Exploring Semantic Hierarchies to Improve Resolution Theorem Proving on Ontologies Stanley C. Small

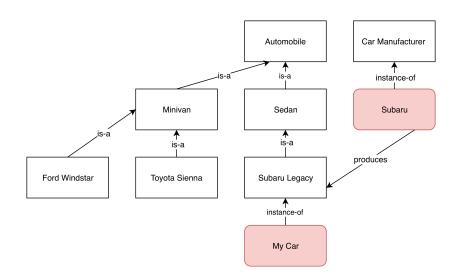
April 30, 2019

Agenda

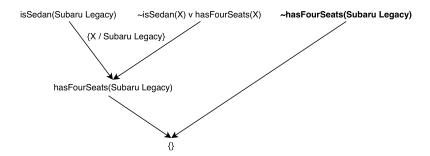
Defense (2.5 Hours)

- ► Honors Thesis (1 Hour)
 - ► Presentation (20 min)
 - Questions (40 min)
- Honors Reading List (1 Hour)
 - Reading List Description (5 min)
 - Reading List Discussion (55 min)
- Committee Deliberation (30 min)
 - Level of honors discussion
 - Suggestions for Revision

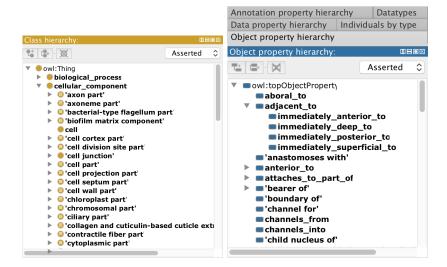
Ontologies



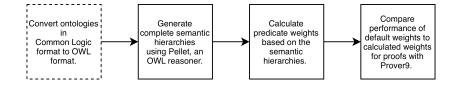
Theorem Proving



Semantic Heirarchies



Approach



Functions

Results

Limitations

```
(all x all y (GED(x,y) & GED(y,x) & (all z (CH(z,x) \rightarrow CH(z,y))) \rightarrow CS(x,y))).
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Questions