1 handout: slides
Class Summary

- Past
- Present
- Future
- AI at UNH
- Evaluations

Semantic Parsing
assignments:

- perception: supervising learning (handwriting recognition), unsupervised learning (shape finding), particle filtering
- planning: navigation, motion planning, domain-independent task planning, MDP planning
- reasoning: constraint satisfaction, propositional satisfiability, first-order logic theorem proving

and:

- perception: HMMs
- acting: anytime and real-time planning, control
- optimization: tree search

Not: cognitive modeling, philosophy, impact / politics
Present

- Fri Dec 11: exam review
- Mon Dec 14 9-1: project presentations
- Tue Dec 15 1-3: final exam
- Thu Dec 17 3pm: final paper (hardcopy + PDF)
Future

- (Spring 2016: CS 758/858 Algorithms)
- UNH AI group: meets weekly (see unh-ai.pbworks.com) sign up for the mailing list!
- Spring 2016: CS 980 Planning for Robots
- Spring 2016: Chris Amato: CS 780/880 Probabilistic AI and Machine Learning
- Fall 2016: Chris Amato: CS 980 Planning Under Uncertainty for Single and Multi-robot Systems
- Val Schmidt (CCOM): ASV project
- May-Win Thein (ME): controls, senior projects
- heuristic search
  - bounded suboptimality
  - real-time search
  - goal achievement time

- motion planning
- multi-level planning
- open world planning
- POMDPs
- partially-observable POMDPs (Chris Amato)
- Decentralized POMDPs (Chris Amato)
- deployments on robots
These are important! I take them seriously and so does my boss.

For free response text, please address:

1. Things that were good about the class, things that need work.
   specific suggestions or general comments!
2. Things that I did well, things that I should work on.
   Things that Bence did well, things that Bence should work on

Thanks.
Semantic Parsing

- Structure in Language
- Parsing
- World Knowledge
- Compositional Semantics
- EOLQs
Structure in Language

1. sentences: discourse
2. sentence: syntax
3. word: morphology

Parsing/generation
logical form
The town councilors refused to give the demonstrators a permit because they feared violence
The town councilors refused to give the demonstrators a permit because they advocated violence
commonsensereasoning.org/winograd.html
www.cs.utexas.edu/~mooney/cs388 (slides 19 and 136)
lambda calculus (J&M p548)
yoavartzi.com/tutorial
amr.isi.edu
Nope.