

Introduction to Wikidata and Query Service

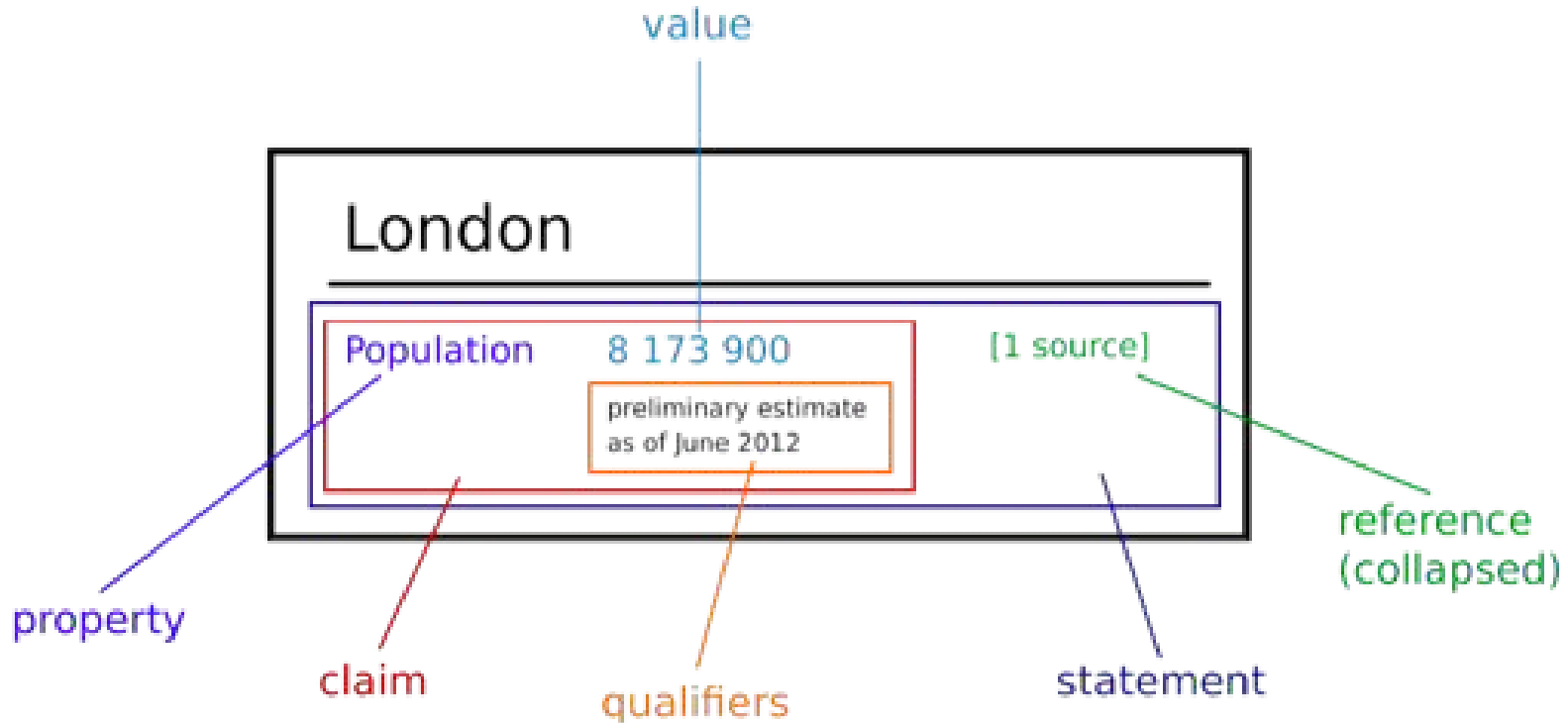
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<https://tinyurl.com/wdqs-dbpedia>



Wikidata: Quick reminder

- Free structured knowledge base
- Multilingual
- Approaching 20M entities
- CC0

Wikidata data structure



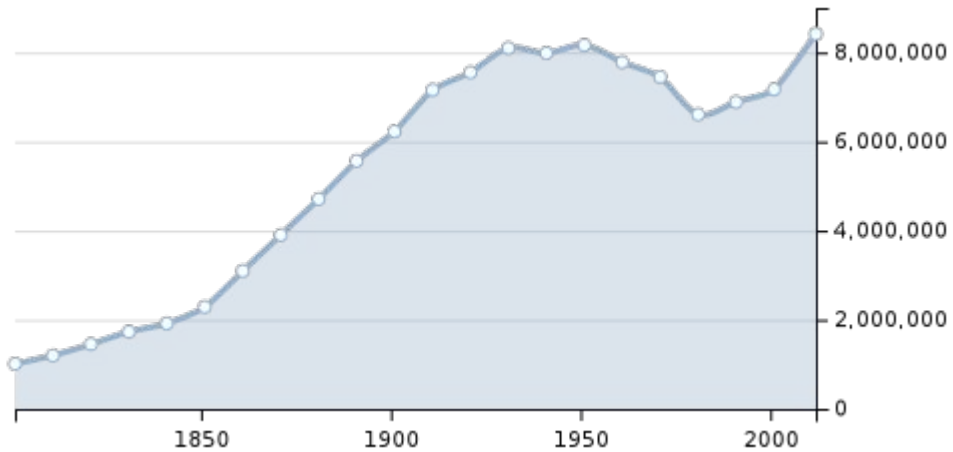
Getting from Data to Knowledge
What we can learn from Wikidata?

Answering questions

- [Biggest cities with female mayors?](#)
- [Popular surnames amongst fictional characters?](#)
- [List of countries that existed in 1754](#)
- [Female scientists with most sitelinks, but no English Wikipedia article](#)
- [Who are the descendants of Genghis Khan?](#)

Vizualizing data

https://www.mediawiki.org/wiki/Template:Graph:Population_history



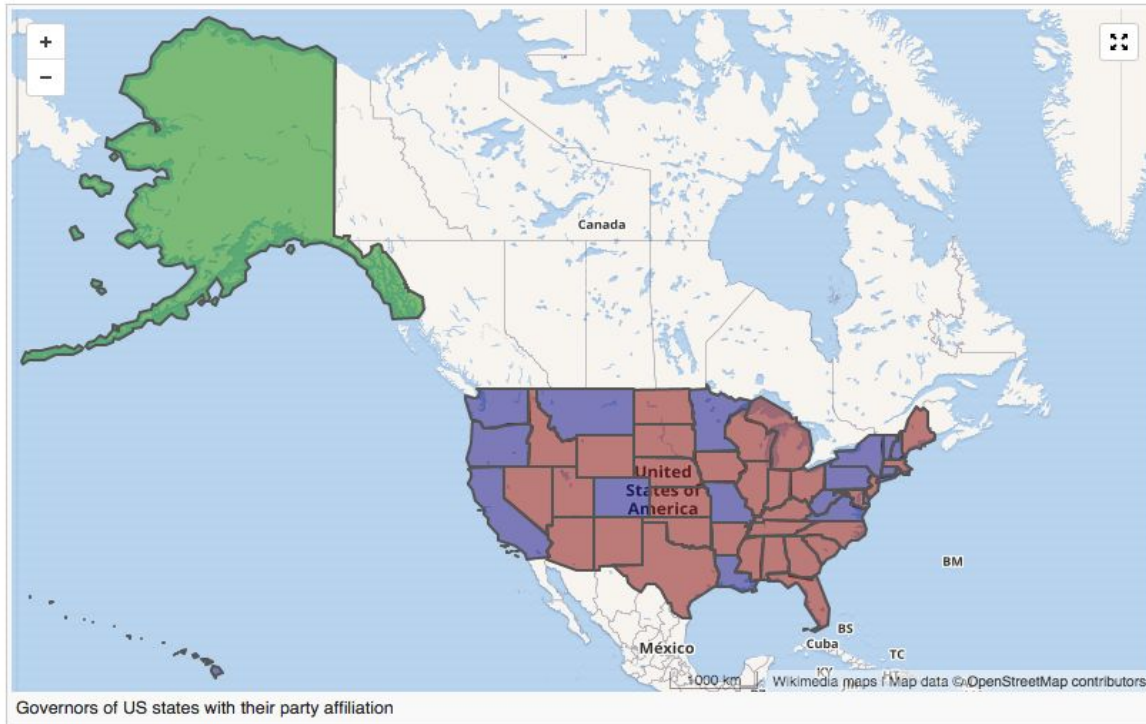
Bringing data to maps

https://www.mediawiki.org/wiki/Template:Graph:Country_with_regions_and_capitals



Bringing data to maps

[https://www.mediawiki.org/wiki/User:Smalyshev_\(WMF\)/Govmap](https://www.mediawiki.org/wiki/User:Smalyshev_(WMF)/Govmap)



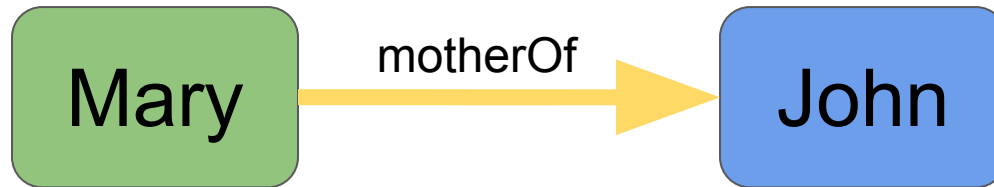
RDF

RDF Basics - Triples

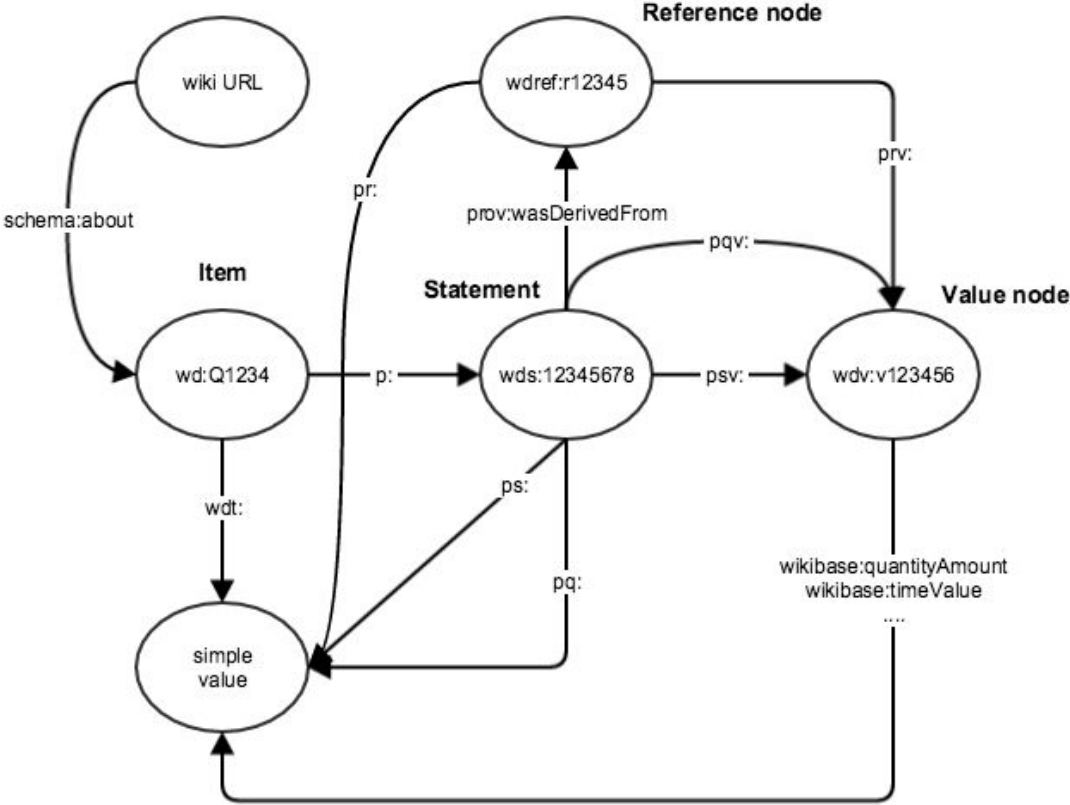
Subject Predicate Object

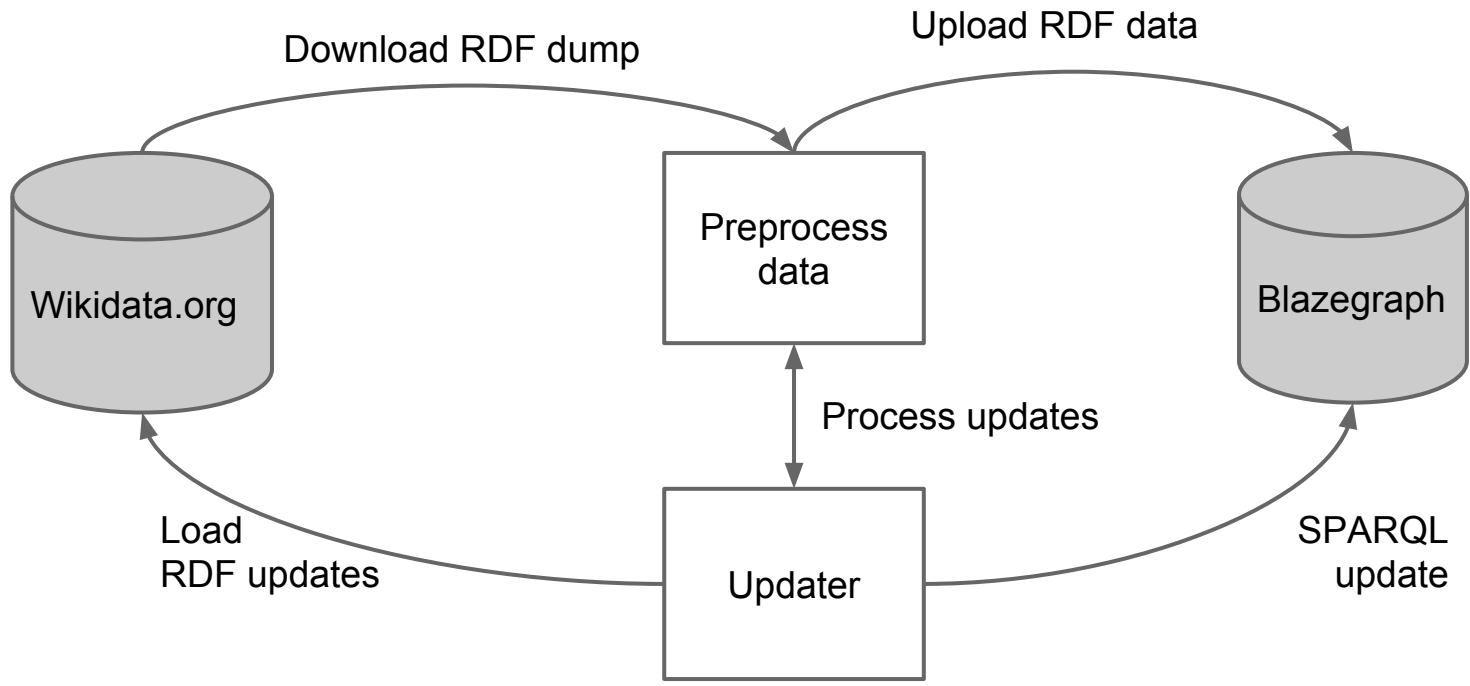
London population 8173900

Mary motherOf John



RDF data representation





Stats

- 1.2B triples
- Live sync
- Horizontal scaling

Your friendly neighborhood GUI

GUI

GUI demonstration - <http://query.wikidata.org/>

Completion & explanation

Examples

Visualization modes

Linking & embedding

Data exports

Query Examples

Can I haz cats? <http://tinyurl.com/jmzbws9>

Wikidata Query Service Examples Prefixes Tools Help English

```
1 #Even more cats, with pictures
2 #defaultView:ImageGrid
3 SELECT ?item ?itemLabel ?pic
4 WHERE
5 {
6   ?item ?x1 wd:Q146 .
7   OPTIONAL {
8     ?item wdt:P18 ?pic
9   }
10 }
```

Press [CTRL-SPACE] to activate auto completion. Data updated a few seconds ago

Run Clear 999 Results in 291 ms Display Download Link



 commons:Six weeks old cat (aka).jpg
Q wd:Q147




 commons:Feral cat Virginia crop.jpg
Q wd:Q2404562

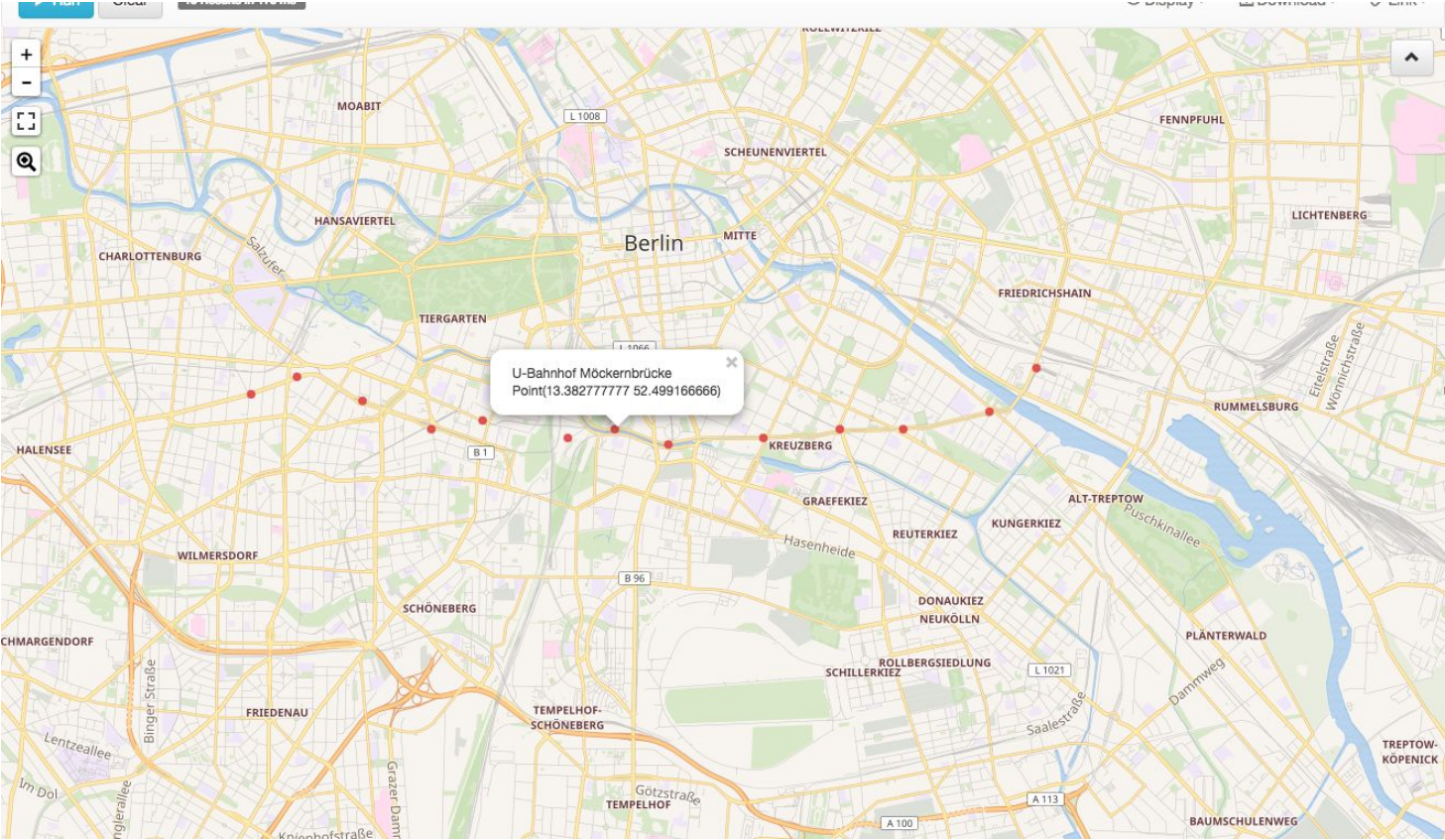


 commons:Jean-Honoré Fragonard 012.jpg
Q wd:Q5967115

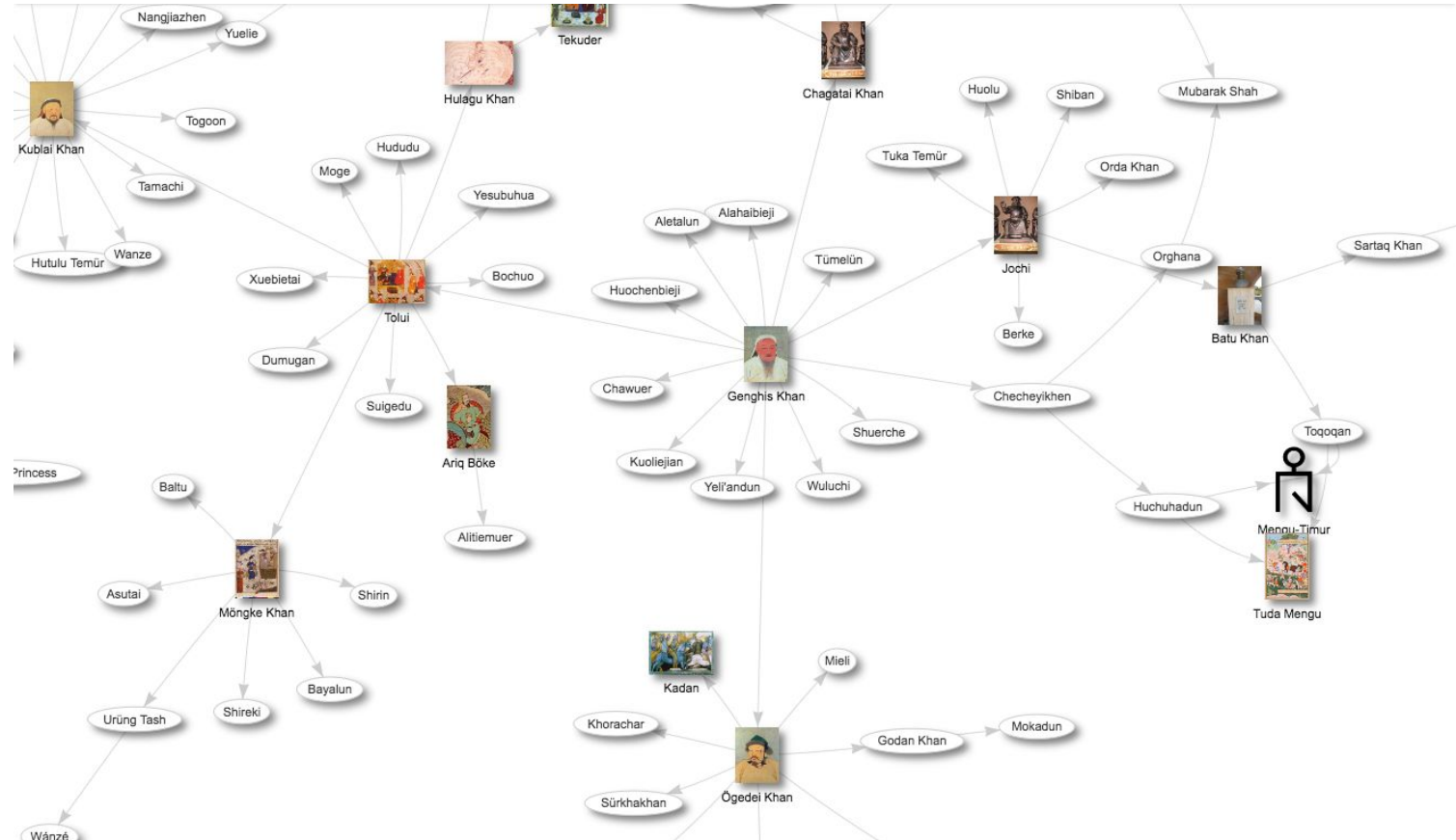


 commons:Jean-Baptiste Perronneau - Mademoiselle Huquier - WGA17215.jpg

U-Bahn Maps: <http://tinyurl.com/gv4v7qa>



Khan Graph: <http://tinyurl.com/h5x5q4q>



Thank you!

<http://query.wikidata.org/>

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Freenode: #wikidata