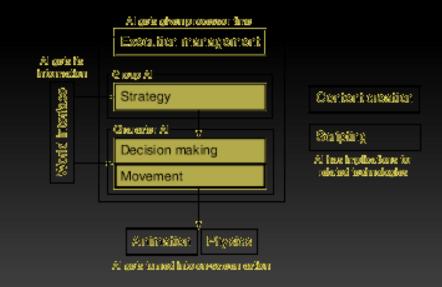
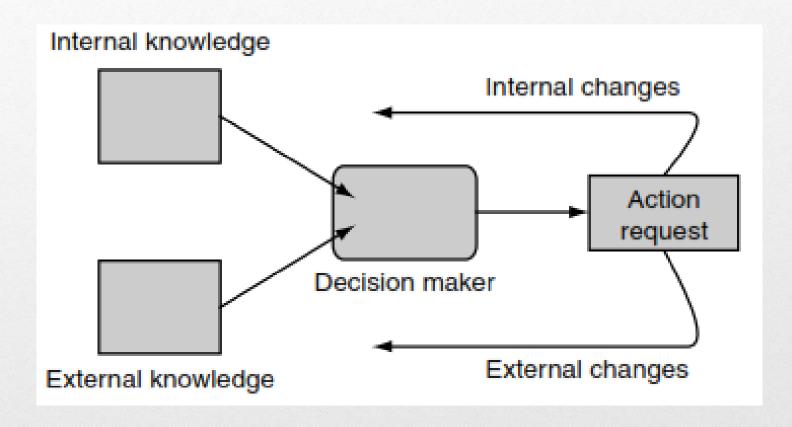


Scripted Behavior

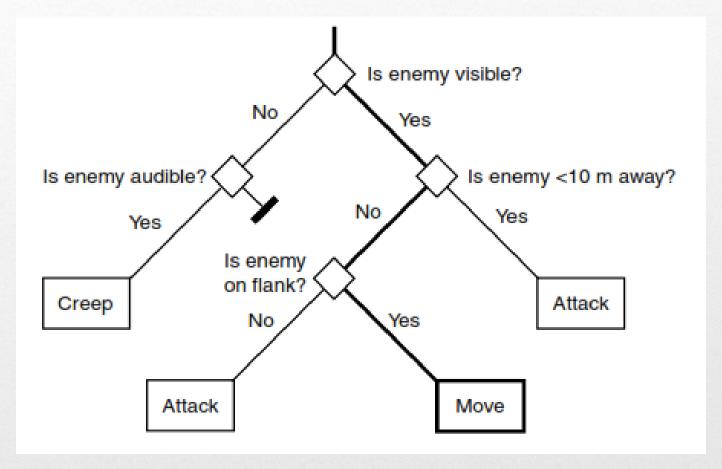
- Decision Trees
- State Machines
- Hierarchical StateMachines



Decision Making Scheme



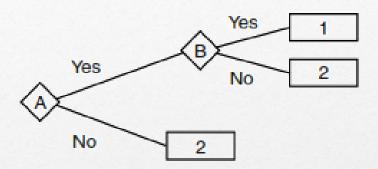
Decision Tree



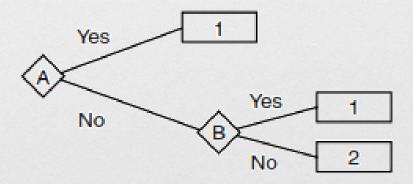
Fixing a Branch in DT

Logical Connectives

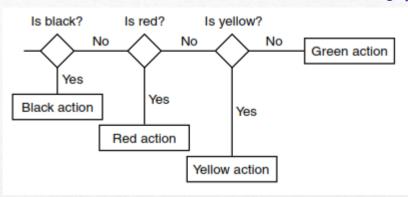
If A AND B then action 1, otherwise action 2



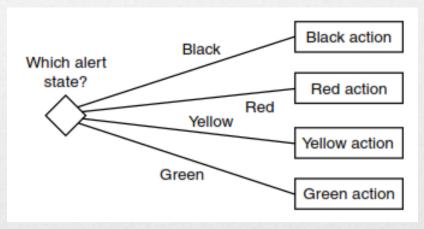
If A OR B then action 1, otherwise action 2



Tree Types



Binary Decision Tree



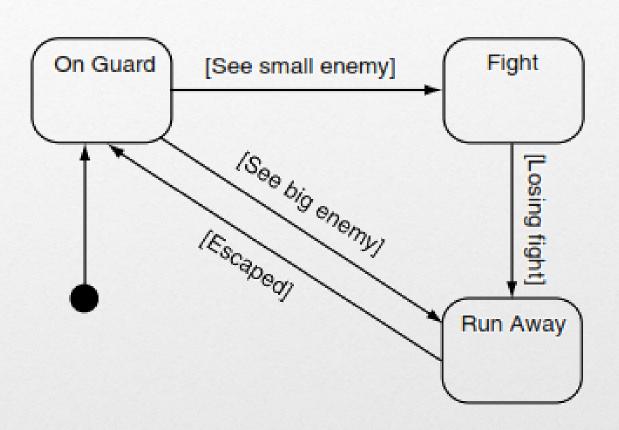
Flat Branching Decision Tree

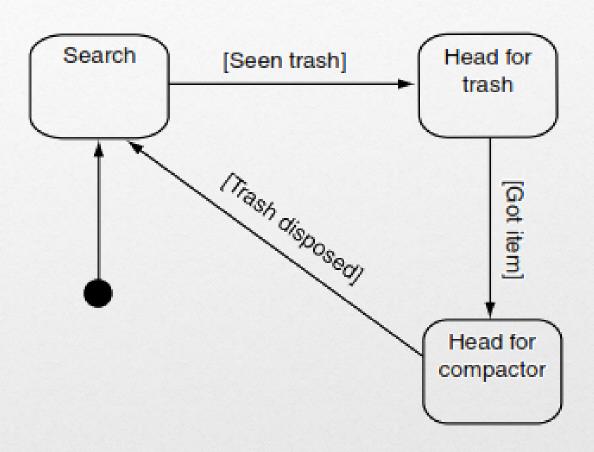
Using Decision Trees

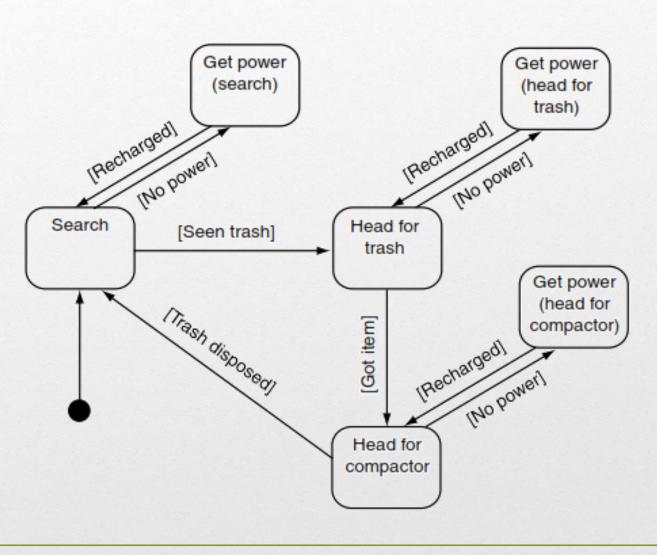
Pay attention to:

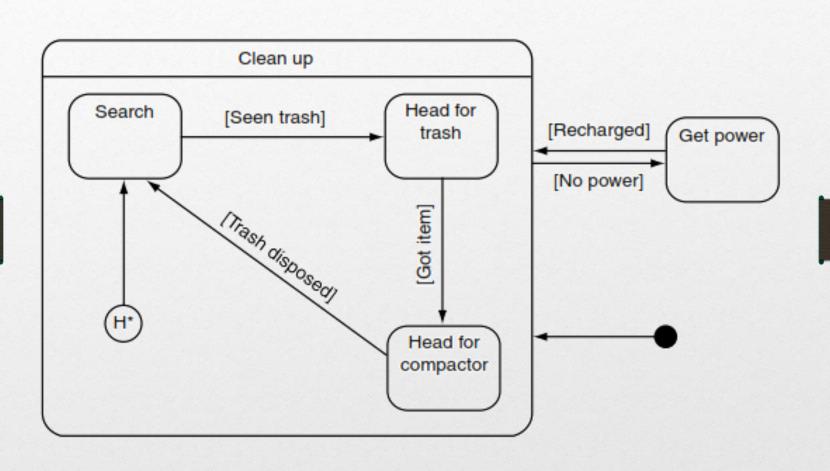
- 1. Balance between Depth and Time Complexity
- 2. Scalability to new Data
- 3. Pruning
- 4. Validity (no loops in a Tree)
- 5. Randomizing condition (Bernoulli RV)

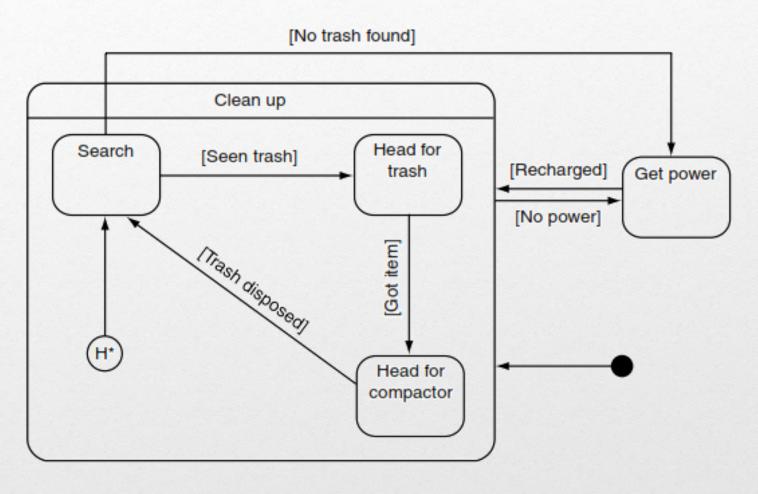
Finite State Machines



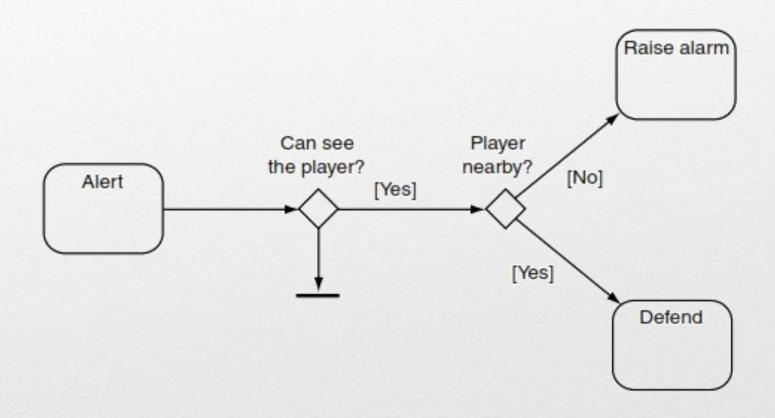








Hierarchical State Machines with Decision Trees as Transitions



Maze Massive Escape

Classes