“LOW-LEVEL” COGNITIVE SKILLS

ANIMALS, AI AND THE FUTURE WORKPLACE

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Where to put the cup?
How to navigate there?
What to do about obstacles?
What is a “slide”?
What is a “title”?
BASIC “COMMON SENSE” SKILLS

Very little variation in human adults, but active area of research in animals and young children.

Represent huge step-changes in development: e.g. “object permanence”

Fundamental part of everyday (and professional) functioning
THE ANIMAL AI OLYMPICS

- Implementing tasks from animal cognition for AI
- All tasks built from a limited number of objects
- All objects available for training, but tasks withheld.

90 object permanence tasks
• top 10 agents solve 8.6%
• Top agent solves 25.6%

No agents demonstrated this skill
PROVIDES THE BASIS FOR MEANINGFUL COMPARISON