

# **CS343**

# **Artificial Intelligence**

**Prof: Peter Stone**

Department of Computer Science  
The University of Texas at Austin

# Good Afternoon, Colleagues

---

# Good Afternoon, Colleagues

---

Are there any questions?

# Logistics

---

- Tournament starts tonight
- Tracking assignment due in 1 week

# Logistics

---

- Tournament starts tonight
- Tracking assignment due in 1 week
- Noah Smith talk tomorrow at 11

# Pending Questions

---

- Sampling with replacement
- Likelihood weighting vs. MCMC

# Other Approaches to Uncertainty

---

- Rule-based systems
  - production rules + “fudge factors”

# Other Approaches to Uncertainty

---

- Rule-based systems
  - production rules + “fudge factors”
- Dempster-Shafer theory
  - Separate uncertainty from ignorance



# Other Approaches to Uncertainty

---

- Rule-based systems
  - production rules + “fudge factors”
- Dempster-Shafer theory
  - Separate uncertainty from ignorance
  - Can be done with a Bayes’ net as well

# Other Approaches to Uncertainty

---

- Rule-based systems
  - production rules + “fudge factors”
- Dempster-Shafer theory
  - Separate uncertainty from ignorance
  - Can be done with a Bayes’ net as well
- Fuzzy logic
  - Awkward, but used

# Other Approaches to Uncertainty

---

- Rule-based systems
  - production rules + “fudge factors”
- Dempster-Shafer theory
  - Separate uncertainty from ignorance
  - Can be done with a Bayes’ net as well
- Fuzzy logic
  - Awkward, but used
  - Address linguistic ambiguity