Lecture 11 Outline

**Reading:** White, §24–27  
**Assignments due:** Lab #5 (“Building a Simple Web Page”) due Feb. 8 at 11:55PM  
**Midterm on Feb. 10 in class**  
“Spew” paper due Feb. 17 in class

1. Greetings and felicitations!  
   a. Midterm is next class meeting, two days from today  
   b. Today, Phoebe Ayers from the Library will give a session on library research—then we will finish networks!  
   c. Review session at 3:10PM–4:00PM in 230 Wellman today

2. Moving messages around a network
3. How email works  
   a. SMTP  
   b. POP, IMAP  
   c. MIME
4. Interlude: Binary and hexadecimal  
   a. Numerical bases  
   b. Binary (base 2) to decimal and vice versa  
   c. Binary arithmetic  
   d. Hexadecimal (base 16) to decimal, binary, and vice versa  
   e. Why hex?
5. Sharing files on the Internet  
   a. Client/server vs. peer-to-peer
6. Chatting on the Internet
7. Instant messaging (IM)
8. Streaming audio
9. Streaming video