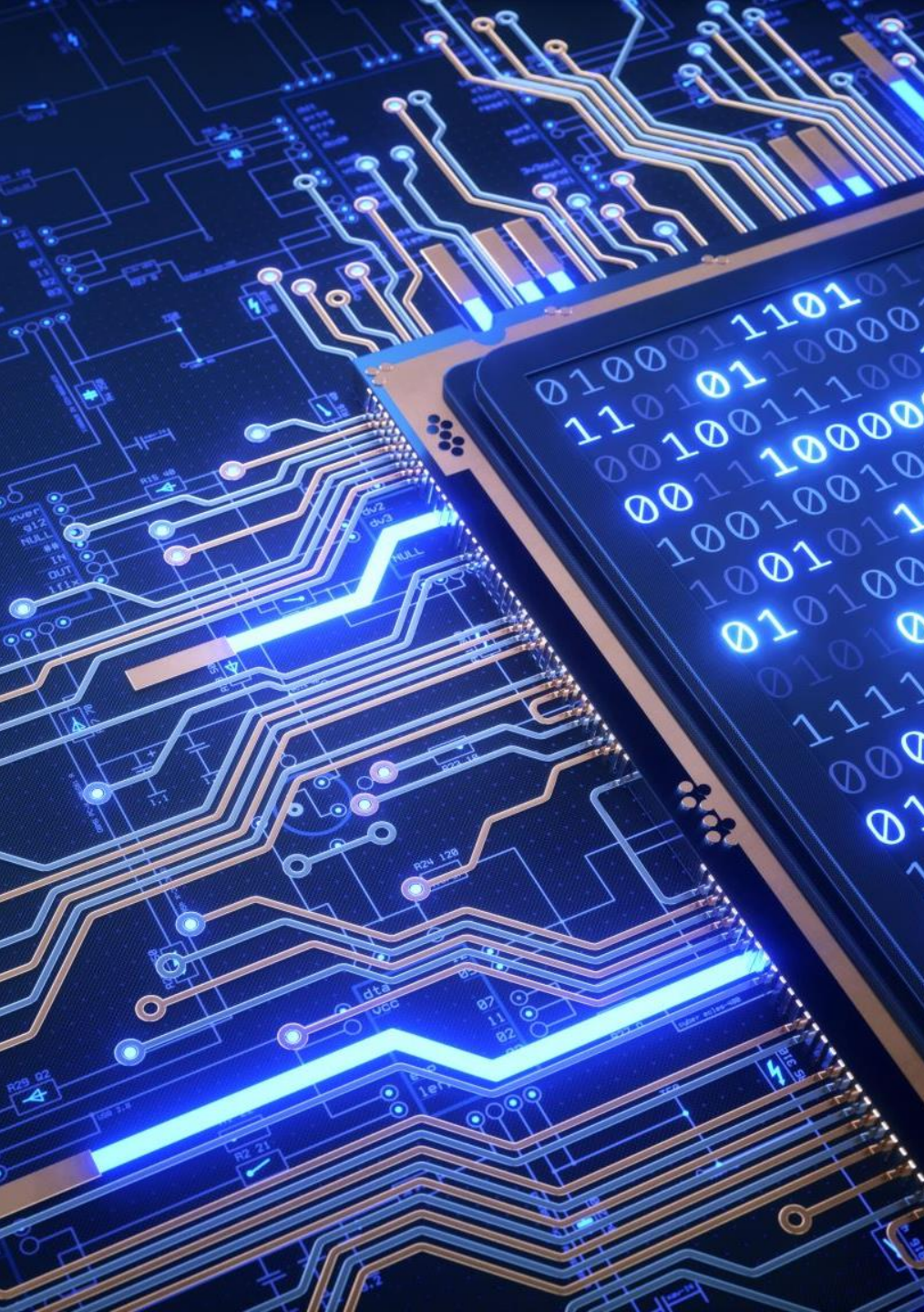


# Making of Artificial Intelligence

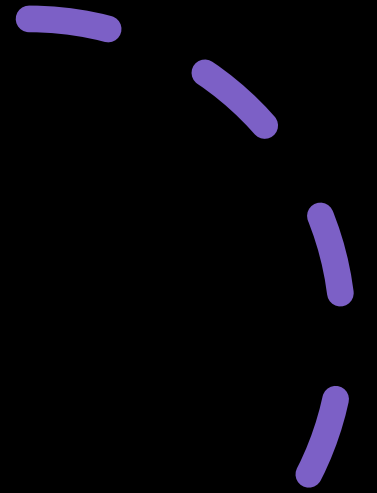
Presentation by:  
Shayan Bakht





# Overview

1. Introduction
2. History and AI's Origin
3. Turing's Test
4. Logic Theorist
5. Dartmouth Conference





“

It seems probable that once the machine thinking method had started, it would not take long to outstrip our feeble powers... They would be able to converse with each other to sharpen their wits. At some stage therefore, we should have to expect the machines to take control.

- *Alan Turing*  
in 1951

# History and AI's Origin

(early 1800's and the early 1950s)

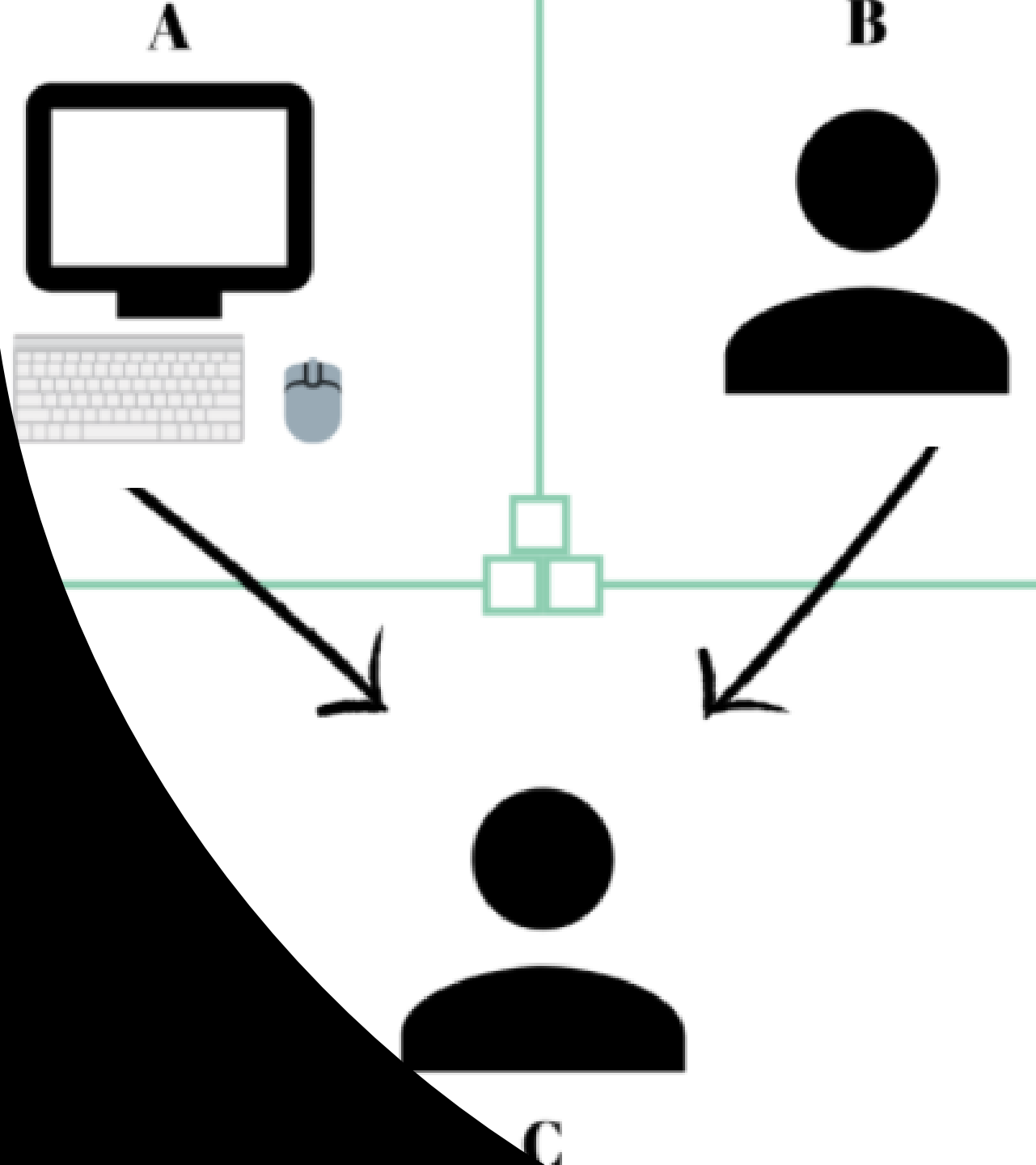
- Function of human brain (neurons)
- Norbert Wiener's Cybernetics (1948)
- Claude Shannon's Information theory (1948)
- Alan Turing's theory of computation

“Possibility to construct an electronic brain”



# Turing's Test

- A **Turing Test** is a method of inquiry in artificial intelligence (AI) for determining whether a computer is capable of thinking like a human being.
- The ability of a machine to remain indistinguishable for a conversation.
- First “Serious” proposal in the philosophy of artificial intelligence





# Logic Theorist

- Created in 1955 by Allen Newell and Herbert A. Simon
- The First AI program
- Program engineered to perform automated reasoning
- Proved 38 of first 52 theorems in “Principia Mathematica”

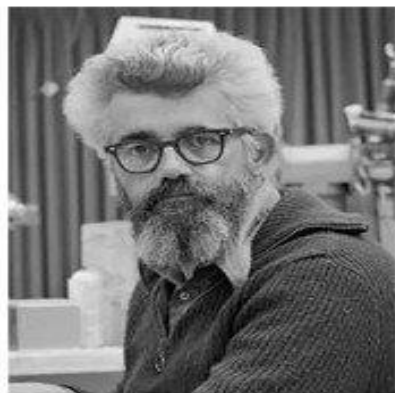
# Dartmouth Conference (1956)

- “Every aspect of learning or any other feature of intelligence can be so precisely described that a machine can be made to stimulate it”
- Birth of AI
- Logic theorist was presented to the public
- Name “Artificial Intelligence” was adopted





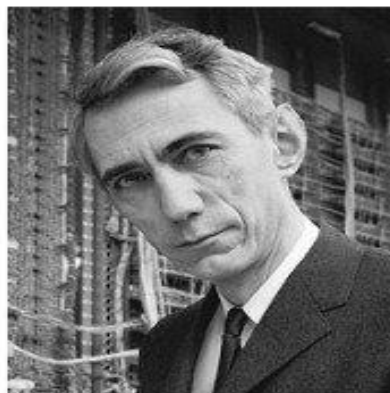
# 1956 Dartmouth Conference: The Founding Fathers of AI



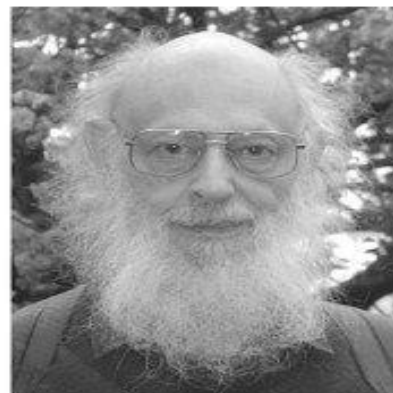
**John MacCarthy**



**Marvin Minsky**



**Claude Shannon**



**Ray Solomonoff**



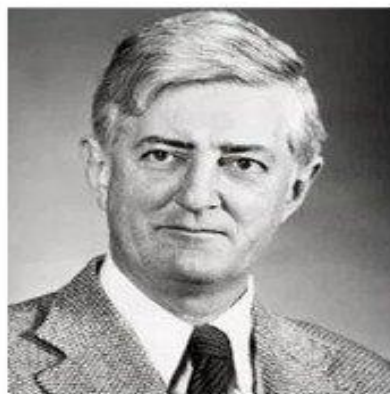
**Alan Newell**



**Herbert Simon**



**Arthur Samuel**



**Oliver Selfridge**

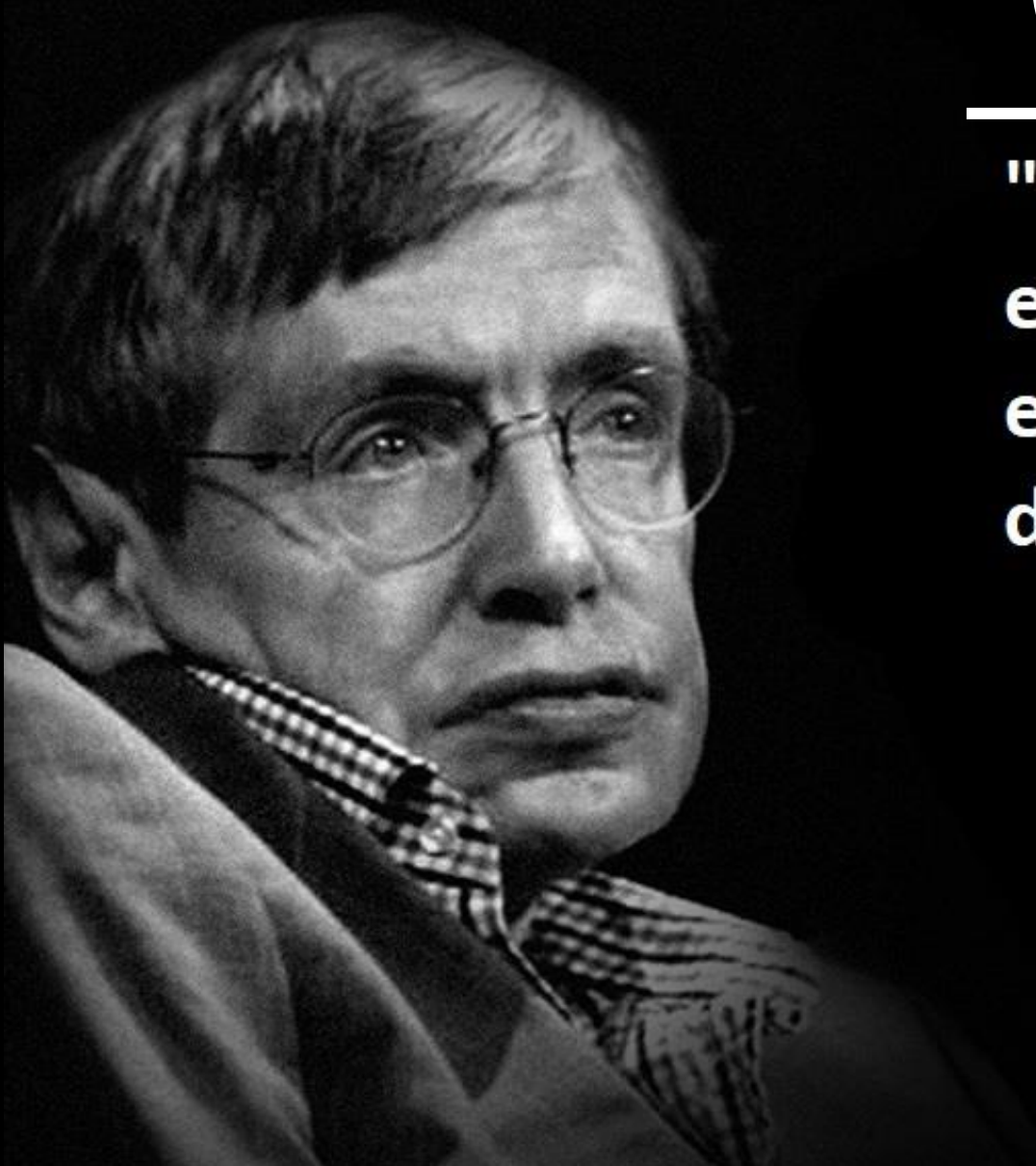


**Nathaniel Rochester**



**Trenchard More**





# Conclusion

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**"The rise of powerful AI will be either the best or the worst thing ever to happen to humanity. We do not know which."**

**- Stephen Hawking**

# References

- Buchanan Bruce G. (2005) A brief history of artificial intelligence
- Ferris Jabr (2012) Know Your Neurons: The Discovery and Naming of the Neuron
- Seth Lloyd (2019) **What Would the Father of Cybernetics Think About A.I. Today?**
- Graham P. Collins (2002) Claude E. Shannon: Founder of Information Theory
- Alexander S. Gillis (2019) Turing Test
- History Computer, Logic Theorist – Complete History of the Logic Theorist Program
- Dartmouth.edu (<https://250.dartmouth.edu/highlights/artificial-intelligence-ai-coined-dartmouth>)

**Thank you.  
Any Questions?**

