CS343
Artificial Intelligence

Prof: Peter Stone

Department of Computer Science
The University of Texas at Austin
Good Morning, Colleagues
Good Morning, Colleagues

Are there any questions?
Logistics

- Problems with the assignment?
Logistics

- Problems with the assignment?
- Next week’s assignments up
Logistics

- Problems with the assignment?
- Next week’s assignments up
- AAAI, Form for AI
Logistics

- Problems with the assignment?
- Next week’s assignments up
- AAAI, Form for AI
- Reading responses good overall
Terms you should Understand

- Goal formulation
- Problem formulation
- Search
- Execute
Defining a Problem

- Initial state
- Possible actions
- Transition model
- Goal test
- Path cost function
Measuring problem solving performance

- Completeness
- Optimality
- Time complexity
- Space complexity
Types of Searches

- BFS
- DFS
- UCS
- Depth-limited search
- Iterative deepening
Next week: Relaxing the Assumptions

- Textbook readings: continuous spaces, nondeterminism, partial observations, unknown environments, ...  
- Responses both Monday and Wednesday  
- Search programming assignment