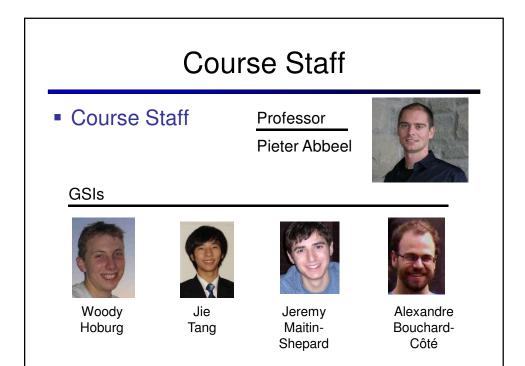
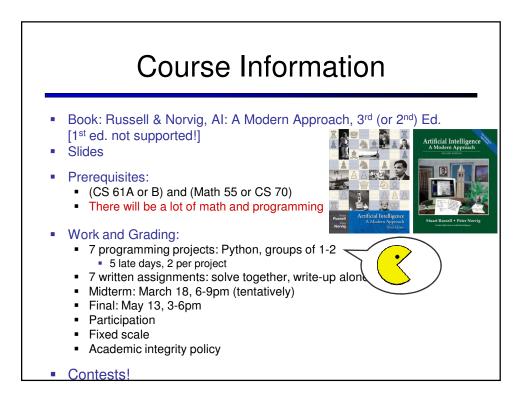
#### CS 188: Artificial Intelligence Spring 2010

# Lecture 1: Introduction 1/19/2010

Pieter Abbeel – UC Berkeley Many slides from Dan Klein.

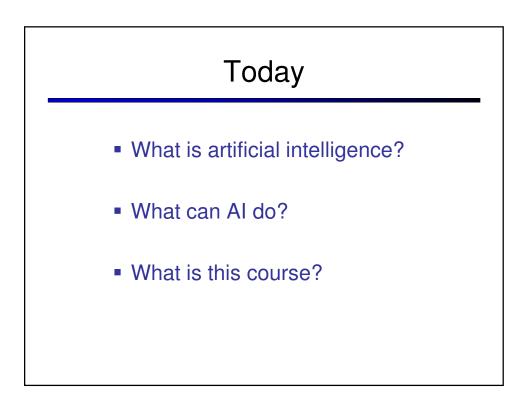
Course Information		
http://inst.cs.berkeley.edu/~cs188		
CS 188: Artificial Intelligence P U T E R S C I Spring 2010 E N C E Announcements Course Info Lectures Assignments Section FAQ Newsgroup		
Announcements [1/12710] Sections will start in week 2. You are free to sit in any section with space, but have priority in your own. [1/12710] Welcome to GS188! Check back for updates in the next few weeks. This webpage is currently under modernization for the new semester and may contain some outdated information.		
<ul> <li>Communication:</li> <li>Announcements on webpage</li> </ul>		
<ul> <li>Questions? Try the newsgroup!</li> <li>Staff email: cs188-staff@lists.berkeley.edu</li> </ul>		
Office hours: see website for schedule		

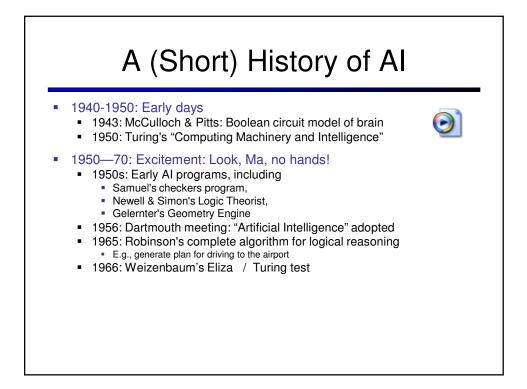


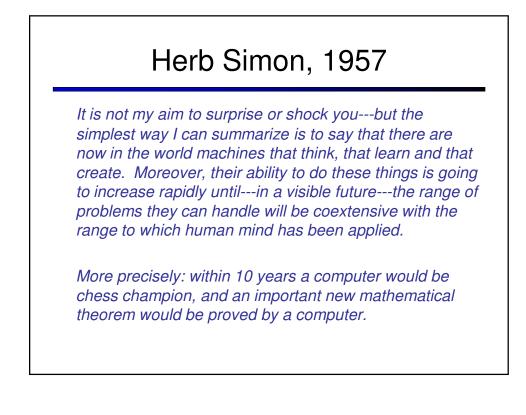


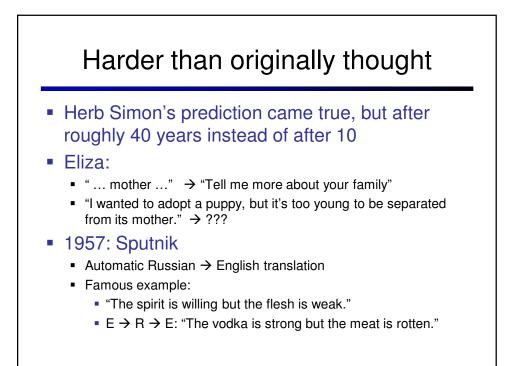
#### Announcements

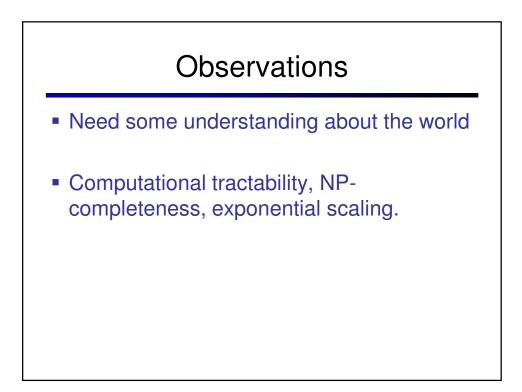
- · Important this week:
  - **P0: Python tutorial** going out on Thursday --- due next week Thursday
    - Lab hours Monday and Wednesday next week (tentatively)
    - · Get your account forms in front after class
  - W1: Search, going out on Thursday --- due next week Thursday
- Also important:
  - **Sections** start *next* week. You may change sections, but you have seating priority where you are registered. New section coming?
  - The **Waiting list** will take a while to sort out. We don't control enrollment. Contact Michael-David Sasson (msasson@cs) with any questions on the process.

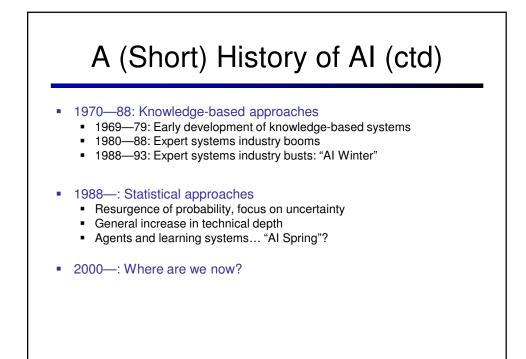


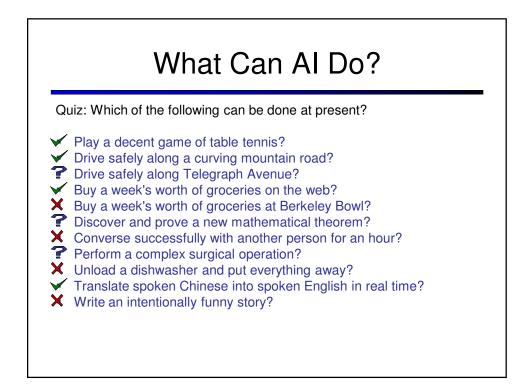


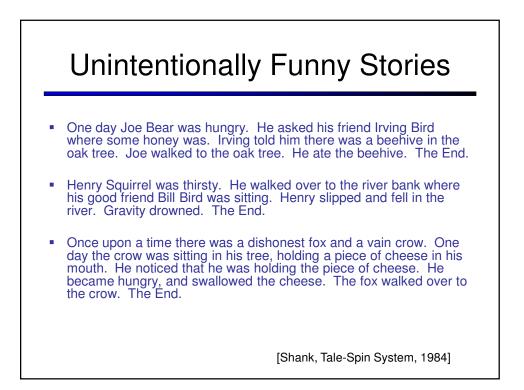


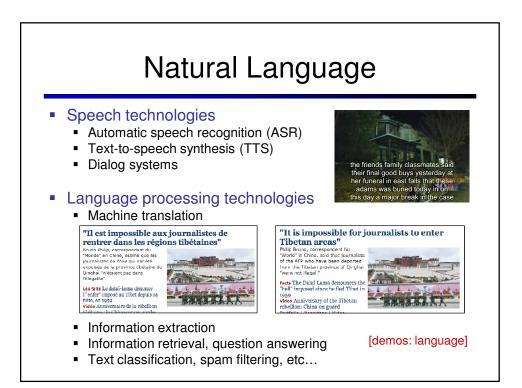


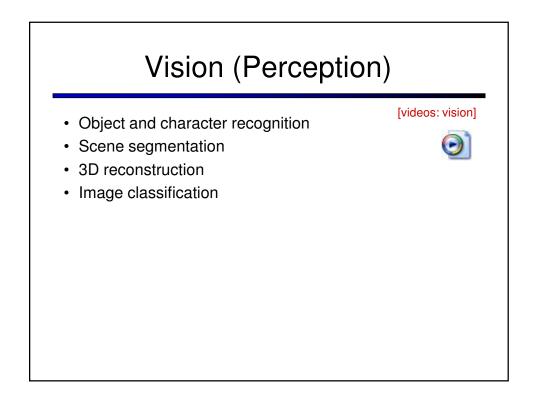


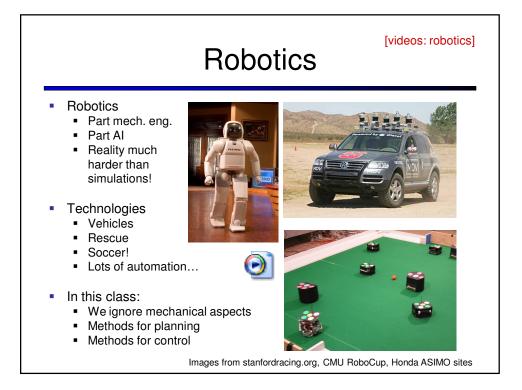


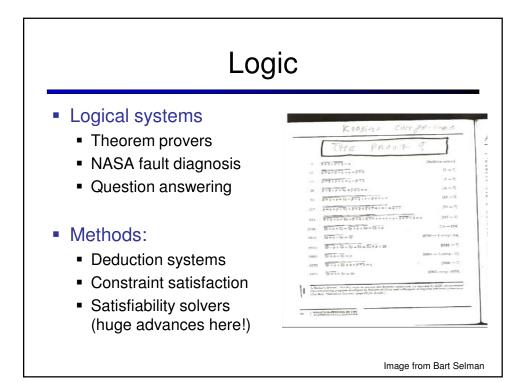


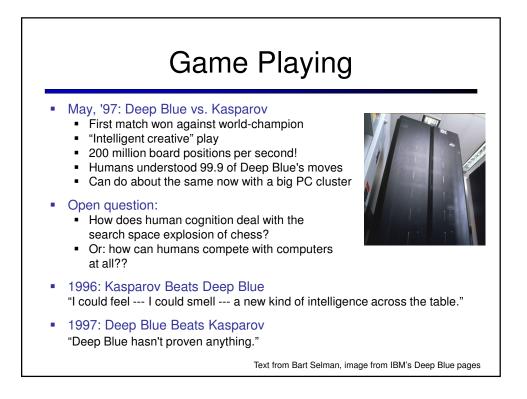












## **Decision Making**

- Scheduling, e.g. airline routing, military
- Route planning, e.g. mapquest
- Medical diagnosis
- Automated help desks
- Fraud detection
- Spam classifiers
- Web search engines
- Movie and book recommendations
- ... Lots more!

What is AI?				
The science of making machines that:				
	Think like humans	Think rationally		
	Act like humans	Act rationally		

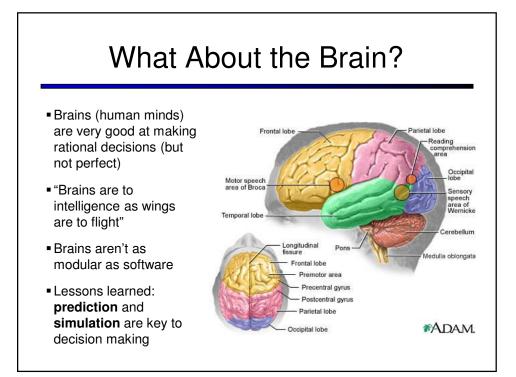
### **Rational Decisions**

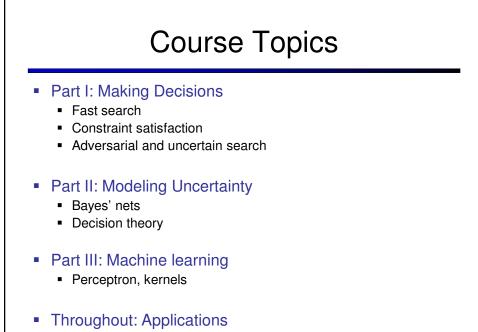
We'll use the term rational in a particular way:

- Rational: maximally achieving pre-defined goals
- Rational only concerns what decisions are made (not the thought process behind them)
- Goals are expressed in terms of the utility of outcomes
- Being rational means maximizing your expected utility

A better title for this course would be:

**Computational Rationality** 





Natural language, vision, robotics, games



See you Thursday.