CSE 461: Protocols and Layering

This Lecture

- 1. A top-down look at the Internet
- 2. Mechanics of protocols and layering
- 3. The OSI/Internet models





















2. Protocols and Layering

• We need abstractions to handle all this system complexity

A <u>protocol</u> is an agreement dictating the form and function of data exchanged between parties to effect communication

- Two parts:
 - Syntax: format -- where the bits go
 - Semantics: meaning -- what the words mean, what to do with them

• Examples:

- Ordering food from a drive-through window
- IP, the Internet protocol
- TCP and HTTP, for the Web





















