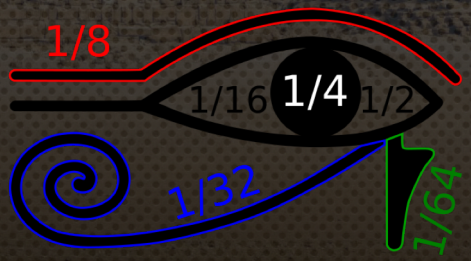
HISTORY OF COMPUTER ARITHMETIC

BY: GRAIG BRIDGEBURNER AND TEA

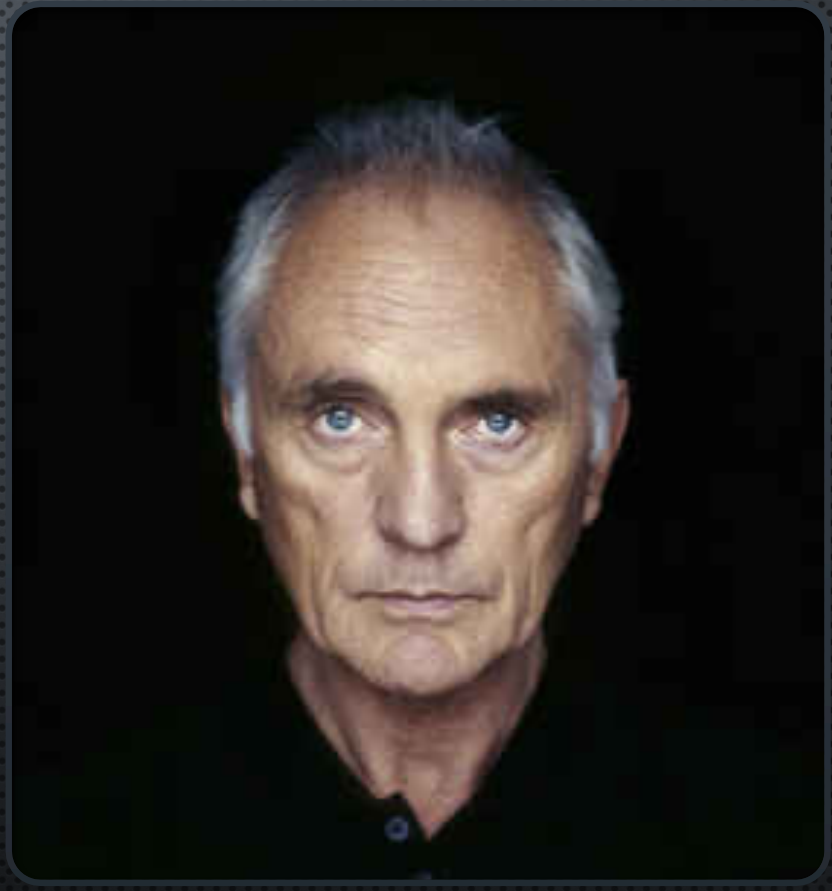
ANCIENT ORIGINS OF BINARY

- EGYPT
- CHINA
- INDIA



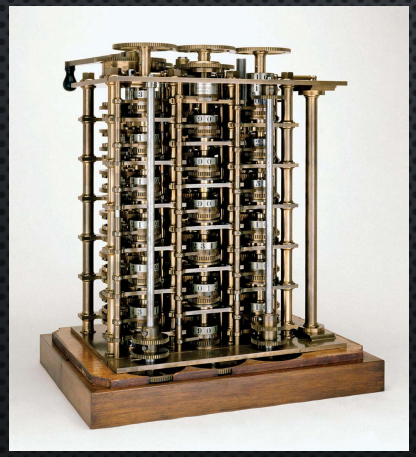
GOTTFRIED LEIBNIZ

- FATHER OF MODERN BINARY SYSTEM
- DEVELOPED THE LANGUAGE BUT DIDN'T KNOW WHAT TO DO WITH IT
- ALL THAT FOREHEAD TO STORE 64 BIT LOGIC
- BUILT THE STEPPED RECKONER, A BINARY BASED MECHANICAL CALCULATOR

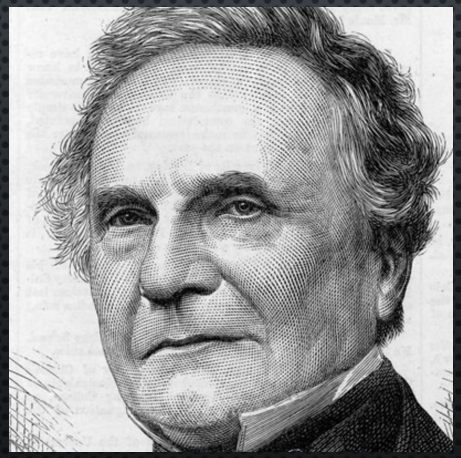


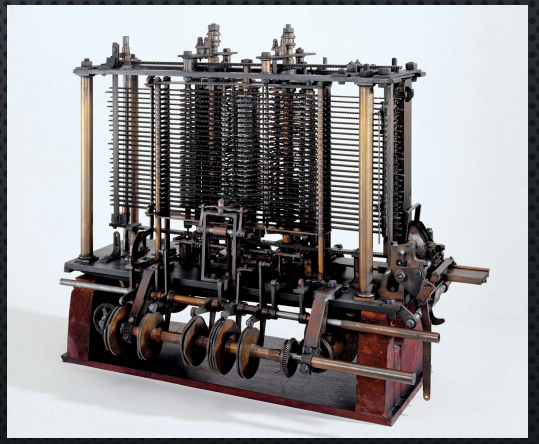
CHARLES BABBAGE

- The initial Difference Engine prototype finished in 1822.
- Difference Engine No. 2 was begun but abandoned so Babbage could work on his analytical engine
- Leonardo Torres y Quevedo



Difference Engine

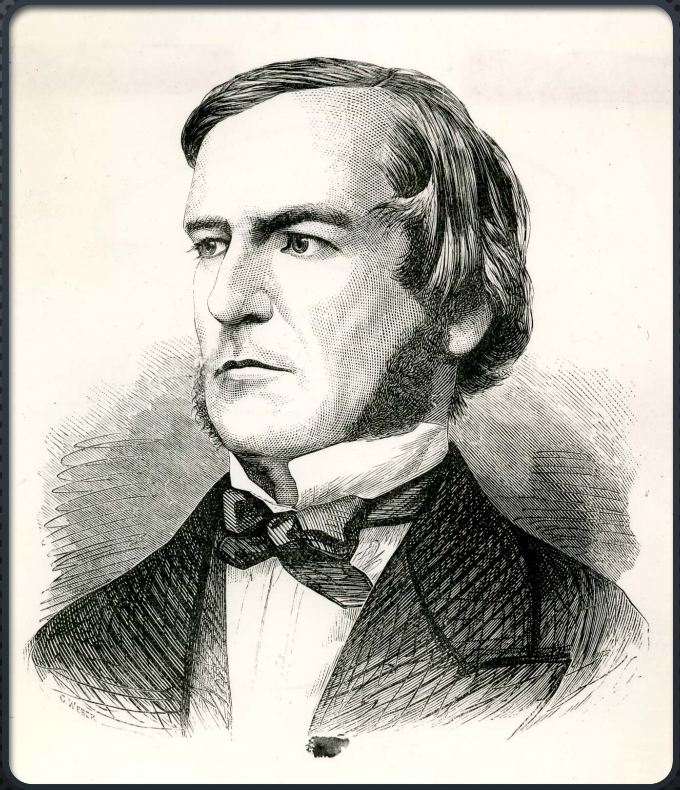




Analytical Machine

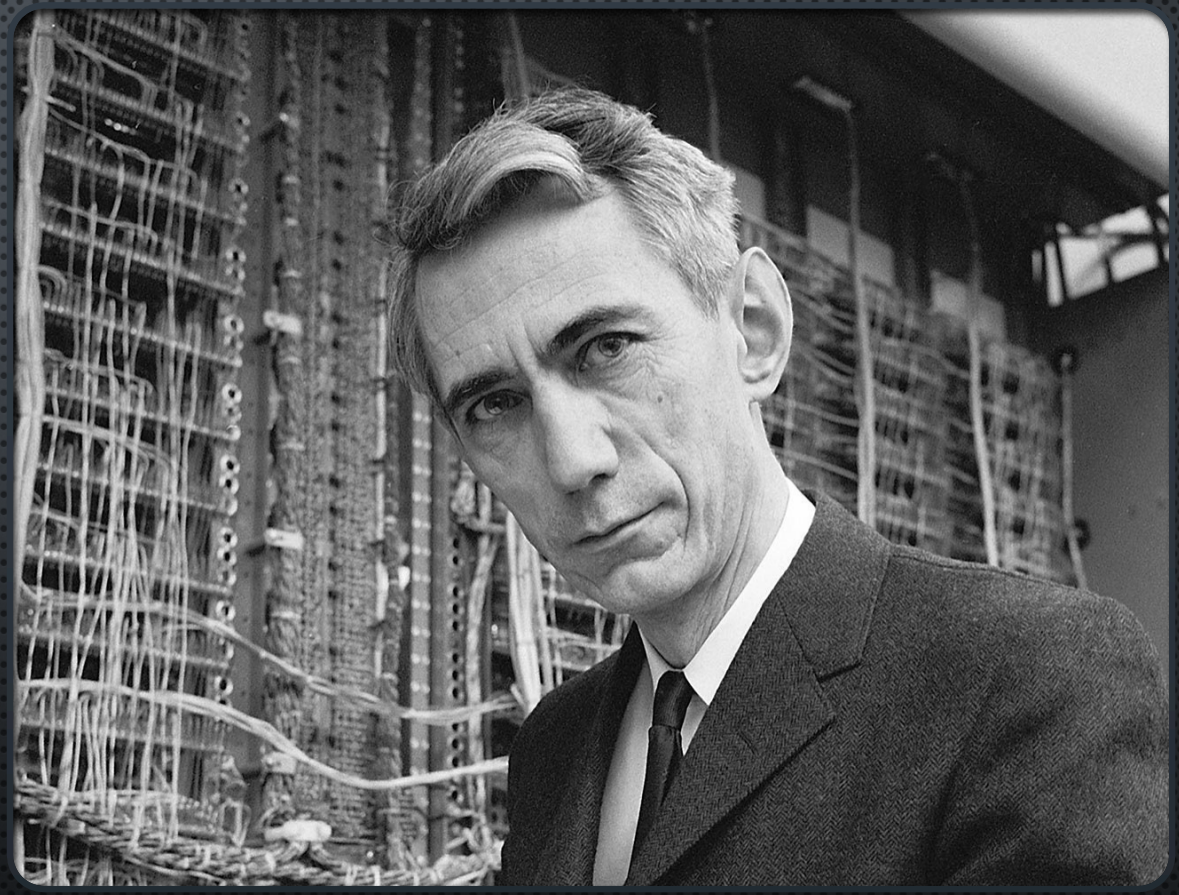
GEORGE BOOLE

- FATHER OF BOOLEAN ALGEBRA
- SOME SIDEBURNS I GUESS



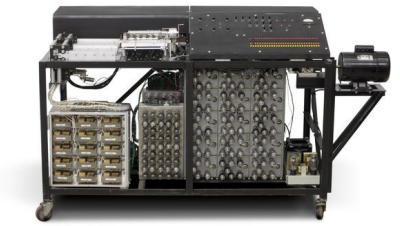
CLAUDE SHANNON

- Laid the Foundation of Digital Circuit Design
- Above All an Electrical Engineer



JOHN ATANASOFF

- He is pointing up with the wrong hand
- Created the first electronic digital computer with help from his sad graduate student



The Usual Suspect

JOHN VON BON JOVI VON BON VON NEUMANN

Inventor of Von Neumann

Architecture

The Usual Suspect

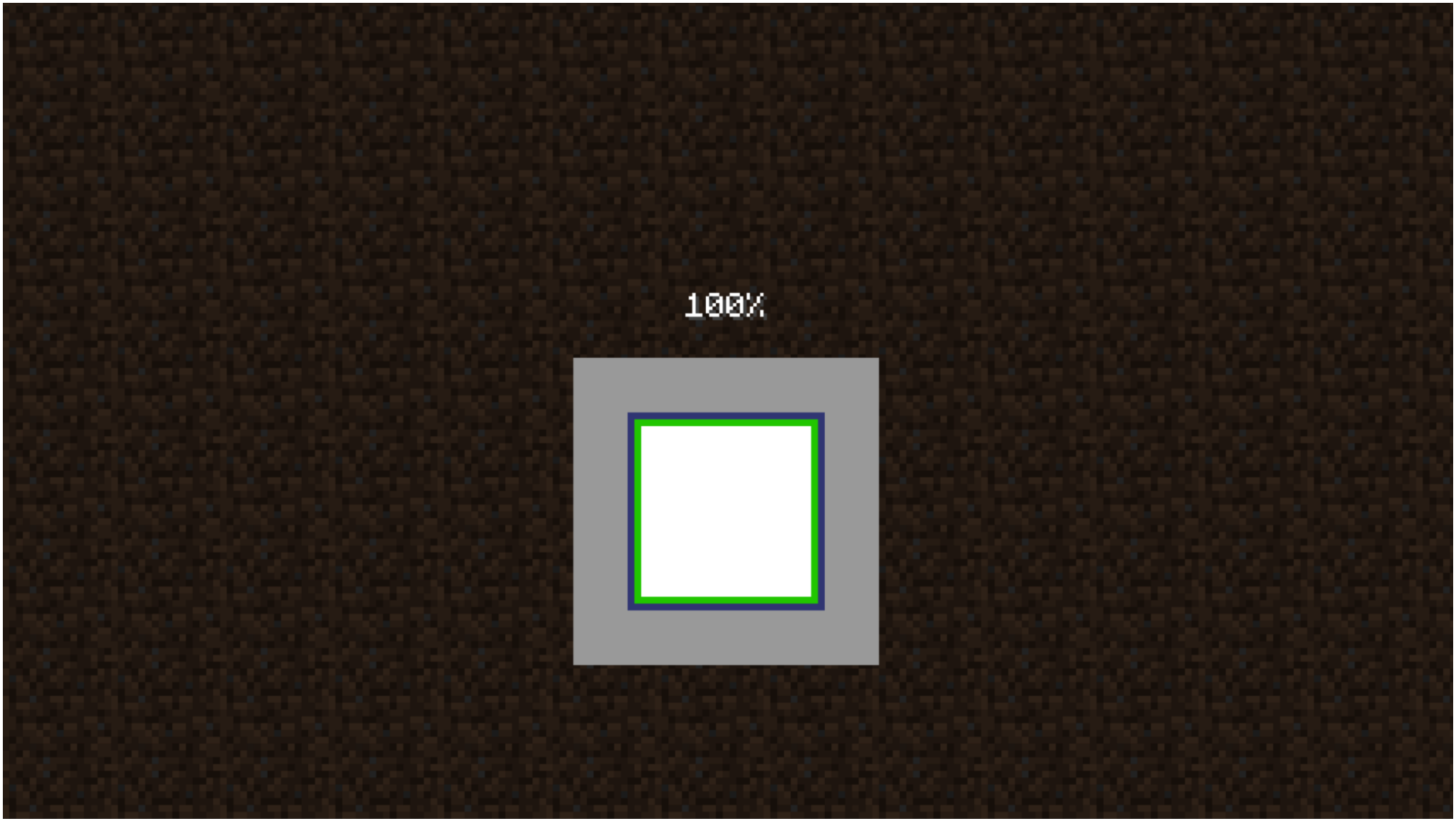
JOHN VON NEUMANN

Inventor of Von Neumann

Architecture

SOURCES

- https://en.wikipedia.org/wiki/Ancient_Egyptian_multiplication
- https://en.wikipedia.org/wiki/Binary_number
- https://www.kerryr.net/pioneers/leibniz.htm
- https://en.wikipedia.org/wiki/Difference_engine
- https://en.wikipedia.org/wiki/Leonardo_Torres_y_Quevedo
- https://www.britannica.com/biography/George-Boole
- https://en.wikipedia.org/wiki/George_Boole
- https://en.wikipedia.org/wiki/Claude_Shannon
- Von Neumann, John (1951). "Various techniques used in connection with random digits". *National Bureau of Standards Applied Mathematics Series*. **12**: 36–38.
- https://www.computerscience.gcse.guru/theory/von-neumann-architecture
- https://en.wikipedia.org/wiki/Von_Neumann_architecture#Development_of_the_stored-program_concept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