



98 O Communications

means to be human question of what it to the heart of the don't 'think'. This goes machine. As yet, they test between person and passed the 'Turing Test' instructions; none has yet this by following pre-set But they accomplish through our photographs the Moon to sorting carry out many tasks, Computers enable us to 3-MINUTE OVERVIEW about our reliance on them that gives rise to disquiet modern life to an extent many fields and permeate human performance in Computers have enhanced **3-SECOND SURVEY** human in a comparative from sending people to they do not pass for

THE COMPUTER

the 30-second history

in which interchangeable punch cards were used greater mechanization called for something more and technological limitations meant that Babbage's and analyse the accuracy of the results. Financia adaptable. In 1801, Joseph Jacquard built a loom as engineering and military needs became more machine was never built in his lifetime, but perhaps limitless calculations that would minimize error than one task. It was the inspiration for Charles to control the patterns of cloth produced: the tell the time or grind corn, for example. But machines were designed to do one thing – to Before the Industrial Revolution provided the foundation for modern computers which together with the application of electronics as a machine that can perform any computation capabilities of humans in scale and time created complex, particularly during the Second World developed was that the demand didn't exist. Yet for the first programmable computers to be Babbage's 'Difference Engine', conceived in 1822 first machine that could be instructed to do more device), he formalized the basis of computing. that could be performed by any other computing hypothesis of a Turing Machine in 1936 (defined that demand. When Alan Turing published his War, issues requiring computations beyond the the reason it took until the twentieth century His idea was for a universal machine capable of

RELATED TOPICS See also

THE TELEVISION page 106

THE SMARTPHONE

3-SECOND BIOGRAPHIES ADA LOVELACE

English mathematician who wrote an algorithm for use by Babbage's analytical engine

KONRAD ZUSE

Cerman inventor who built the first fully program-controlled computer, the Z₁, in 1938 and the first functional programmabl computer, the Z₃, in 1941

ALAN TURING

1912–54 English mathematician whose analysis of methodical process led to the development of 'definite method' – in modern language, an algorithm

30-SECOND TEXT Diana Rawlinson

ENIAC, the world's first electronic computer, cost \$500,000 and occupied the same floo.

space as a small house



Source: 30-second Great Inventions by David Boyle