

Markov Decision Processes

- An MDP is defined by:
 - A set of states $s \in S$
 - A set of actions $a \in A$
 - A transition function $T(s, a, s')$
 - Probability that a from s leads to s' , i.e., $P(s' | s, a)$
 - Also called the model or the dynamics
 - A reward function $R(s, a, s')$
 - Sometimes just $R(s)$ or $R(s')$
 - A start state
 - Maybe a terminal state
- MDPs are non-deterministic search problems
 - One way to solve them is with expectimax search
 - We'll have a new tool soon

