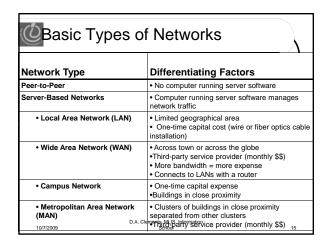


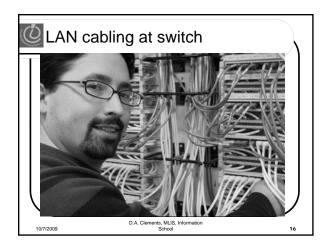


Networks are structured differently based (mostly) on distance between computers:

- Local area network (LAN)
 - Small area: room or building
- Wide area networks (WAN)
 - Large area: more than 1 km

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- Turn to your neighbor and write definitions for
 - EtherNet
 - HTTP
 - TCP/IP
- I will call on three groups for definitions

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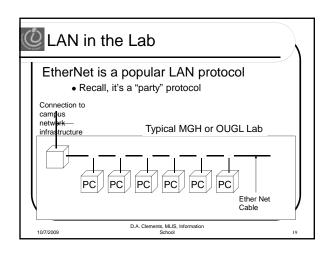
Protocol Rules!

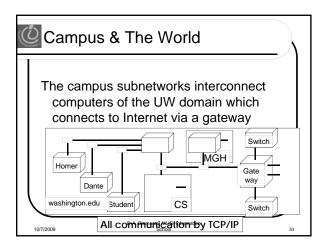
To communicate computers need to know how to set up the info to be sent and interpret the info received

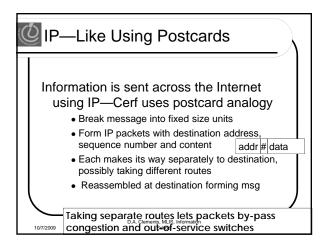
- Communication rules are a protocol
- Example protocols
 - EtherNet—for physical connection in a LAN
 - TCP/IP—for Internet—transmission control protocol / internet protocol
 - HTTP—for Web—hypertext transfer protocol

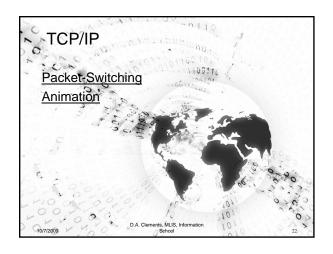
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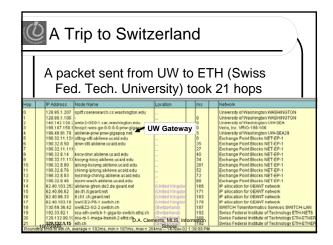
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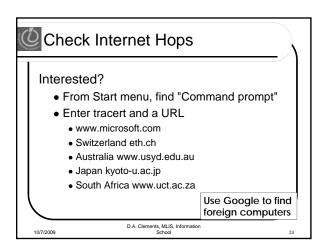


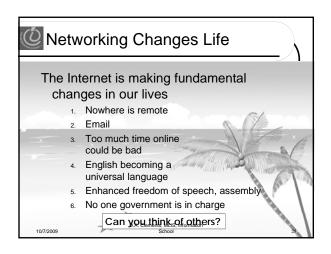


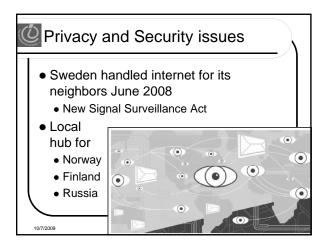


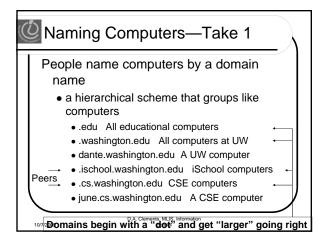


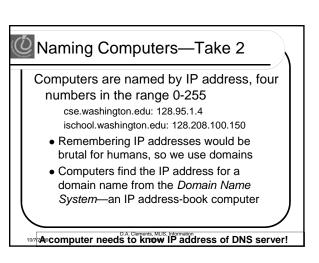


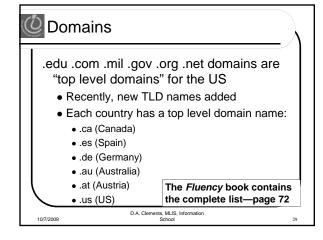


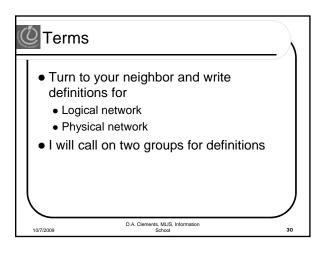














U Logical vs Physical

View the Internet in two ways:

- 1. Humans see a hierarchy of domains relating computers—logical network
- 2. Computers see groups of four number IP addresses—physical network

Both are ideal for the "user's" needs

• The Domain Name System (DNS) relates the logical network to the physical network by translating domains to IP addresses

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Internet vs. World Wide Web

- With your neighbor, write down definitions for
 - Internet
 - World Wide Web

Internet: all of the wires, fibers, switches, routers etc. connecting named computers

Web: That part of the Internet that stores and serves Web pages—web servers, client computers

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Networking is changing the world Internet: named computers using TCP/IP WWW: servers providing Web pages

- Principles
 - Logical network of domain names
 - Physical network of IP addresses
 - Protocols rule: LAN, TCP/IP, http...
 - Domain Name System connects the two
 - Client/Server, fleeting relationship on WWW

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Coming up....

- Submit HW1 by tonight at 10pm
- Submit clicker registration by tomorrow at 10pm
- Read chapter 4 for Friday
- Online guiz in labs today and tomorrow
 - You must attend lab to take the quiz!

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