




# Artificial Intelligence Programming

## *Decision Trees*

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# Rule Learning

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- Previously, we've assumed that background knowledge was given to us by experts.
  - Focused on how to use that knowledge.
- Today, we'll talk about how to acquire that knowledge from observation.
- Focus on learning propositional rules
  - $sunny \wedge warm \rightarrow PlayTennis$
  - $cool \wedge (rain \vee strongWind) \rightarrow \neg PlayTennis$

# Learning

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- What does it mean for an agent to learn?