A Brief History of Computers
Abacus (c. 2600 B.C.)

resource: http://www.ee.ryerson.ca/~elf/abacus/
applet: http://www.tux.org/~bagleyd/java/AbacusApp.html
What is this number?
What is this number?
Difference Engine (c. 1832 A.D.)

Charles Babbage
Analytical Engine (c. 1837 A.D.)

Ada Lovelace
Colossus (c. 1944 A.D.)
Transistor (c. 1947 A.D.)
1950s (Before Culling the of the Herd)
ALTAIR 8800 (c. 1974 A.D.)
Apple ][ (c. 1977)
IBM Personal Computer (c. 1981)
Simon (c. 1992)

calendar, address book, world clock, calculator, note pad, e-mail, and games. It had no physical buttons to dial with. Instead customers used a touch-screen to select phone numbers with a finger or create facsimiles and memos with an optional stylus. Text was entered with either a unique on-screen "predictive" keyboard. The Simon had an optional pcmcia memory card
Microsoft Lawsuit

We are Microsoft, resistance is futile...
Operating System Architecture

- Users (user 1, user 2, user 3, ..., user n)
- Compiler
- Assembler
- Text editor
- System and application programs
- Operating system
- Computer hardware
- Database system
• 1981 MS DOS 1.0 (UNIPROGRAMMING)
• 1985 WINDOWS 1.0
• 1993 WINDOWS NT (MULTIPROGRAMMING, MULTIUSER, NETWORKING)
• 1996 WINDOWS NT 4.0 (MULTIPROCESSOR)