Introduction to Wikidata
The Wikipedia of Facts

By Clifford B. Anderson, Vanderbilt University

**ABSTRACT** This paper briefly summarizes an in-conference workshop about Wikidata and its potential uses for scholarly communications in religious studies and theology.

This in-conference workshop introduced Wikidata, a project to collect and organize factual information from Wikipedia and other sources. Wikidata started in October 2012 and has grown to more than 50,000,000 items during its first six years. These facts do not relate to the English Wikipedia alone; increasingly, they connect the 300 language editions of Wikipedia.

Wikidata organizes data in a structured format called “statements.” These statements consist of three primary parts: items (“subject”), predicates (“property”), and objects (“values”). For instance, Wikidata records the founding date of the Christian Theological Seminary in Indianapolis as “Christian Theological Seminary” (item), “inception” (property), “1855” (value). Since there are different language editions of Wikipedia, and Wikidata cannot afford to privilege any single edition (like the English Wikipedia), Wikidata uses its own system of letters and numbers to refer to items, properties, and values. The internal representation of the statement above
is “Q5110194 P571 1855.” Thankfully, Wikidata provides robust tools to translate from codes into the language of your choice.

All data in Wikidata is queryable. The query language of Wikidata is SPARQL or the “SPARQL Protocol and RDF Query Language,” which the W3C developed to query linked data. These SPARQL queries underscore the power of Wikidata, allowing users to ask complex questions (“Which paintings of Mary include images of books?”) and to visualize the results. The possibilities for visualizations include charts, image galleries, maps, and timelines, among others. Visualizations may be embedded on websites, and data from queries may be downloaded and reused freely.

The types of information described in Wikidata vary broadly, from architectural objects to films to people. A large percentage of Wikidata entries (42.4%) are about scholarly articles. A movement called WikiCite is working toward adding bibliographic data about all scientific literature to Wikidata, including scholarly articles in the field of religious studies and theology. In “Scholia, Scientometrics and Wikidata,” Finn Årup Nielsen, Daniel Mietchen, and Egon Willighagen describe their work on Scholia, an open source tool to build scholarly and institutional profiles on the basis of bibliographic and related data in Wikidata.

Since Wikidata is a crowdsourced resource like Wikipedia, it suffers from unevenness. Much more information exists about churches, for example, in New York City than in Indianapolis. The gaps in Wikidata’s knowledge base reflect the distribution and demographics of its volunteer editors. As Wikidata becomes increasingly central to the future of scholarly communications, theological librarians should take efforts to add and expand items about articles, books, denominations, institutions, and scholars in the field.

The full presentation, along with sample SPARQL queries, is available on Github.

WORKS CITED
Nielsen, Finn Årup, Daniel Mietchen, and Egon Willighagen. “Scholia, Scientometrics and Wikidata.” In The Semantic Web: ESWC


NOTES
1 See https://www.wikidata.org.
5 See https://www.wikidata.org/wiki/Q5110194.
8 See https://meta.wikimedia.org/wiki/WikiCite.
9 See https://www.wikidata.org/wiki/Wikidata:Scholia.
11 See https://gist.github.com/CliffordAnderson/97116b3a3874c59f61c18a9cc2f05576.