

# State of identifiers in Wikidata

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entity ids <http://www.wikidata.org/entity/{P..., Q..., L...}>

id items ISO 3166-1 alpha-3 code (Q1341492)  
ISBN (Q33057)

...

id properties ISO 3166-1 alpha-3 country code (P298)  
ISBN-13 (P212)  
ISBN publisher prefix (P3035)

...

id values all values of statements with id properties  
+ some id items, e.g. *ZIP code 10048* (Q4546087)

## identifier items (1-2/4)

### systems with identifiers

- ▶ GeoNames (Q830106) → GeoNames-ID (P1566)
- ▶ ISO 3166-1:2013 (Q25275) → P297, P298, P299, P300

### identifiers of these systems

- ▶ ORCID iD (Q51044) → ORCID iD (P496)
- ▶ Australian Business Number (Q4823913)  
→ Australian Business Number (P3548)

*we don't always have/want both!*

## identifier items (3/4)

**individual identifiers** should be exceptions (< 5,000)

- ▶ ZIP code 10048 (Q4546087)
- ▶ .org top-level domain (Q32131)
- ▶ ...

*instance-of (P31) item types from last slide?*

## identifier items (4/4)

**identifier classes** are subclasses of *unique identifier* (Q6545185)

- ▶ language identifier (Q2092812)
- ▶ publication identifier (Q36646373)
- ▶ ...
- ▶ Wikidata property for a unique identifier (Q19847637)

*instance of (P31) item types from forelast slide?*

## Identifier properties

**57%** (2236/3911) of all properties

datatype **external identifier** or  
Wikidata **property** for a **unique identifier** (Q19847637)

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	<b>prop for uniq id</b>	
<b>external id</b>	1952	192
string	84	
url	4	
item	2	
quantity	1	
monolingual text	1	

---

*should all be classified under Q19847637?*

Wikidata property for a unique identifier x365

...authority control x189

...cultural heritage identification x95

...people x759

...places x214

...structures x50

...works x161

...musical works x36

...structures x50

...films x69

...book x28

...substances x49

...organisations x164

...identifiers in company registers x7

...identification in the film industry x57

...films x69

...with reciprocal use of Wikidata x22

...events x8

identifiers in registers of goods and services x5

...horses x5

...industries and economic activities x3

...a multi-source identifier x43

...an international standard identifier x7



# Classification of identifier properties (1/2)

## **Wikidata property for a unique identifier (Q19847637)**

Wikidata property...

- ▶ ... for items *about* people (Q18608871)
- ▶ ... for *authority control for* people (Q19595382)

*needs some cleanup*

# Classification of identifier properties (2/2)

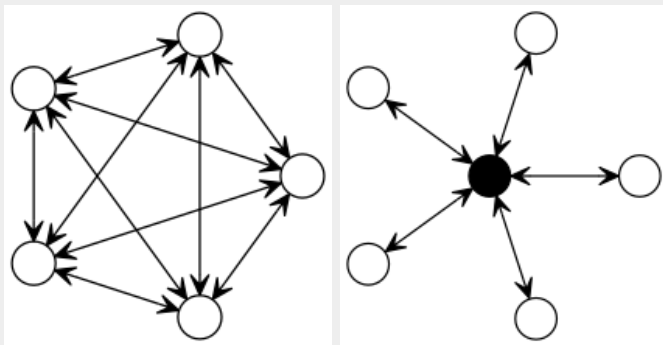
## Classification of corresponding systems

- ▶ identifier classes (Q6545185)
- ▶ classes of Knowledge Organization Systems: catalogs, registries, taxonomies... (Q6423319)

*needs consensus*

*related to previous questions*

## Wikidata as linking hub



- ▶ Neubert: *Wikidata as a linking hub for knowledge organization systems* 17<sup>th</sup> European NKOS Workshop =[Q41072431](#)
- ▶ Neubert/Voß: *Wikidata as authority linking hub* ELAG 2017
- ▶ <http://coli-conc.gbv.de/concordances/wikidata/>

# Summary

## Questions

- ▶ how to handle items about identifier systems and/or systems that have identifiers and their corresponding instances?
- ▶ classify all external-id properties under [Q19847637?](#)
- ▶ n-to-m mappings & the *Bonny and Clyde Problem*

## Tools

- ▶ wikidata-sdk
- ▶ wdtaxonomy
- ▶ wdmapper
- ▶ Mix'n'match

Join Wikidata:Identifiers!