

Lecture 8 Outline

Reading: White, §32, 33, 20, 21

Assignments due: Term paper progress report due Jan. 27 at 9:00AM
Lab #4 (“Microsoft Powerpoint”) due Feb. 1 at 11:55PM

Question for the Day: Web sites often ask you to register and supply a password. Do you think it is a good idea to use the same password for all your accounts, including the one on home, school, and work computers? Why or why not?

1. Greetings and felicitations!
2. Colors
 - a. Additive colors: RGB
 - b. Subtractive colors: CMYK
 - c. Print density: dots per inch; “dithering”
3. Printers
 - a. Dot matrix printer
 - b. Color ink-jet
 - c. Photo printer
 - d. Laser printer
 - e. Color laser printer
4. Making multimedia sound
 - a. Sound cards
 - b. Musical instrument digital interface (MIDI)
 - c. FM synthesis
5. How digital sound tricks your ear
 - a. Dolby 5.1
 - b. Just noticeable difference and audio compression
6. 3D audio
 - a. How you locate source of sound
 - b. Illusion of sound coming from specific directions
7. iPods
 - a. Classic
 - b. Shuffle, Nano, Touch memory
8. Multimedia video
 - a. Films, TV
 - b. .avi (audio/video interleave) files
 - c. MPEG (motion pictures expert group)
 - d. Video conferencing
9. TiVo and AppleTV
 - a. TiVo: MPEG-2 based digital video recorder (DVR)
 - b. AppleTV: MPEG-4 based storage unit and output
10. Brief history of computer games