Expert Systems

- capture knowledge of expert in a rule base

- knowledge engineeering challenges

- rules with certainty factors and probabilistic reasoning

- backwards or forward chaining

- used for medical diagnosis

## Knowledge Bases

- long history of representational issues: classes, instances, exceptions, similarities, temporal information

- some efforts in massive knowledge bases (CYC): recording all commonsense knowledge

- languages for building knowledge bases (e.g. TELOS from U Toronto): tell, ask, retrieve

- case-based knowledge bases: reasoning according to cases; diagnose a problem by seeing if it is a case of an existing logged situation (match up)

- knowledge acquisition and user interface issues