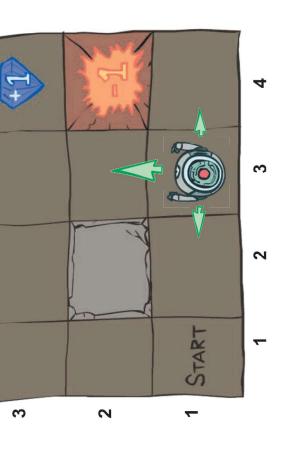
Markov Decision Processes

- An MDP is defined by:
- \blacksquare 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