

# Even more about the Internet

16 February 1999

## Opening announcements

- 2 handouts in back
- Final Mac/PC workshops this Saturday
- Homework collaboration policy
- Grading issues
- Representing yourself on the bulletin boards and links page
- Pace and atmosphere of sections
- Yellow sheets of paper

## Topics

URLs revisited

downloading software

searching the Web (robots/spiders, search engines)

Def of a network: two+ computers connected by a wire

Laying out networks; topologies: peer-to-peer; nodes; LANs/WANs: bus, ring, star (hub)

Looking closer: devices (Ethernet NIC) and cables used (coaxial, fiber, TP)

Bandwidth of physical networks: 10Base-T, 100Base-T; bps, kbps, Mbps; bits v. bytes

The bigger picture: the Internet—what exactly is it?

Domains of computers

ISPs, modems (ISDN, cable)

Backbones (satellites, microwaves, wires)

Routers

Addressing scheme on the Internet—how does data get from A to B?

Hostnames and fully qualified domain names

IP addresses (www.harvard.edu = 128.103.60.55)

DNS

TCP/IP and packets

Protecting oneself against Internet users

Firewalls

Proxy servers

## Closing announcements

- Assignment 3: shorter than it looks
- Next week: computer hardware—looking under the hood