Computing - Information Processing

Media (format-content-genres)

Networked communications

Abacus 500 BC

Automatons in european corts - 1772 "Writer" by Jaquet-Droz

1801 Jacquard loom Weaving with punch cards

1833 Charles Babbage started the design for a device he called the Analytical Engine.

...numerous mechanical and electrical tabulators and calculators were developed; they were gradually getting faster and their use was became more wide spread (L Manovich).

mechanical and electrical tabulators and calculators

1890 USA census used electric tabulating machines designed by Herman Hollerith.

1924 IBM

1936. British mathematician Alan Turing wrote "On Computable Numbers" In it he provided a theoretical description of a general-purpose computer later named the Universal Turing Machine.

Konrad Zuse builds the first working digital computer. One of his innovations was program control by punched tape. The tape Zuse used was actually discarded 35 mm movie film.

Punch cards used to store and input software for the first computers

1945. V Bush Memex concept is presented in "As we might think"

1436, Johannes Guttemberg designs the movable type printing press

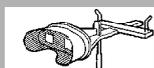1839, at the Palace of the Institute in Paris Louis Daguerre introduces the daguerreotype.

modern media storage: images, image sequences, sounds and text in different material forms

...we alowe the rise of modern media which allows the storage of images, image sequences, sounds and text in different material forms. It describes the dream of... (W.-K.-L. Dickson-Thomas Edison)

VICTOR RECORD

A patent for the Kinetograph (the camera) and the Kinetoscope (the viewer) was filed on August 24, 1891

Kinetoscope - exterior view. Electrically-driven peepshow machine for films produced with Kinetograph camera. 1894 (W.-K.-L. Dickson-Thomas Edison)

1895 The Lumière brothers showed their new Cinématographie camera/projection hybrid first to a scientific audience, and, later, in December, to the paying public.

1906 Music and Poetry reading broadcasted through radio (test)

"All existing media are translated into numerical data accessible for the computers. The result: graphics, moving images, sounds, shapes, spaces and text become computable, i.e. simply another set of computer data. In short, media becomes new media." (Lev Manovich, The Language of New Media 2001)

1844, Morse's communication inovation uses electronic impulses, a key and a special code that secuences the impulses to letters of the alphabet
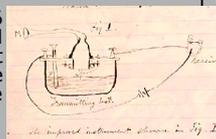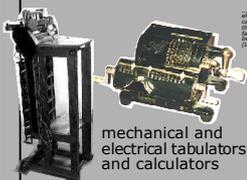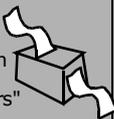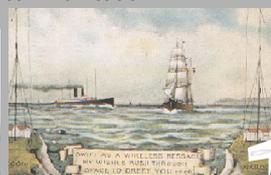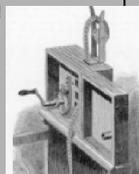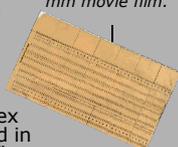
1876 Alexander G Bell obtains a patent for the Telephone

. Bell writes, "I then shouted into M [the mouthpiece] the following sentence: 'Mr. Watson--come here--I want to see you.' To my delight he came and declared that he had heard and understood what I said."

1876 Elisha Gray's Musical Telegraph. Had also filed a patent for a phone like thing, almost at the same time as Bell.

1896 (G Marconni, Popof and Tesla) Radio was first used in boats for communication

This was a unique design, resembling a gramaphone cabinet on 4 legs with a protruding metal antenae and a metal loop. The instrument was played by moving the hands around the metal loop for volume and around the antenae for pitch

Theremin 1920, one kind of electronic sound instrument

1923 The Television (John Logie Baird)

NIGHT EDITION   EVENING HERALD
Look Through Walls by Television

Home Radio Movies By C. Francis Jenkins (1926)

Radio Movies for home entertainment is the next development in which the radio industry should be interested. This means exactly what it sounds like, i.e., the broadcasting of pictures from motion picture film direct, to be reproduced on a small screen in the home, carried there by radio.

1950 Xerox's first usable copy machine

1961 The CHIP entered into commercial production

"ORDINARY" HYPERTEXT

1962 Sensorama

1963 Nam June Paik Magnet TV (video art)

1964 IBM 360
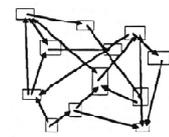
1963. T Nelson and Hypertext

Minimoog synthetizer

1968 Beyond Modern Sculpture. Jack Burnhard

1969 First 4 nodes in ARPA network

Host- server

1968 Demo of NLS, or the "oNLine System" Engelbart and collegues

1969-1984 Myron Krueger «Videoplace»

@ 1971. users' log-in name @ host computer name TO:/ SUBJECT: /CC: BCC: FWD: (RE)

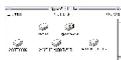Cellular phone networks, Bank networks, other networks

Aalto at Xerox Parc

CD_ROM Storage and distribution media

Usenet/ lists/ newsgroups Talk (Chatting) IRC

1984 Mac personal computer. first commercial GUI

Hypercard - Hypermedia authoring tool

http://www.aplace.co 1991 TB Lee and the WWW

.MP3. .WAV .JPG .TIFF .MOV .MPG

1993. MOSAIC browser

SMS, MMS messages