

Computer Science 1401: Lecture #6

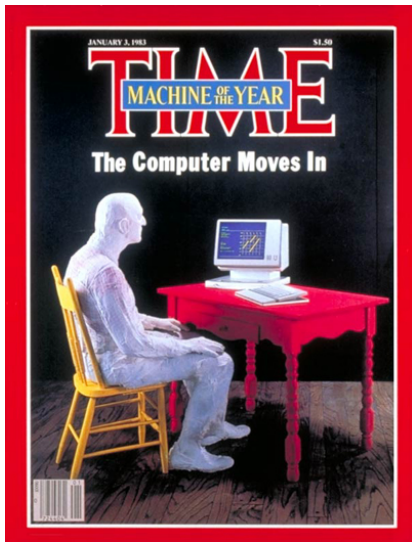
The Personal Computer Revolution

THE PC REVOLUTION: THE IMAGE

THE PC REVOLUTION: THE REALITY

THE PC REVOLUTION AT THE MOVIES:
Pirates of Silicon Valley (TV) (1999)

The PC Revolution: The Image



The PC Revolution: The Image (Cont'd)



WarGames (1983)

The PC Revolution: The Image (Cont'd)

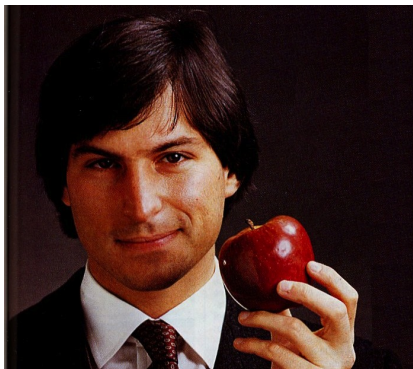


Electric Dreams (1984)

The PC Revolution: The Image (Cont'd)



Bill Gates
(1955–)



Steve Jobs
(1955–2011)

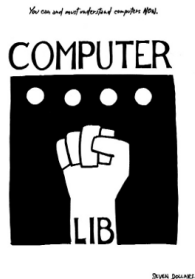
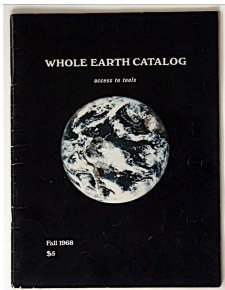
The PC Revolution: The Reality

Computing in 1970: The State of the Art

- Mainframe computers (government / business / scientific)
- Minicomputers (business / scientific)
- Consolidation of the computer industry (IBM and BUNCH)
- Most computers operate in isolation from their human users and other computers

The PC Revolution: The Reality (Cont'd)

The Computing Counterculture



- Computers as alternative technology for promoting liberty, knowledge, and happiness (“New Communalists”).
- Communalists and hobbyists envision computing as low-cost computer utilities and minicomputers, respectively.

The PC Revolution: The Reality (Cont'd)

The Computing Counterculture



Community Memory Public Terminal
(San Francisco, 1973–1975)
[FINDing: free / ADDing: 25 cents]



CM Terminal
(CRT version)

The PC Revolution: The Reality (Cont'd)

Instead of being a little mainframe, the PC is, in fact, more like an incredibly big chip. – Robert X. Cringely

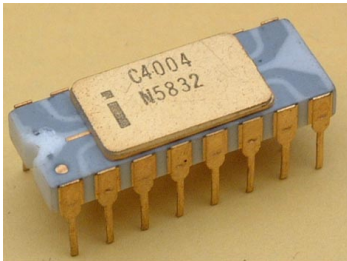


Image courtesy of CPU-Zone.com. Used with permission.



- The microprocessor was invented by Ted Hoff in 1971.
- Manufactured massively and marketed cheaply by Intel.

The PC Revolution: The Reality (Cont'd)



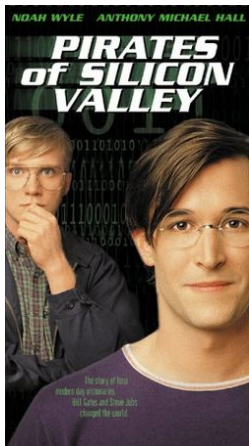
Ed Roberts
(1941-2010)



Altair 8800 (1975) [\$399]

- Computer kit produced by Micro Instrumentation Telemetry Systems (MITS); I/O hardware and software provided by other companies, *e.g.*, Micro-soft BASIC.
- Dozens of hardware and software companies in microcomputer market by 1976; hundreds by 1980.

The PC Revolution Computing At The Movies: *Pirates of Silicon Valley* (TV) (1999)



- Based on (but cuts and departs from) non-fiction book by Freiberger and Swaine; focus on Steve Jobs and Bill Gates.
- Done just after start of Job's second tenure at and resurrection of Apple.
- Steve Wozniak said personalities if not incidents accurately portrayed; Gates said it was "reasonably accurate".
- Jobs hated it.