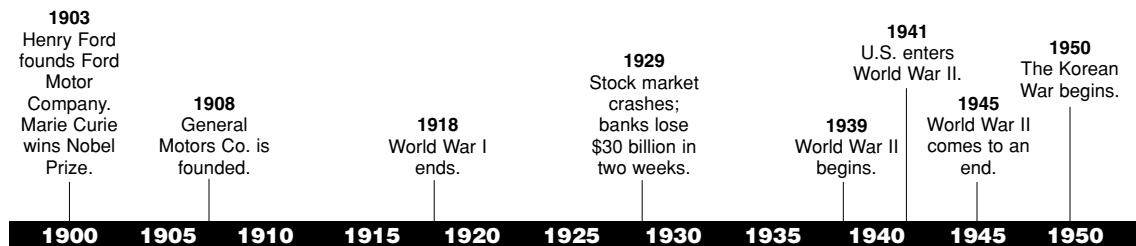


CHRONOLOGY AND TIMELINE

- 1904** The Fleming valve, the first vacuum tube, is patented by Sir John A. Fleming.
- 1905** Albert Einstein publishes the theory of relativity.
- 1915** The first transcontinental call, between San Francisco and New York, is placed by researchers working at AT&T.
- 1920** Czech author Karel Capek coins the word, “robot.”
- 1924** The Computing-Tabulating-Recording Company is renamed International Business Machines (IBM).
- 1934** Federal legislation is passed in the form of the Communications Act in an attempt to begin regulation of the telephone industry.
- 1939** The first digital computer prototype is created at Iowa State College by Clifford Berry and John Atanasoff. Hewlett-Packard is founded.
- 1941** Regular television broadcasting begins.
- 1947** Walter Brattain, John Bardeen, and William Shockley invent the first point-contact transistor at Bell Labs.
- 1948** Bell Labs unveils the transistor to the U.S. military and to the public at large.
- 1951** The UNIVAC 1, considered the first commercial computer, is sold to the U.S. Census Bureau by the Eckert and Mauchly Computer Co.
- 1956** Shockley, Bardeen, and Brattain win the Nobel Prize for their work on the transistor. IBM researchers unveil the first hard-disk drive.
- 1958** The U.S. Dept. of Defense creates the Advanced Research Projects Agency (ARPA). The first integrated circuit or “silicon chip” is invented.
- 1962** Dr. J.C.R. Licklider defines the concept of global networking in a pioneering thesis at MIT, “On-Line Man Computer Communications.”



- 1965** Moore's Law is espoused for the first time by Gordon Moore.
- 1968** Robert Noyce and Gordon Moore form the Intel Corp.
- 1969** ARPAnet is created.
- 1970** Glass fiber, precursor to the development of fiber optics, is created at Corning Glass.
- 1971** Intel creates the first microprocessor.
- 1972** The concept of electronic mail is introduced, as is the concept of open-architecture networking.
- 1974** Barcoded products appear in U.S. stores and cashiers begin using scanners.
- 1975** Bill Gates and Paul Allen form a partnership, naming their new business Microsoft.
- 1976** Steve Jobs and Steve Wozniak found Apple Computer Co. Cray Research, Inc. unveils the Cray-1, a supercomputer with revolutionary speed capabilities.
- 1981** IBM introduces its personal computer.
- 1982** The TCP/IP protocol is developed.
- 1983** Microsoft Word is unveiled, as is the Windows operating system. Time magazine chooses the PC as its 1982 "Man of the Year."
- 1984** Apple Computer Co. introduces the Macintosh.
- 1985** The National Science Foundation establishes NSFNET, an enhanced version of ARPAnet.
- 1986** Microsoft Corp. conducts its IPO.
- 1989** BITNET is born.
- 1990** Microsoft Corp. revenues exceed \$1 billion. ARPAnet is decommissioned and shut down.
- 1991** The World Wide Web comes into existence as the National Science Foundation's decree that prevents commercial use of the Internet dissolves.
- 1993** Graphics-based Web browser Mosaic is released. The U.S. Justice Dept. begins its antitrust investigation into Microsoft Corp.
- 1994** The World Wide Web Consortium (W3C) is established.
- 1995** Amazon.com goes online for the first time. The National Science Foundation's financial support of the Internet is terminated.
- 2000** Technology stocks plummet in value as the dot-com shakeout takes hold. Internet startups are hit hard and many fold or merge.
- 2001** Time Warner and America Online (AOL) finalize their mega-merger.

