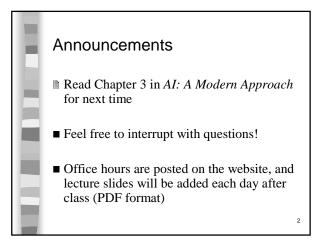
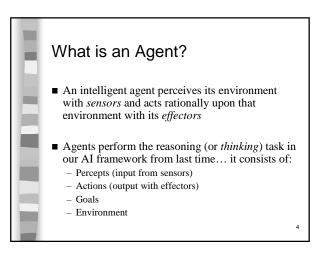
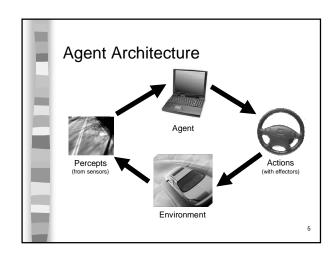
## Burr H. Settles CS-540, UW-Madison www.cs.wisc.edu/~cs540-1 Summer 2003



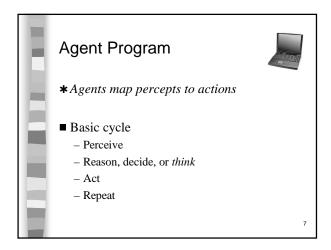


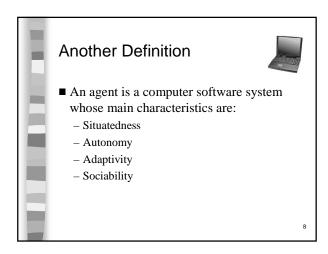


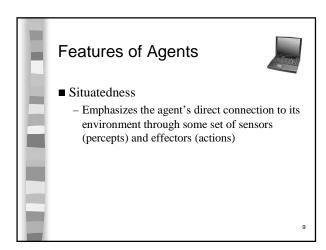


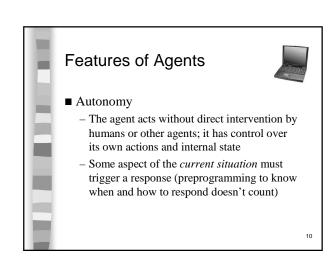
Examples of Intelligent Agents				
Agent	Percepts	Actions	Goals	Environmer
ALVINN	Images,	Steering,	Drive from	Roads, Vehicles
	Position	Control speed	A to B	Hazards
Google	Web pages,	Navigate web,	Find best search	Internet
engine	Search queries	Gather info.	matches	
Deep Blue	Current board state	Choose next move	Win the game!	Opponent, Game board
Financial	Stock market	Pick stocks to	Maximize investments	Stock market,
Forecaster	data	buy & sell		company report
Medical	Symptoms,	Tests,	Healthy patient	Patient,
Diagnostic	Test results	Treatments		Hospital

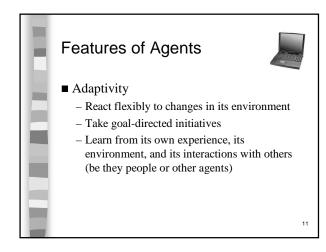
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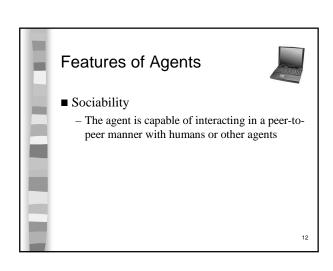


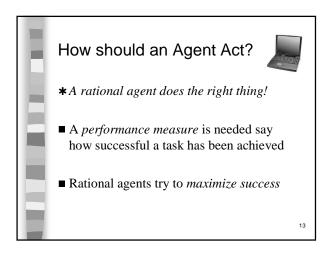


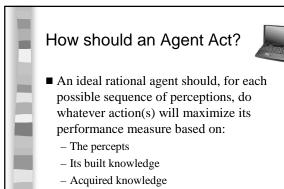








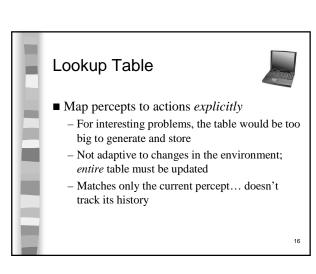


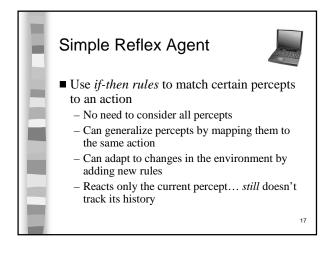


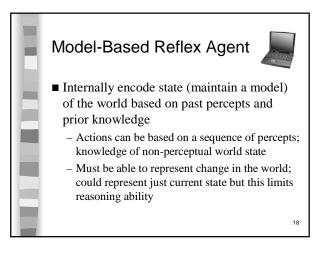
Types of Agent Programs

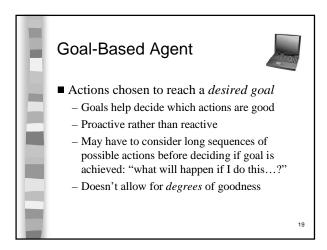
There are several kinds of agent programs which try to meet these conditions:

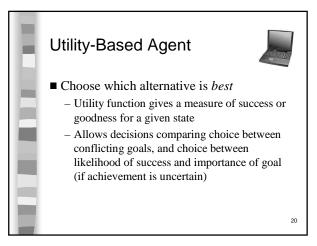
Lookup table
Simple reflex agent
Model-based reflex agent
Goal-based agent
Utility-based agent

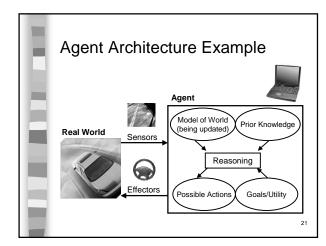


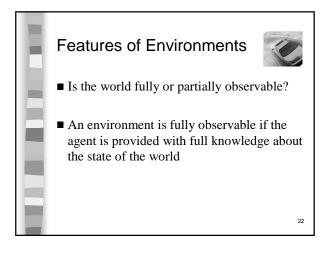


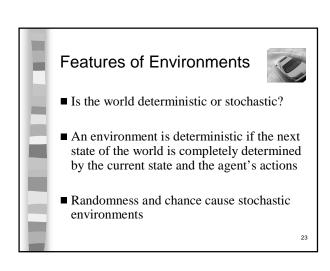


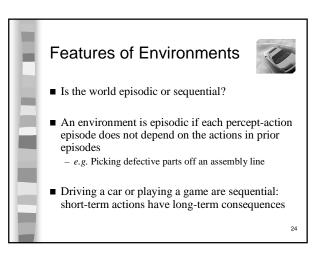


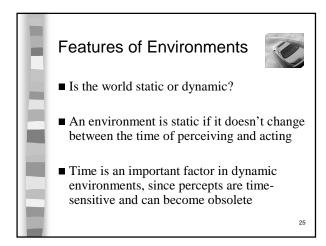


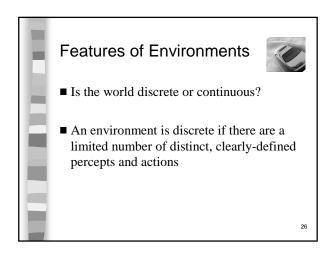


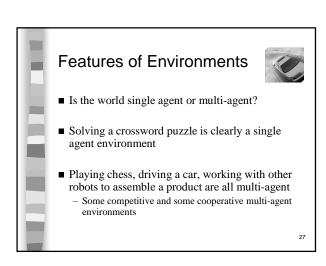


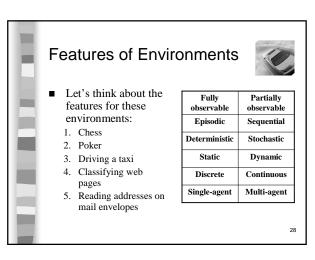


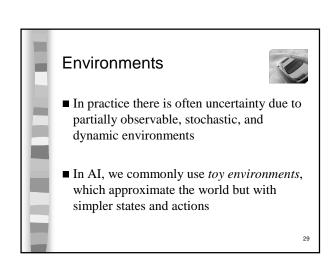


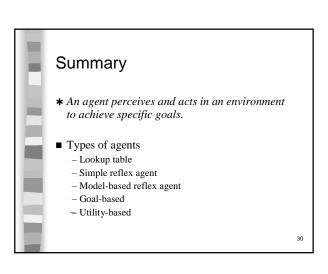














- Features of Environments
  - Fully vs. partially observable
  - Deterministic vs. stochastic
  - Episodic vs. sequential
  - Static vs. dynamic
  - Discrete vs. continuous
  - Single vs. multi-agent

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