

CS378
Autonomous Multiagent Systems
Spring 2004

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Good Afternoon, Colleagues



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Are there any questions?

Logistics

- Class registration

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 - Discussion leader for Tuesday

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 - Rescue domain?

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- Assignments up through week 3

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- Assignments up through week 3
- Responses to your responses

Words without (accepted) definitions

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- Agent

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All proposed definitions include too much or leave gaps.

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But there are examples...

Intelligent (autonomous) Agents

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- Information gathering agent
 - Find me the cheapest?

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- Computer-game-playing agent

Not Intelligent Agents

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

An Example

- You, as a class act as an agent

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- **Actions:** Wave, Stand, Clap

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An Example

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

Self-Introductions

- Speak loudly

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- 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?

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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