



what is ai

Definitions of AI can be organized into four categories:

These definitions are concerned with thought process and reasoning

- Acting Humanly
- Thinking Humanly
- Acting Rationally
- Thinking Rationally

Measure success in terms of human performance

<u>T.H.</u> ① ? (ex. problem solving, learning)	② ? <u>T.R.</u> (ex. computations that make it possible to perceive, reason, and act)
<u>A.H.</u> ③ ? (ex. disease diagnosis)	④ ? <u>A.R.</u> (ex. intelligent agents)

Measure success in terms of ideal performance measure (rationality).

These definitions address human behavior



neuroscience(study of the nervous system, particularly the brain)

fMRI(used to discover what brain regions correspond to what aspect of cognitive functioning)

modern ai

concentrates on general principles of rational agents and on components for constructing them

agent

operate autonomously, perceive the environment, persist over a prolonged time period, adapt to change, and create and pursue goals

thinking rationally

sylogism(kind of logical argument that applies deductive reasoning to arrive at a conclusion based on two or more propositions that are asserted or assumed to be true)

Laws of thought

logic(governs the operation of mind)

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