



COMP110: Principles of Computing  
**1: Computing History and  
Profession**



What was the first computer?



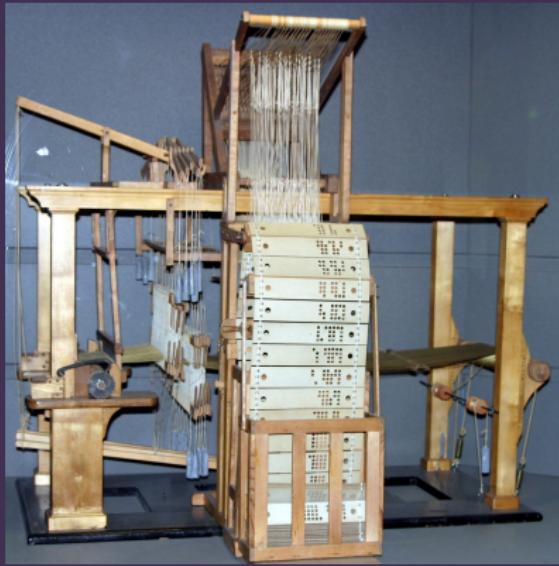
# Antikythera Mechanism (~150 BC)

First mechanical computer?



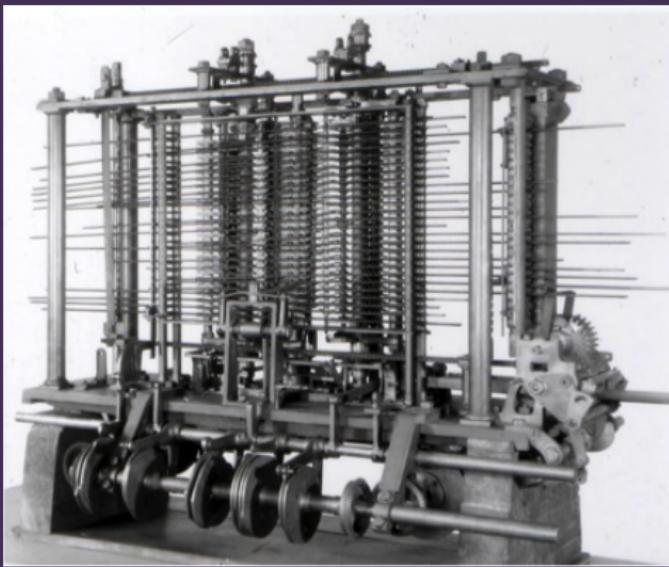
# Jacquard Loom (1804)

First programmable machine in modern age



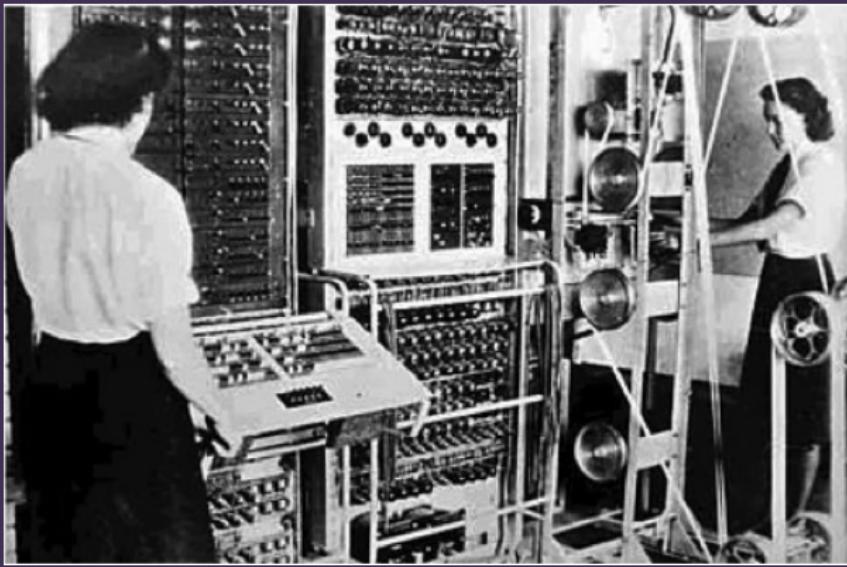
# Babbage's Difference and Analytical Engines (1837)

First mechanical computer in modern age



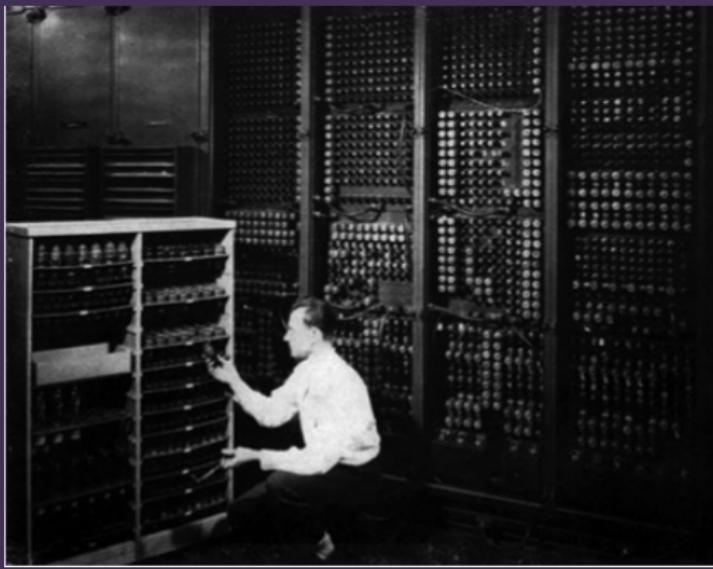
# Colossus (1943)

First programmable electronic computer



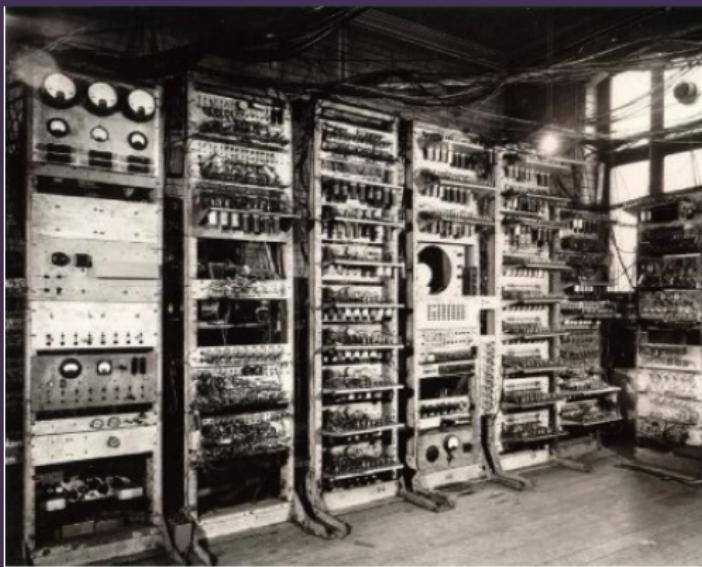
# ENIAC (1946)

First general-purpose computer



# Manchester Small-Scale Experimental Machine (1948)

First stored program computer



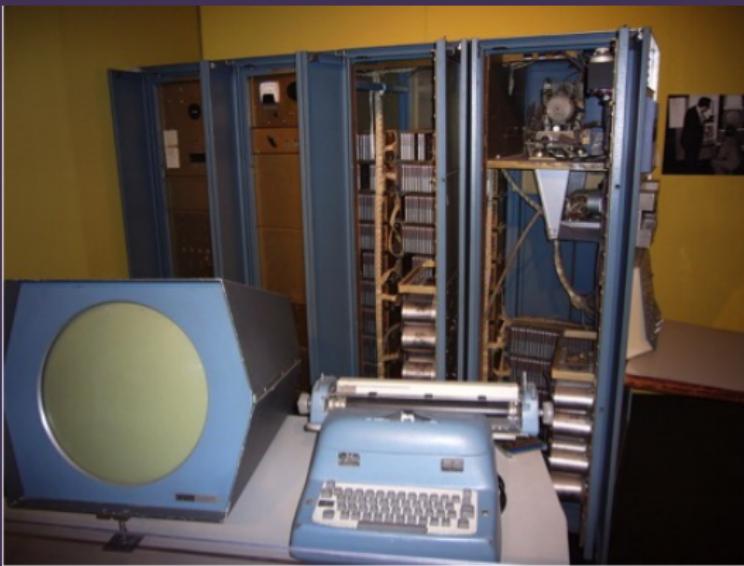
# TRADIC (1949)

First transistor computer



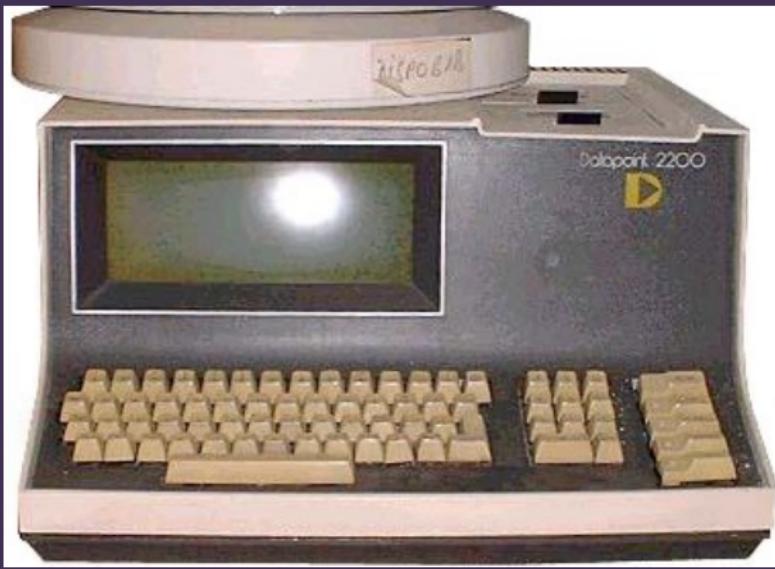
# PDP-1 (1959)

Influenced “hacker culture”



# Datapoint 2200 (1970)

First microcomputer



# Commodore VIC 20 (1980)

First computer to sell 1 million units



# IBM Personal Computer Model 5150 (1981)

Precursor to the modern PC



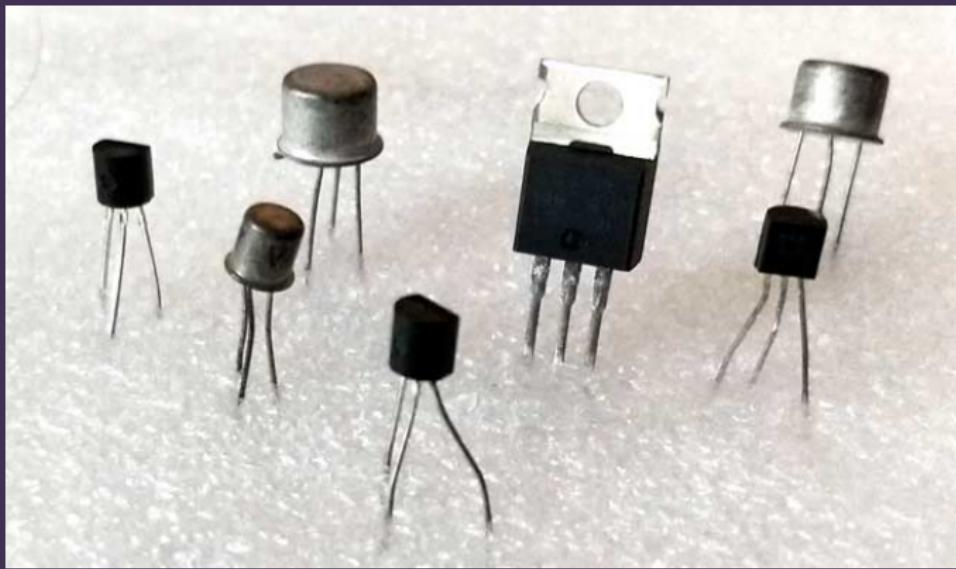
# Electronic computer technologies



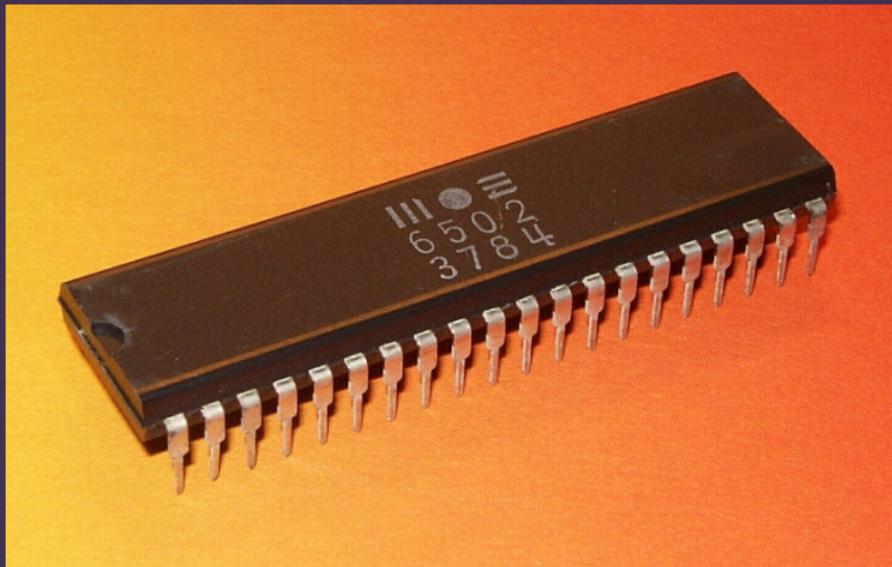
# Vacuum tubes (valves)



# Transistors



# Integrated circuits (ICs)





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2020	Nvidia GeForce RTX 3080	28 billion transistors



What was the first computer game?



# Cathode Ray Tube Amusement Device (1948)

## First interactive electronic game



# Chess AI on the Ferranti Mark I (1951)

First chess program



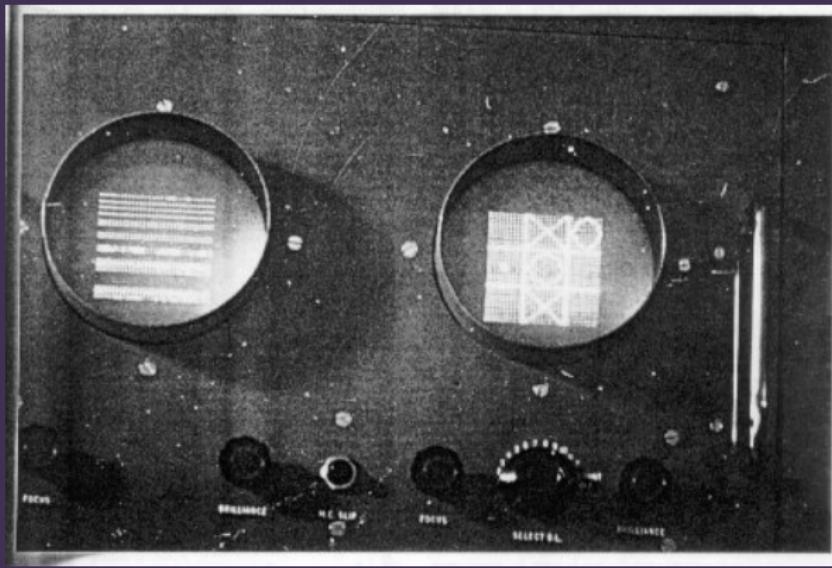
# Bertie the Brain (1950)

First computer game with a visual display



OXO (1951)

## First game with visuals on a general-purpose computer



# Tennis for Two (1959)

First to be created purely for entertainment



# SpaceWar! (1962)

First widely available game, inspired first arcade games



# Pong (1972)

First commercially successful game



What was the first games console?



# The Brown Box (1967)

First prototype console



# Magnavox Odyssey (1972)

First commercial console



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- ▶ Discuss in breakout groups

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- ▶ Will the important skills be the same or different?