Scientific articles and beyond in Wikidata

The big picture

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Where are we?

The good, the bad and the ugly

The Good

The vision side

- Knowledge integrity inside and outside the Wikimedia projects is crucial and only becoming more important
- A very dedicated community has come together
- Great tooling has been built (e.g. Scholia and Author Disambiguator) and innovation for Wikidata as a whole pushed forward

The Bad

The technical side

- Wikidata Query Service is reaching its limits, limiting maintenance and reuse
- Dumps are unusable for the majority of reusers we care about

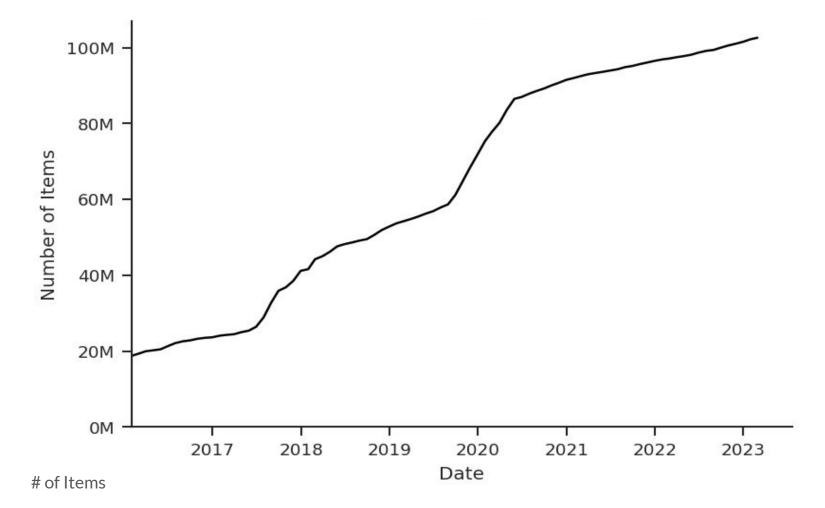
The Ugly

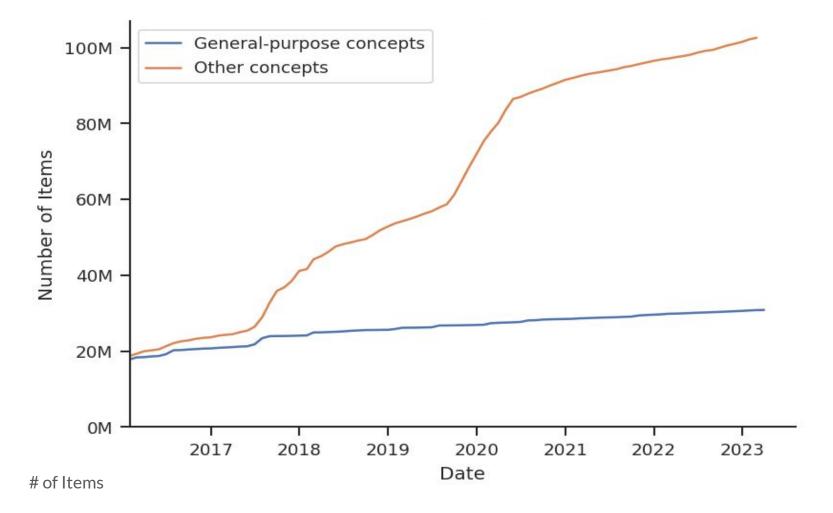
The social side

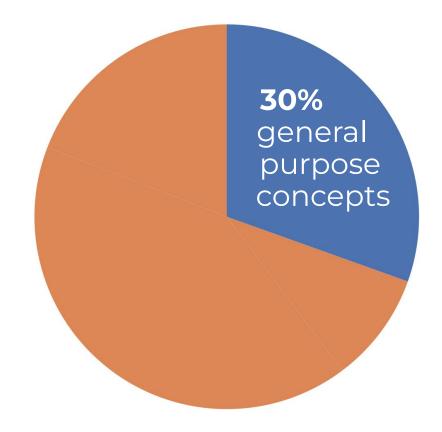
Scientific paper data

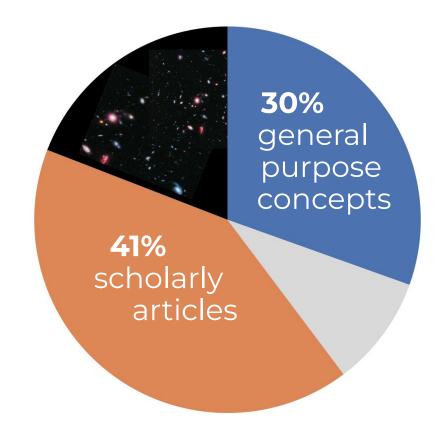
- makes up an outsized part of Wikidata, shifting it from a general-purpose knowledge graph to one about scientific papers
- is highly underused (e.g. ~2% of queries,
 > 60% of which is from Wikidata Integrator)
- is heavily biased towards content that is available in machine-readable form already
- is different from the general purpose Items in significant ways (how it's added, how it's structured, how it's maintained, ...)

What does this look like in detail?



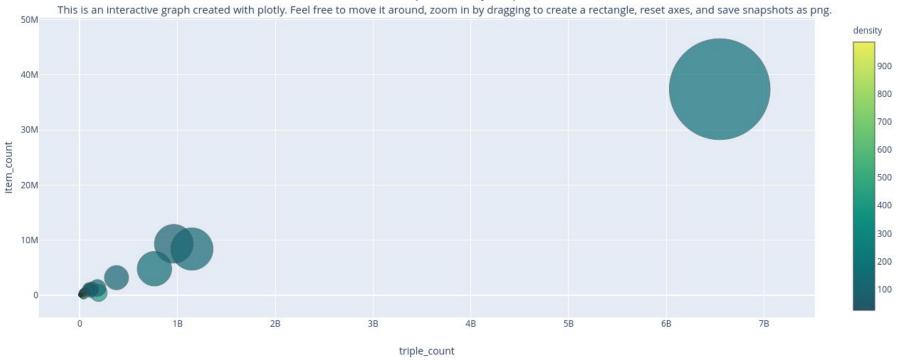




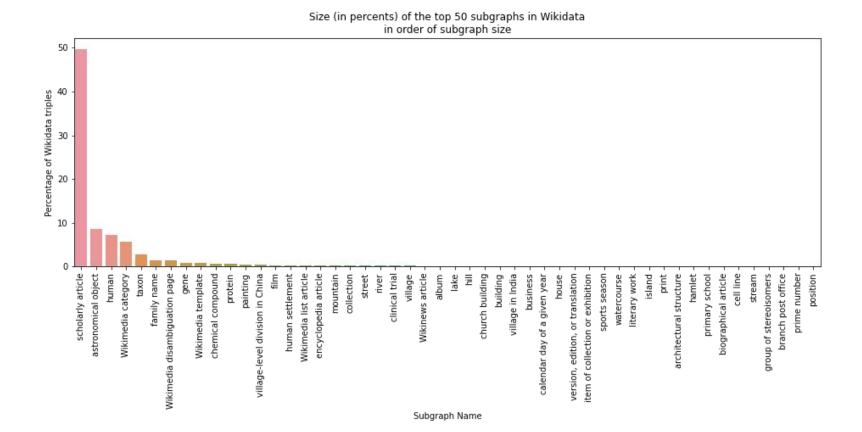


Top 340 Subgraphs in Wikidata

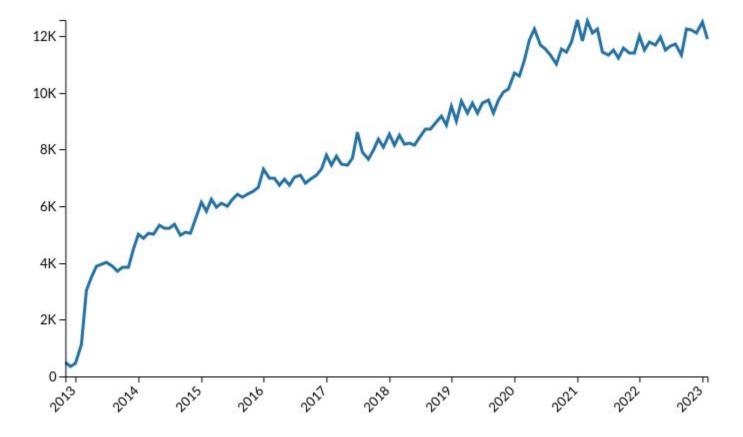
These form 90% of all Wikidata triples. Density = triple_count/item_count



Top subgraphs in Wikidata



Percentage of triples in the top 50 subgraphs



> 8.400

Number of Items one active editor (in theory!) is maintaining

> 750

Number of active Items one active editor (in theory!) is maintaining

What needs to happen?

We need a decision about what our vision and goal is and then commit to it.

We have options.

They determine how to move forward!

Just some of them:

- A database of all sources cited in Wikimedia projects
- A database for curated bibliographic corpora
- The "bibliographic commons"
- ..

Depending on our vision and goal, we can commit to a way forward.

- Keep data in Wikidata but reduce scope significantly
- Move data (mostly) to a dedicated
 Wikibase instance and go wild
- ...

The <u>risks and benefits from 2018</u> largely still hold true.

How do we make this decision?