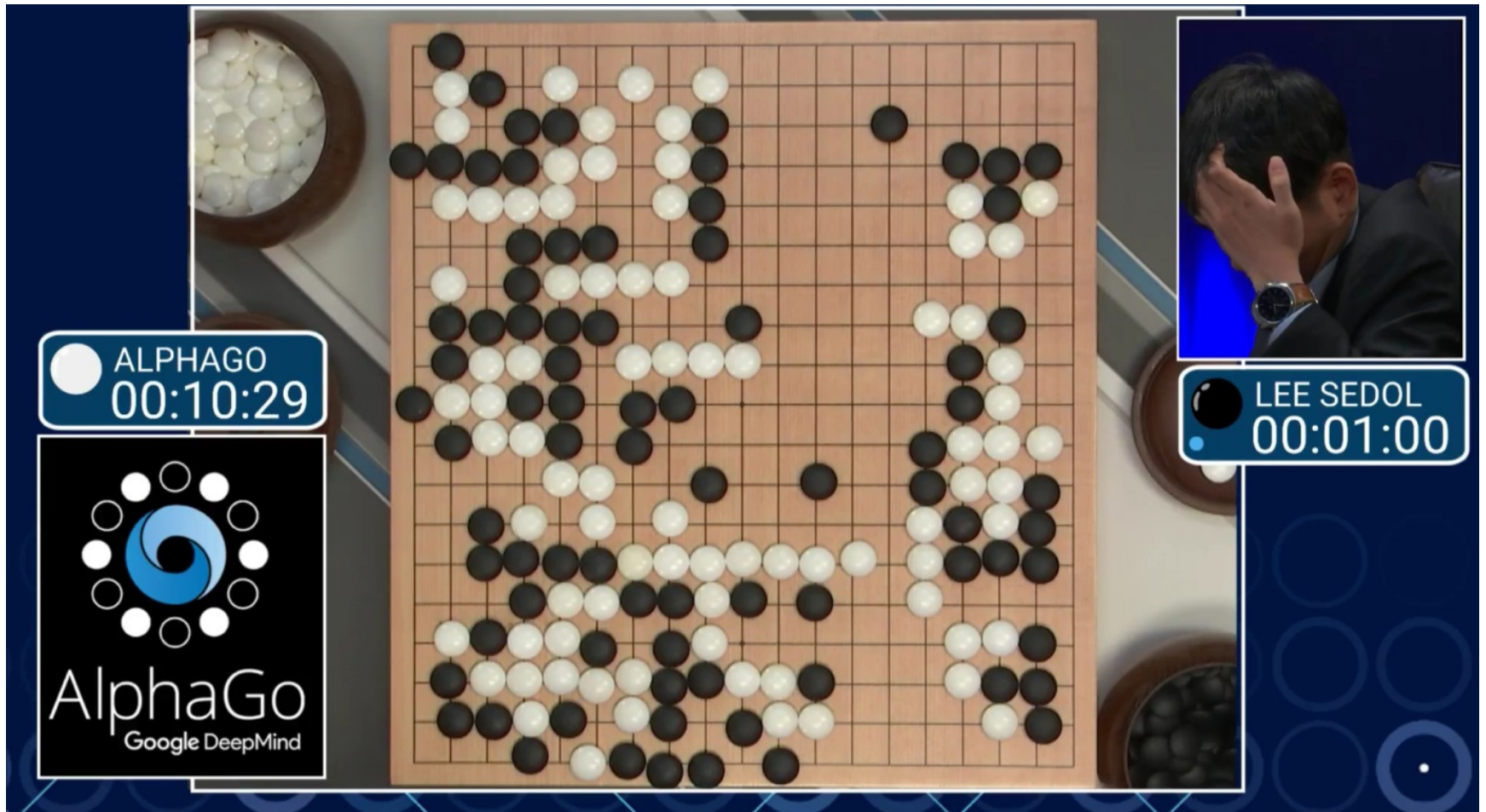


Lec1: What is AI?

AlphaGo



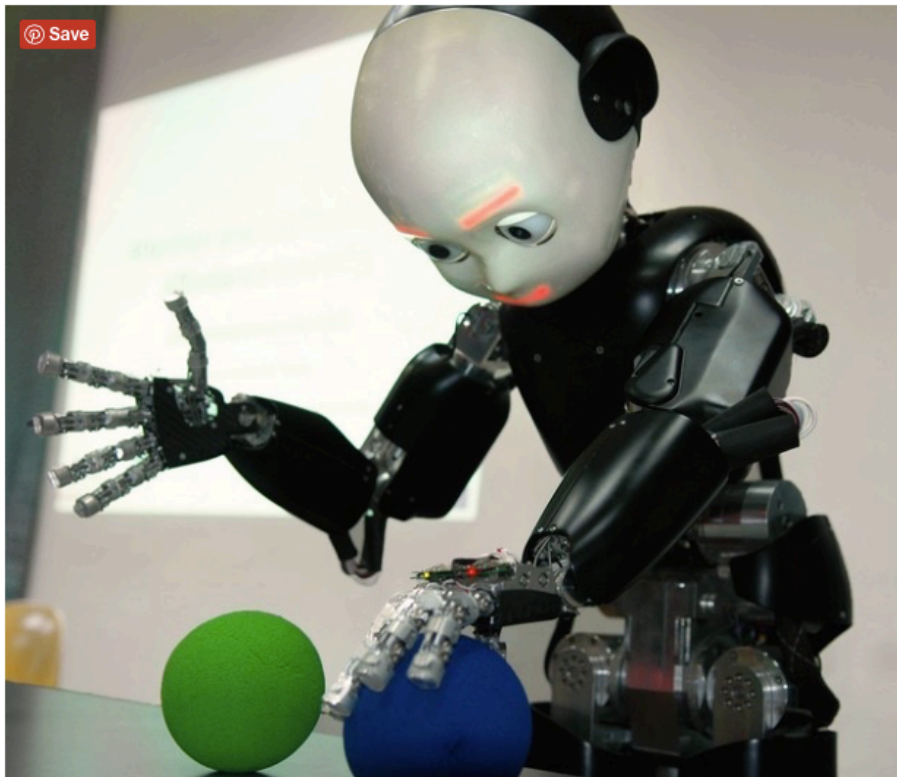
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Why AlphaGo Is Not AI

By Jean-Christophe Baillie

Posted 17 Mar 2016 | 20:50 GMT



Related Stories



AlphaGo Wins Final Game In Match Against Champion Go Player

The AI owes its success to self-training deep neural networks, which can, in

Is AlphaGo AI?

- Eye catching but wrong/misleading title
- AlphaGo is AI
- AlphaGo is a weak AI

Strong AI vs Weak AI

- Strong AI
 - Learn and do any task well
 - a.k.a. general AI, artificial general intelligence
- Weak AI
 - Only works well for a specific task

Consciousness/self-aware

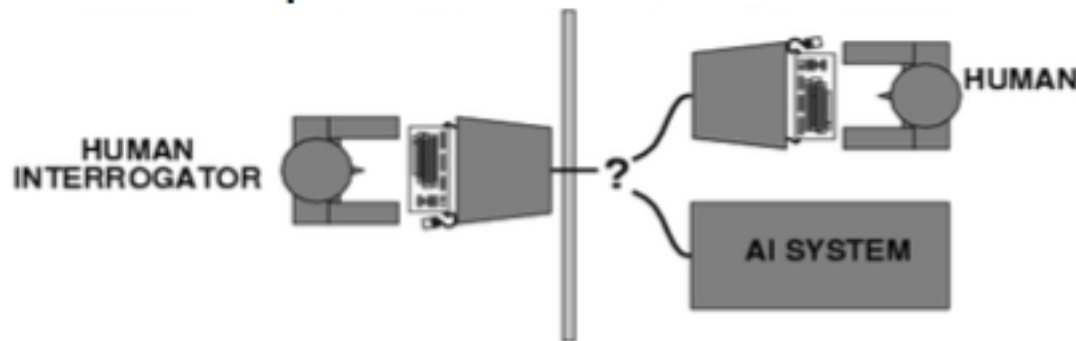
- Some believes **consciousness/self-aware** is crucial to create Strong AI.

What is AI?

- AI is intelligence exhibited by machines.
- In computer science, the field of AI research defines itself as the study of "intelligent agents": roughly speaking, any device that perceives its environment and takes actions that maximize its chance of success at some goal.

What is Turing test?

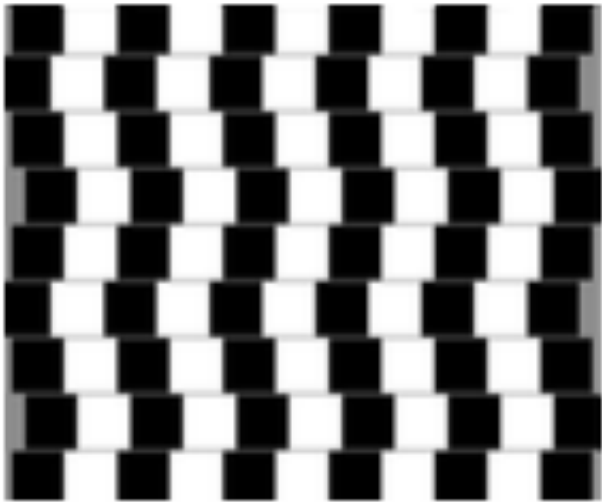
- An entity (e.g. computer) passes the test (and is deemed intelligent) “if a human interrogator, after posing some written questions, cannot tell whether the written responses came from a human or not”.



Some definitions of AI

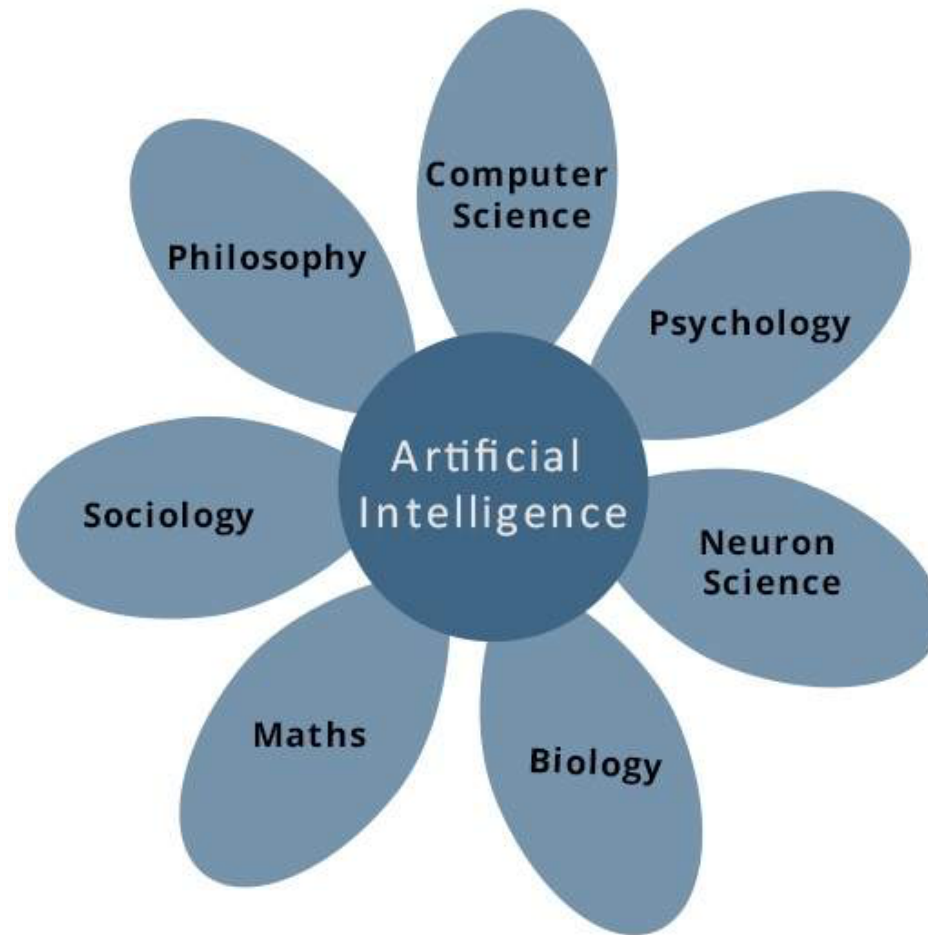
- Acting humanly
 - Turing test
- Acting rationally
 - Intelligent/Rational agents (Lecture 2)
- Thinking humanly
 - Cognitive modeling (catch thoughts, observe person in action, observe brain in action)
- Thinking rationally
 - Law of thoughts (logic)

Thinking (humanly = rationally)?

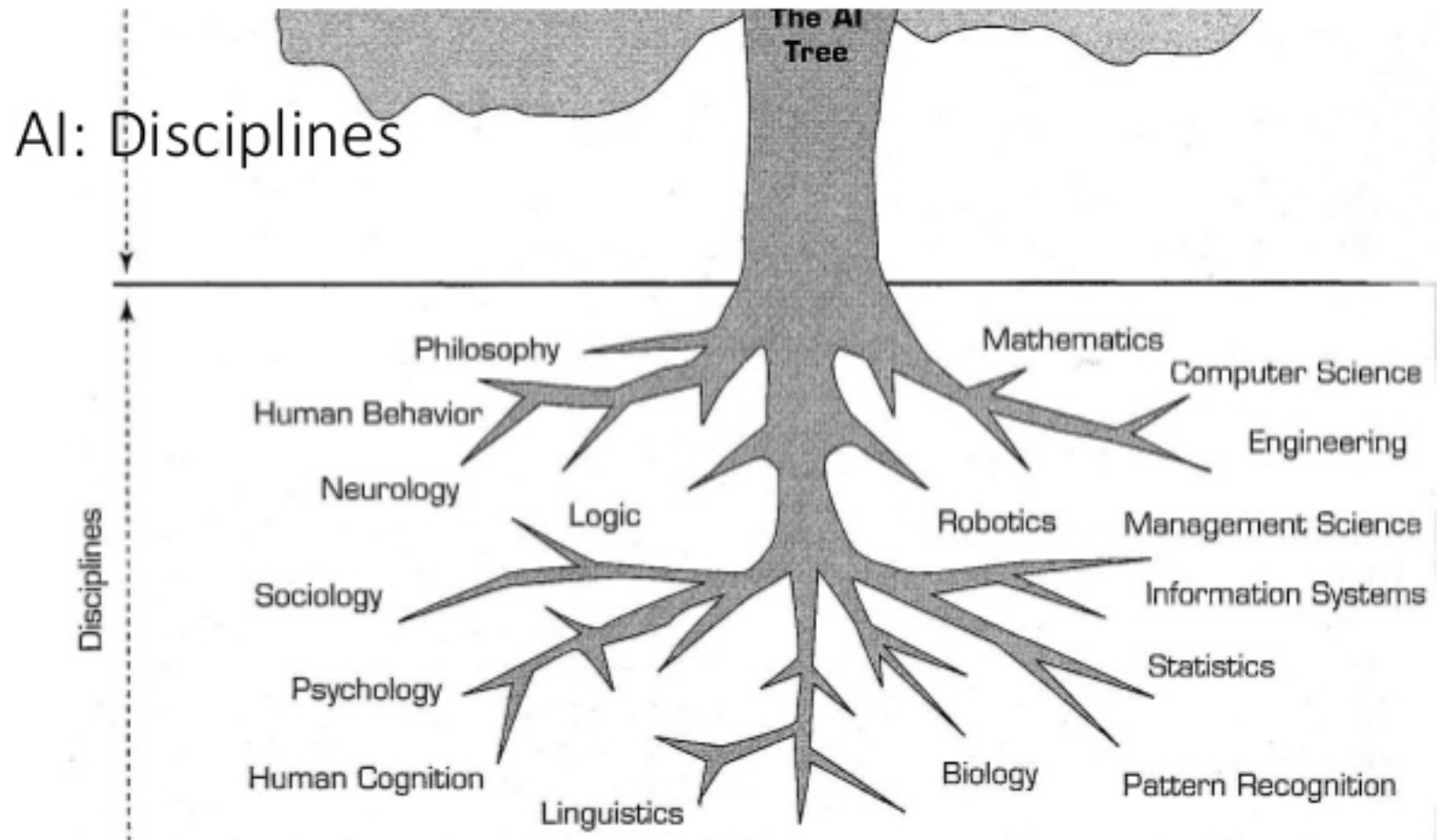


Humanly \neq Rationally

What Contributes to AI?



AI tree and root



Make sense of the buzz words

- Machine learning
- Big data
- Data-mining
- Pattern recognition
- Deep learning
- Computer vision
- Robotics
- ...

State-of-the-arts

- Examples
- Demos