

# DARWIN'S MUSIC



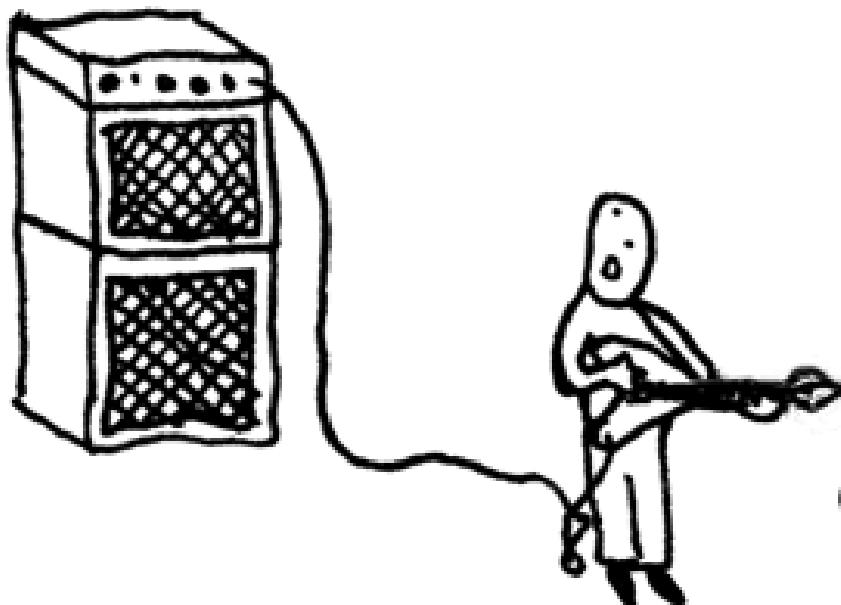
# Hmm ...

- Where does blue-grass come from?
- How did jazz grow?



# Audio analysis says ...

**Measuring the evolution of contemporary western popular music (J. Serrà *et al*, 2012)**



the entire guitar start  
must hear the power  
of my power chords!

CHUG CHUG CHUG  
CHUG CHUG

# What would *web of things* say?



# We want to see ...

- Evolution of music genres in western music
- Popularity of artists by country over a timeline

A circular word cloud centered around the word "dance". The words are arranged in concentric circles, with the most common or central terms at the center and more specific or peripheral terms towards the outer edges. The words include: dance, beat, soul breaks, hard house, trance, electro house, bubblegum dance, electroclash, hip house, vocal house, freestyle, progressive house, trapstep, electro, italo disco, drum and bass, moombahton, dubstep, jungle music, acid house, chicago house, tech house, europop, happy hardcore, alternative dance, big beat, electroclash, hip house, vocal house, progressive house, trapstep, electro, italo disco, drum and bass, moombahton, dubstep, jungle music, acid house, chicago house, tech house, hardstyle, eurobeat, grime, electronic, soca, post-disco, hi nrg, zouk, blue-eyed soul, post-disco, ninja, pop rap, chill-out, desi, acid jazz, neue deutsche welle, bass music, crunk, dubstep, bounce, rap, trap music, hyphy, uk garage, g funk, shibuya-kei, latin, thai pop, kompa, quiet storm, latin pop, jam band, chill-out, desi, acid jazz, neue deutsche welle, bass music, crunk, dubstep, bounce, rap, trap music, hyphy, uk garage, g funk, shibuya-kei, latin, thai pop, kompa, quiet storm, latin pop, jam band, blues-rock, shibuya-kei, tejano, kompa, quiet storm, latin pop, jam band, blues-rock, shibuya-kei, tejano, kompa, quiet storm, latin pop, jam band, outlaw country, rai, brazilian, motown, chic, texas country, indian po, soul, cumbia, vallenat, electric blues, neo soul, souther, memphis, smooth jazz, intelligent dance music, modern blues, dub techno, bachata, urban contemporary, nu jazz, classic funk rock, australian hip hop.

# Data

```
mb:recording/0012b183-0094-466a-8e9b-b019f1f2fd2f#_ a mo:Track ;  
    ourvocab:has_listener_count "21117" ;  
    ourvocab:has_playcount "91301" ;  
    ourvocab:has_tag "4 of 10 stars",  
                      "female vocalist",  
                      "jazz",  
    dc:title "S'Wonderful" ;  
    mo:performer mb:artist/67d2cb7a-9ddb-....#_ .
```

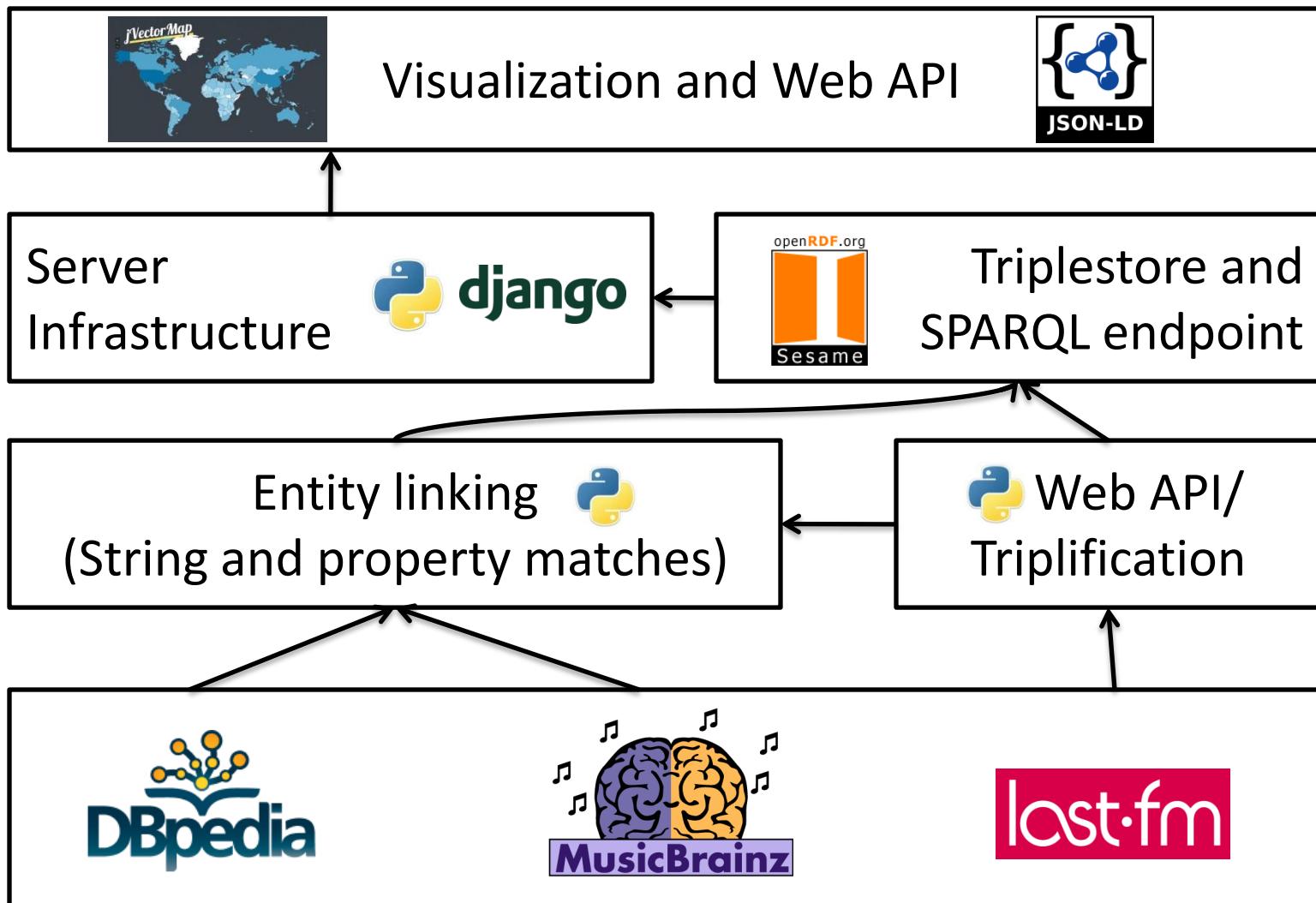


```
mb:artist/67d2cb7a-9ddb-....#_ a mo:MusicArtist ;  
    dbpediaowl:hometown <http://dbpedia.org/resource/Nanaimo> ;  
    foaf:name "Diana Krall" .
```

```
<http://dbpedia.org/resource/Nanaimo> a dbpediaowl:Place ;  
    geo:geometry "POINT(-123.936 49.1642)" ;  
    foaf:name "City of Nanaimo" .
```



# Architecture



# Screencast/Demo

# Outcomes

- Triplified and linked Last fm track data to MusicBrainz and DBPedia sources
- Triple store of the data with a SPARQL endpoint
- A visualization kit built on jVectormap
- Software infrastructure with API to access SPARQL endpoint (returning JSON-LD)

# Prospects (Research)

- A parallel research to **Measuring the evolution of contemporary western popular music** (J. Serrà *et al*, 2012)
- Informed recommendations
  - replace(Frustration , Serendipity)
- Measuring impacts
  - Cross border cultural influences
  - Historical events
- Maps/links from a singer, listener and a label's perspective



# Be part of it!

- Everything is open, out there  
<https://github.com/mpetyx/DarwinsMusic>
- A lot of possible different directions

