

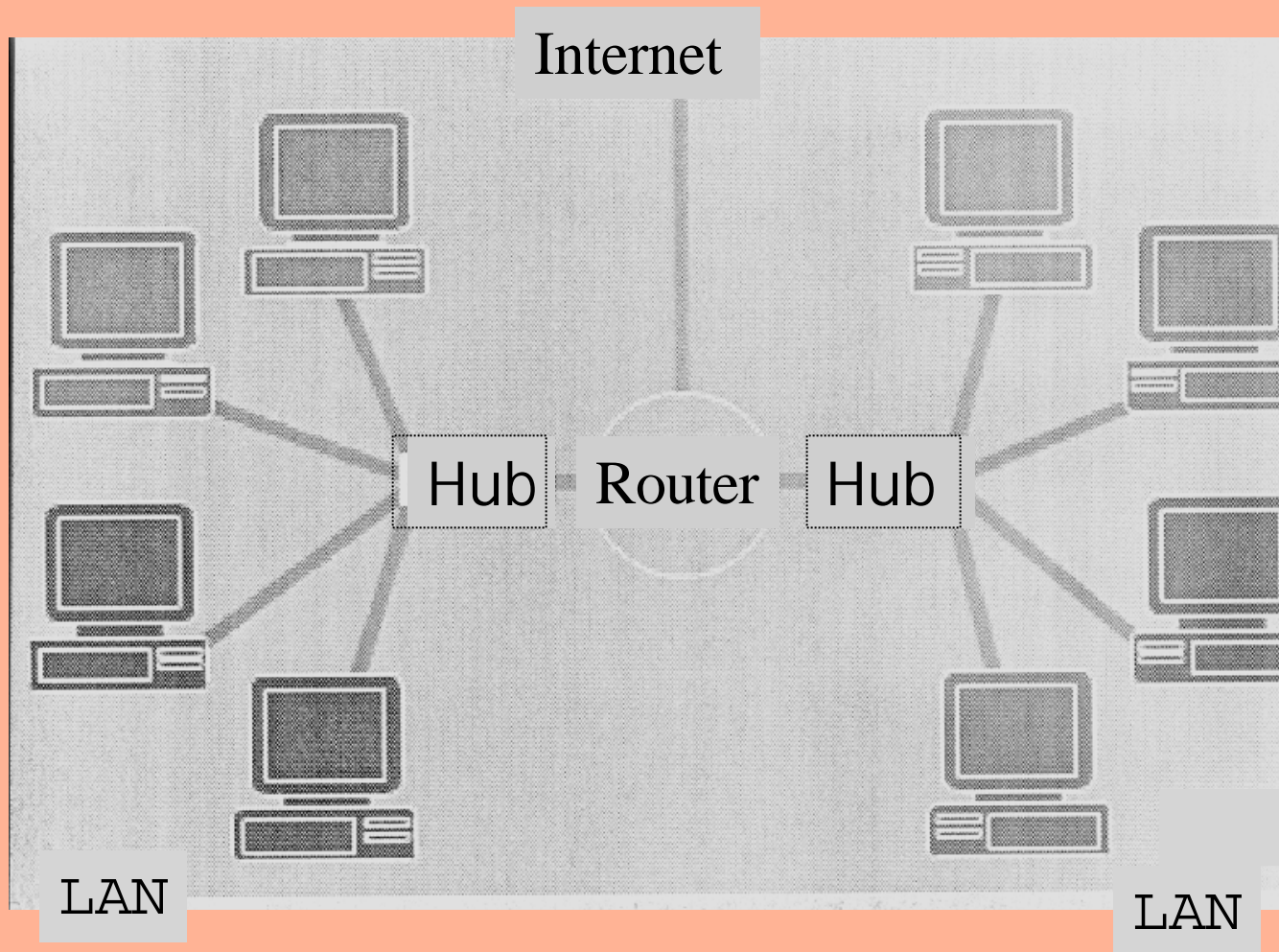
# An Introduction to Cyberspace

- OK, it is overused ... but what is it?
  - Tear out a piece of paper (*or use space below*)

– Origin of the word?

- Is it another name for the Internet?
- So what *is* the **Internet**?
  - Loose association of thousands of *different* networks, run by different organizations, using different technologies, all *connected together* (worldwide).
  - Network: an infrastructure
    - allows communications & data transmissions between/among two or more points.

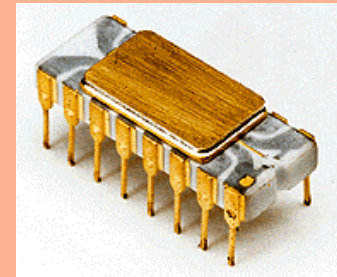
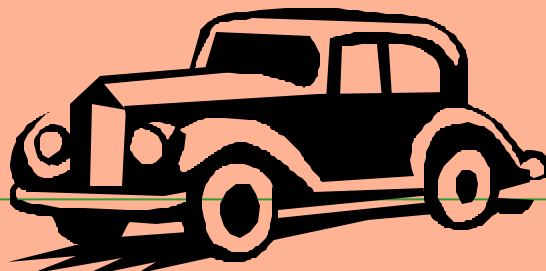
# JUST FOR CULTURE



## For our purposes

- **Internet: medium** for info *access*; info *sharing*; and *communication*...
  - COMPUTERS connect to and communicate with other COMPUTERS.
  - PEOPLE communicate with other PEOPLE or with COMPUTERS.
  - PEOPLE interact with OBJECTS or with other PEOPLE.

- **Metaphors?** *ich.*
  - Where did that term come from?
- How do people often describe new technologies?
- Some **surveys** and tidbits ...
  - [www.nua.ie/surveys/](http://www.nua.ie/surveys/)
- Do new technologies always catch on *quickly*?
  - Examples?



- World Wide Web

- Is it just another name for the Internet?
- An additional set of *standards* and *protocols* (rules) used to *access information*.
  - Linear vs. hyperlink.....
- Why don't we know exactly how many web sites exist?

*What do we do while we're using the Net "in cyberspace"?*

# Services (information & communication)

- **Electronic mail**

- In laymen's terms, how does it work?
- Traditional broadcast media: 1 to many
  - E-mail?
- Push or pull? Why?

- **Listservs**

- What are they? --Who provides these lists?
- Push or pull? *Why would that matter?*
- How do you get on such a list?
- Official searchable catalog: **CataList**:  
<http://www.lsoft.com/lists/listref.html>

- FTP

- **Special** method that provides means for files to be *transferred* between two Internet sites.

- *Upload*
    - Download
    - Before Web browsers, users connected to ftp site through a *telnet* session.
    - Anyone use “GUI” ftp programs?

- Web access

- Through a *browser*

- Interface?
    - Today’s browsers also *integrate* other Internet tools, such as?



## Other tools/services/resources:

- **Electronic Bulletin Boards (BBS)**

- Public and private discussion forums
  - “Electronic clubhouse”
- Some BB terms you may have run across:
  - Newsreader
  - Post
  - Article
  - Thread
  - Moderator
    - Are all groups moderated? When do you think they should be?

### **Private:**

- Usually, a single computer that others connect to thru phone lines. Hobbyists. Content?

**Public:** city, state, fed gov't agencies (public service)

- **Usenet:** world's largest collection of *public* BBs
  - What were the initial motivations for creating Usenet?
  - Where did it begin? How was it different from listservs that ARPAnet used?
  - Find anything *useful* there?
  - Find anything *strange*?
  - What did you like about it?
  - What did you dislike about it?
- “Respect the local population's culture”
  - Don't be the skunk at the picnic.
- Lurk first.
- Read the FAQ before you ask questions.

– Much “net culture” started on Usenet:

- flame and flame war
- trolling
- **SPAM** (started on Usenet!)
  - Original definition? Today?
  - Term come from?
  - Original infamous “spammers”?
  - What about Hormel?

**SO WHAT’s the CONTROVERSY here?**

- What are the competing interests/rights?
- Individual? ISP? The Public? The Spammer?
- Lawsuits --Legislation

# Your turn....

<http://www.ciac.org>

- What can be done about spam?
- What should you do if you receive spam?

<http://www.junkemail.org>

<http://www.junkbusters.com>

– Much ‘net talk’ and acronyms came from Usenet

- <http://www.netlingo.com/emailsh.cfm>.
- <http://www.charm.net/~kmarsh/smiley.html>

*Don't overdo!*

- Chat

- group chat --Private chat --love it or hate it?

- Instant Messaging

- Be happy to accomod8 :-)

- Educational and research services

– Public documents and searchable databases. E.G.:

<http://thomas.loc.gov>

<http://www.FirstGov.gov>

<http://www.lib.unc.edu> Congressional Universe

click on indexes and databases; click on C; scroll down.

- Software exchange, music exchange, & game downloads
  - Other Entertainment
    - on-line games (single user; many users)
    - MUDs; MOOs
- We'll discuss these later.

- **Electronic publishing**

Books, journals, newspapers, magazines, ...

- Some are electronic versions of printed counterpart.

- Some exist only in electronic form

- E-newspapers vs. paper.

- Advantages? Disadvantages?

- E-books

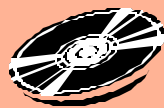
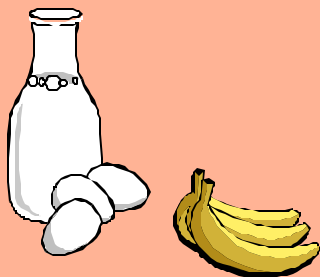
- Who has recently put a book entirely on the Web?

- Do you think one day we won't be reading paper books? Why or why not?

- When would an e-book be better, in your opinion? Paper?

- Putting full text copies of some *books* has actually increased sales of paper copies. WHY?

- **Commercial & community on-line DBs**
  - travel; securities; movie reviews; restaurant guides; product information; financial transfers
  - <http://www.triangle.citysearch.com>
- **E-commerce and e-shopping**
  - 1998: first banner year for on-line sales.
  - Where did people typically shop in the ...





## Your turn...

- Some say e-shopping empowers consumers. How?
  - Has it changed customer expectations? How??
- Some things you **like** about it?
- What sorts of items seem to sell well on-line?
- What would you never want to buy on-line? Why?
  - What would YOU miss in a bricks & mortar establishment that you might not get on-line?
- Problems you've encountered?
- Any risks to **consumers**?
  - <http://www.tacd.org/12ptchecklist.html>
  - <http://www.oecd.org/dsti/sti/it/consumer/>
  - <http://www.netaction.org/shoppers>

- E-Bay or other auction users here?
  - What is *dynamic pricing*?
  - Risks with using an on-line auction?
  - Ways merchants have reduced that risk?
  - Any *weird stuff* put up for bid in the last few years?
  - Interesting story....
  
- What is meant by:
  - “The Web is not about push, it’s about pull.”
    - What should that say to on-line vendors?

## How do I get on the Internet?

- Account with an “ISP”:
  - Computers capable of hosting thousands of users simultaneously.
  - Many are local, private companies.
  - Many are huge national telecom companies with their own backbone network to carry their traffic.
  - What do you do to get signed up and on line?
  - Full-service account requires appropriate “protocol” (PPP, SLIP...)--for *graphics-based* Internet tools.

- Some good sources to help you find an ISP:

*Useful Links to Explore* from C96 home page.

[www.pcworld.com/features/article.asp?aid=18624](http://www.pcworld.com/features/article.asp?aid=18624)

PC World's *BEST & WORST ISPs (Nov 2000)*

[webisplist.internetlist.com/](http://webisplist.internetlist.com/)

Cnet's *Ultimate ISP list*

*Broadband svcs: DSL; Cable modem; satellite:*

*(RH-08!)*

[www.zdnet.com/reviews/](http://www.zdnet.com/reviews/)

PC Magazine's *reviews of hardware, software, gadgets, top 100 products and services; and more.*

- Other service providers:

- Libraries, universities, cybercafés

- “Free” e-mail services

- [www.juno.com](http://www.juno.com)    [www.iname.com](http://www.iname.com)  
[yahoo.com](http://yahoo.com)

- ASK about restrictions ...

- Are they completely free? What do you give up?

Good net behavior (in RH-08) ...

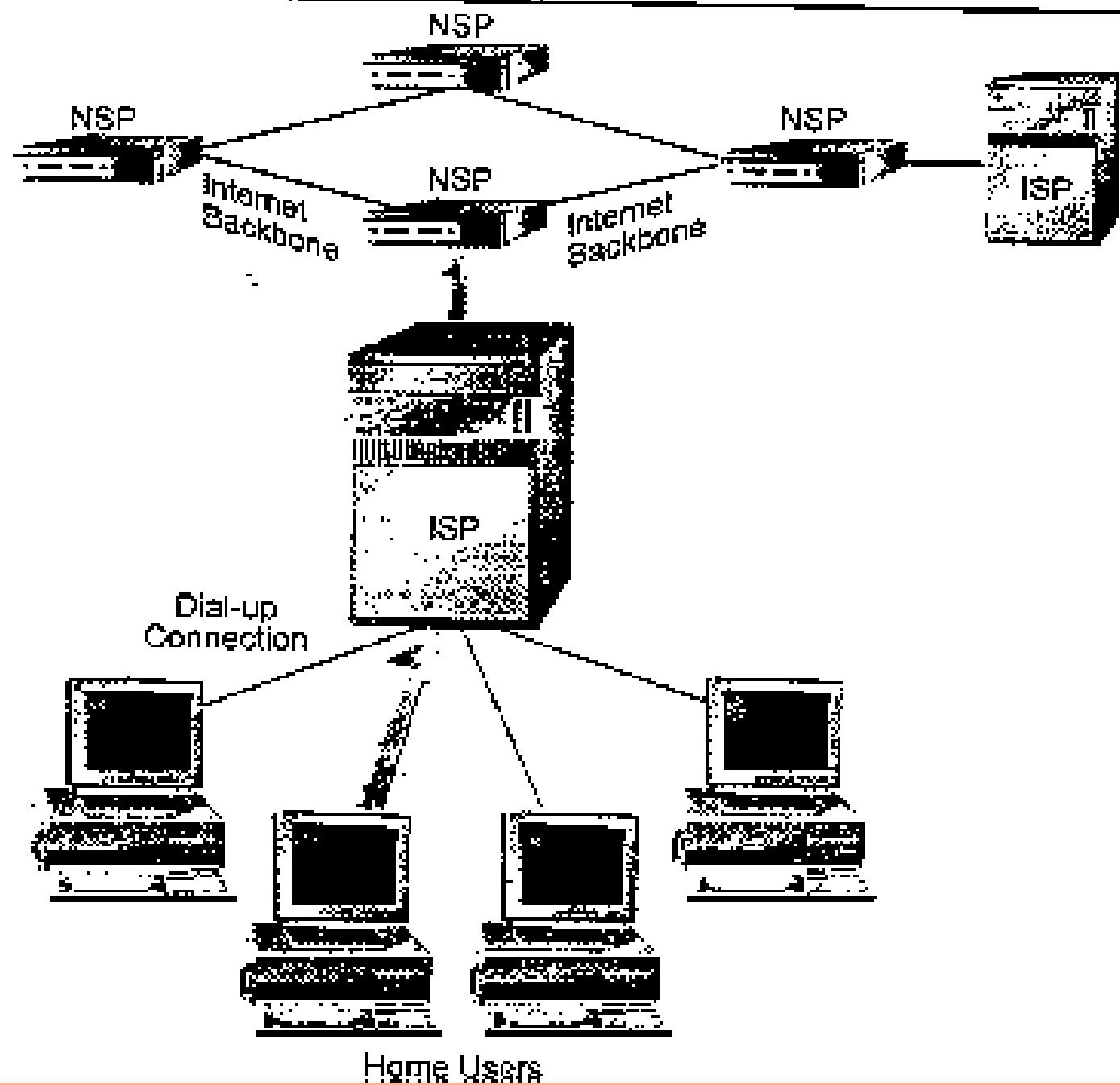
# More about the Internet

*This page and next just for culture:*

- U.S. “backbone”: central high-speed fiber optic network that regional networks connect to.
  - Formed by biggest networks owned by GTE, MCI, Sprint, UUNet, ANS...
  - By connecting to each other, they create a fast “pipeline” that crisscrosses the U.S. and extends to parts of Europe, Japan, Asia, ...
- U.S. backbone has 5 major intersecting points
  - Each uses high-speed equipment to connect to *other regional and local* providers, who in turn lease to organizations and individuals in the areas *they* serve.

Figure 8-4

Your computer establishes a dial-up connection to an ISP. The ISP connects to the Internet backbone.



## *People make the net alive, interesting*

- What is still the most popular activity?
- People create programs and documents, and make them available for free.
- Net communities have sprung up.
- Internet users' beliefs come straight from its cultural roots and strong academic traditions:
  - share information and ideas; freedom of speech and freedom to disagree ...
  - collegial self-governance
- Makes for some interesting clashes ...

**stay tuned!**