





How humans think!

Think like Humans

How humans think!

Act like Humans

How humans behave!

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Think Rationally

How to make rational decisions

Act like Humans

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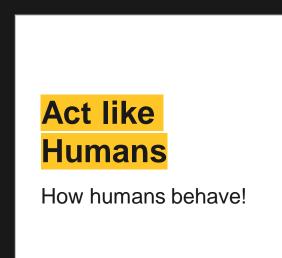
Act Rationally

How to act rationally to achieve a certain goal



How humans think!

Need to understand how humans think: Cognitive Science



Need to understand how humans behave: Pass the Turning Test



Need to understand how humans behave: Pass the Turning Test

- Natural Language Processing
- Knowledge Representation
- Reasoning
- Machine Learning

Need to define "What is rational thinking"?



How to make rational decisions

Need to define "What is rational (right) thinking"?

- A philosophical question!
- Aristotle was the first to address it
- Development of Logic and inference rules that give correct results when given correct premises.

Think Rationally

How to make rational decisions

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Think Rationally

How to make rational decisions

Premises:

- 1. Socrates is a man
- 2. All men are mortal



Conclusion:

Socrates is mortal

Need to define "What is rational behavior"?



How to act rationally to achieve a certain goal

Need to define "What is rational behavior"?

- Defined in terms of a given goal.
- Rational acting leads to achieving the best possible outcome.

Act Rationally

How to act rationally to achieve a certain goal

Neuroscience

Think like Humans

How humans think!

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How to make rational decisions

Logic

Psychology

Act like Humans

How humans behave!

Act Rationally

How to act rationally to achieve a certain goal

Economics

Neuroscience

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Logic

Math
Computer Engineering
Linguistics
Control Theory

Economics

There are many definitions of Al, all rely on theories from other disciplines.

The most common approach to Al leans on definitions relating it to Rational Action.

Al Requires

- Natural Language Processing
- Knowledge Representation
- Reasoning under certainty and uncertainty
- Machine Learning
- Perception & Acting that utilizes
 Computer Vision & Robotics

Thank you!

