Computer revolution

5 keywords:

* Programmable computer
* Difference Engine
* Analytical Engine
* RAM
* Turing complete

Charles Babbage was the first person who originated the concept of a programmable computer. He was born in 1791 in London and died in 1871. He was an English mechanical engineer and polymath. They considered him as a father of the computer. His first invented mechanical computer was in the early 19th century. He was working on his revolutionary Difference Engine after he realzed that an Analytical Engine was possible to make. For output, the machine would have a printer, a curve plotter and a bell. The machine would also be able to print numbers onto cards to be able to read them. The Engine can integrated memory and the first designe for a general computer that could be described in modern terms as Turing complete. The machine was about a century ahead of its time. All parts for his machine had to be made by hand and that was a major problem for him becouse this device had thousands of parts. Eventually, the project was stoped by the government. Even though he didn't finished the project and desire to develop an increasingly sophisticated computer, he was one of the best of making a programmable computers. After his death, his son Henry completed a simplified version of the Analytical Engine in 1888.

A mechanical computer is built from mechanical components such as levers and gears rather than electronic components. Mechanical computers can be either analog, using smooth mechanisms such as curved plates or slide rules for computations or digital, which use gears. A mechanical computer reach there top in WW2. Mechanical computers continued to be used into the 1960, but were quickly replaced by electronic calculators.

The Manchester Baby was the first electronic stored program computer. It was build at the University of Manchester and ran its first program in 1948. This computer was first which used random-access memory (RAM). It was the first working machine to contain all the elements essential to a modern electronic computer. The Baby had a 32-bit word length and a memory of 32 words(Kilobite).

Nowadays the computers are more powerfull. In the past computers were much larger than todays computers, but less powerfull and people must travel to their workstation. Now we can work from home. Now computers have much more space. In the past they use max of 5 Mbit but now we are using multi Tbit. In the past they use mechanical arms plates and moving parts but now we are using SSDs store data and microchips making computer much faster. Processors and RAM have become far more powerful. Modern computers boot faster and software is faster. Now drives are much larger. Computers are now more secure becouse they have build in security. Big thing now is that we can secure our computers with fingerprint and facial scanners. With office 365 utilizing the cloud your Word documents email and others, you can exces them in any device you want or if your computer broke your data will always be safe.