WikiProvenance: Are there enough references to every (known) fact on Wikidata?

John Samuel



Aim

- Understanding how different Wikimedia properties document an item
- Understanding how references and external identifiers are used
- Provide 'real-time' statistics to Wikimedia contributors
- Compare statistics of different items

WikiProvenance

WikiProvenance: Visual interface to understanding and comparing the sources describing Wikidata items

Features:

- ► Get statistics on sources describing Wikidata items
- Navigate articles on Wikimedia projects and external sources
- Compare statistics between two items
- Search Wikidata items
- Use of bookmarkable links for sharing

Statistics on sources describing an item

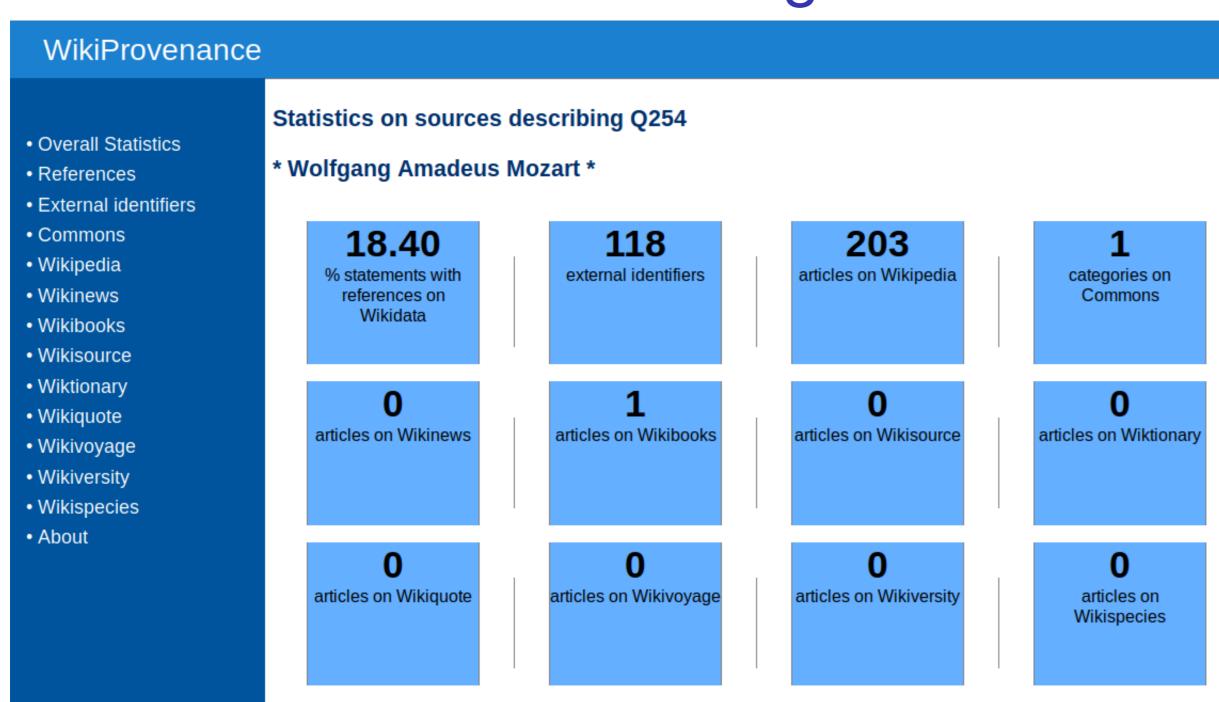


Figure: Translated label statistics

Comparison of statistics on sources describing
* Johann Sebastian Bach *

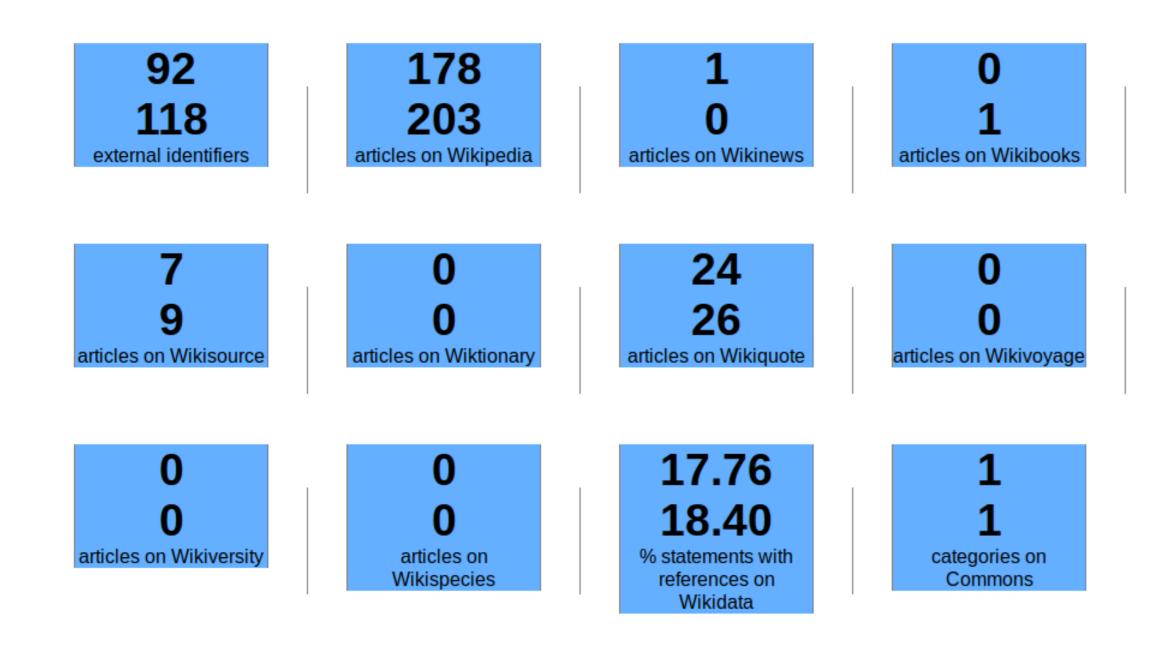


Figure: Comparison of statistics

Future Works

- Understanding types of references in Wikidata
 - Imported from Wikipedia properties (by bots etc.)
 - Reference URLs
 - ► Books, journals, scientific articles
- Incorporting Wikipedia references and OpenCitations to qualify an item

Questions concerning Wikidata items

Wikidata: Shift from non-structured textual content to structured data enabling the possibility of adding references to every statement (or fact)?

- 1. Who is talking about it?
- 1.1 Languages
- 1.2 External sources
- 1.3 Media
- 2. What are they talking about?[Sam17, Sam18]
- 3. Which statements have references?
- 4. **How** different items belonging to same class differ in the use of references?

URL

Check https://tools.wmflabs.org/wikiprovenance

Wikidata: Multilingual labels



Figure: Labels in different languages

Wikidata: References and External Sources

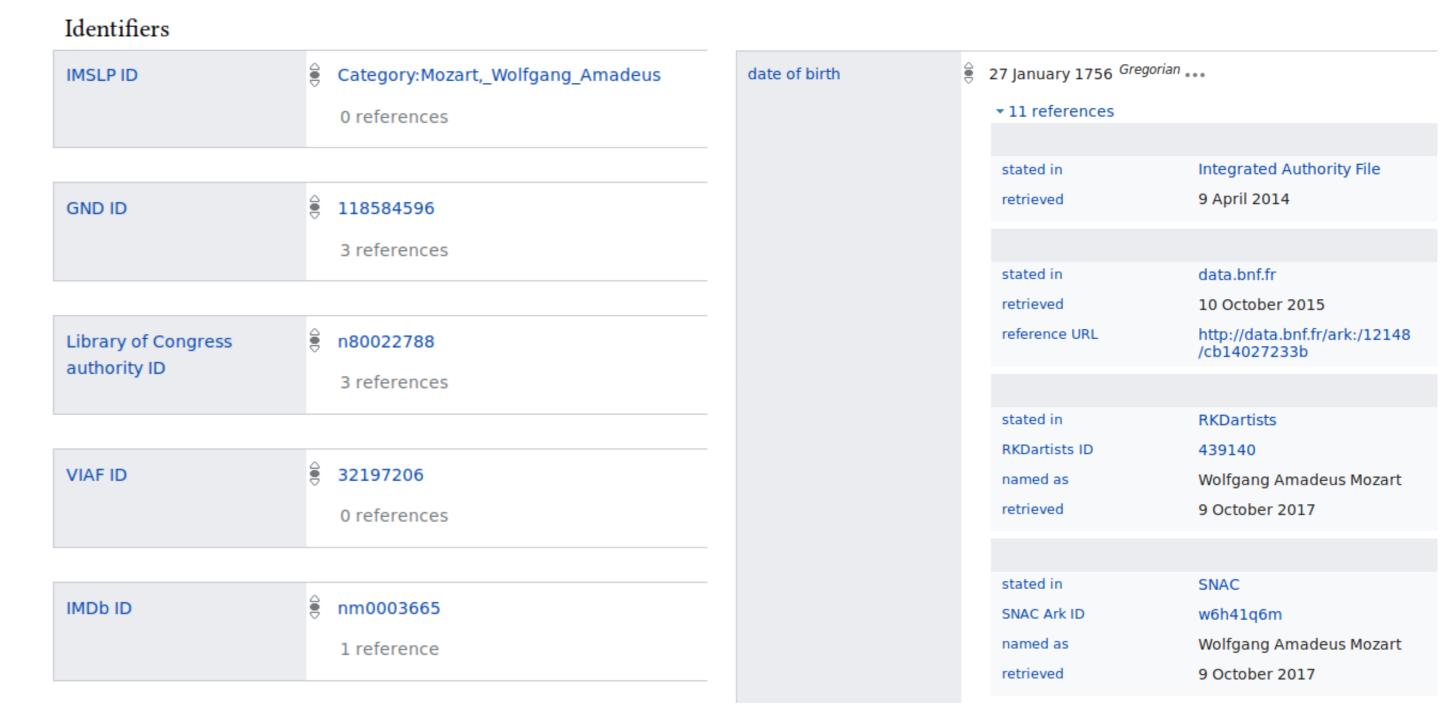


Figure: Identifiers on external sources and References

References

John Samuel.

Collaborative approach to developing a multilingual ontology: A case study of wikidata. In Emmanouel Garoufallou, Sirje Virkus, Rania Siatri, and Damiana Koutsomiha, editors, Metadata and Semantic Research, pages 167–172, Cham, 2017. Springer International Publishing.

John Samuel.

Analyzing and visualizing translation patterns of wikidata properties.

In Experimental IR Meets Multilinguality, Multimodality, and Interaction - 9th International Conference of the CLEF Association, CLEF 2018, Avignon, France, September 10-14, 2018, Proceedings, pages 128–134, 2018.