



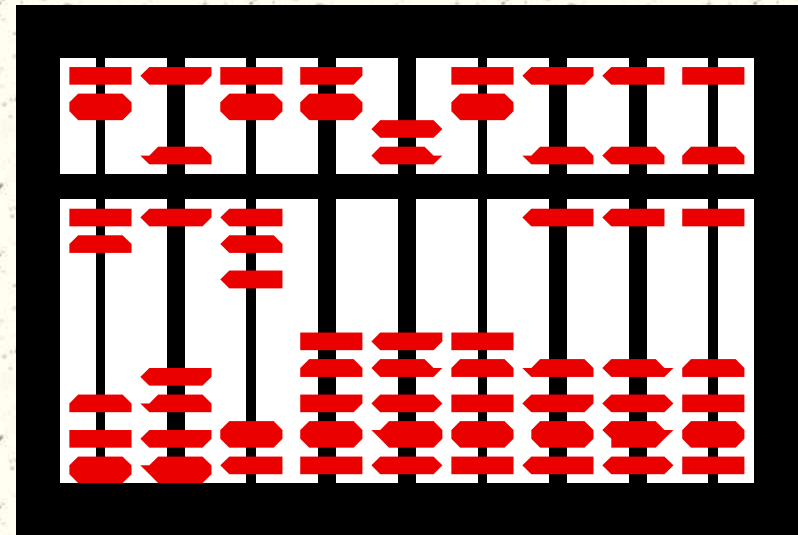
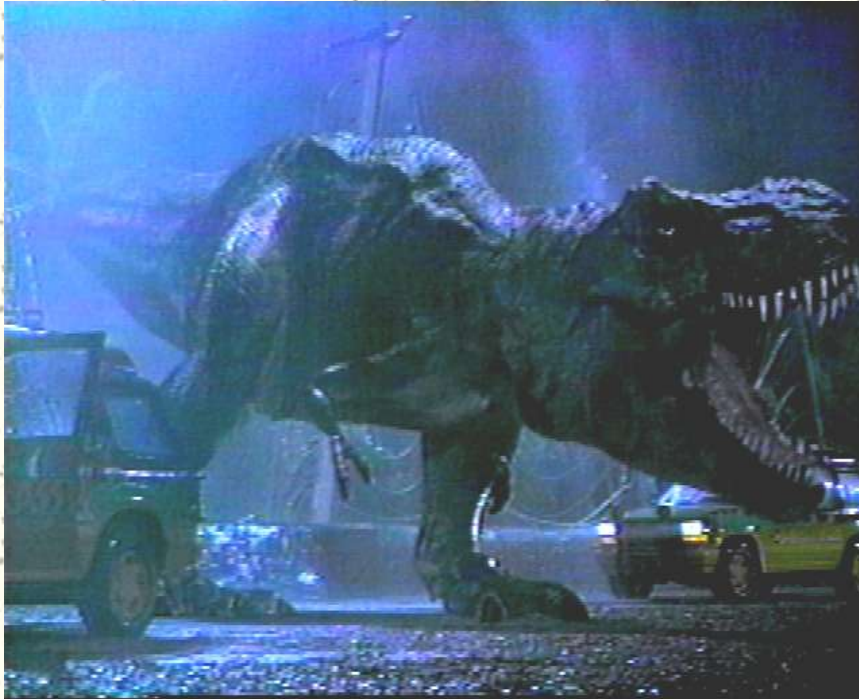
Computing History

The Continuing Story of the Computer Age

Colleen Mesel

Phil Mesel

3000 B.C.



• Abacus

Blaise Pascal - 1642

- The Pascaline
 - counting wheel
 - used for mechanical calculations until 1960's

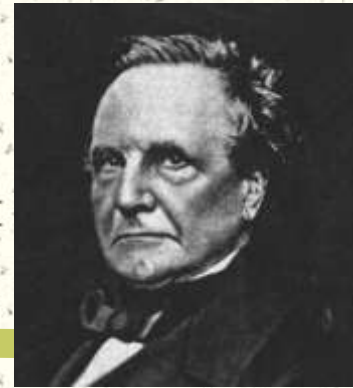


Jacquard's Loom - 1801

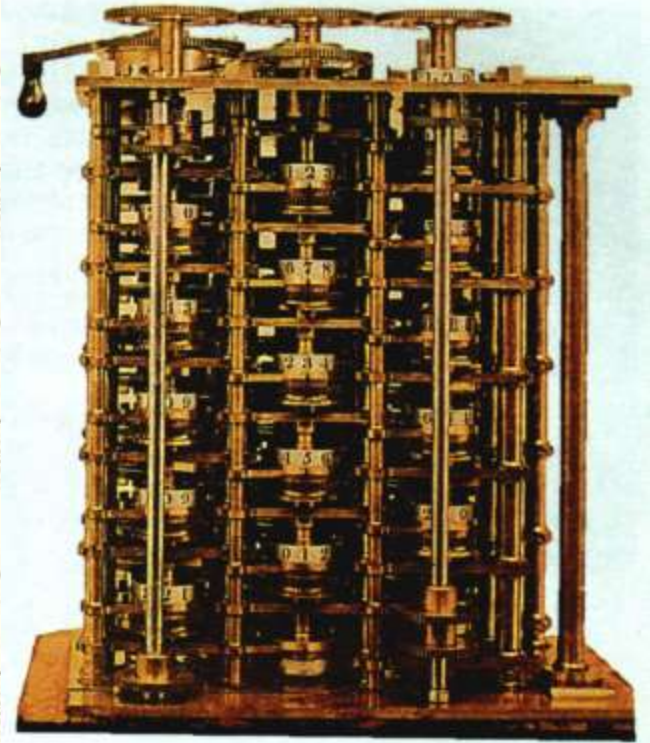
- Punched holes in a card
- Binary automation



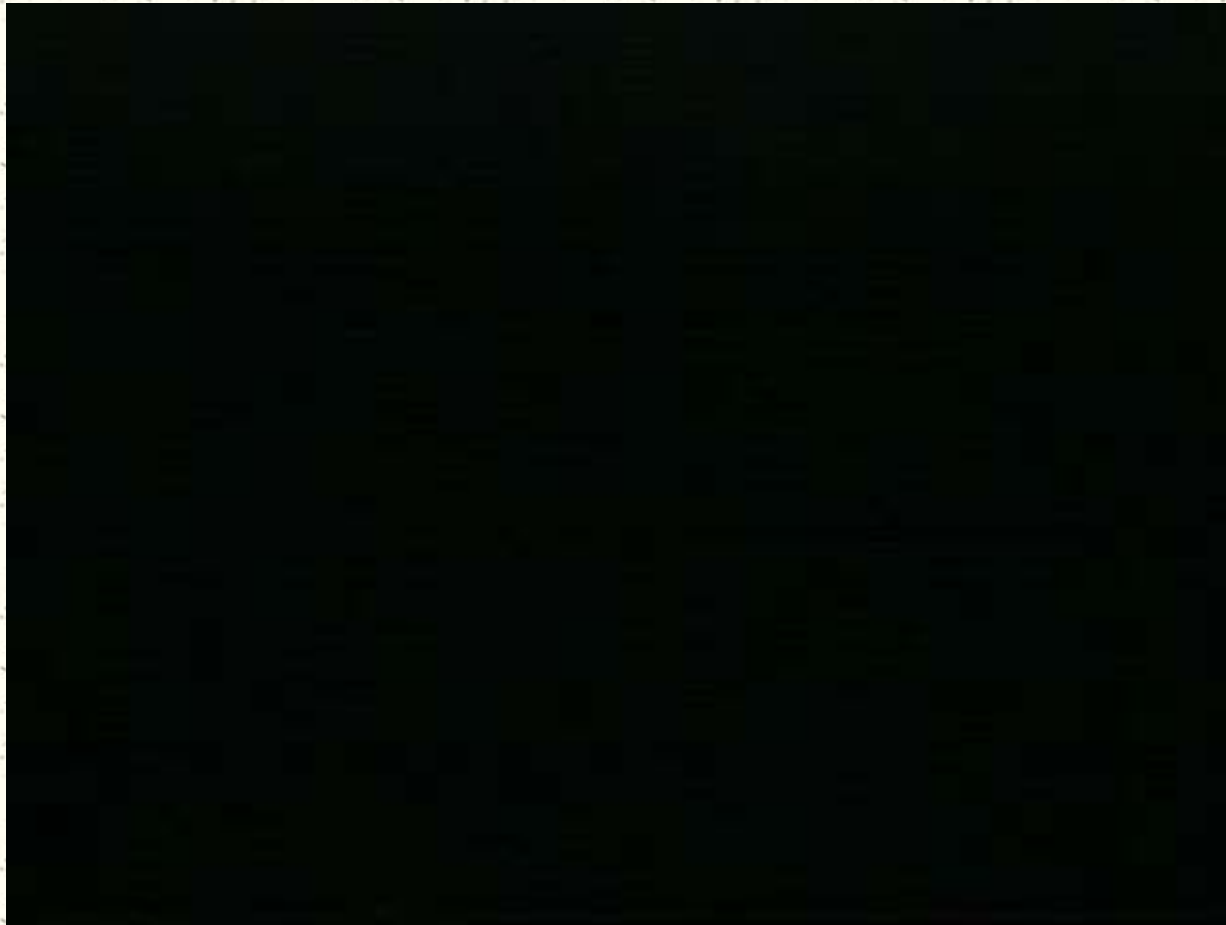
Charles Babbage



- **His Life**
 - 1791 - 1871
 - Difference Engine and the Analytical Engine



Charles Babbage



Charles Babbage

- **His Mistakes**
 - Never finished projects
 - Could not build - technically impossible

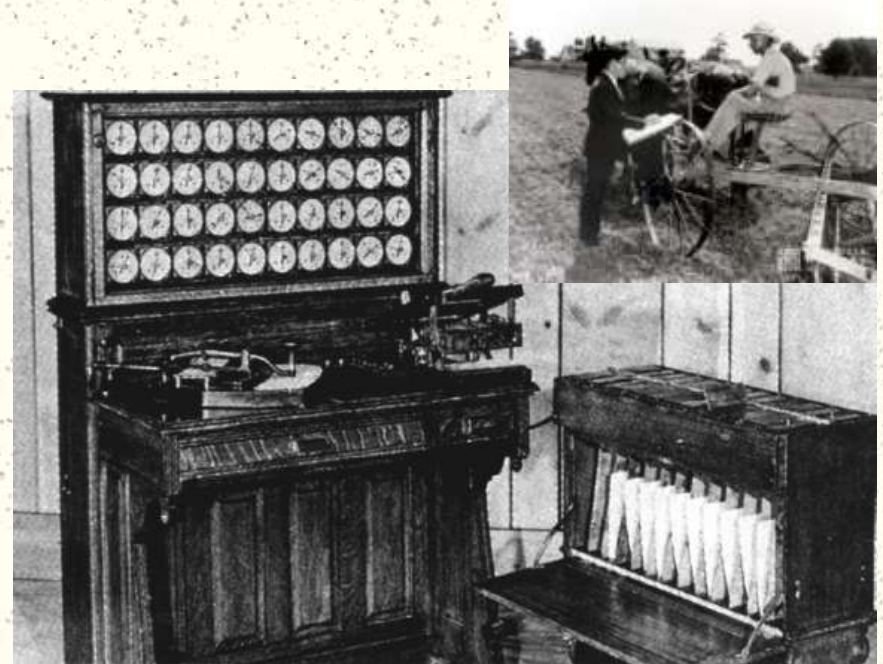
Lady Ada Augusta Lovelace

- Daughter of poet Lord Byron
 - Helped to develop instructions for programming the analytical engine



Herman Hollerith

- Tabulating and sorting machine used for the 1890 census
- First time punch cards were used for Data Processing



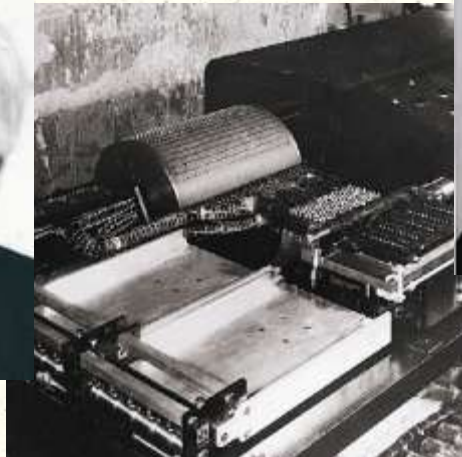
Herman Hollerith

- 1896
 - founded Tabulating Machine Co.



ABC (Atanasoff-Berry computer)

- 1937 - Created by Dr. John Atanasoff and Clifford Berry
- First digital computer that worked electronically

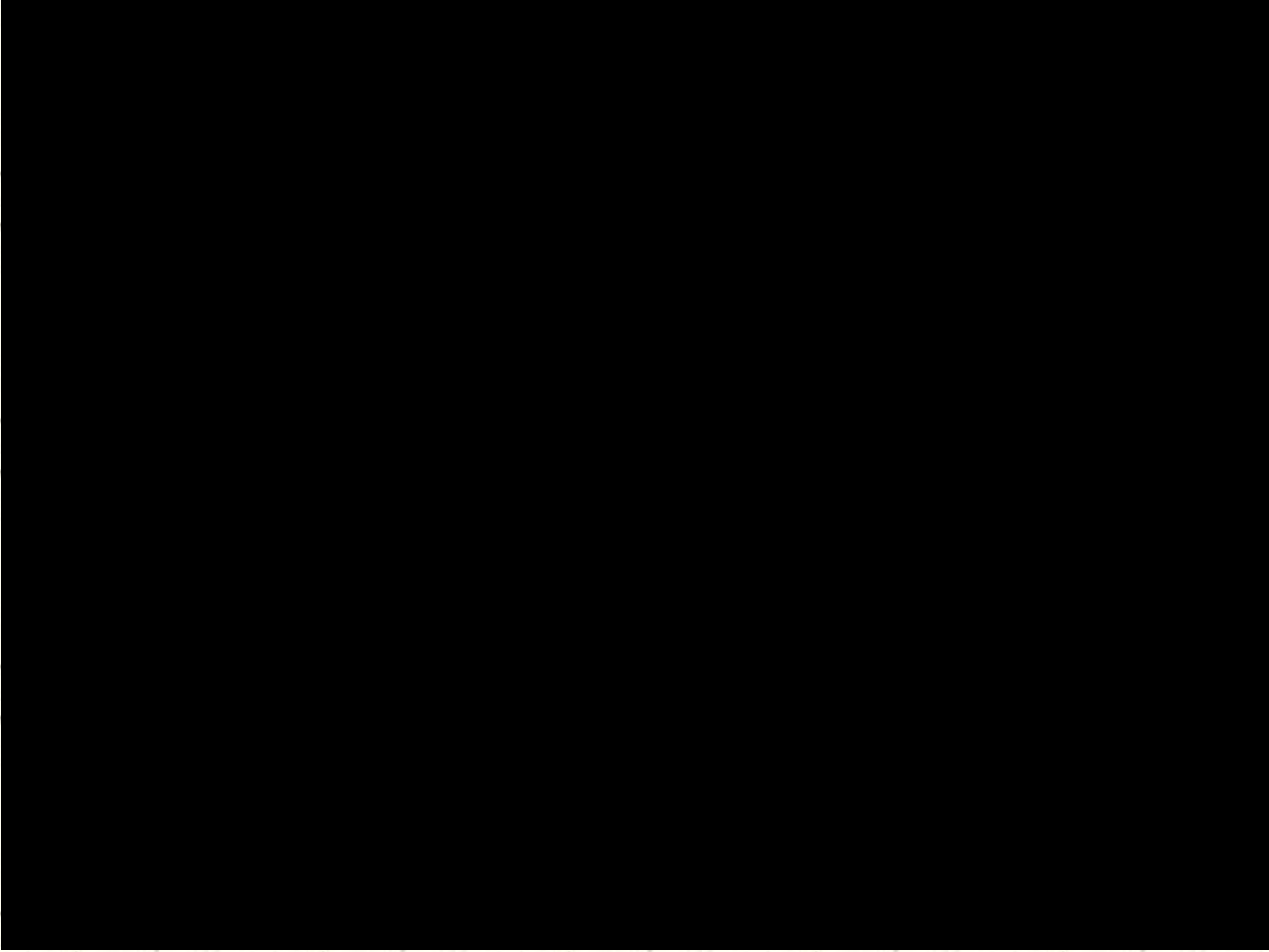


ENIAC (1943 - 1946)

- Electronic Numerical Integrator and Calculator
- Created by Dr. John Mauchly and J. Presper Eckert
- First general purpose electronic computer
- Cost: \$487,000
 - Weight: 30 tons
 - Size: 1,800 sq. ft.
 - Operating costs: \$650/hr to run



ENIAC (1943 - 1946)



Thomas Watson



- **IBM CEO**
 - Funded professor Howard Aiken to build the Harvard Mark I (1944).
 - First full sized digital computer

Generations of Computers

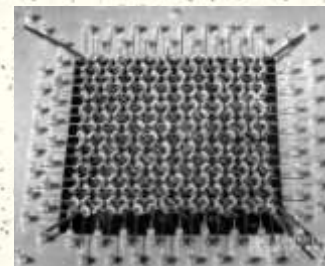
- 1st Generation
 - 1951 - 1958
 - Mid 40's - 50's
 - Vacuum Tubes
 - Magnetic Drum Memory
 - Huge, expensive to operate, and hot!
 - Programmed in machine language



First UNIVAC 1 –
completed for the
Census Bureau 1951

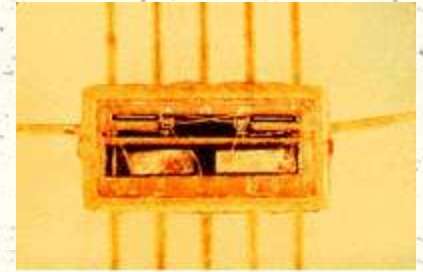
Generations of Computers

- **2nd Generation**
 - Late 50's - Mid 60's
 - Transistors
 - Magnetic core memory
 - Assemblers and early high-level languages
 - Mostly I/O off-line
 - Mostly used for accounting



Generations of Computers

- **3rd Generation**
 - Mid 60's - 70's
 - Integrated Circuits
 - Silicon main memory
 - Multi-programming OS
 - Concurrent processing on-line
 - Mini-computers



Generations of Computers

- **4th Generation**

- Early 70's - ???
- VLSI (Very Large Scale Integration)
- Increased Power for less\$\$\$
- Microcomputers
- Non-procedural languages
- distributed processing
- Supercomputers



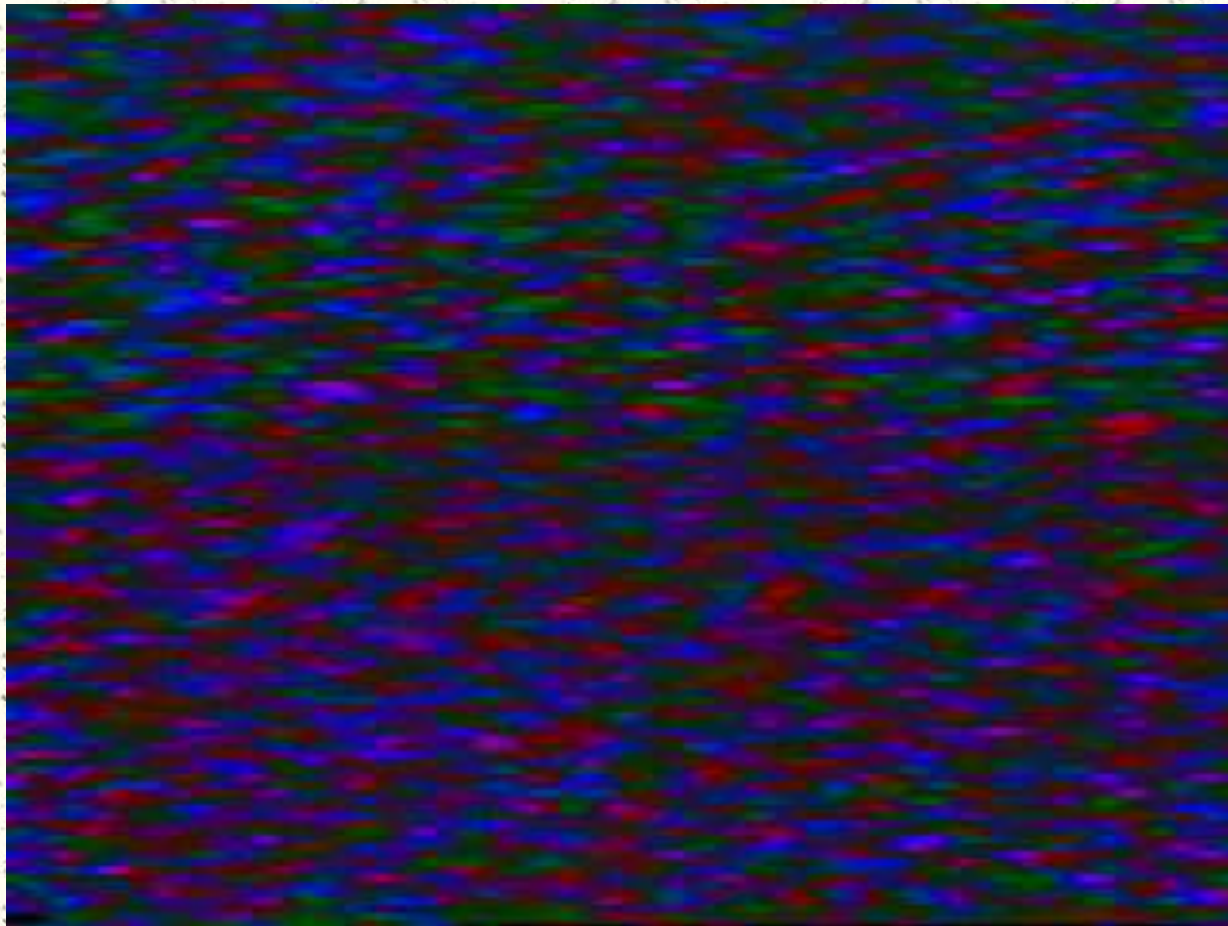
Generations of Computers

- 5th Generation ???
 - Artificial intelligence
 - Expert systems
 - Natural language



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Microcomputer History



Microcomputer History

- Altair
 - Produced in 1975
 - Ed Roberts



Microcomputer History

- TRS 80
 - Tandy Leather bought Radio Shack
 - Model I (1977)
 - Used CP/M
 - first widely used OS for microcomputers

Microcomputer History

- Apple Computer (founded 1977)
 - Steve Wozniac and Steve Jobs
 - Apple I (1977)



Apple II and VisiCalc



Microcomputer History

- The IBM PC
 - Produced in 1981
 - MS DOS and BASIC interpreter
 - Microsoft - Bill Gates

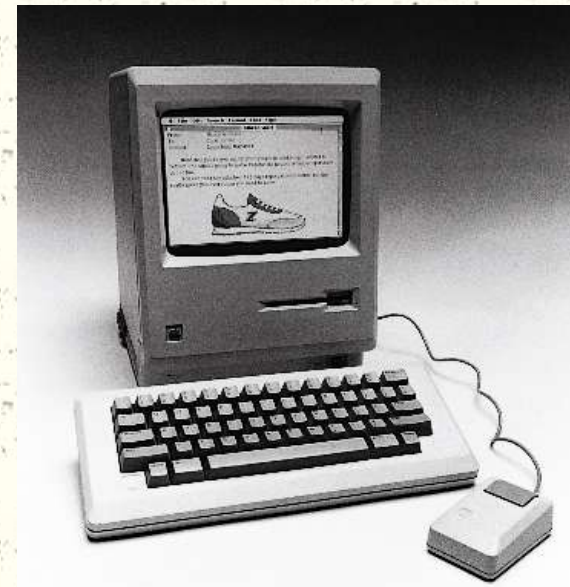


Microcomputer History



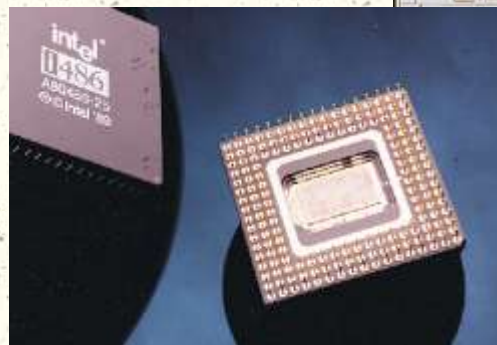
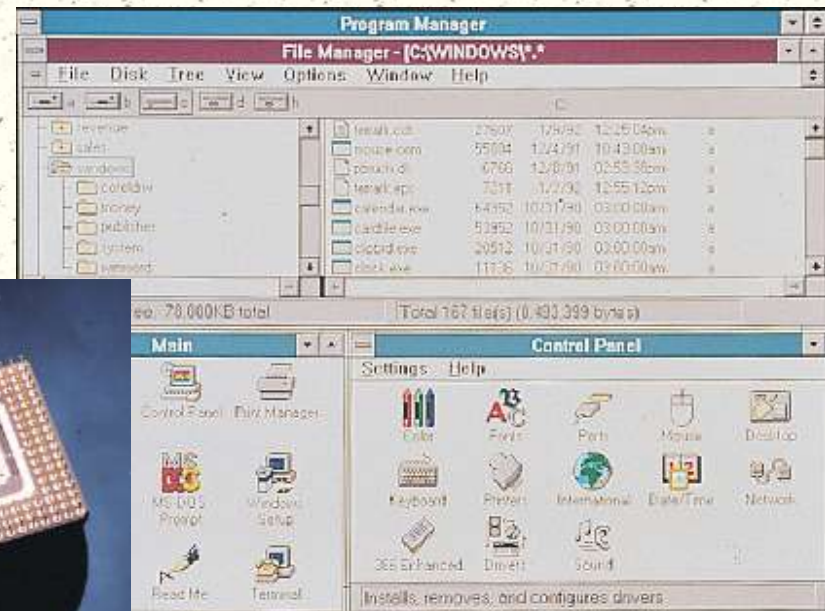
Microcomputer Histor

- Apple Macintosh
 - 1984
 - GUI
 - Graphical User Interface



Microcomputer History

- Windows (3.xx and before)
 - 1985 (for PC microcomputers)
 - GUI (operating environment)
 - Wintel
 - Windows/Intel



Microcomputer History

- Windows 95
 - 1995 (barely)
 - GUI (operating system)
 - Sometimes called Mac '89
- Windows NT, 98, Me, 2000, XP, Vista, Windows 7



Windows 95
Microsoft Internet Explorer

Microcomputer History



Still being made !!