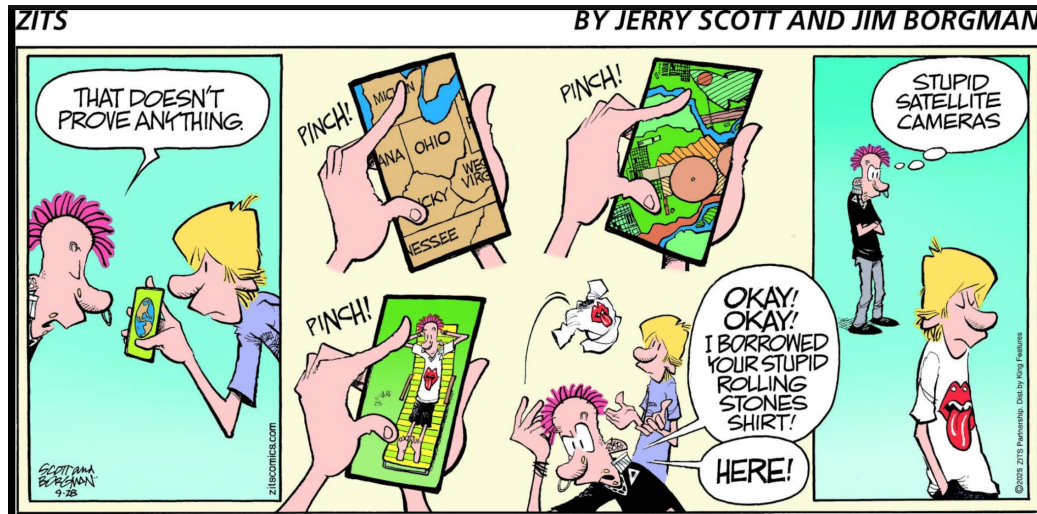


CSCI 3202

Lecture 15

September 29, 2025



Zits by Jerry Scott and Jim Borgman. <https://comicskingdom.com/zits>

### Announcements

- Quiz #5 on Friday was cancelled
  - Hadn't covered the material on the quiz
  - Next quiz is Quiz #6 on 10/3
  - We will have one fewer quiz than is in the syllabus
- HW #4 due on Today
- HW #5 will be released on Wednesday
  - Due on Friday, October 10
  - Look through the HW before the Midterm
  - Some material in HW will be on the Midterm
- Midterm remains unchanged on Wed, October 8, 2024 in class

### Bayesian Networks

- Creating a Bayes Network
  - [Bayes Nets Intro.pdf](#) (pg 5-19)
- Solving a Bayes Network
  - We begin with a joint distribution containing all of the variables in model

- Define the conditional probability we want as our result in terms of this joint distribution
- We "sum over" variables we don't want in the final
- Plug in the values from your CPTs and calculate a final result
- Your final result should be a numerical probability
- Bayes Nets Part II Annotated.pdf

### **Readings**

- AIMA Section 13.2-13.3

### **Upcoming**

- Finish Bayes Networks
  - Solve a network
  - Causal and diagnostic networks
- Local Optimization
- Quiz #6 on Friday
  - Enumeration
  - Solve a network
  - Causal and diagnostic networks
- Midterm on Wed, October 8, 2024 in class
  - Review on Mon, October 6