COGS 1

Week 2
Animal Cognition and Embodied Inquiry
Announcements

• Quiz will be on TED starting this Friday
  • you have 20 minutes to complete it once you start it, and one chance to do it before Saturday at 4pm

• SONA is being approved; any credits you gain now can be assigned to COGS 1 later
This Week’s Questions

- What is non-human cognition
  - how do we study it?

- What is embodied inquiry
  - How do children learn/interact
  - cognitive ethnography
Species Specific Motor Constraints

• What sort of experiments might a dolphin have an issue with?
  • why?
  • other advantages?
• What advantage does a primate have over a rodent in terms of sensori-motor control?
Species Specific Motor Constraints

- What is Taste Aversion Learning?
  - What does prospective encoding cause?
  - Why does it change?
Species Specific Motor Constraints

- Explain the “greedy giveaway task”
- How can chimps overcome their shortcomings on this task?
General Learning Principles

• What’s this?
General Learning Principles

• What strategy do pigeons employ here?

• Do all birds perform the same?
  • why?

Peck White-on-Black, Get Reward
Socio-Ecology

• What must social primates keep track of?
  • What are some caveats?

• Why are mazes ecologically valid for rats?
  • How do different cognitive theories predict their behavior?
Symbol Use

• Who can do it?
  • How do we know?

• What sorts of skills come along with this?
Children explore museums

• How was the main type of data collected?

• What sort of modalities did this capture?
Children explore museums

• Once engaged, what do children do first in museums usually? • then what? specifically how?

• What does that say about how museum exhibits should be designed for learning?
Children explore museums

• When learning information, what is an immersive learning experience?

• What is cognitive ethnography?
Improving the Education System

• What’s the black box of educational reform?
• which part is most exciting for change?
  • any parts in particular
• What’s wrong with our classroom now?
Remember!

TED Quiz this Friday at 4pm until Saturday at 4pm