

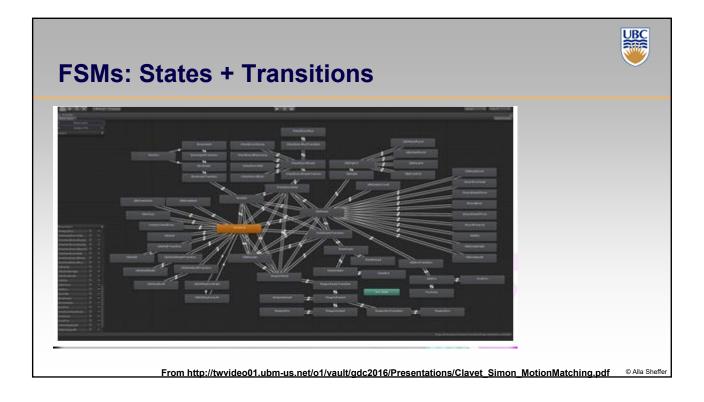
FSMs:

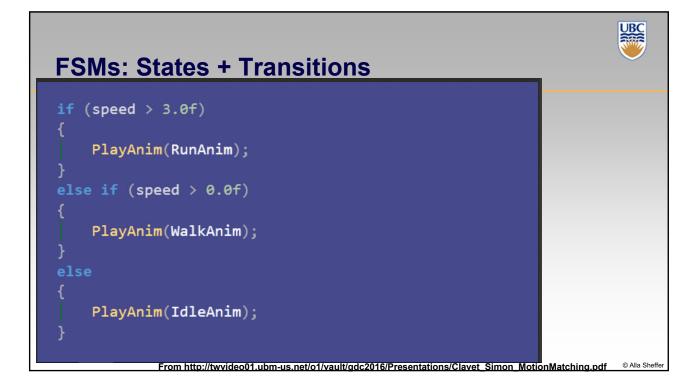


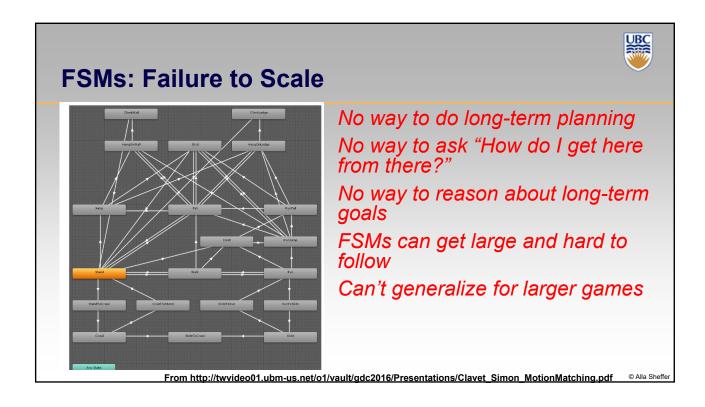
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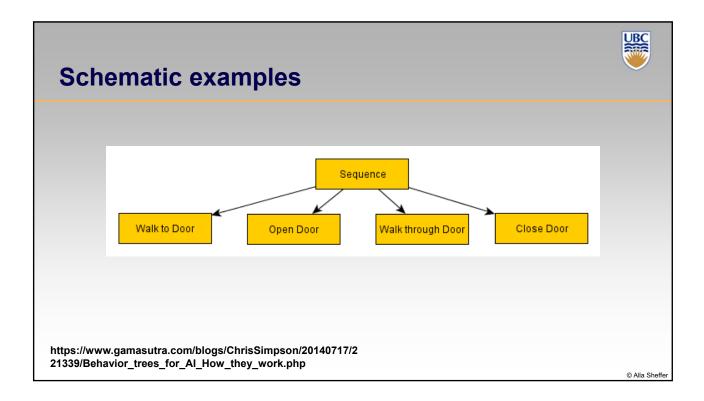
• Each frame:

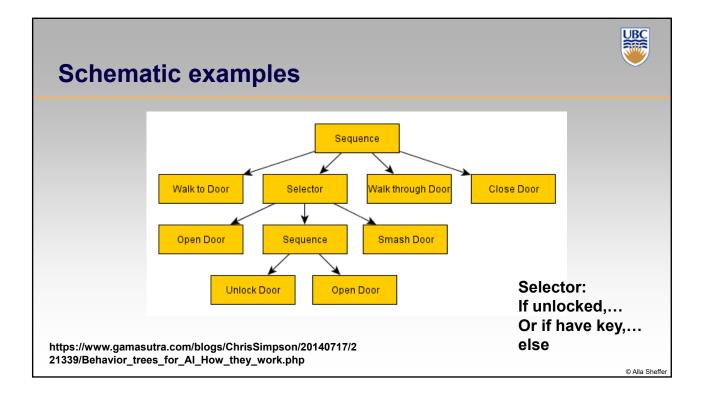
- Something (the player, an enemy) does something in its state
- It checks if it needs to transition to a new state
 - If so, it does so for the next iteration
 - If not, it stays in the same state
- Applications
- Managing input
- Managing player state
- Simple AI for entities/objects/monsters etc.

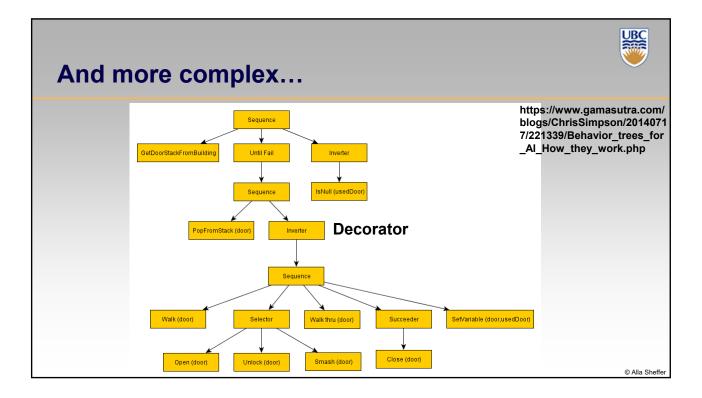


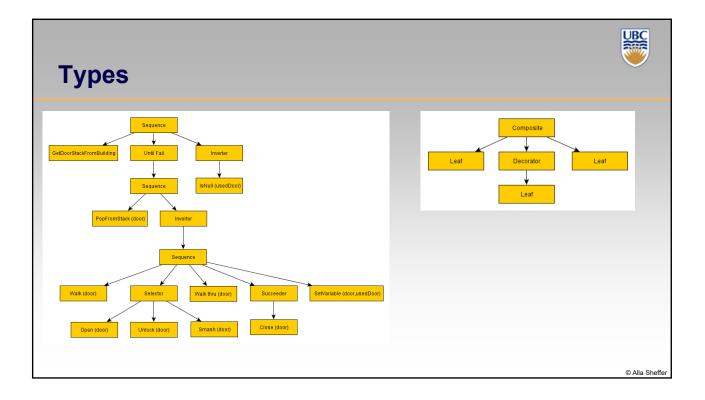


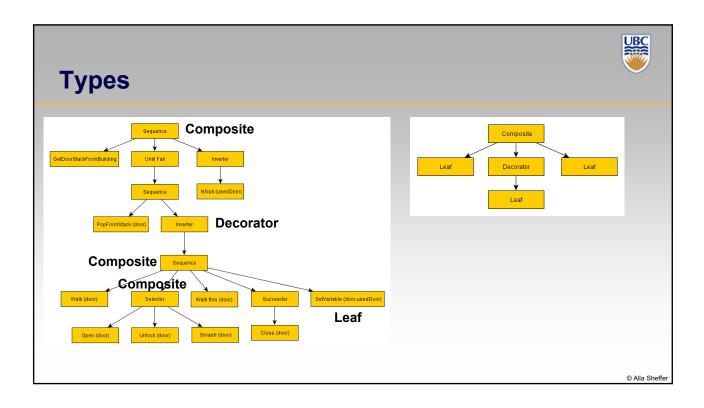


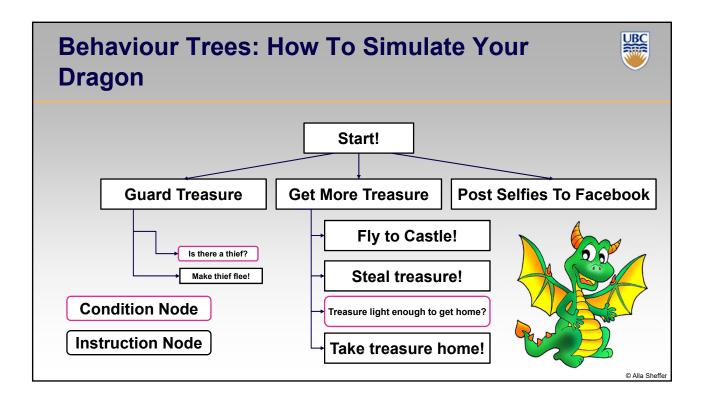


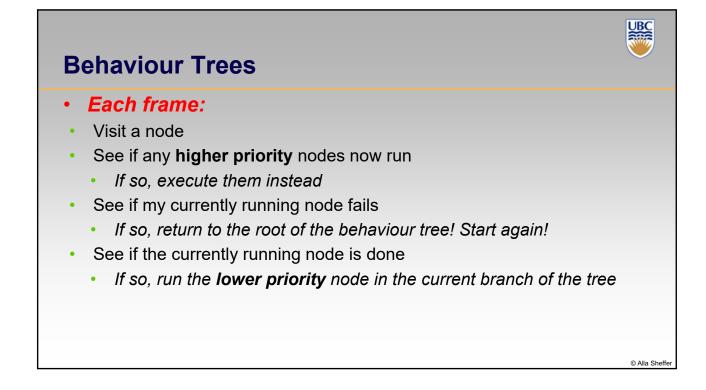


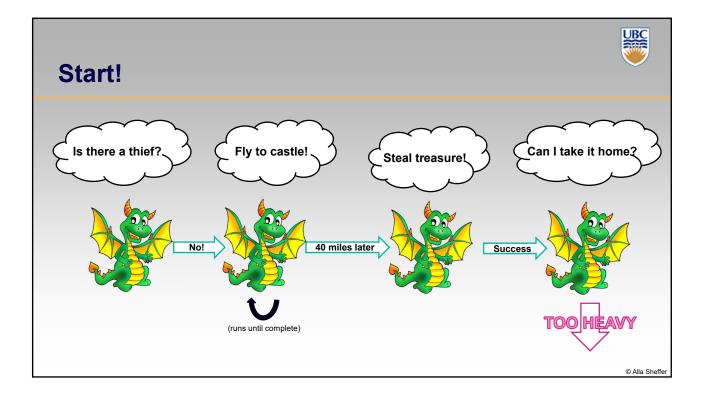


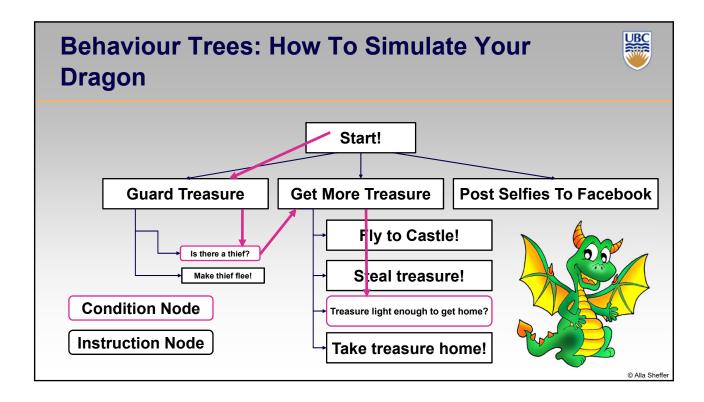


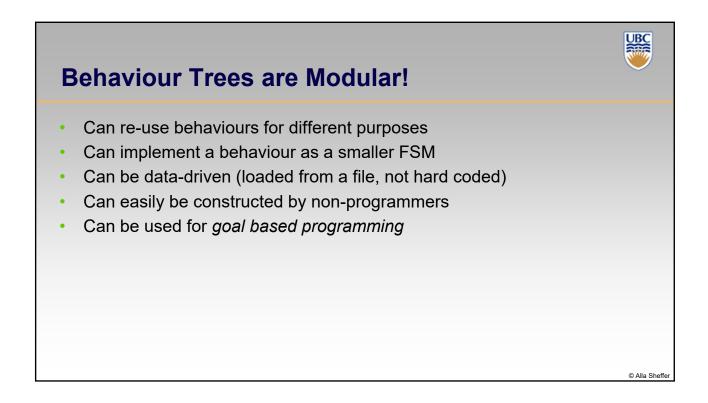


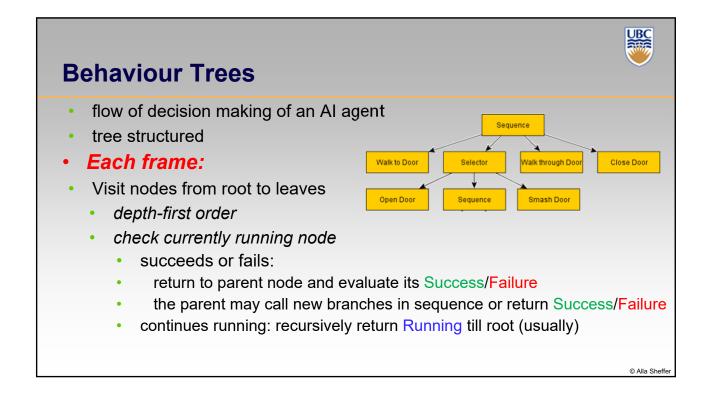


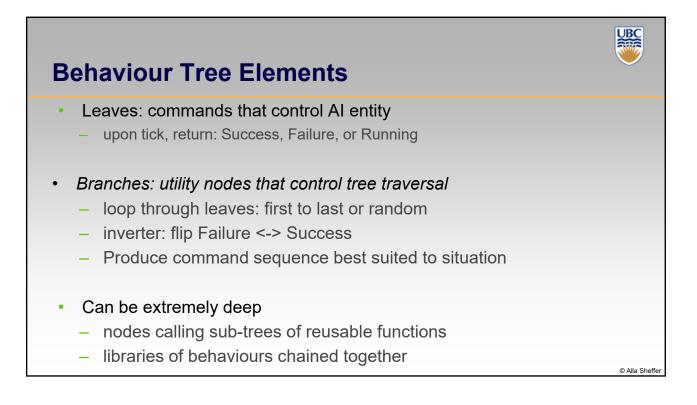


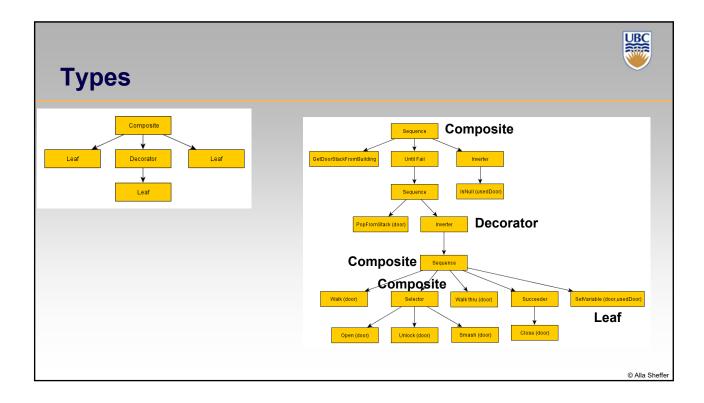


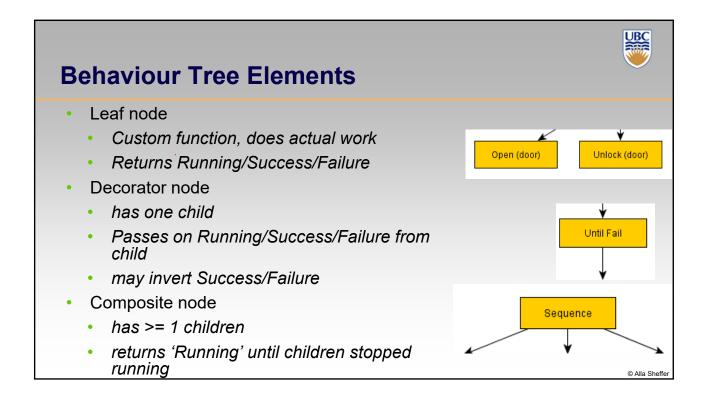


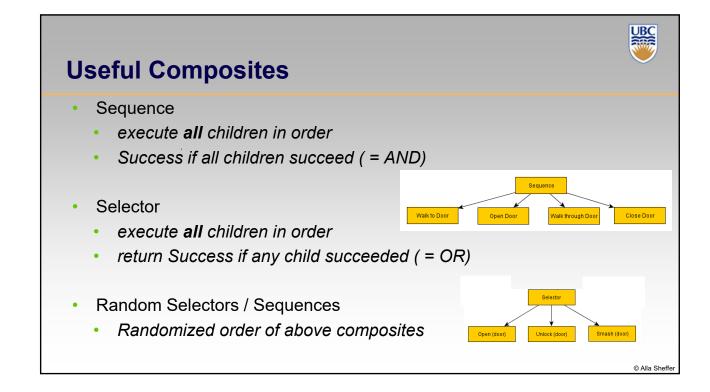


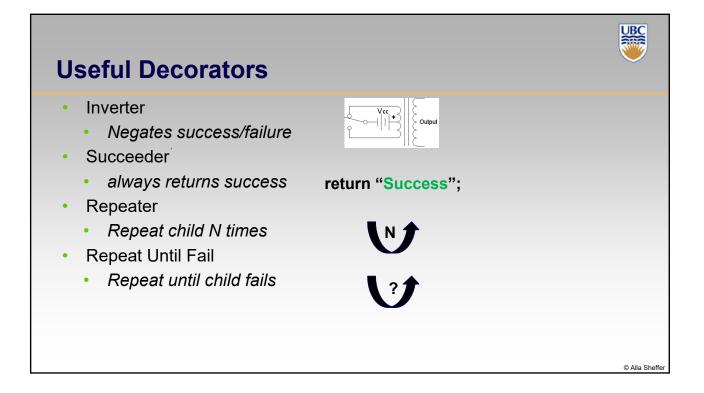












Leaf Nodes

Functionality

• init(...)

- Called by parent to initialize
- Sets state to Running
- Not called again before returning Success/Failure

process()

- Called every frame/tick the node is running
- Does internal processing, interacts with the world
- Returns Running/Success/Failure

- Example: Walk to goal location
 - Sets goal position for path finding
 - Computes shortest path
 - Sets character velocity
 - Returns

 success: Reached destination
 failure: No path found
 running: En route

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