Chatbots, Machine Learning and Al: embracing our robot overlords



CodeYQL - October 17, 2016

What's a chatbot?

a computer program designed to simulate conversation with human users, especially over the Internet.

Examples

The Evolution of Bots 🗬 🔰







ELIZA (1966)

http://psych.fullerton.edu/mbirnbaum/psych101/Eliza.htm

- Developed at MIT, ran on IBM 704 mainframe
- Designed to mimic a conversation between a patient and a psychologist

A.L.I.C.E. (1995)

http://alice.pandorabots.com/

- Applied pattern matching heuristics to input
- Could maintain a reasonably cogent conversation

IBM Watson (2006)

- Designed to play Jeopardy! and own Ken Jennings at it
- Closed domain and constrained knowledge base

tay.ai (2016)

- Developed by Microsoft Research in 2016
- Twitter bot, designed to mimic the language patterns of a 19 year-old girl
- "Self-learning", but managed to just mimic deliberately offensive behaviour by Twitter users

The Turing Test

a test for intelligence in a computer, requiring that a human being should be unable to distinguish the machine from another human being by using the replies to questions put to both

The Chinese Room Argument

a program cannot give a computer a "mind", "understanding" or "consciousness",[a] regardless of how intelligently or human-like the program may make the computer behave

Discuss!