

Knowledge Engineering in First-Order Logic

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Identify the Task

- Outline the range of questions
- Determine available facts
- What is needed to connect problems to answers?

Assemble the Relevant Knowledge

- Knowledge acquisition
- Understand the scope of the knowledge base
- How does the domain work?

Decide on a Vocabulary

- Determine vocabulary of predicates, functions, and constants
- How is the knowledge base represented?
- Ontology

Encode General knowledge

- Encode the general knowledge about the domain

Encode the Problem

- Describe the specific problem instance using the general knowledge

Pose Queries

- Let the inference procedure operate on the axioms to derive facts

Debugging

- Check the knowledge base for errors