



Web Essentials: Clients, Servers & Communications

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- Essential elements of the World Wide Web are
 1. web browsers - to surf the Web
 2. server systems - to supply information to the browsers
 3. computer networks – supports browser-server communication



The Internet

- Technical origin: **ARPANET** (late 1960's)
 - One of earliest attempts to network **heterogeneous, geographically dispersed** computers
 - **Email** first available on ARPANET in 1972 (and quickly very popular!)
- ARPANET **access was limited** to select DoD-funded organizations

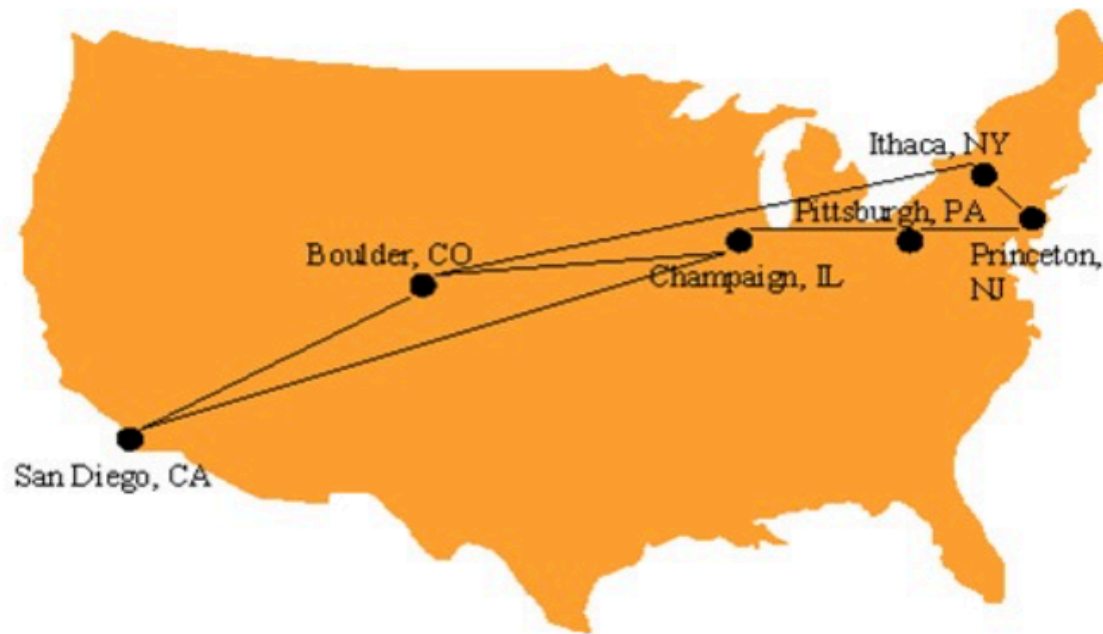


The Internet

- Open-access networks
 - Regional university networks (e.g., SURAnet)
 - CSNET for CS departments not on ARPANET
- NSFNET (1985-1995)
 - Primary purpose: connect supercomputer centers
 - Secondary purpose: provide backbone to connect regional networks



The Internet





The Internet

- **Internet**: the **network of networks** connected via the public backbone and communicating using **TCP/IP** communication protocol
 - Backbone initially supplied by NSFNET, privately funded (ISP fees) beginning in 1995



Summary

Internet is the collection of computers that can communicate with one another using TCP/IP over an open, global communications network.



Thank You