

SWRL in Protege 3.x and 4.x

A few notes

SWRL in Protege 3.x

- SWRLTab
 - Developed at Stanford by Martin O'Connor
 - Jess (Sandia National Laboratories) rule engine built into plugin
 - Port started to Protege 4.x
- SQWRL (Semantic Query-Enhanced Web Rule Language)
 - Developed as a query language that works more closely with OWL
 - SPARQL works more closely with RDF
 - «Transforms» a rule to retrieval
 - Unable to write back to ontology because it may lead to nonmonotonicity

Counts number of users in the ontholog

APeopleInOnthology → Consumer(?user) → sqwrl:count(?user)

Sq SQWRLQueryTab → AvgStars → APeopleInOnthology

Calculate average hotel stars for users trips

AvgStars → Trip(?trip) ∧ hasTripleg(?trip, ?tripleg) ∧ hasLodging(?tripleg, ?lodging) ∧ hasStars(?lodging, ?stars) → sqwrl:avg(?stars)



4.0

SWRL in Protege 4.x

- Plain SWRL. No extensions, no layers
- Uses the ontology reasoner

References

- Martin O'Connor on SQWRL:
http://bmir.stanford.edu/file_asset/index.php/1723/BMIR-2009-1395.pdf
- Standford, MIT, BBN, Echopass on SWRLTab:
http://bmir.stanford.edu/file_asset/index.php/1157/BMIR-2005-1080.pdf