Project Day! *plus* a Few Final Notes

www.patheos.com/blogs/americanbuddhist/2015/06/buddhist-funerals-for-robot-dogs-in-japan-yes.html

Schedules

- ◆ Dates from here on out
  - ◆ May 14: Project code, video, and writeup due
  - ◆ May 15: Robots in mazes (ENGR atrium)
    - ◆ I will be there to start assembling mazes by 8:30
    - ◆ Feel free to come assist! (Can't change your code, though.)
  - ◆ May 17: Optional updated writeup due
  - ◆ May 20: HW 4 due
  - ◆ May 22: Final exam *and robot turnin*
  - ◆ Class Participation grades out by Wednesday
    - ◆ Come talk to me if needed
- ◆ Possible final exam review?

A Note on Strategies

- ◆ Pretty much everyone is doing some variant of DFS
  - ◆ Which can be purely behavior-based, if you're careful
- ◆ Almost nobody is doing physical reasoning
- ◆ When you calculate complexity, consider your cost function – what is DFS efficient *in*?
- ◆ Consider worst-case backtracking
- ◆ What's worse for a little robot than for a pure software agent?
  - ◆ Can you improve on that?

Tuesday

- ◆ First priority: make sure everything works reliably!
- ◆ Goal: Solving a maze…
  - ◆ Successfully
  - ◆ Without bumping into anything
  - ◆ (Relatively) **quickly/efficiently**
  - ◆ In the presence of noise
- ◆ I didn't mean for it to be big riddle, so….
  - ◆ I said the floors are made of cardboard.
  - ◆ Not the walls.

Time to say goodbye…

- ◆ Please bring a **disassembled** robot to the final
  - ◆ (Or give it to us earlier)

https://www.dezeen.com/technology/156-sony-aibo-robot-dogs-funeral-buddhist-temple-japan-05-02-2018/

Time to say goodbye…

- ◆ Small parts should be contained
  - ◆ In little ziplock bags or other small, reasonably sturdy, closed containers
- ◆ Please be careful during disassembly
- ◆ Remove batteries!
  - ◆ Get battery cases and boxes from me

Final Bits

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◆ This has been a fantastic class, and I've enjoyed you guys.

◆ Questions?
  ◆ I'll be here for the next hour and a half

◆ Course evals: Please do fill these out!