

Assignment 2: Project Proposal

GROUP 17

Task and Motivation

Entities in the Wikidata knowledge base are skewed to famous entities. It is really difficult to find entities from a very specific domain. Hence, we propose to build a pipeline to generate a Knowledge Graph from scratch with ontologies from a specific domain. Specifically, we are going to use them as books that tell stories.

Timeline and Roadmap

- Detect entities from a book extract (08.12 - 09.12)
- Detect relationships between entities (10.12 - 12.12)
- Extract relevant relationships (13.12 - 14.12)
- Disambiguate temporally conflicting relationships (15.12 - 16.12)
- Build the Knowledge Graph (17.12)
- Graph Visualization (18.12 - 19.12)
- Q&A HTML Demo on the Graph (if we have time left)

Goals

We want to implement a pipeline for automatically constructing a knowledge graph given a text from a book. This knowledge graph will contain entities from the text and the relations between them. At the end of the pipeline, we will show a visual representation of the resulting knowledge graph. A report will be delivered with our program to show the processes and methods that we used.

Task Allocation

Task	Principal
Detect entities from a book extract	Tong Wu
Detect relationships between entities & Disambiguate temporally conflicting relationships	Yunshan Wang and Tong Wu
Knowledge Graph Construction	Zhaolin Fang
Q&A HTML Demo on the Graph	Leonardo Kuffo