

1 handout: slides

## Philosophy and AI

- Weak AI
- Strong AI
- Mind-Body
- Consciousness
- Ethics
- EOLQs

# Philosophy and AI

# Arguments Against Weak AI

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Philosophy and AI

■ Weak AI

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Can machines simulate intelligence? (Turing Test)

**disability** be kind, resourceful, have initiative, sense of humor, judge right from wrong, make mistakes, fall in love, enjoy strawberries, learn, use words properly, do something new

**incompleteness**

**informality** hard to formalize (similar to qualification problem):  
no finite set of rules

# Arguments Against Strong AI

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Can machines *really* think?

**intentionality** are representations in machine about something real?

if simulated storms are not wet, why are simulated thoughts actual mental processes?

**consciousness** can machine be aware of its own mental states and actions?

Turing: 'polite convention'

**phenomenology** can a machine have subjective experience

# The Mind-Body Problem

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**dualism** Descartes (1641): separate realms that intersect.

How?

gap: explaining brain function does not explain subjective experience

**physicalism** mental states are physical states. But is brain-in-a-vat experience a different mental state?

**functionalism** mental state is causal connection between input and output. But in neuron replacement experiment, does experience stay the same?

1. if output is same, artificial brain is conscious. then is a lookup table conscious.

2. if causation not crucial, artificial brain is not conscious. consciousness is epiphenomenal (not causally related to behavior).

3. experiment is impossible

# Consciousness

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- **naturalism:** consciousness caused by biological details in brain, not pure 'syntax'. eg, Chinese room.
- hard to measure!
- subjective experience (qualia). eg, inverted spectrum experiment.
- does it matter for making intelligent systems?

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- should AI be pursued? jobs, evil uses, danger  
autonomous weapons  
value alignment (eg, uncertainty in objective)  
transhumanism
- should robots be moral agents?  
Bryson: no

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- What question didn't you get to ask today?
- What's still confusing?
- What would you like to hear more about?

Please write down your most pressing question about AI and put it in the box on your way out.

*Thanks!*