

Emergent properties

- The mind may be an emergent property of the brain (Searle).
- Emergence occurs when the global properties of a system arise from the more local interaction of its parts.
- Water emerges from the interaction of H₂O molecules, but cannot be explained entirely by their individual properties or interactions.

Can a machine have a mind?

- According to the *strong AI view*, the answer is yes. It is a matter of building more complex, sophisticated machines. (e.g. Dennett)
- According to the *weak AI view*, the answer is no. The mind is either nonphysical or is so complex it can never be reproduced artificially. (e.g. Searle)

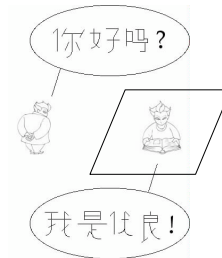
Turing Test

- When can we say that a machine is intelligent?
- Loebner Prize



<http://www.pandorabots.com/pandora/talk?botid=f5d922d97e345aa1>
<http://www.jabberwacky.com/>

The Chinese room



- Searle:
Can a person who follows rules to translate Chinese ever understand the language?