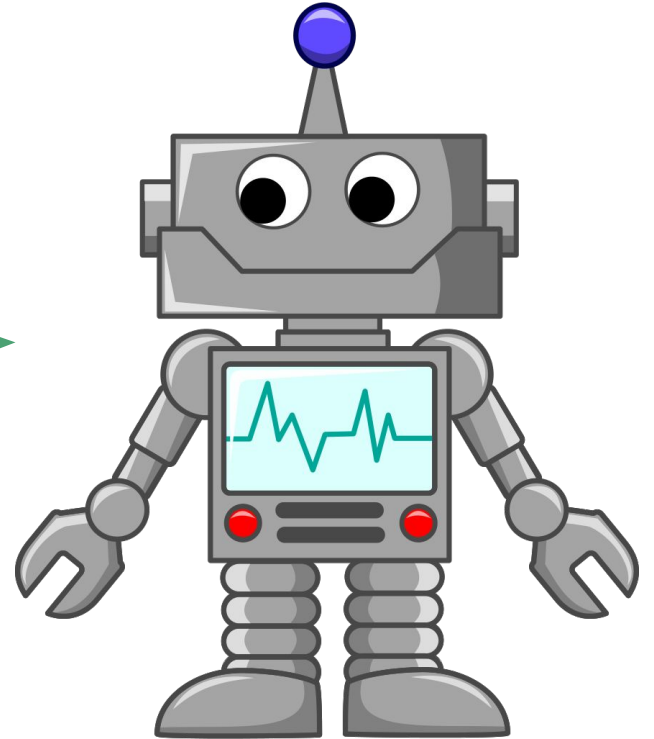


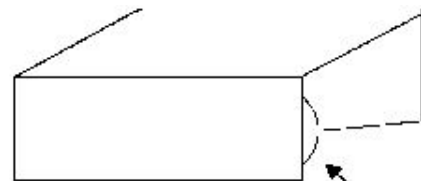
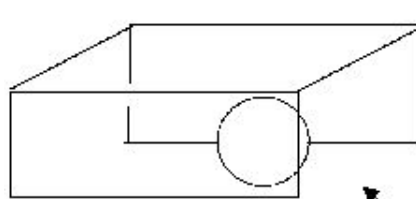
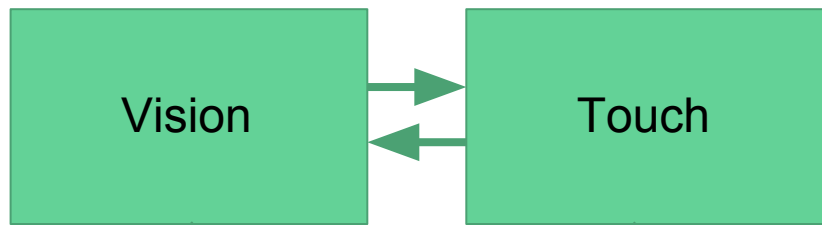
The Development of Embodied Cognition: Six Lessons from Babies

Linda Smith and Michael Gasser
Presented by: Angela Lin

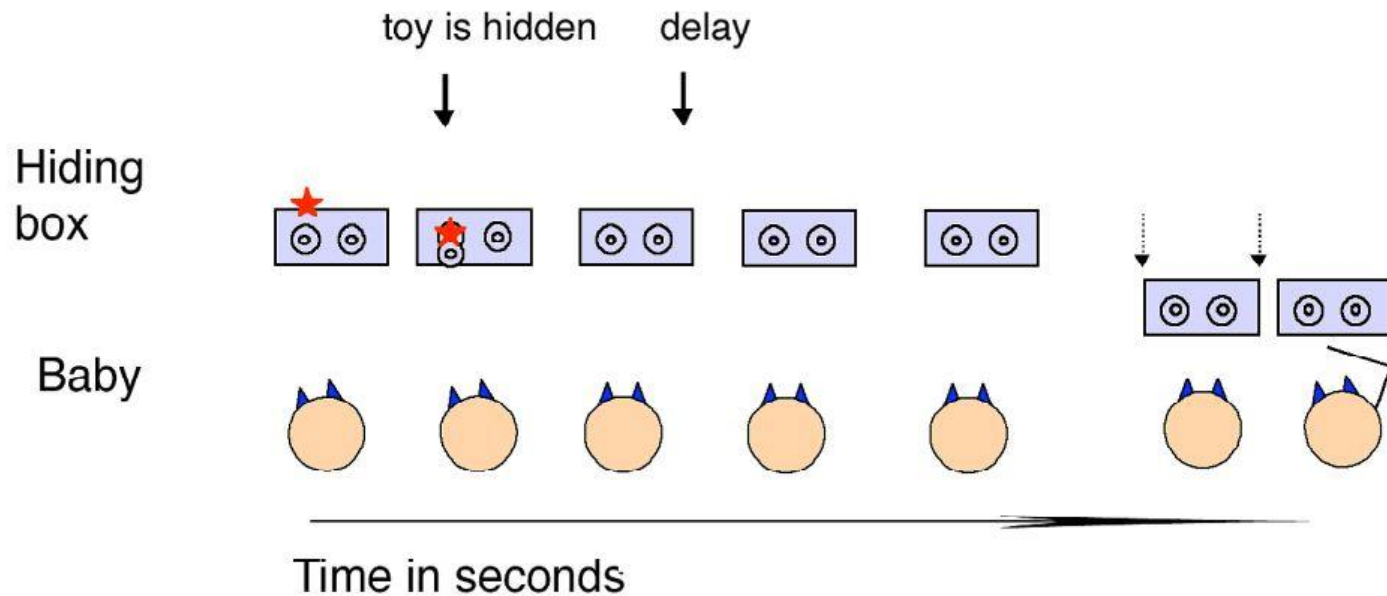
What lessons can we apply from the development of babies to the creation of AI systems?



1. Be multi-modal



2. Be incremental.



3. Be physical.

a.



b.



I see a dax in here.

c.

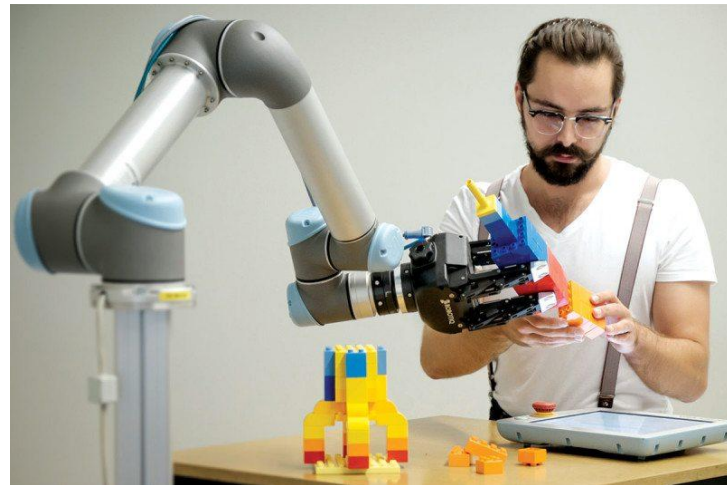


Where is the dax?

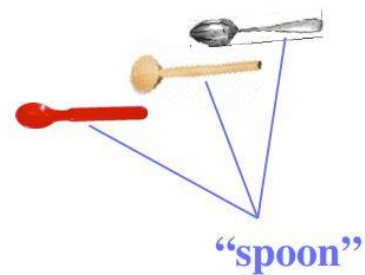
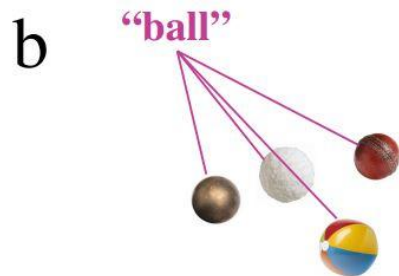
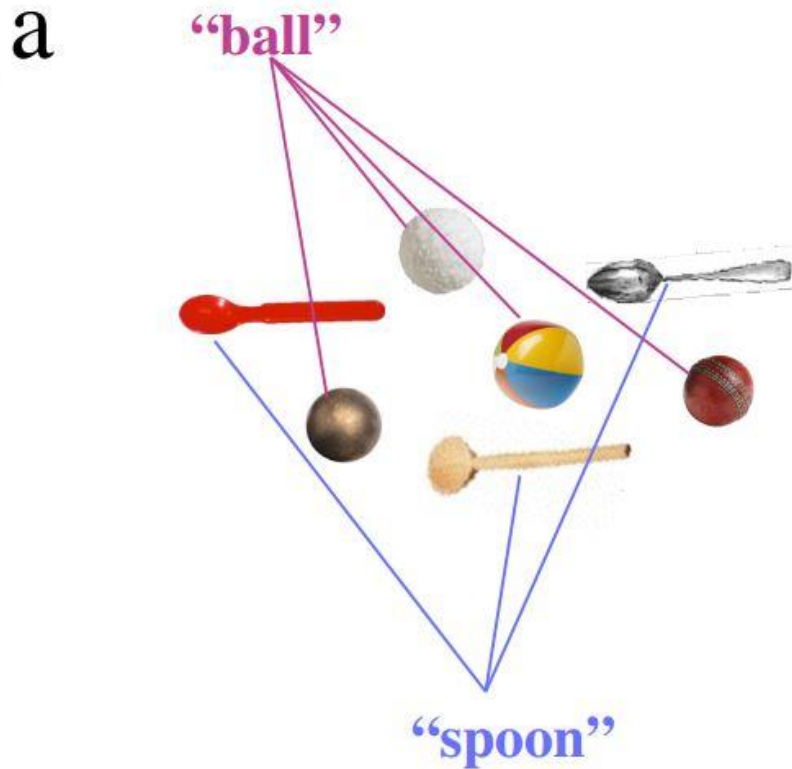
4. Explore



5. Be social



6. Learn a Language



Strengths and Weaknesses

- Identifies key lessons from developmental psychology that may be transferred to artificial intelligence
- It is not yet clear how we can apply all of these lessons.

Open Questions and Likely Extensions

- How can we incorporate the “Be physical” lesson into our AI systems?
- Apply the notion of orthogonality in language to learning algorithms for better generalization

Recap: Six Lessons from Babies

1. Be multi-modal
2. Be incremental
3. Be physical
4. Explore
5. Be social
6. Learn a language