

Questions

- Project
- Class Wiki: <https://wiki.cs.umd.edu/CMSC838G-05/>

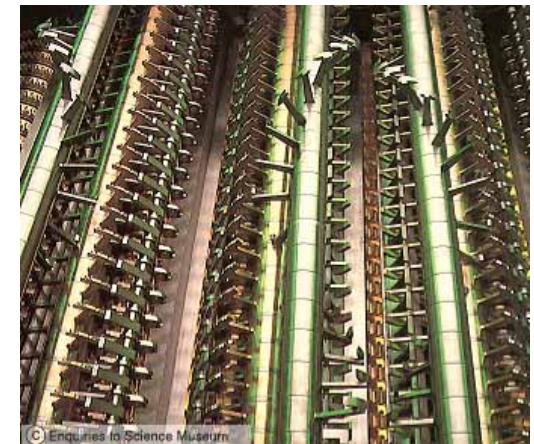
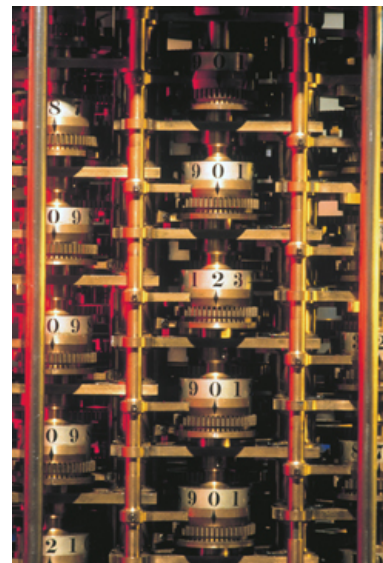
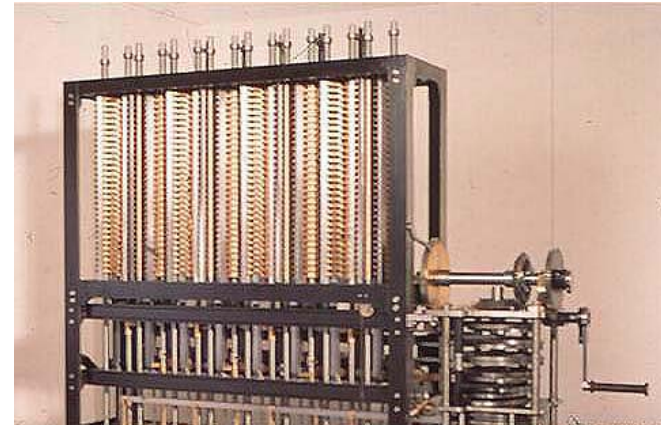
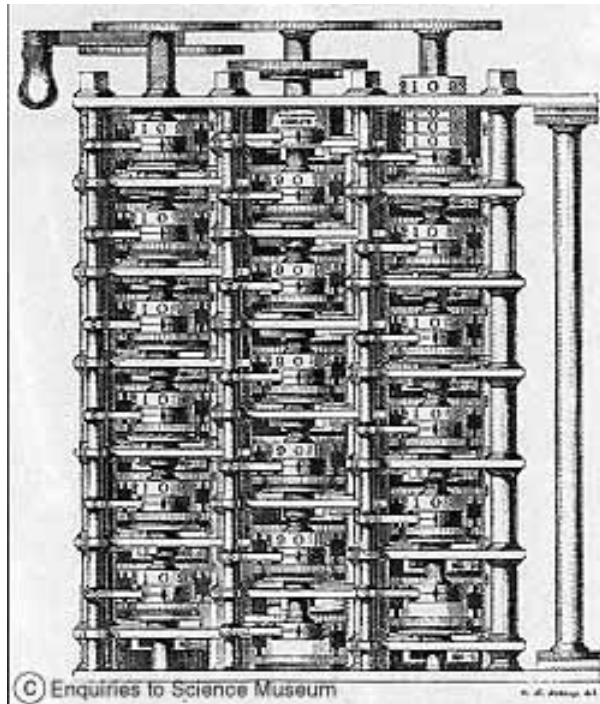
Early example: Astrolabe (Middle Age)

- Convenient interface to complex computation

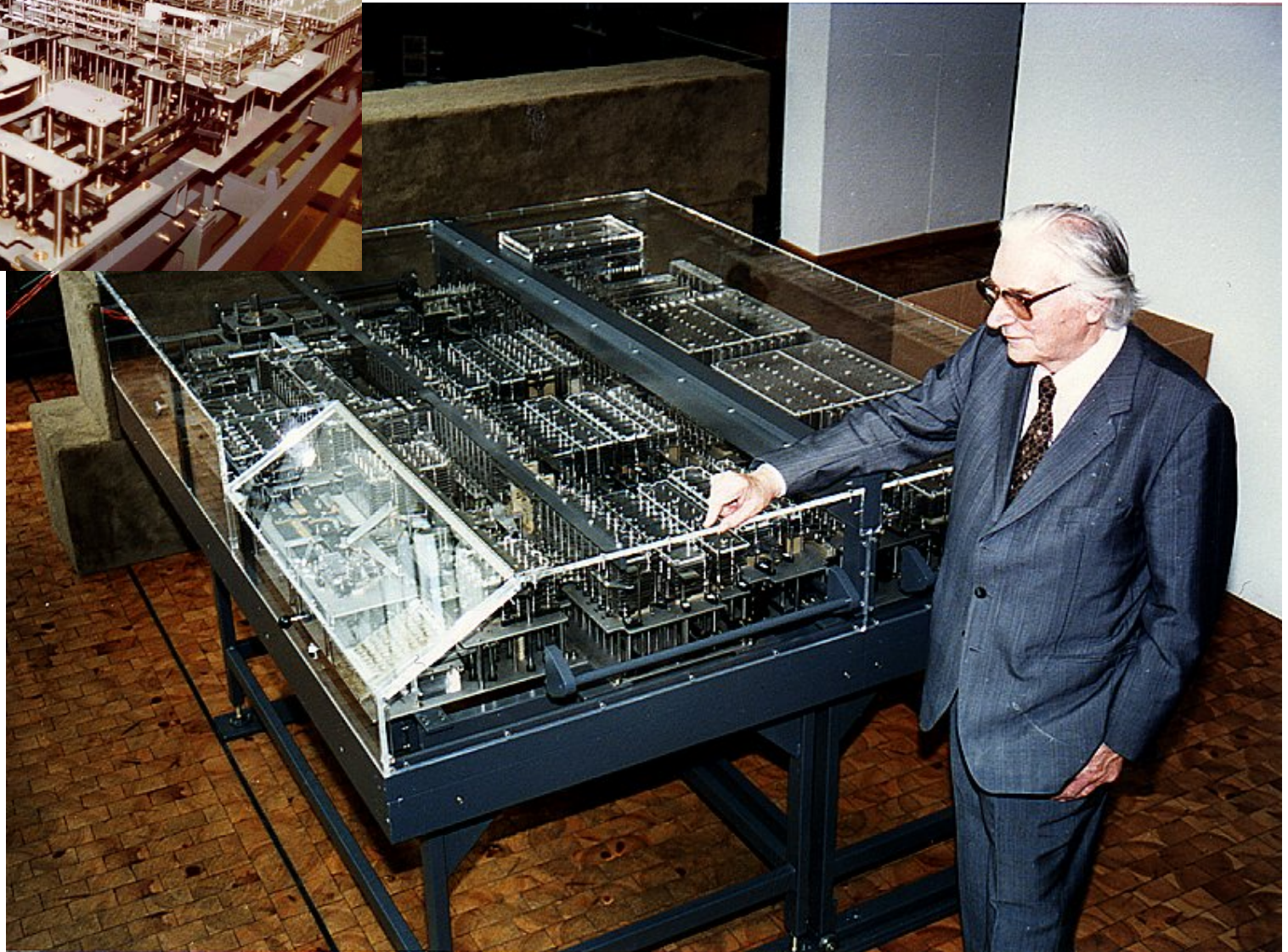
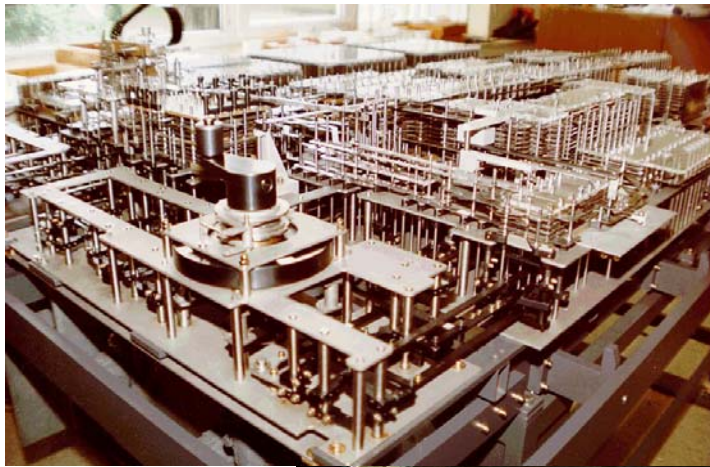


Babbage Difference Engine (~1840)

- Original design
- Replica (British Museum)

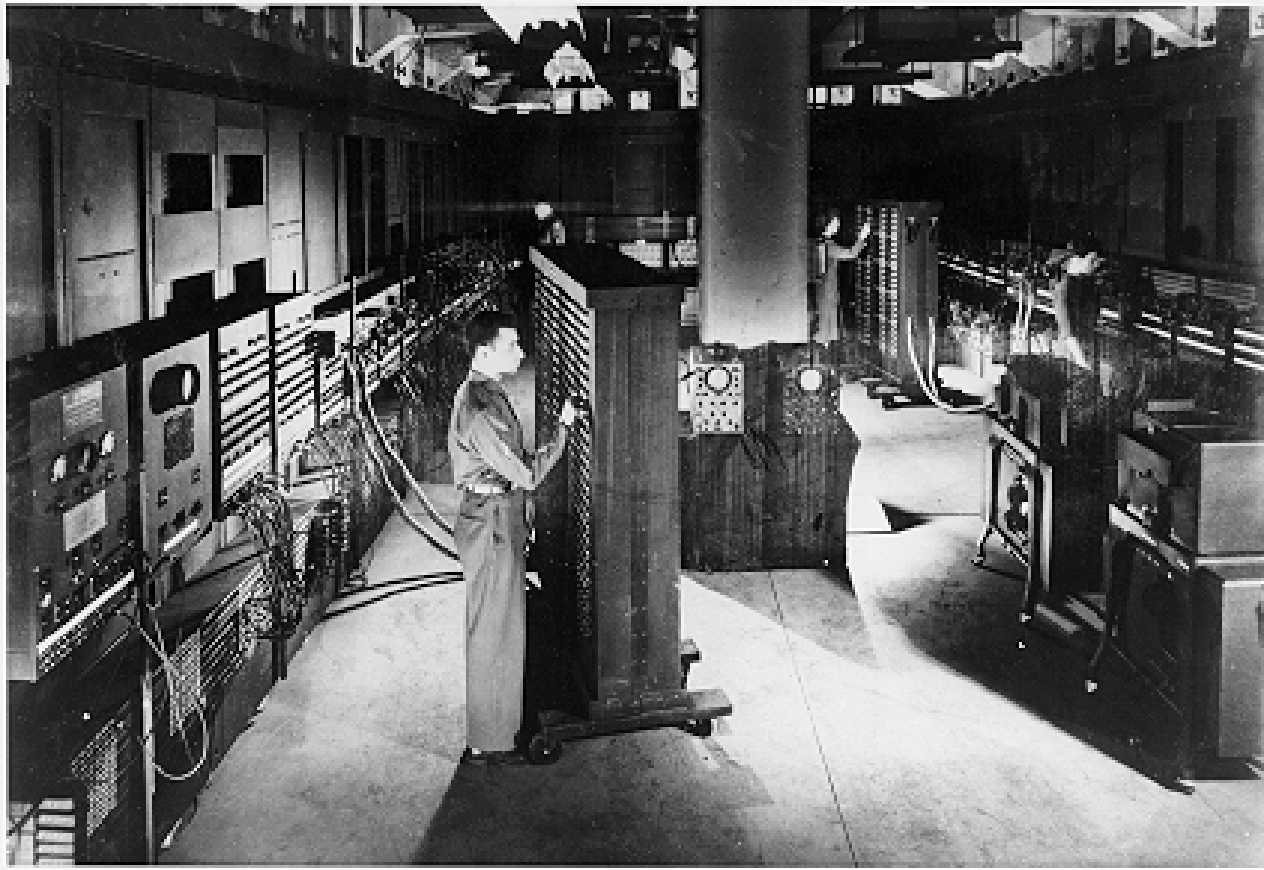


Z1(1936)



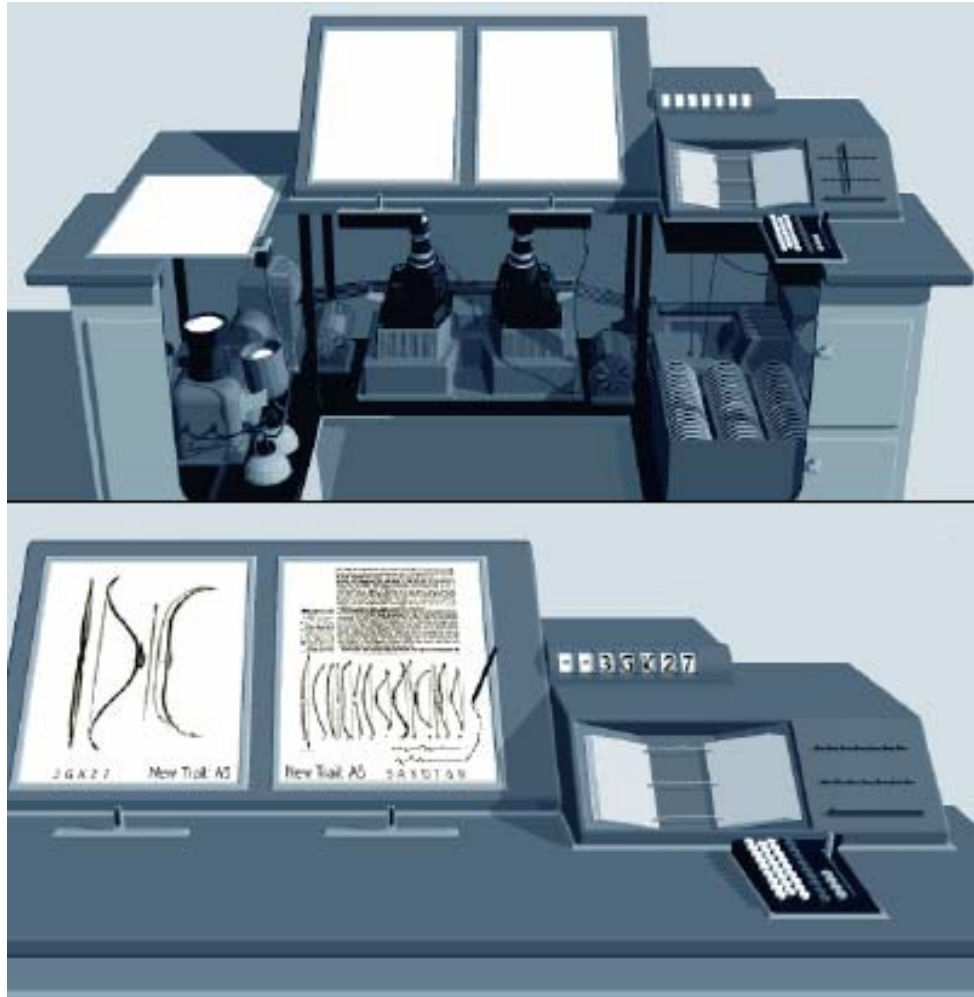
ENIAC (1943)

- A general view of the ENIAC, the world's first all electronic numerical integrator and computer.



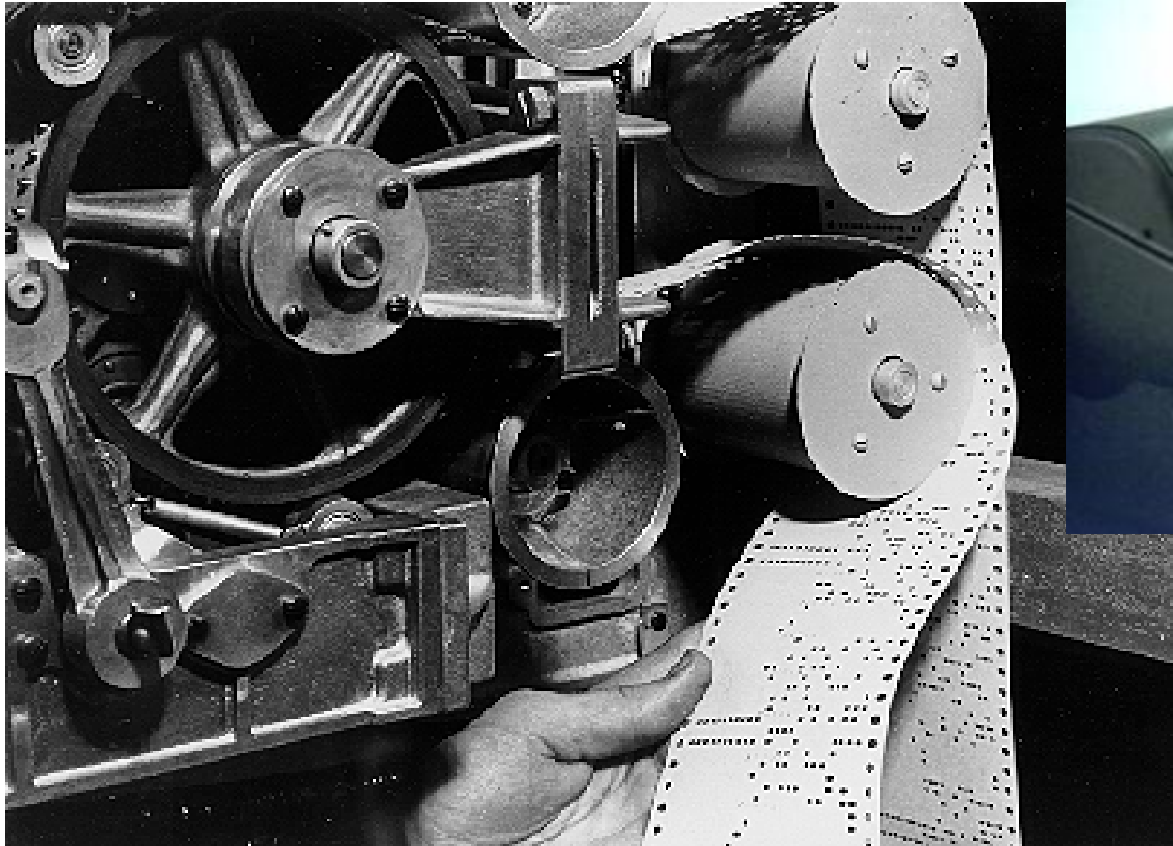
From IBM Archives.

Vannevar Bush: As We May Think



Mark I (1944)

- The Mark I paper tape readers.



From Harvard University Cruft Photo Laboratory.



Teletype circa 1969 (NWS)

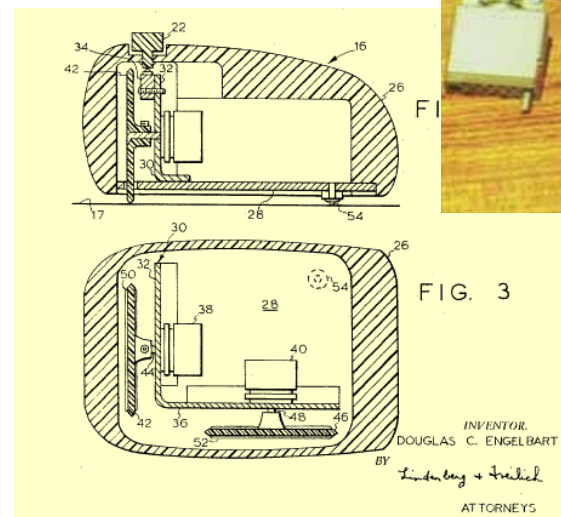
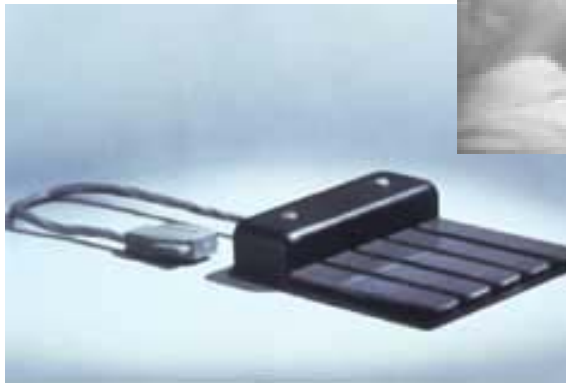
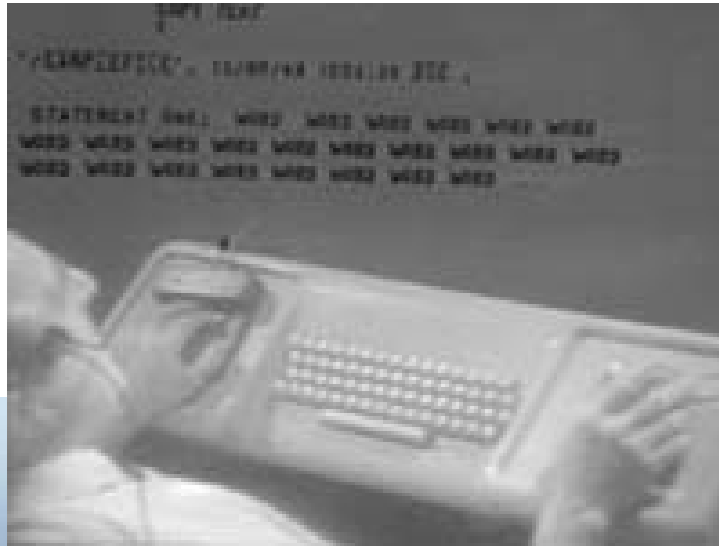
Sketchpad (1963?)

- Ivan E Sutherland's PhD thesis



NLS (Engelbart 1968)

<http://sloan.stanford.edu/mousesite/1968Demo.html>

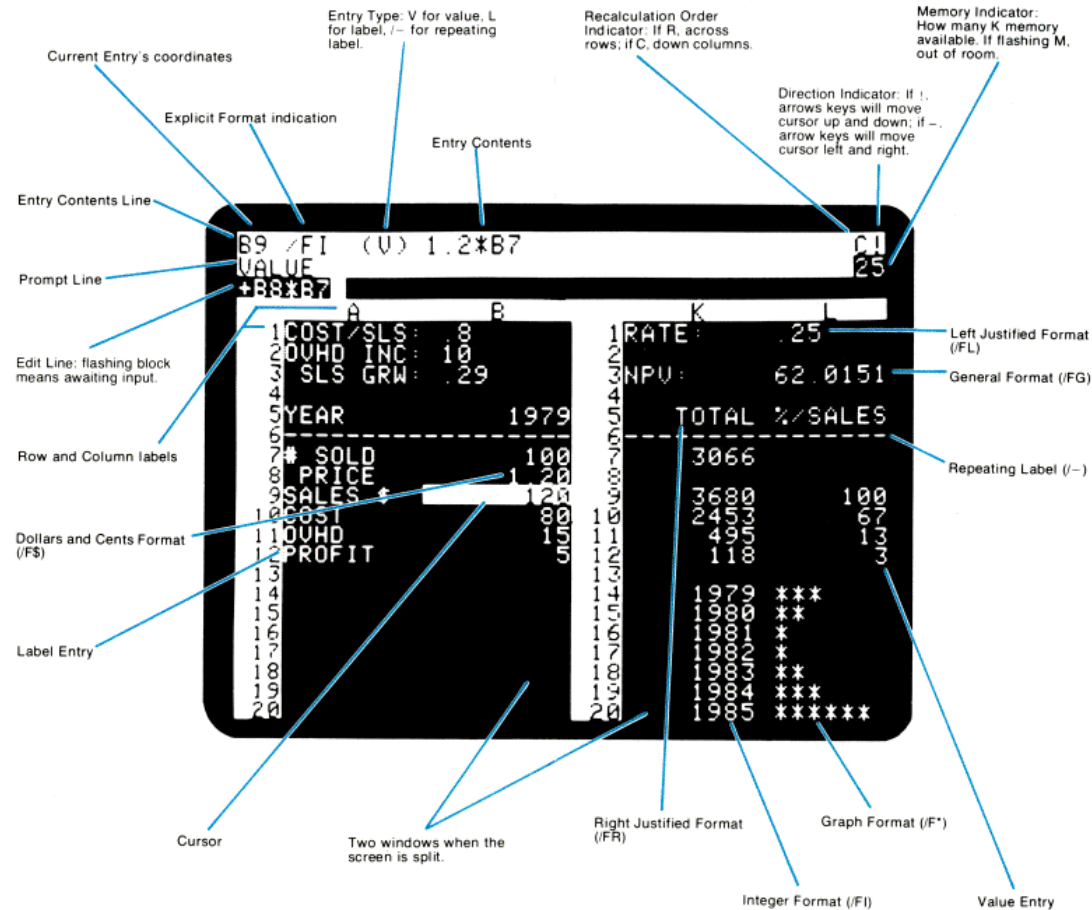


VisiCalc (D. Bricklin, 1979)

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A VISICALC™ Screen:



Alto (mid-70's) & Star (1982)

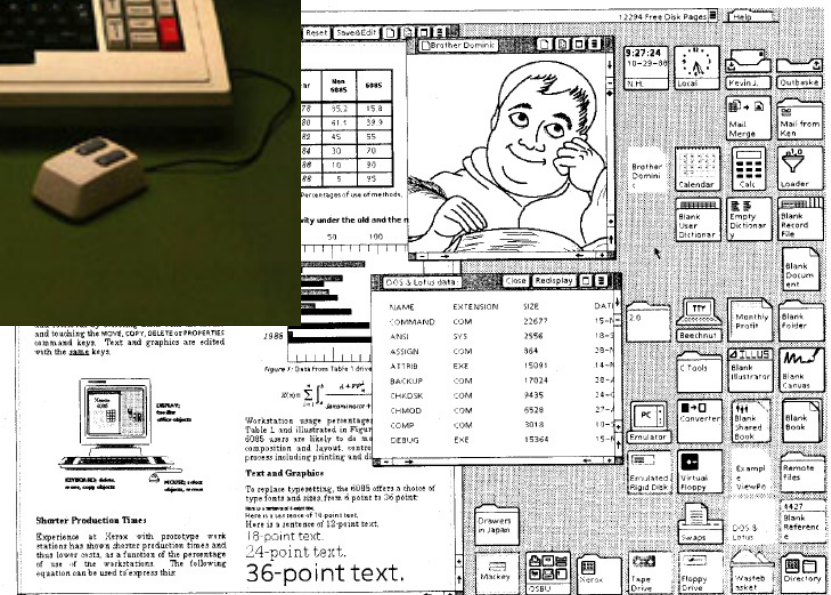
- Xerox PARC



Alto



Star



Graphical User Interface for the mass

Macintosh

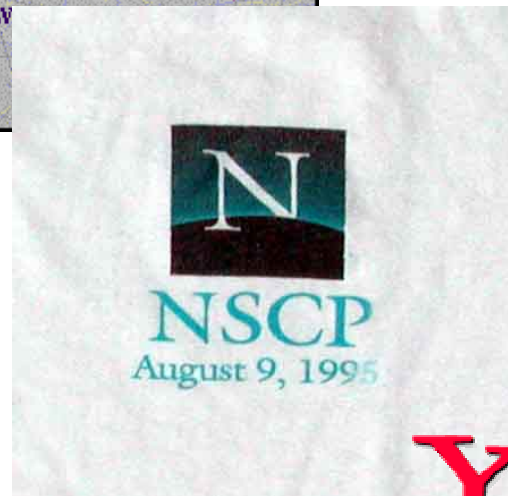


Apple Macintosh



Microsoft Windows

The Internet



YAHOO!

amazon.com.

Google™

Visions of the future (I)



Star Fire (Sun's vision in '92)



Knowledge Navigator (Apple's vision in '87)

Vision of the future (II)



Connected products (IDEO vision in '00)

“2001: A Space Odyssey” (S. Kubrick, 1971)

