Charles Babbage

Occupation: University teacher, Inventor, Mathematician, Computer Science, Economist, Writer, Engineer, Philosopher

Birth date: 26 December 1791

Death date: 18 October 1871

Place of birth: London

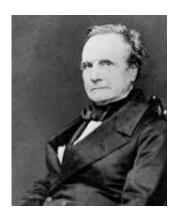
Place of death: Marylebone

Alma mater: Peterhouse Cambridge,

Trinity College

Awards: Gold Medal of the Royal

Astronomical Society



Quotes:

- 1. Errors using inadequate data are much less than those using no data at all
- 2. Perhaps it would be better for science, that all criticism should be avowed
- 3. In mathematics we have long since drawn the rein, and given over a hopeless race.

Known for:

He conceived the first automatic digital computer.

Ada Lovelace

Occupation: Software Developer

Birth date: 10 December 1815

Death date: 27 November 1852

Place of birth: London

Place of death: Marylebone

Alma mater: No formal schooling

Awards: PRACE Ada Lovelace Award



The first computer programmer



George Boole

Occupation: Mathematician

Birth date: 2 November 1815

Death date: 8 December 1864

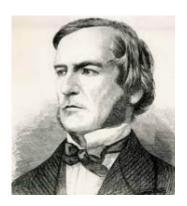
Place of birth: Lincoln

Place of death:Cork, Ireland

Alma mater: Lincoln University College

Cork

Awards: Royal Medal



Quotes:

- 1. Probability is expectation founded upon partial knowledge
- 2. It is not of the essence of mathematics to be conversant with the ideas of number and quantity
- 3. Of the many forms of false culture, a premature converse with abstractions is perhaps the most likely to prove fatal to the growth of a masculine vigour of intellect

Known for:

Differential equations and Algebraic Logic

Augustus De Morgan

Occupation: Lawyer

Birth date: 27 June 1806

Death date: 18 March 1871

Place of birth: India

Place of death: London

Alma mater: University of Cambridge

Awards: The De Morgan Medal



Known for:

He worked on double algebra and trigonometry and his advances in mathematics

Law proof:

Alan Turing

Occupation: Computer Scientist,

Logician

Birth date: 23 June 1912

Death date: 7 June 1954

Place of birth: Maida Vale, London

Place of death: Wilmslow

Alma mater: Princton University,

University of Cambridge, King's College

Awards: Smith's Prize



Quotes:

- 1. "Sometimes it is the people no one can imagine anything of who do the things no one can imagine."
- 2. "We can only see a short distance ahead, but we can see plenty there that needs to be done."
- 3. "Those who can imagine anything, can create the impossible."

Known for:

He created the Universal Turing Machine, which was the basis for the first computer, he also developed a test for artificial intelligence in 1950.

Claude Shannon

Occupation: Electronic Engineer,

Geneticist

Birth date: 30 April 1916

Death date: 24 February 2001

Place of birth: Michigan, US

Place of death: Massachusetts, US

Alma mater: University of Michigan

Awards: Claude Shannon Award of the

IEEE Information Theory Society



Quotes:

- 1. I visualize a time when we will be to robots what dogs are to humans, and I'm rooting for the machines.
- 2. Information is the resolution of uncertainty.
- 3. Information: the negative reciprocal value of probability.

Known for:

He conceived and laid the foundations for information theory. Laid the groundwork for the electronic communications networks that now lace the earth.

John Von Neumann

Occupation: Chemist, Engineer,

Economist, Physicist

Birth date: 28 December 1903

Death date: 8 February 1957

Place of birth: Budapest, Hungary

Place of death: Walter Reed Army

Medical Centre, Bethesda

Alma mater: ETH Zurich, Humboldt University of Berlin, ELTE Faculty of

Science

Awards: Medal of Freedom, Enrico Fermi Award. Medal for Merit



Quotes:

- 1. "If people do not believe that mathematics is simple, it is only because they do not realize how complicated life is."
- 2. "Young man, in mathematics you don't understand things. You just get used to them."
- 3. "There's no sense in being precise when you don't even know what you're talking about"

Known for:

He created the Von Neumann Architecture and his work on the CPU is what he was known for.

Grace Hopper

Occupation: Software Developer, Naval

Officer, Physicist

Birth date: 9 December 1906

Death date: 1 January 1992

Place of birth: New York, US

Place of death: Virginia, US

Alma mater: Yale University

Awards: Presidential Medal of Freedom, IEEE Emanuel R. Piore

Award, National Medal of Technology

and Innovation



Quotes:

- 1. "A ship in port is safe, but that's not what ships are built for."
- 2. "I've always been more interested in the future than in the past."
- 3. "One accurate measurement is worth a thousand expert opinions."

Known for:

She was one of the first computer programmers to work on the Harvard Mark I. She helped develop COBOL - one of the first high-level programming languages.

John Backus

Occupation: Soldier, Computer

Scientist

Birth date: 3 December 1924

Death date: 17 March 2007

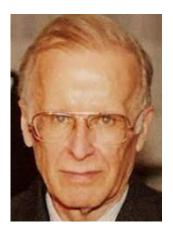
Place of birth: Delaware, US

Place of death: Oregon, US

Alma mater: Columbia University

Awards: National Medal of Science, Turing award, Charles Stark Draper

Prize



Quotes:

- 1. They don't like thinking in medical school. They memorize that's all they want you to do. You must not think.
- 2. You need the willingness to fail all the time.
- 3. Much of my work has come from being lazy.

Known for:

The invention of FORTAN and for the BNF notation for describing the syntax of a programming language.

Edsger Dijkstra

Occupation: Engineer, Computer

Scientist

Birth date: 11 May 1930

Death date: 6 August 2002

Place of birth: Rotterdam, Netherlands

Place of death: Nuenen, Netherlands

Alma mater: Leiden University,

University fo Amsterdam

Awards: ACM PODC Influential Paper

Award



Quotes:

- 1. "Simplicity is a great virtue but it requires hard work to achieve it and education to appreciate it. And to make matters worse: complexity sells better."
- 2. "The question of whether a computer can think is no more interesting than the question of whether a submarine can swim."
- **3.** "Simplicity is prerequisite for reliability."

Known for:

His shortest path algorithm, a methods of finding the most direct route on a graph or map. He worked on Algol 60, a programming language that represented on of the first compiler programs that translates human instructions

Tim Berners-Lee

Occupation: Software Developer, Web

developer

Birth date: 8 June 1955

Death date: N/A

Place of birth: London

Place of death: N/A

Alma mater: Queen's College

Awards: Turing Award, President's Medal, Queen Elizabeth Prize for Engineering, IEEE Computer Society Awards, Fir Frank Whittle Medal, IET Moutbattern Medal, Japan Prize, Royal Medal



Quotes:

- 1. "The Web as I envisaged it, we have not seen it yet. The future is still so much bigger than the past"
- 2. "We need diversity of thought in the world to face the new challenges"
- 3. "Data is a precious thing and will last longer than the systems themselves"

Known for:

He invented the World Wide Web.