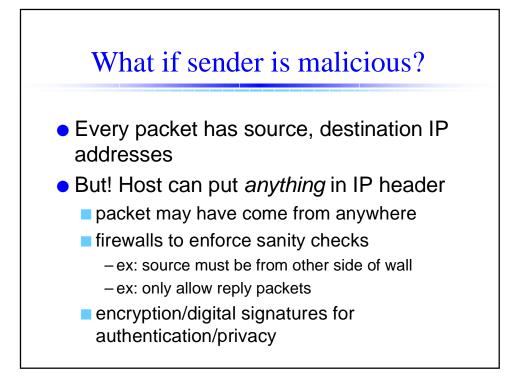




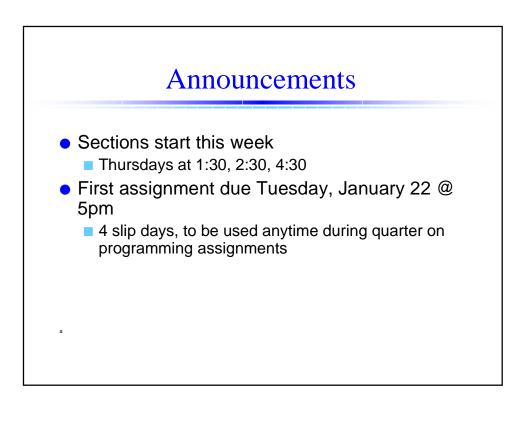
- Send a separate packet to each?
 what if zillions of receivers?
- Multicast
 - routers form distribution tree
- What if data is dropped?
 - Acks would overwhelm sender
 - Naks? if drop is early in the tree -> overwhelm sender!



Bottom Line

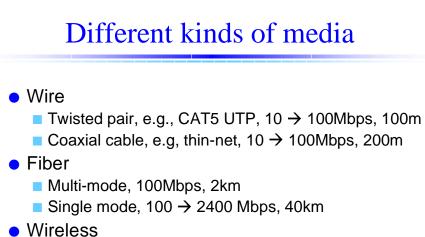
• No magic!

• No revealed wisdom!



Link Layer Outline

- Fundamental communication limits
- Coding and clock recovery
- Framing
- Error detection/correction



- - Infra-red, e.g., IRDA, ~1Mbps
 - RF, e.g., 802.11 wireless LANs, Bluetooth (2.4GHz)
 - Microwave, satellite, cell phones, …

