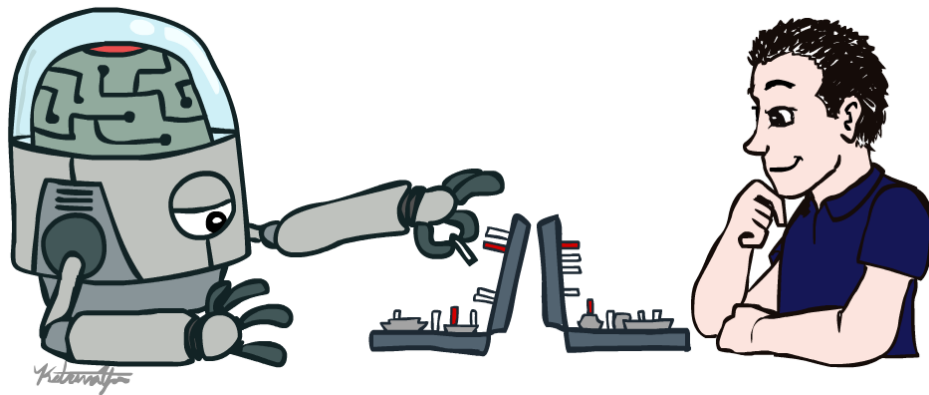# CS 411: Artificial Intelligence I
Introduction

Instructor: Prof. Ian Kash

University of Illinois at Chicago

Agenda for Today

- Questions about the Course

- Discussion of Introduction Video

- Python Demo and Questions on Homework 0

Invention of artificial neural networks

The bulletin of mathematical biophysics
⋮ December 1943, Volume 5, Issue 4, pp 115–133 | Cite as

A logical calculus of the ideas immanent in nervous activity

Authors   Authors and affiliations

Warren S. McCulloch, Walter Pitts

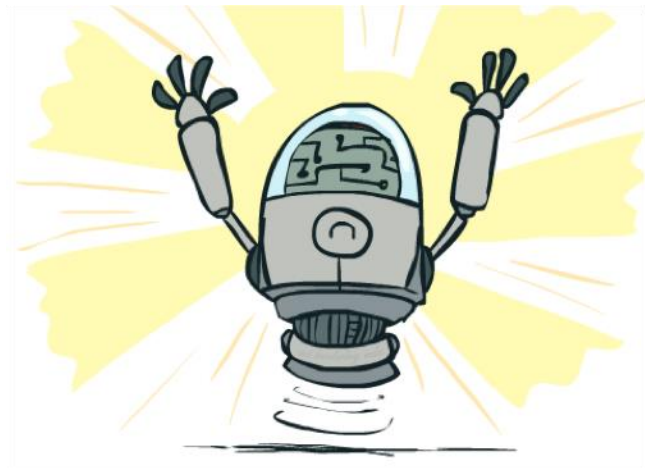"In 1943, neurophysiologist Warren McCulloch and mathematician Walter Pitts wrote a paper on how neurons might work … modeled a simple neural network using electrical circuits." https://cs.stanford.edu/people/eroberts/courses/soco/projects/neural-networks/History/history1.html

Warren McCulloch UIC College of Medicine;   Walter Pitts University of Chicago

What Can AI Do?

Quiz: Which of the following can be done at present?

- ✔ Play a decent game of table tennis?
- ✔ Play a decent game of Jeopardy?
- ✔ Drive safely along a curving mountain road?
- ❓ Drive safely along Halsted Avenue?
- ✔ Buy a week's worth of groceries on the web?
- ✘ Buy a week's worth of groceries at the farmer's market?
- ❓ Discover and prove a new mathematical theorem?
- ✘ Converse successfully with another person for an hour?
- ❓ Perform a surgical operation?
- ✔ Put away the dishes and fold the laundry?
- ✔ Translate spoken Chinese into spoken English in real time?
- ✘ Write an intentionally funny story?

Homework 0

- Python 3 Introduction / Refresher

- Piazza Icebreaker

- Due Sunday 11:59 PM

- Free Extensions Until Monday 9/6 11:59 PM