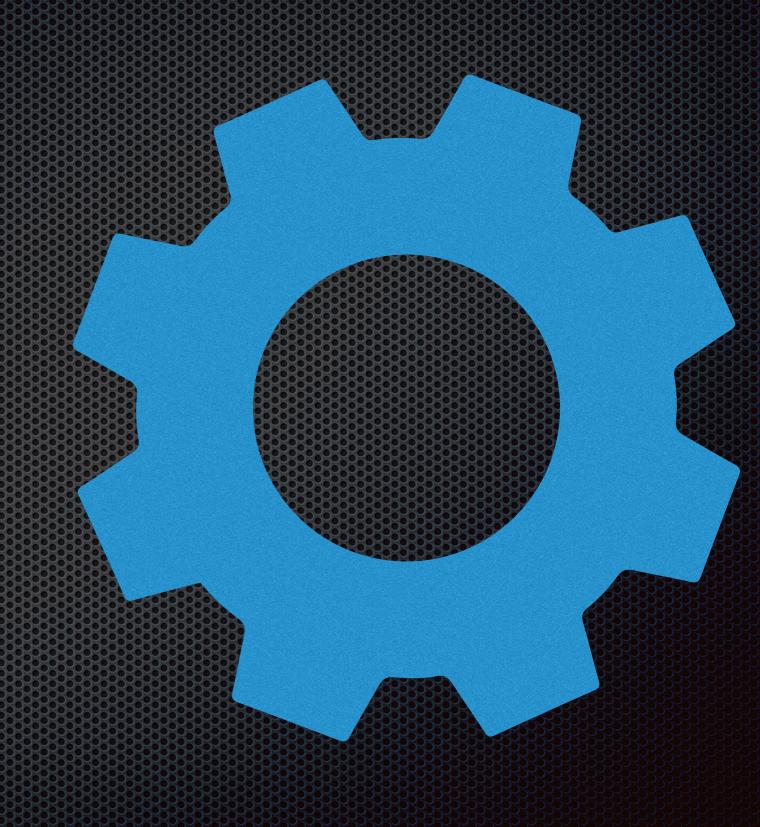


soweego Link Wikidata to large catalogs

Marco Fossati / Hjfocs

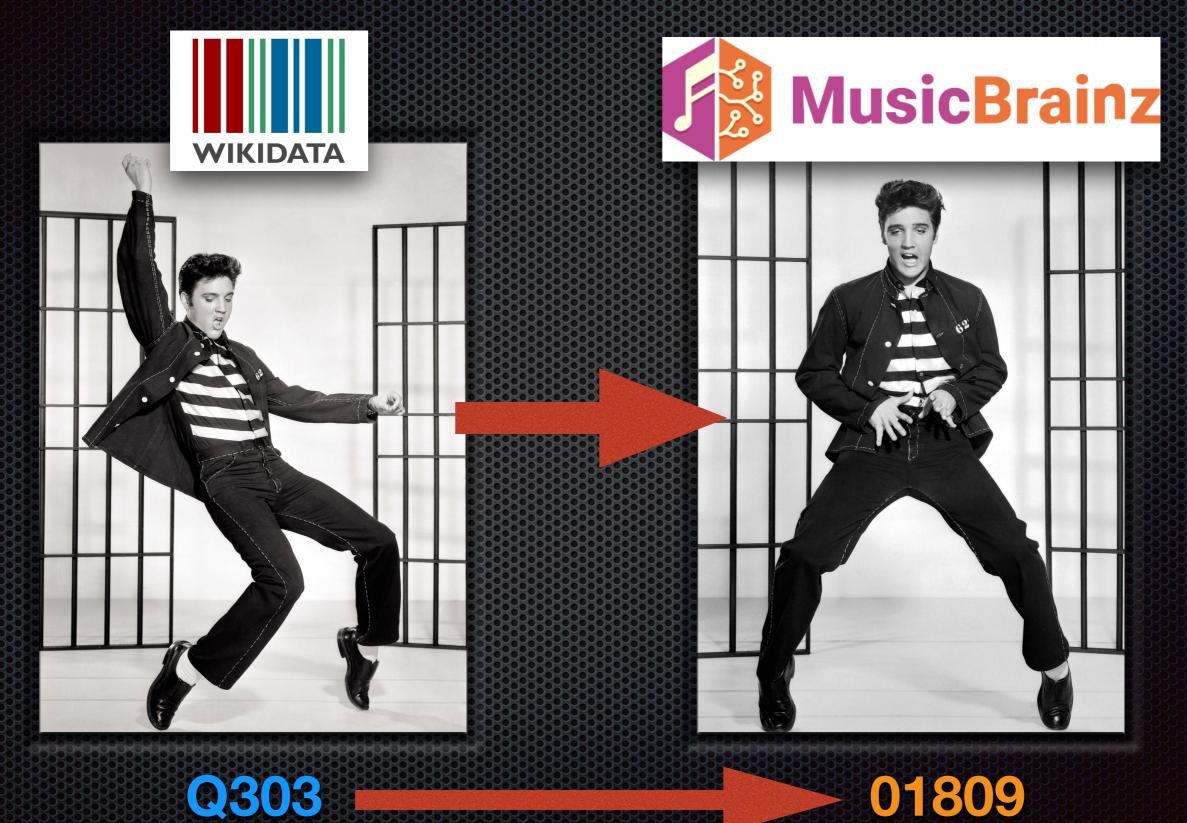
Anywhere, 14 September 2021

Disclaimer A tool or not a tool?



a WMF project Grants program





Idea

- Record linkage AKA data matching AKA entity resolution
- Input: dataset pair
 - source = Wikidata
 - target = external catalog
- Output: links, as Wikidata identifier statements

Example

WIKIDATA	Item Discussion	sley (Q303)	2303		Read	View history
Main page Community portal Project chat Create a new Item Create a new Lexeme Recent changes Random Item Query Service Nearby Help	American singer and actor Elvis The King Of Rock'n'Roll Elvis Aaron Presley 00058226279 IPI 00056021803 IPI In more languages Statements					
	instance of	♦ human 2 ref	erences	redit 🖍		
Identifiers						
MusicBrainz arti	st ID 🏺	01809552-4f87-45b0 ▼ 1 reference	-afff-2c6f0730a3be			
		based on heuristic retrieved	artificial intelligence 8 October 2019			
				+ add reference		
				+ add value		

Why

Increase Wikidata quality & trust

quality = identifiers enable feedback loops

trust = references to external reliable sources

How

- Record linkage workflow
- Supervised machine learning

What

People, a big Wikidata slice

Works, made by people

What's hot? Validator: sync Wikidata to target catalogs

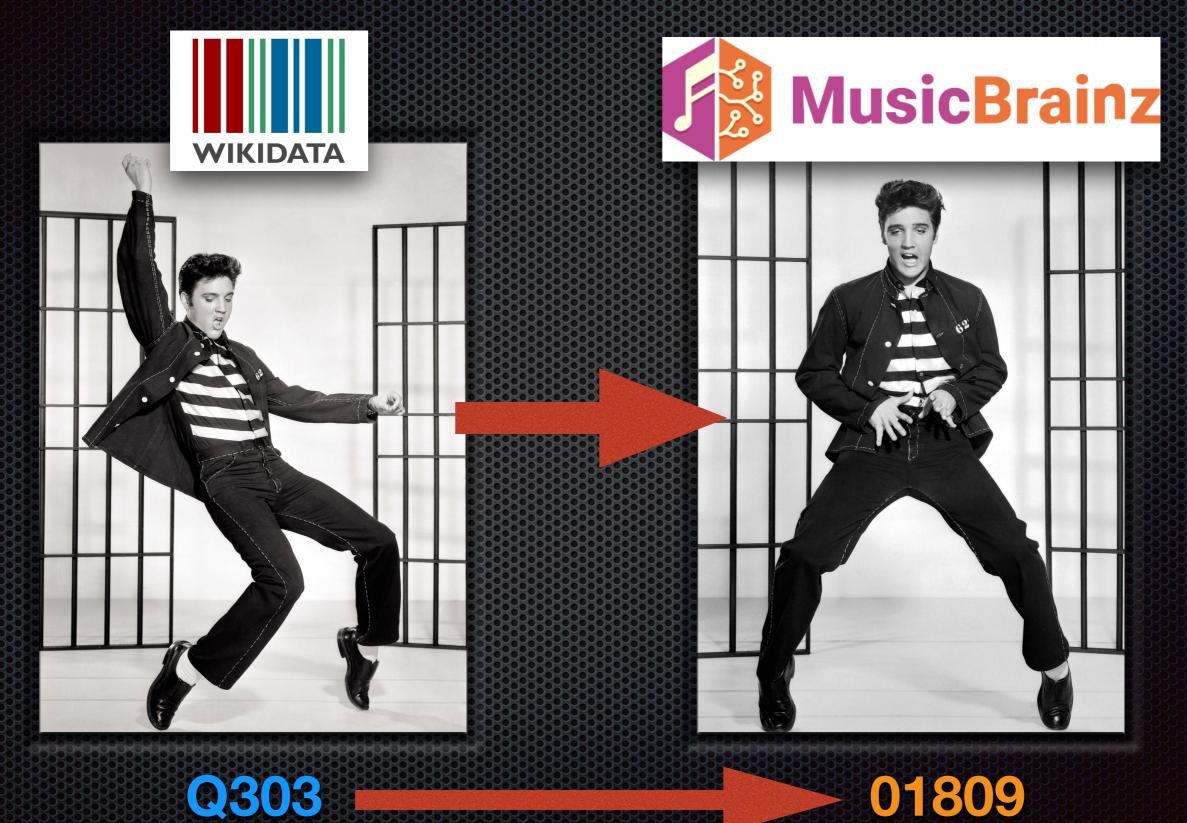


In a nutshell

- Run validation criteria
 - 1. ID existence
 - 2. URLs
 - 3. domain-specific data

- Apply actions
 - enrich items
 - rank statements
 - submit to target communities





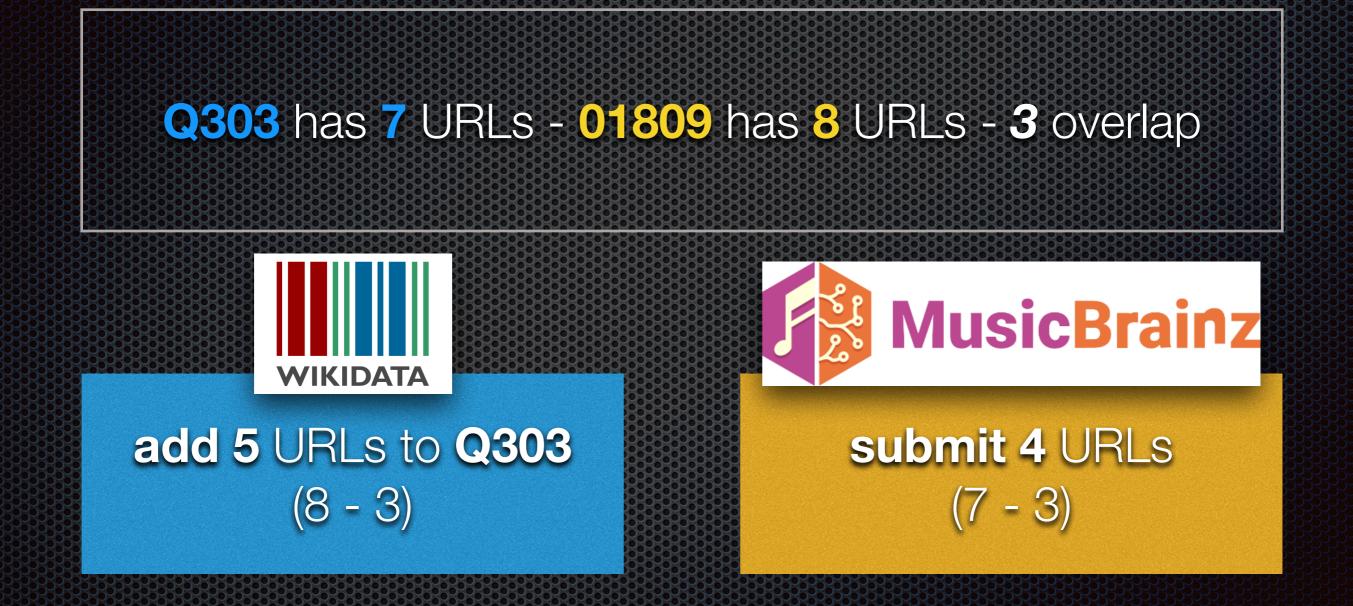


Q303 > **01809**, *but* **01809** is *no more* in MusicBrainz



Deprecate statement

#2 URLs



URLs are dangerous: let's add Ds first



#3 Domain-specific data

Q303 was born on 1935 in Tupelo 01809 was born on 1934 in Memphis



add 2 statements to Q303



submit 2 values

They can be controversial: let's feed the **mismatch finder** first

Mismatch Finder

About this tool

The Mismatch Finder shows you data in Wikidata that differs from the data in another database, catalog or website (for example, someone's date of birth in Wikidata doesn't match the corresponding entry in the German National Library's catalogue). Mismatches like this need fixing, and the Mismatch Finder helps you to do just that.





Marco Fossati / Hjfocs

Thanks! <u>https://soweego.readthedocs.io/</u>

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