CS343
Artificial Intelligence

Prof: Peter Stone

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The University of Texas at Austin
Good Afternoon, Colleagues
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Are there any questions?
Logistics

- Late readings accepted until the night before the exam (5/11)
- Final: Wednesday May 12th, 2-5pm
Tournament Qualifiers

- dtkraftAgents (David)
- NormChomsky (Lon)
- DbAgents (Diego)
- AdamNick (Adam and Nick)
- SpecialAgents (Jackie and Dustin)
- TheAvengingBlowfish (Bethany)
Round Robin

1. AdamNick: 7 matches won (qualified)

2. SpecialAgents: 6 matches won (qualified)

3. DbAgents: 6 matches won (qualified)

4. dtkraftAgent: 5 matches won (qualified)

5. TheAvengingBlowfish: 2 matches won

6. NormChompsky: 1 matches won
Semifinals

- AdamNick vs. dtkraftAgent
Semifinals

- AdamNick vs. dtkraftAgent (7-2)
Semifinals

- AdamNick vs. dtkraftAgent (7-2)
- SpecialAgents vs. DbAgents
Semifinals

- AdamNick vs. dtkraftAgent (7-2)
- SpecialAgents vs. DbAgents (0-9)
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3rd place game: dtkraftAgent vs. SpecialAgents
Semifinals

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3rd place game: dtkraftAgent vs. SpecialAgents (7-2)

Final: AdamNick vs. DbAgents
Semifinals

- AdamNick vs. dtkraftAgent (7-2)
- SpecialAgents vs. DbAgents (0-9)

3rd place game: dtkraftAgent vs. SpecialAgents (7-2)

Final: AdamNick vs. DbAgents (8-1)
Final Rankings

1. AdamNick (5% bonus)
2. DbAgents (4% bonus)
3. dtkraftAgent (3% bonus)
4. SpecialAgents (1% bonus)
5. TheAvengingBlowfish (1% bonus)
6. NormChompsky (1% bonus)

Congratulations to all!

Peter Stone
Pending Questions

• Is *qualia* important? (subjective experience)
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- What’s so important about agents being in the physical world?
- Is the brain a machine?
  - Is the brain just a bunch of neurons? Can they be replaced?
  - What is the mind? (Is there a soul?)
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• What do I think about ethical side?
  • Who’s liable for a crash?
  • Would declaring AI unethical stop progress?
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- What am I looking forward to?
Course Recap

- **First weeks**: search (BFS, A*, minimax, alpha-beta)
  - Find an optimal plan (or solution)
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- **Next:** MDPs —
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• **Next:** MDPs — towards reinforcement learning
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  - Still know transition and reward function
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- **Before Midterm:** Reinforcement learning
  - Policy without knowing transition or reward functions
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Course Recap (cont.)

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- Bayesian networks – state estimation/inference
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  - Also Bayesian networks for **classification**
  - A type of **machine learning**
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  - Just a taste – focus on concept learning = classification
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  Sense, decide, act
  Maximize expected utility
Topics not covered

- Constraint satisfaction (Chapter 6)
- Knowledge representation and reasoning (Chapters 7-9, 11, 12)
- Game theory and auctions (Sections 17.5, 17.6)
- Aspects of learning (Chapters 18, 19)
- Natural language (Chapters 22, 23)
- Vision (Chapter 24)
- Robotics (Chapter 25)
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- 3 hours rather than 1 hour and 15 minutes
- Sample - Dan Klein’s Spring 2009 exam with solutions
My Perspective

- I’ve enjoyed teaching this class!
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THANKS!!!
Surveys

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- Positive and negative feedback useful
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- Most important: course rating, instructor rating, written comments