

PDP Influence

Architecturally: allowed I/O to go directly from input device to core memory

Allowed fast I/O with minimal impact on processor Called Direct Memory Access (DMA)

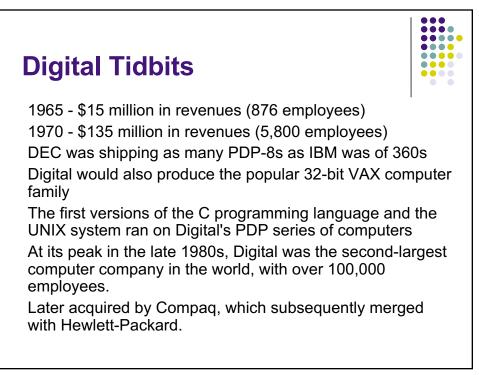
Defined the architecture of the minicomputer

Is built into the microprocessors used in PCs today

Culturally: encouraged customer modification of its models

Provided catalogs with self-instruction

Done out of necessity, but appreciated by clients



J.C.R. Licklider



1915-1990

In 1950, Licklider moved from Harvard to MIT Wrote his famous paper *Man-Computer Symbiosis* in 1960, which outlined the need for simpler interaction between computers and computer users.

http://memex.org/licklider.pdf

The earliest ideas of a global computer network were formulated by Licklider at MIT in August 1962

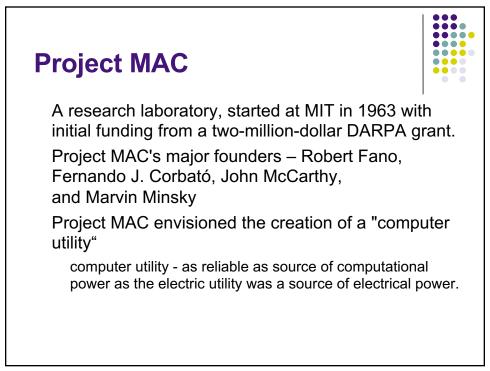
The Computer as a Communications Device (w/ R.W. Taylor)

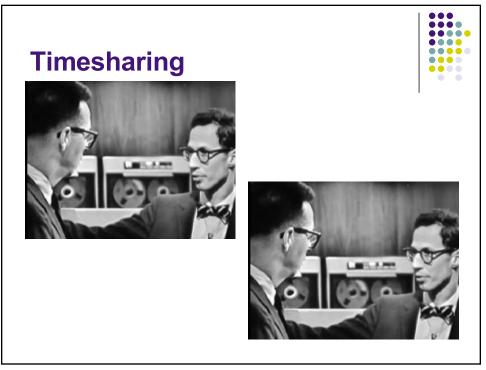
In October 1962 Licklider was appointed head of the DARPA information processing office

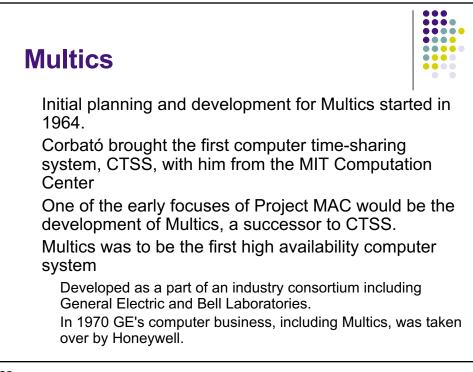
set up initial funding that led to the Internet years later

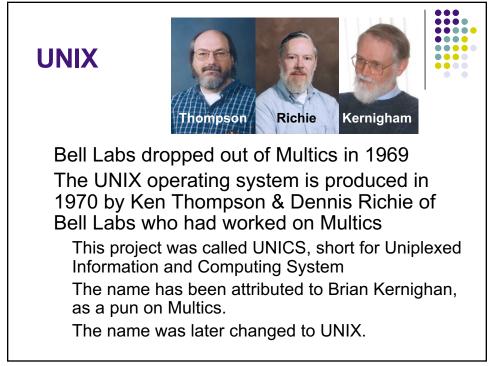
In 1968, he became director of Project MAC at MIT



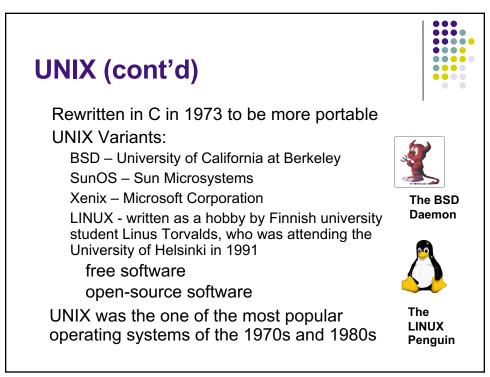


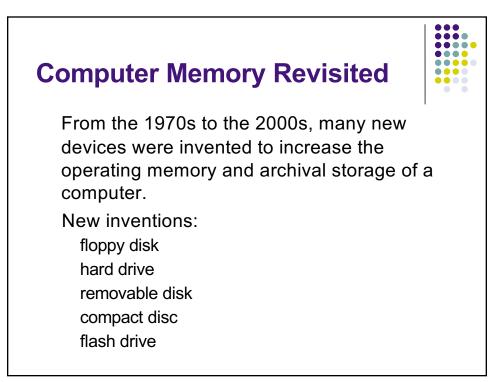




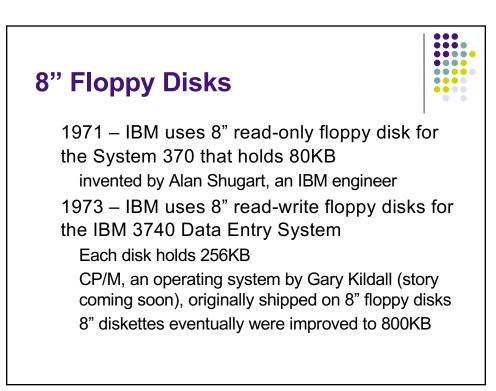


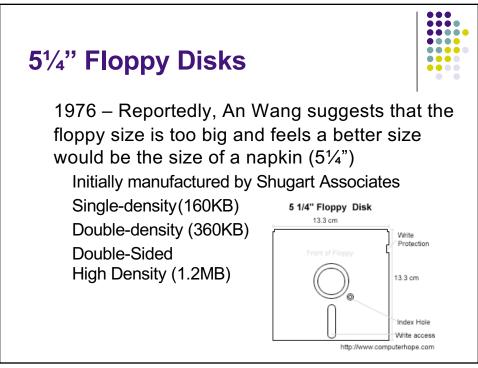


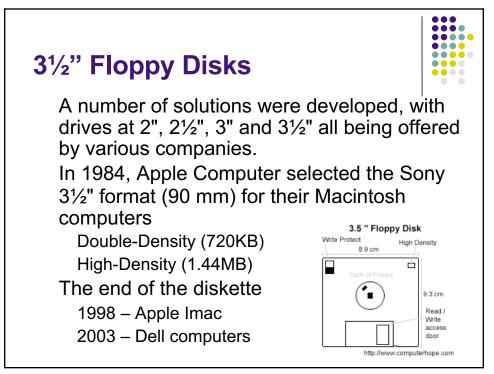








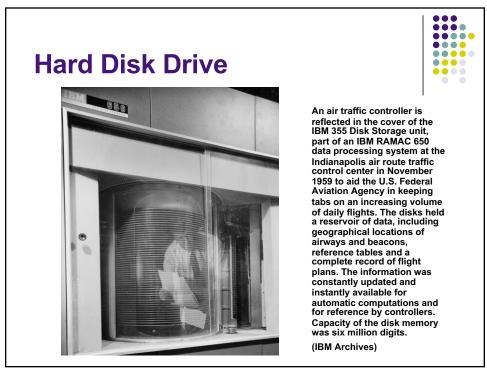




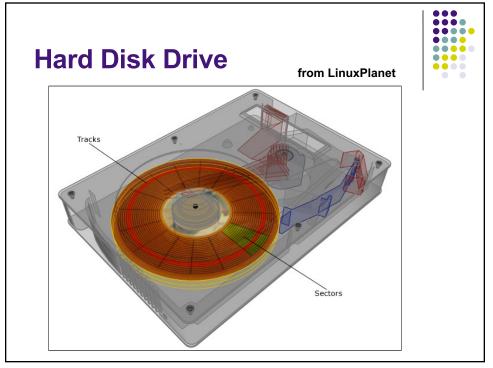
Hard Disk Drive

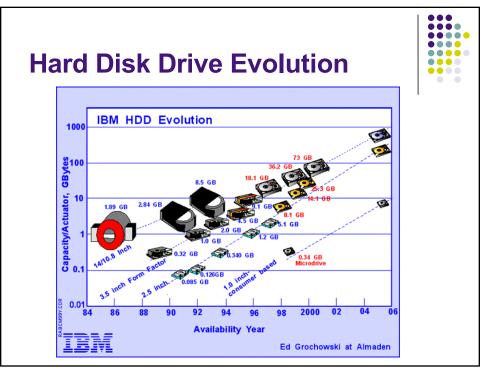


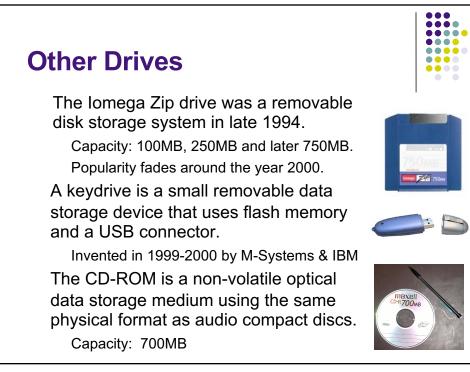
A hard disk uses rigid rotating magnetic platters. RAMAC (developed in the mid 1950s by IBM) Occupied the space of two refrigerators and weighed a ton. Stored those 5 million characters on 50 hefty aluminum disks coated on both sides with a magnetic iron oxide. In February 1954, a team in San Jose successfully transferred data from cards to disks and back. In September 1956, RAMAC was featured as the IBM 355 Most of the world's hard disks are now manufactured by just a handful of large firms: Seagate, Maxtor, Western Digital, Samsung, and the former drive manufacturing division of IBM, now sold to Hitachi.











DECTalk (1983)

DECtalk was a new type of output device, it accepted ASCII text from an RS232C terminal port and spoke the text rather than printing it. It was the first such device offered by any major

computer manufacturer.



Entertainer Stevie Wonder introduced DECtalk at Park Plaza Hotel in Boston. (Digital Computing Timeline)

