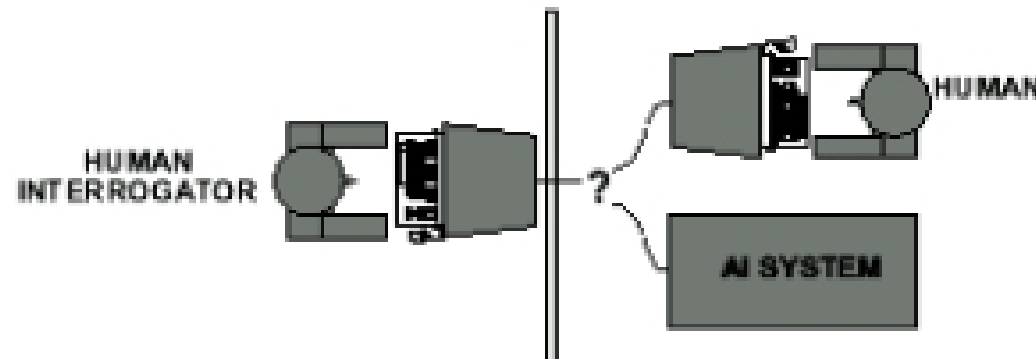


# Last Time: Acting Humanly: The Full Turing Test

- Alan Turing's 1950 article *Computing Machinery and Intelligence* discussed conditions for considering a machine to be intelligent
  - “Can machines think?”  $\leftrightarrow$  “Can machines behave intelligently?”
  - The Turing test (The Imitation Game): Operational definition of intelligence



- Computer needs to possess: Natural language processing, Knowledge representation, Automated reasoning, and Machine learning
- Problem: 1) Turing test is not reproducible, constructive, and amenable to mathematic analysis. 2) What about physical interaction with interrogator and environment?
- Total Turing Test: Requires physical interaction and needs perception and actuation.

# Last time: The Turing Test



<http://aimovie.warnerbros.com>

<http://www.ai.mit.edu/projects/infolab/>

# Last time: The Turing Test

The screenshot shows a chatbot interface with two chat windows. The top window shows a chatbot saying "Hello, my name is Chatbot. What's your name?" and a user replying "Laurent". The bottom window shows the same chatbot message but with the user's input field empty. In the background, there is a blurred image of a young boy with his hand raised, and a navigation menu on the right side of the page.

CHATBOT Hello, my name is Chatbot. What's your name?

YOU Laurent

CHATBOT Hello, my name is Chatbot. What's your name?

YOU

1.0 LOVE & MACHINES

2.0 ROBOTS

2.1 TIMELINE

2.2 ROBOT RESOURCES

3.0 THE ART OF A.I.

3.1 MODELS & MODEL MAKERS

3.2 SKETCHES

3.3 STORYBOARDS

3.4 PHOTOS

4.0 PLAY

4.1 MULTIMEDIA

4.2 TURING TEST

4.3 MORE GAMES

4.4 A.I. PUZZLER

5.0 A.I. TODAY

6.0 A.I. NEWS

A.I. NOW PLAYING

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