

**CS378**  
**Autonomous Multiagent Systems**  
**Spring 2005**

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Department of Computer Sciences  
The University of Texas at Austin

Week 2a: Tuesday, January 25th

# Good Afternoon, Colleagues

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Are there any questions?

# Logistics

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- Reading responses

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  - A more deliberative architecture
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  - Yoram Singer this Friday

# Franklin and Graesser 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 affect what it senses in the future.*

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1. “over time... so as to affect what it senses in the future”
2. “in pursuit of its own agenda”

# Ladies and Gentlemen...

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... Andy Boothe on “Why a definition?”

# Thermostats

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- Are they agents or not?
- How does Wooldridge resolve this?

# My Requirements of Agents

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**Multiagent systems:** Interact with other agents

**Learning agents:** Improve performance from experience

Autonomous Bidding, Cognitive Systems,  
Traffic management, **Robot Soccer**

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- static vs. dynamic
- discrete vs. continuous
- single-agent vs. multiagent