History of the Internet

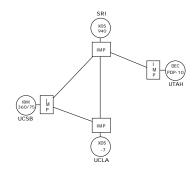
These slides outline the history of the Internet from its beginnings in 1969 to the present day. Not surprisingly, many of the best sources on Internet history can be found on the Internet itself. Some of the most interesting online sources include:

- BBN's timeline of the Internet, available at http://www.bbn.com/timeline.
- The Internet Society's history page at http://www.isoc.org/internet-history.
- The Internet Domain Survey maintained by Network Wizards Inc., which is available at http://www.nw.com/zone/www/top.html.

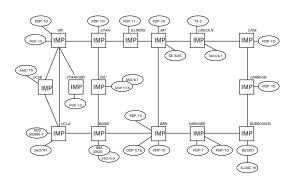
I also recommend the following book, in which I manage to rate a passing mention:

• Katie Hafner and Matthew Lyon, Where Wizards Stay Up Late: The Origins of the Internet, New York: Simon & Schuster, 1996.

ARPANET (1969)



ARPANET (1971)



Internet Timeline 1960s

1961	Leonard Kleinrock publishes first paper on packet-switched communication"
1965	ARPA sponsors study on "A cooperative network of time-sharing computers"
1967	Larry Roberts proposes construction of a network to ARPA
1968	ARPA issues request for proposals (July) Contract awarded to BBN (Dec)
1969	IMP1 begins running at UCLA (Sep) Four nodes connect to form first ARPANET (Dec)

Internet Timeline 1970s

1970	Unix operating system developed at Bell Labs
1971	ARPANET grows to 23 hosts
1972	First dial-in TIP released
1973	ARPANET adds first international connections (England and Norway)
1974	ARPANET grows to 62 hosts Vint Cerf and Robert Kahn begin design of TCP/IP
1977	ARPANET grows to 111 hosts

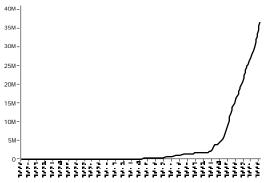
Internet Timeline 1980s

1980 CSNET founded by NSF 1981 TCP/IP formalized 1983 TCP/IP required for ARPANET ARPANET/MILNET split First domain name server established 1984 Number of hosts passes 1000 1985 T1 Internet backbone formed Merit wins NSFNET contract 1987 NSFNET T3 backbone becomes operational 1988 1989 Tim Berners-Lee proposes the World Wide Web Number of hosts passes 100,000

Internet Timeline 1990s

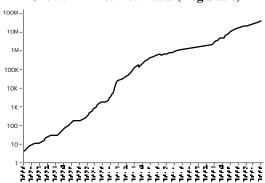
1991 Programmers at CERN release the first browser Programmers at CERN release the first web browser Gopher and WAIS released 1991 1992 T1 circuits decommissioned World Wide Web is launched 1994 Number of hosts passes 3,000,000 NSF subsidies end 1995 Netscape issues initial public offering Sun releases Java 1997 Number of web sites passes 1,000,000 1998 Number of Internet hosts passes 30,000,000

Growth in Internet Hosts



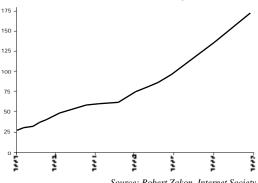
Source: Robert Zakon, Internet Society

Growth in Internet Hosts (Log Scale)



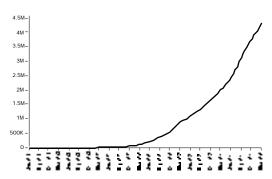
Source: Robert Zakon, Internet Society

Number of Countries Served by the Internet



Source: Robert Zakon, Internet Society

Number of Web Servers



Source: Robert Zakon, Internet Society