



# Computer Science and Games: *Just For Girls!*

Artificial Intelligence



# *The Turing Test*

**Can computers show true  
“intelligence”?**

**Will they ever be able to?**

**CS Unplugged Activity:  
Conversations With Computers**

# *Why AI Is Important*



## **Brainstorm!**

**Why do we need good artificial intelligence in games?**

**What sort of intelligence is needed for various genres?**



# Evolution



We can mimic evolution in the computer to come up with smarter characters.

[http://videlectures.net/aaai07\\_balogh\\_daevo/](http://videlectures.net/aaai07_balogh_daevo/)

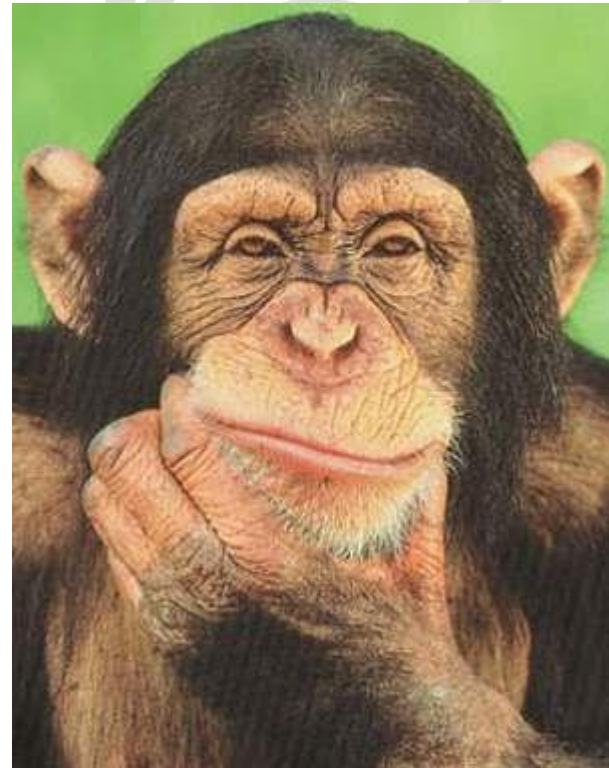


# How Games Reason

**Sense what's  
happening in the  
game world**

**Think about what  
should be done**

**Take action**



# Finite State Machines

Provide a way to think about what to do  
CS Unplugged Activity: Treasure Hunt



[http://www.liptays.com/lrgimg/news\\_1139417309\\_13.jpg](http://www.liptays.com/lrgimg/news_1139417309_13.jpg)

# *Credits*

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