




# Artificial Intelligence Programming

## *Ontologies*

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# Knowledge Engineering

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- Logic provides one answer to the question of *how* to say things.
- It does not tell us *what* to say.
- Typically, this is the hard part.
- We want to give our agent enough knowledge to solve all of the problems we are interested in.
- The process of building a knowledge base is referred to as *knowledge engineering*
  - Many of the same principles as software engineering.

# Knowledge Engineering

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- The knowledge engineering process typically consists of the following steps.
  1. Determine the queries and types of facts that are available/allowed
    - For example, will the agent need to select actions or make conclusions, or just answer questions from a human user?
    - Will we ask existential queries, or just universal queries?
  2. Gather the relevant knowledge
    - Interview experts and find out how the domain works.