

CSCI 5582

Artificial Intelligence

Lecture 12
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Today 10/12

- Review
- Basic probability
- Break
- Belief Networks

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Review

- Where we are...
 - Agents can use search to find useful actions based on looking into the future
 - Agents can use logic to complement search to represent and reason about
 - Unseen parts of the current environment
 - Past environments
 - Future environments
 - And they can play a mean game of chess

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Where we aren't

- Agents can't
 - Deal well with uncertain situations (not clear people are all that great at this)
 - Learn
 - See, speak, hear, move, or feel

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Exercise

- You go to the doctor and for insurance reasons they perform a test for a horrible disease
- You test positive
- The doctor says the test is 99% accurate
- Do you worry?

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An Exercise

- It depends; let's say...
 - The disease occurs 1 in 10000 folks
 - And that the 99% means that 99 times out a 100 when you give the test to someone without the disease it will return negative
 - And that when you have the disease it always says you are positive
 - Do you worry?

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