Ω-RIDL

A Language and Interpreter for Ontological Commitments
Overview

- DOGMA Foundations
- DOGMA Studio and T-Lex
- $\Omega$-RIDL Ontological Commitment Language
- Conclusions and Future Work
DOGMA
Foundations
Developing Ontology Grounded Methods and Applications
Lexon

Plausible elementary binary fact type

*(context, term)* refers to a unique concept
“Double articulation principle”
Commitments define an interpretation of (a subset of) the Lexon Base by:

- selecting lexons
- semantically constraining the use of the selected lexons by imposing constraints
DOGMA Studio & T-Lex
\( \Omega \)-RIDL

- Language for:
  - defining ontological commitments
  - conceptual querying
- Based on RIDL
Ontological commitments consist of three parts:

- Contextual declaration
- Lexical interpretation
- Semantic rules
An Example

define commitment
  in context WINEBOOK
  with subsumption ISA / SUBSUMES
  lexical interpretations
    map WINES.WINE_NAME
    on WINE HAS NAME
  semantic constraints
    each WINE HAS exactly one NAME
end
Conclusions & Future Work
**Conclusion & Future Work**

- **Ω-RIDL** will define ontological commitments and support conceptual querying.

- **T-Lex tool** will need to be extended to support export to **Ω-RIDL**.

- **Build an Ω-RIDL interpreter**.