Good Afternoon, Colleagues
Good Afternoon, Colleagues

Are there any questions?
Logistics

- Class registration
Logistics

- Class registration
  - Discussion leader for Tuesday
Logistics

- Class registration
  - Discussion leader for Tuesday
- Questions about the syllabus?
Logistics

- Class registration
  - Discussion leader for Tuesday
- Questions about the syllabus?
- Leftover problems with the assignment?
Logistics

- Class registration
  - Discussion leader for Tuesday
- Questions about the syllabus?
- Leftover problems with the assignment?
- Mailing list - announcements yesterday
Logistics

- Class registration
  - Discussion leader for Tuesday
- Questions about the syllabus?
- Leftover problems with the assignment?
- Mailing list - announcements yesterday
  - CC Mazda and me on everything
Logistics

- Class registration
  - Discussion leader for Tuesday
- Questions about the syllabus?
- Leftover problems with the assignment?
- Mailing list - announcements yesterday
  - CC Mazda and me on everything
  - Install the simulator locally
Logistics

- Class registration
  - Discussion leader for Tuesday
- Questions about the syllabus?
- Leftover problems with the assignment?
- Mailing list - announcements yesterday
  - CC Mazda and me on everything
  - Install the simulator locally
  - Rescue domain?
Logistics

- Class registration
  - Discussion leader for Tuesday
- Questions about the syllabus?
- Leftover problems with the assignment?
- Mailing list - announcements yesterday
  - CC Mazda and me on everything
  - Install the simulator locally
  - Rescue domain?
- Discussion list?
Logistics

- Class registration
  - Discussion leader for Tuesday
- Questions about the syllabus?
- Leftover problems with the assignment?
- Mailing list - announcements yesterday
  - CC Mazda and me on everything
  - Install the simulator locally
  - Rescue domain?
- Discussion list?
- Assignments up through week 3
Logistics

- Class registration
  - Discussion leader for Tuesday
- Questions about the syllabus?
- Leftover problems with the assignment?
- Mailing list - announcements yesterday
  - CC Mazda and me on everything
  - Install the simulator locally
  - Rescue domain?
- Discussion list?
- Assignments up through week 3
- Responses to your responses
Words without (accepted) definitions

- Intelligence
- Agent
Words without (accepted) definitions

- Intelligence
- Agent

All proposed definitions include too much or leave gaps.

Peter Stone
Words without (accepted) definitions

- Intelligence
- Agent

All proposed definitions include too much or leave gaps.

But there are examples...
Intelligent (autonomous) Agents

• Autonomous robot
Intelligent (autonomous) Agents

- Autonomous robot

- Information gathering agent
  - Find me the cheapest?
Intelligent (autonomous) Agents

• Autonomous robot

• Information gathering agent
  – Find me the cheapest?

• E-commerce agents
  – Decides what to buy/sell and does it
Intelligent (autonomous) Agents

- Autonomous robot
- Information gathering agent
  - Find me the cheapest?
- E-commerce agents
  - Decides what to buy/sell and does it
- Air-traffic controller
Intelligent (autonomous) Agents

- Autonomous robot
- Information gathering agent
  - Find me the cheapest?
- E-commerce agents
  - Decides what to buy/sell and does it
- Air-traffic controller
- Meeting scheduler
Intelligent (autonomous) Agents

- Autonomous robot
- Information gathering agent
  - Find me the cheapest?
- E-commerce agents
  - Decides what to buy/sell and does it
- Air-traffic controller
- Meeting scheduler
- Computer-game-playing agent
Not Intelligent Agents

- Thermostat
- Telephone
- Answering machine
- Pencil
- Java object
An Example

- You, as a class act as an agent
An Example

- You, as a class act as an agent
- **Actions**: Wave, Stand, Clap
An Example

- You, as a class act as an agent
- **Actions**: Wave, Stand, Clap
- **Sensations**: colors
An Example

- You, as a class act as an agent
- **Actions**: Wave, Stand, Clap
- **Sensations**: colors
- **Goal**: get points
Self-Introductions

- Speak loudly
Self-Introductions

- Speak loudly
- Name, year, major
Self-Introductions

- Speak loudly
- Name, year, major
- At least one other thing about yourself
Discussion

An autonomous agent is a system situated within and a part of an environment that senses that environment and acts on it, over time, in pursuit of its own agenda and so as to effect what it senses in the future.

- Is this a good definition?
Discussion

An autonomous agent is a system situated within and a part of an environment that senses that environment and acts on it, over time, in pursuit of its own agenda and so as to effect what it senses in the future.

• Is this a good definition?

• The authors claim to give a “formal” definition of agents. Do they?
Discussion

An autonomous agent is a system situated within and a part of an environment that senses that environment and acts on it, over time, in pursuit of its own agenda and so as to effect what it senses in the future.

- Is this a good definition?
- The authors claim to give a “formal” definition of agents. Do they?
- Can you do better?
Next week: More on Agents

- Textbook reading
  - An example of an agent

- RoboCup synthetic agents challenge
  - A bit dated

- Programming assignment