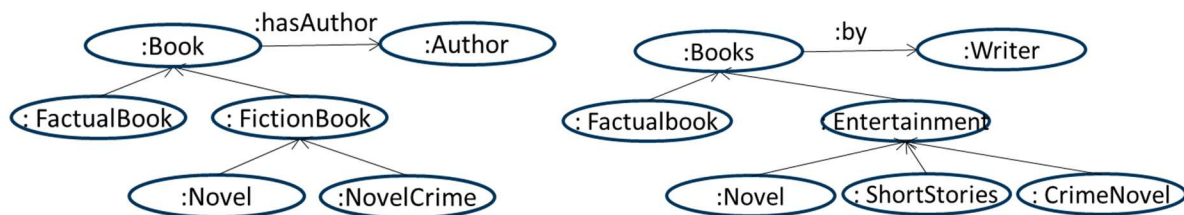


Knowledge Graphs

Exercise 11: Interlinking

11.1. Matching strategies

Given the following two ontologies



List the matching procedures (from the lecture) which allows to find the following “same as”-relations:

- Book ~ Books
- Author ~ Writer
- hasAuthor ~ by
- FactualBook ~ Factualbook
- FictionBook ~ Entertainment
- Novel ~ Novel
- NovelCrime ~ CrimeNovel

11.2. Develop a matcher with SILK

Download SILK workbench (<https://github.com/silk-framework/silk/releases>) and start the server by executing silk-workbench in the bin folder. After that open your browser at <http://localhost:9000> and load the example workbench. Now try to improve the matching or remove some of the comparisons.

11.3. Develop a matcher with MELT

The Ontology Alignment Evaluation Initiative (OAEI) provides datasets and gold standards for ontology matching.

Given the programming example, implement a matcher and try to improve F-measure.