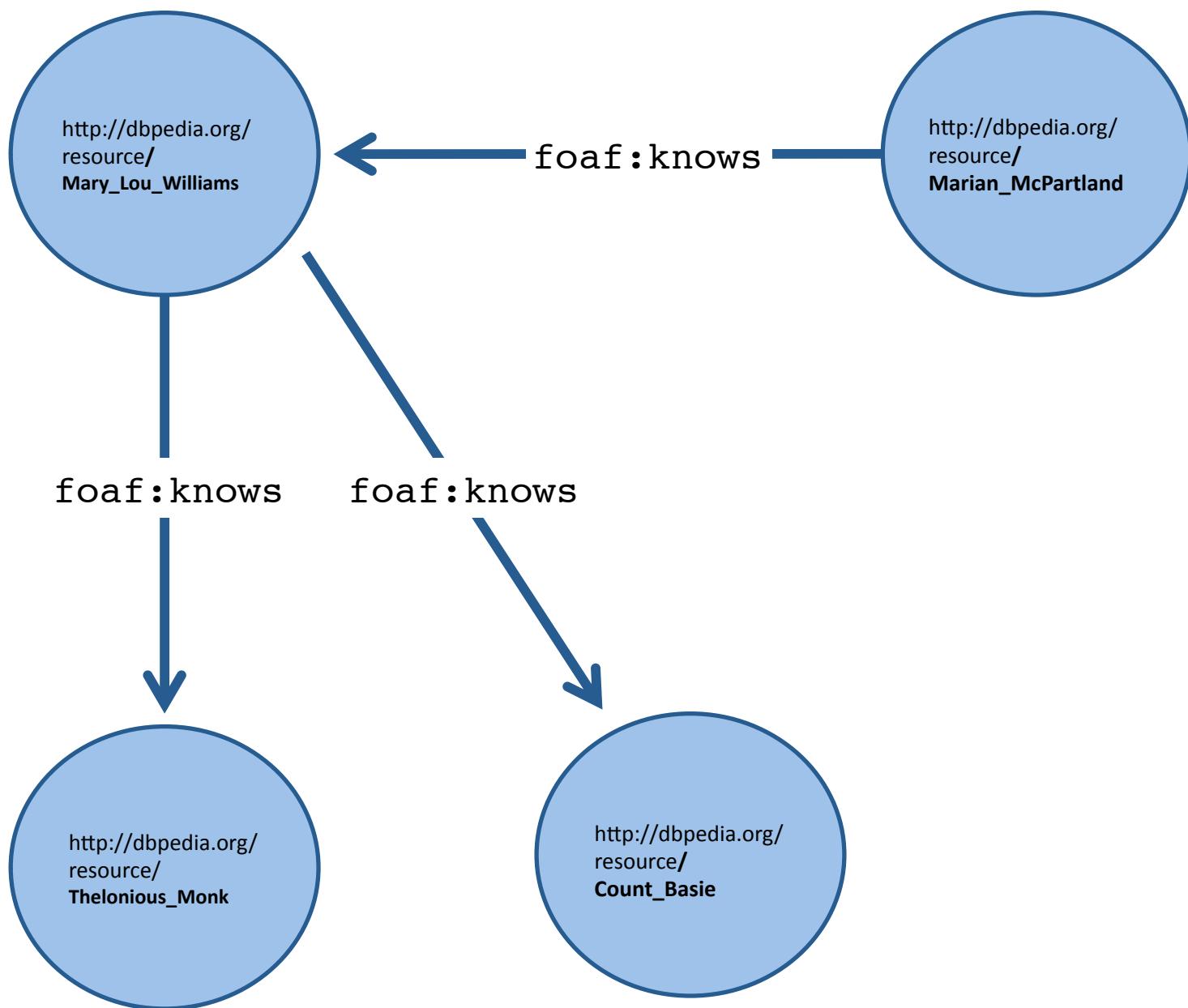
To search for and record the instance of the names, a Python script was written that parsed the jazz directory and searched for each name in the transcript.

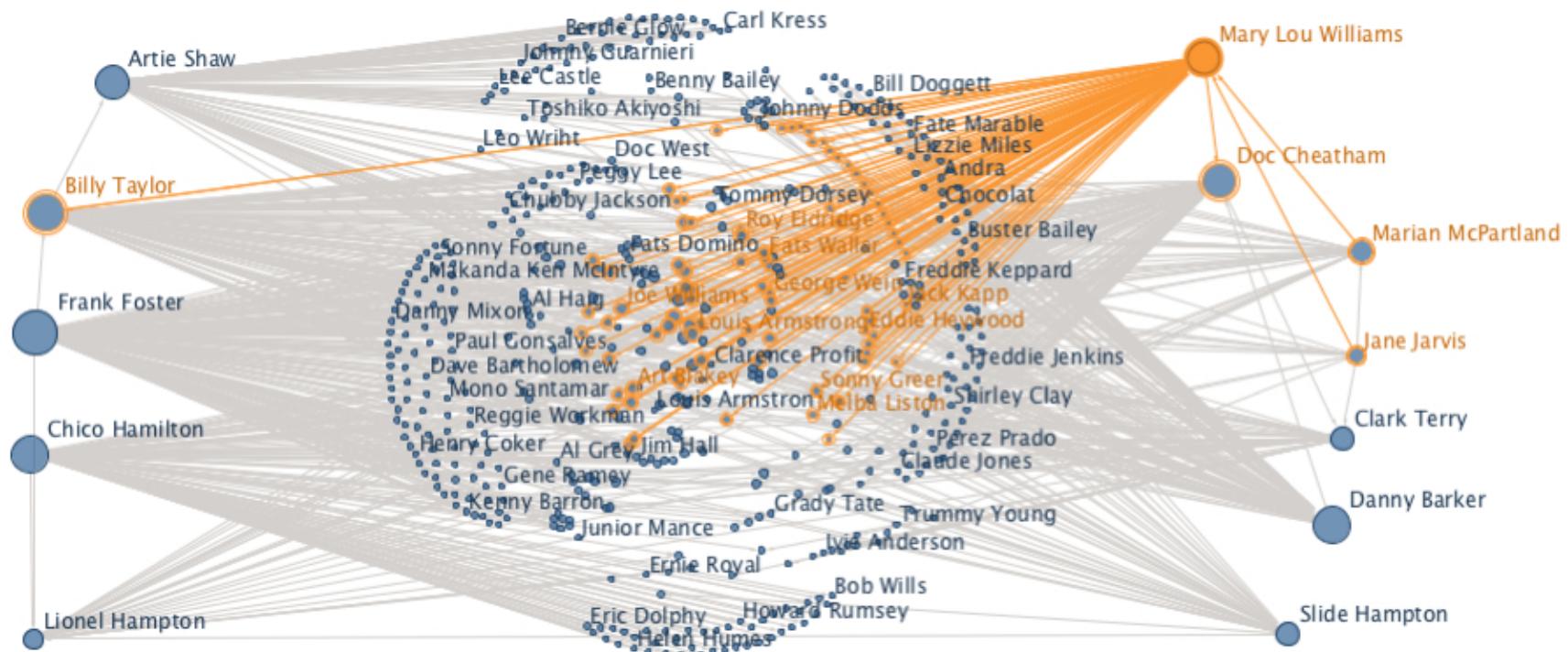


encoding connections

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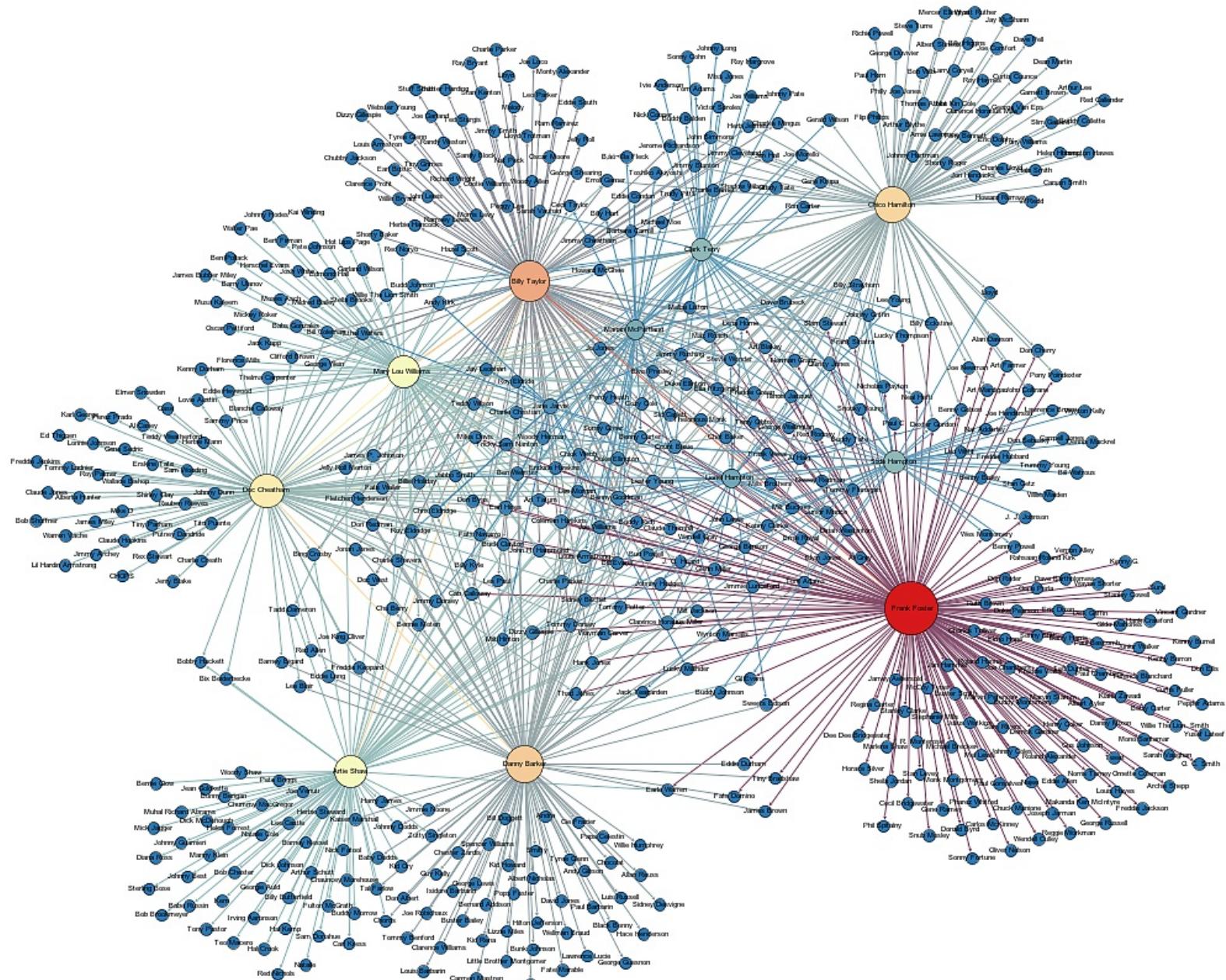
<http://dbpedia.org/resource/
Mary_Lou_Williams>
<http://xmlns.com/foaf/0.1/knows>
<http://dbpedia.org/resource/Art_Blakey>
  
```





LINKED JAZZ





LINKED JAZZ



degree of knowing someone

doesn't know

rel:knows_of

rel:knows_by_reputation

rel:knows_in_passing

rel:has_met

foaf:knows

rel:acquaintance_of

rel:close_friend_of

rel:influenced_by

mo:collaborated_with

rel:mentor_of



*“...the biggest jazz festival ever. **Mary Lou Williams** played it...”*

rel: knows of

*“Later on after I met **Count Basie**...”*

foaf: knows

*“**Jack Howard** was an influence as far as giving me strength on the piano... He taught me a lot of professional things it would have taken me years and years to learn.”*

rel: mentor of

*“No, we jammed here. **Thelonious Monk**—I remember once one morning I got sleepy so I said...”*

rel: close friend of

relationship refinement

Two combined approaches for refining and validating foaf:knows relationships:

- machine-driven
- human-driven

low hanging fruit

doesn't know

rel:knows_of

rel:knows_by_reputation

rel:knows_in_passing

rel:has_met

foaf:knows

rel:acquaintance_of

rel:close_friend_of

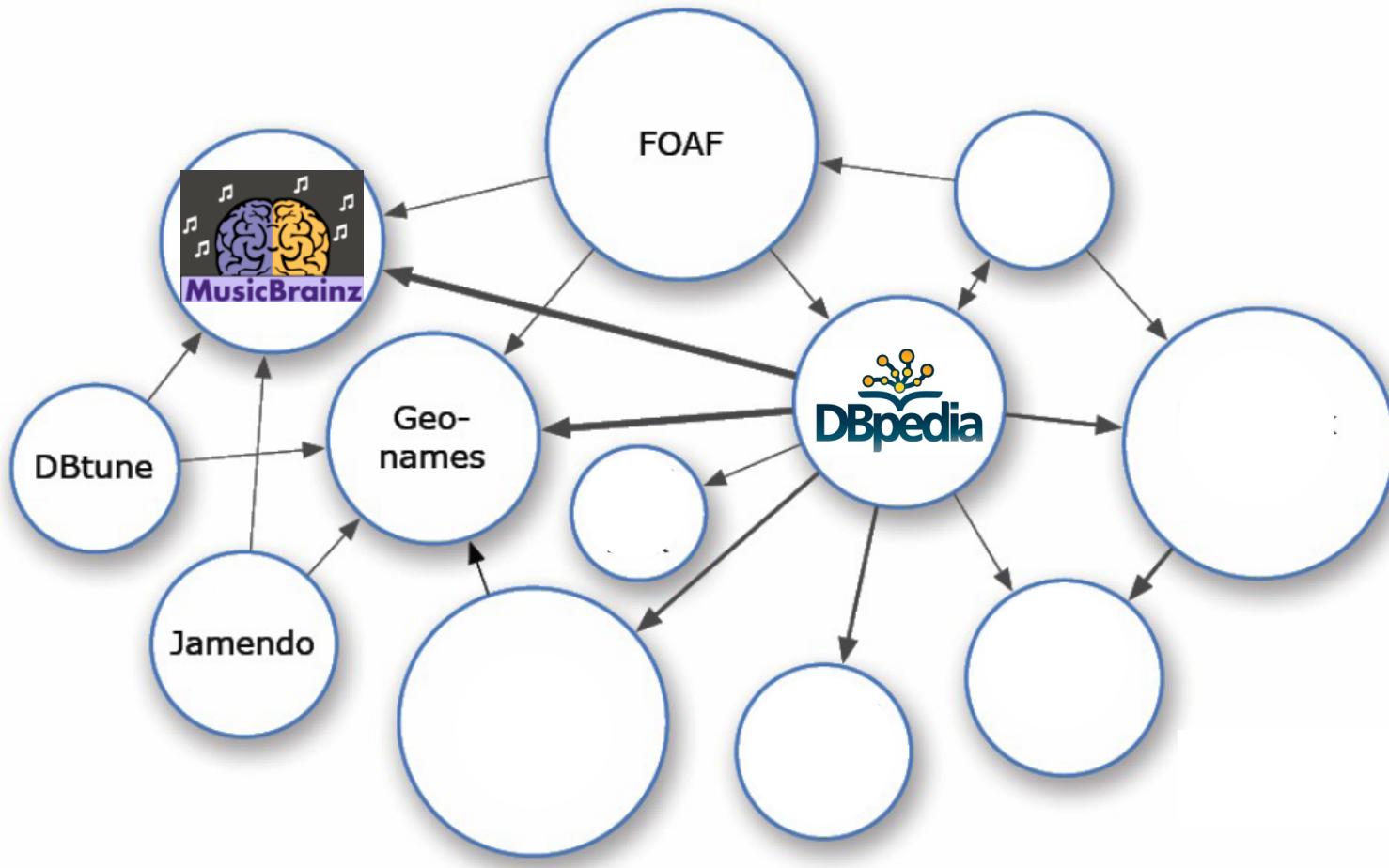
rel:influenced_by

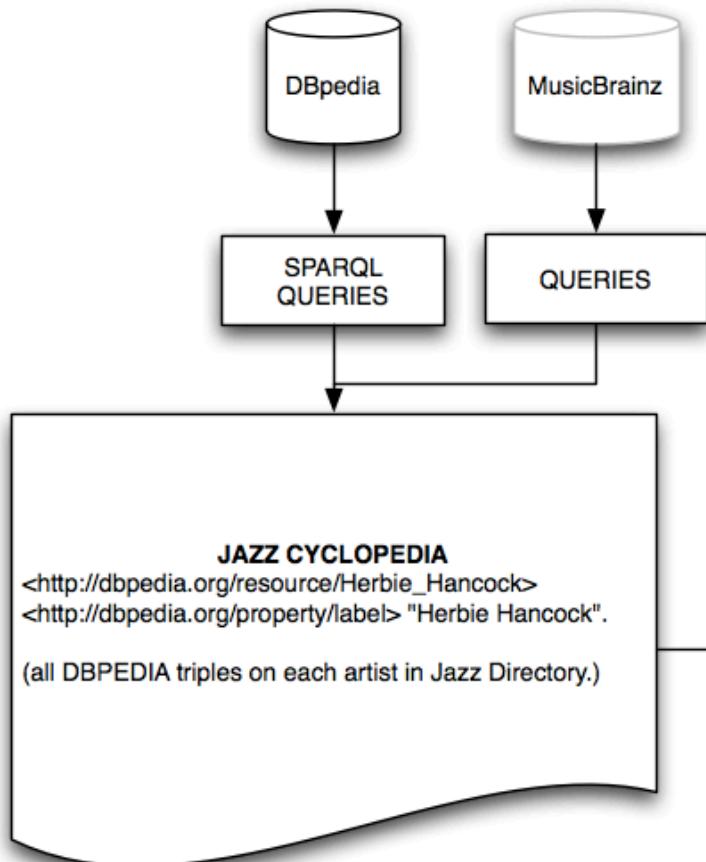
mo:collaborated_with

rel:mentor_of



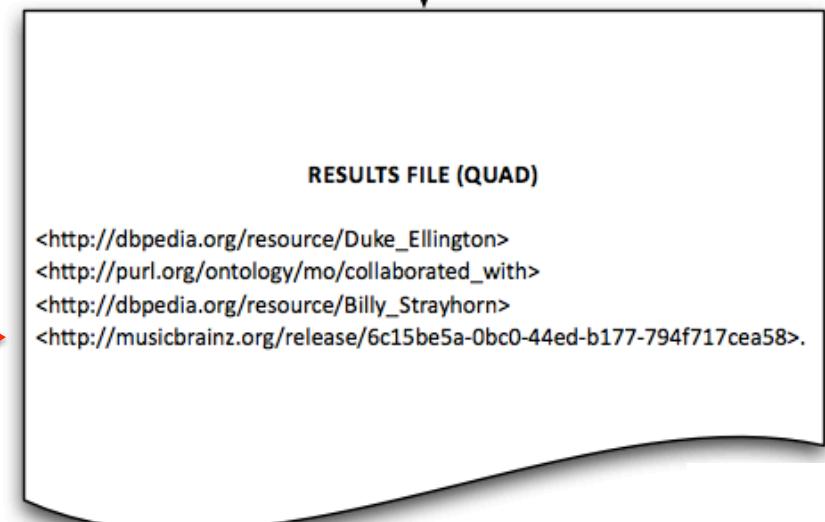
Public Linked Data Sources





The script searches discographies and album metadata for musicians and producers who contributed to recordings together. It then adds a triple to the dataset that connects musicians using **mo:collaborated_with**.

Script searches discographies and album metadata and matches collaborators with **mo:collaborated_with**. URI of album added to form quad.



Linked Jazz



[Sign up for an account](#)

Full Name

Email

Email

[Get to work](#)

 [Sign in with Twitter](#)

 [Sign in with Facebook](#)

Lorem ipsum dolor sit amet, consectetur adipiscing elit.
Phasellus nec nibh lectus. Maecenas eu augue diam. Sed varius
metus eget magna cursus consequat. Fusce et vehicula ante. In
semper suscipit sapien, sed auctor augue ornare sit amet.

Interview Transcripts

Below are the interview transcripts currently contained in this archive.



Mary Lou Williams

Interviewed by John S. in 1973

[View details »](#)

Buddy Tate

Interviewed by Michael Woods in 1995

[View details »](#)

Charles Davis

Interviewed by Monk Rowe in 1997

[View details »](#)

Ron Carter

Interviewed by Monk Rowe in 1999

[View details »](#)

Clark Terry

Interviewed by Joe Williams in 1995

[View details »](#)

Benny Powell

Interviewed by Michael Woods in 1995

[View details »](#)

Archive Stats

3,529 People

623 Connections

25 Transcripts

67 People Identified

- Duke Ellington
- Lucky Thompson
- Neal Hefti
- Snooky Young
- Tony Pastor
- Benny Bailey
- Garland Wilson
- Pete Johnson
- Cozy Cole
- Woody Shaw
- Ella Fitzgerald
- Arthur Schutt
- Curtis Counce
- Papa Celestin
- John Simmons
- Walter Page
- Tyree Glenn
- Chester Zardis
- Shadow Wilson
- J. Mayo Williams
- Pharez Whitted
- Webster Young

Mary Lou Williams

Excerpts from a 1973 interview conducted by John S.

"Louis in 1920 and played briefly with Charlie Barnet and Eddie 6 Vinson before joining Count Basie in 1948. From 1951-59 he traveled with the 7 [Duke Ellington](#) Orchestra and toured Europe with the Quincy Jones production 8 of "Free & Easy." Clark was part of the NBC Tonight Show Orchestra in New York City and"

Knows by Reputation

"A
D
an

It isn't clear if they have met - but the subject is aware of the person's reputation.

ted you out front, said "get 'em." But the first person 349 that Duke saying this on tape, he was 350 on a radio broadcast park,"

"he's blowing and everything. and he gets back on the stage and he leans over and 371 he whispers. and

LINKED JAZZ



Team members

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Thank you!

Questions?

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