6.02 Fall 2014
Lecture #25

• History of the Internet
“It is anticipated that the whole of the populous parts of the United States will, within two or three years, be covered with a net-work like a spider’s web”

- unknown writer, 1848
Morse Telegraph  (Popular Science, 1873)
telephones improved on the capacity of telegraph systems

Alexander Graham Bell, Strowger Telephone (http://commworld-kc.com/ecampaign/images/strowgerPhone.jpg)
SOVIET FIRES EARTH SATELLITE INTO SPACE;  
IT IS CIRCLING THE GLOBE AT 18,000 M. P. H.;  
SPHERE TRacked IN 4 CROSSINGS OVER U. S.
ARPANET (http://www.computerhistory.org/internet_history/)
ARPANET LOGICAL MAP, MARCH 1977

(PLEASE NOTE THAT WHILE THIS MAP SHOWS THE HOST POPULATION OF THE NETWORK ACCORDING TO THE BEST INFORMATION OBTAINABLE, NO CLAIM CAN BE MADE FOR ITS ACCURACY)

NAMES SHOWN ARE IMP NAMES, NOT (NECESSARILY) HOST NAMES
1993: Commercialization
The Internet was designed to be flexible and robust to failure. The commercialization of the Internet has hindered its flexibility. When we design protocols for the Internet, or design applications that use the Internet, we have to work within the constraints of these early design decisions.