



Kampus
Merdeka
INDONESIA JAYA

ITATS
INSTITUT
TEKNOLOGI
ADHI TAMA
SURABAYA



UNIVERSITAS
MUHAMMADIYAH
SIDOARJO

History of AI

Dosen Pengampu:

Mata Kuliah :

Pertemuan ke :

History of AI

Capaian Pembelajaran

Mahasiswa mengetahui sejarah serta perkembangan AI

Capaian pembelajaran pada minggu ke-2 ini adalah mahasiswa mengetahui sejarah dan perkembangan AI.

Untuk mencapai capaian tersebut, materi ini akan dimulai dengan perkembangan teknologi terlebih dahulu, kemudian baru sejarah dan perkembangan AI.

Point of Views

- History of Technology
- History of AI
 - Before general computer birth
 - Knowledge by expert
 - Knowledge by data

History of Technology





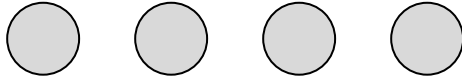




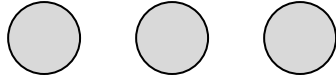


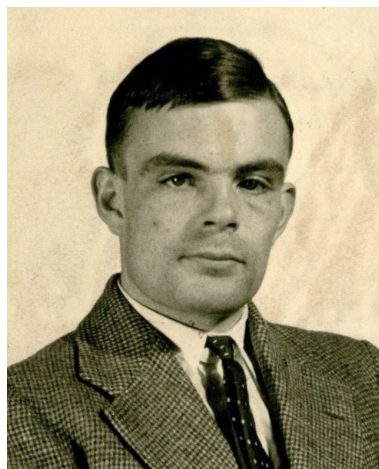
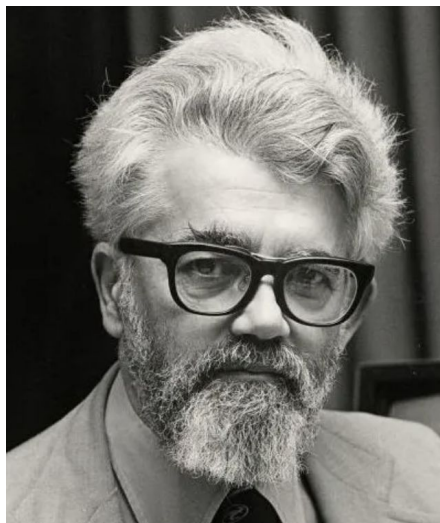
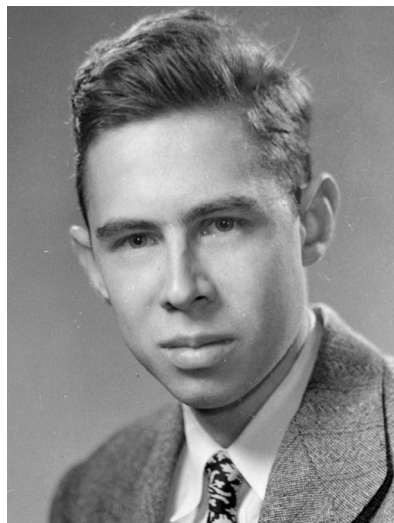
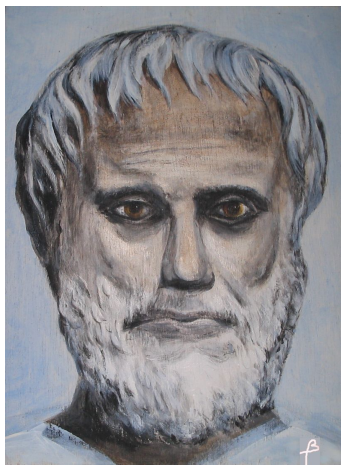


History of AI



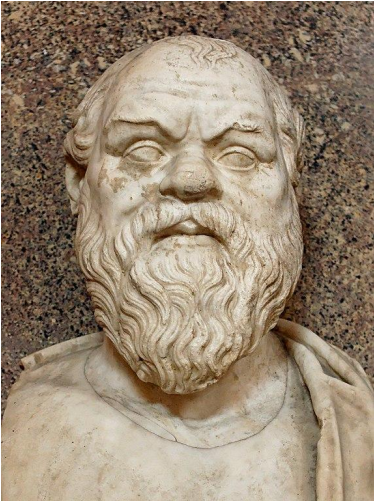
Logic Algorithm General
Computer



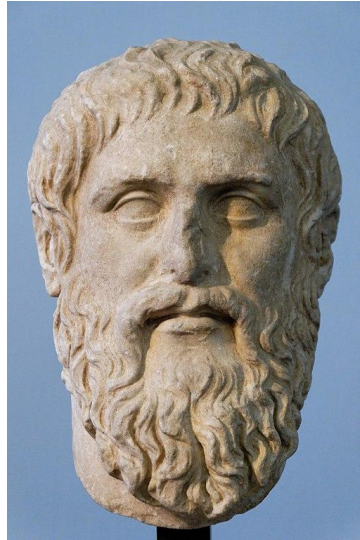


Ancient Greek Philosophy

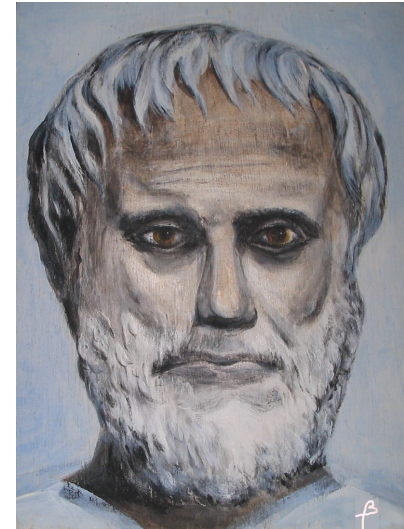
Socrates



Plato



Aristotles





LOGIC



1. Penalaran Deduktif:

Premis 1: Semua manusia adalah fana.

Premis 2: Socrates adalah manusia.

Kesimpulan: Socrates adalah fana.

2. Silogisme Kategoris:

Premis 1: Semua burung memiliki bulu.

Premis 2: Penguin tidak memiliki bulu.

Kesimpulan: Penguin bukan burung.

3. Silogisme Hipotesis:

Premis 1: Jika hari hujan, maka jalan akan basah.

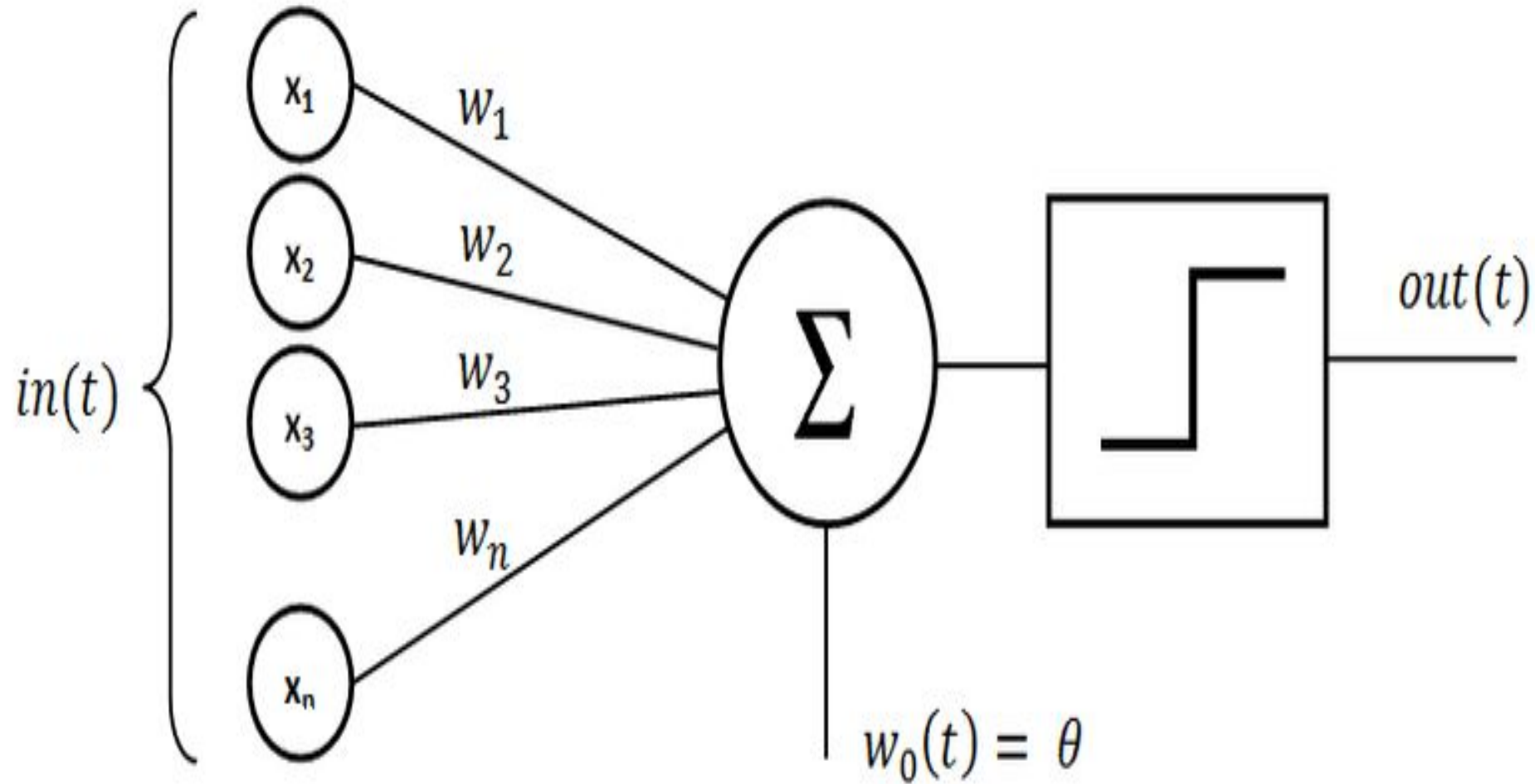
Premis 2: Jalan basah.

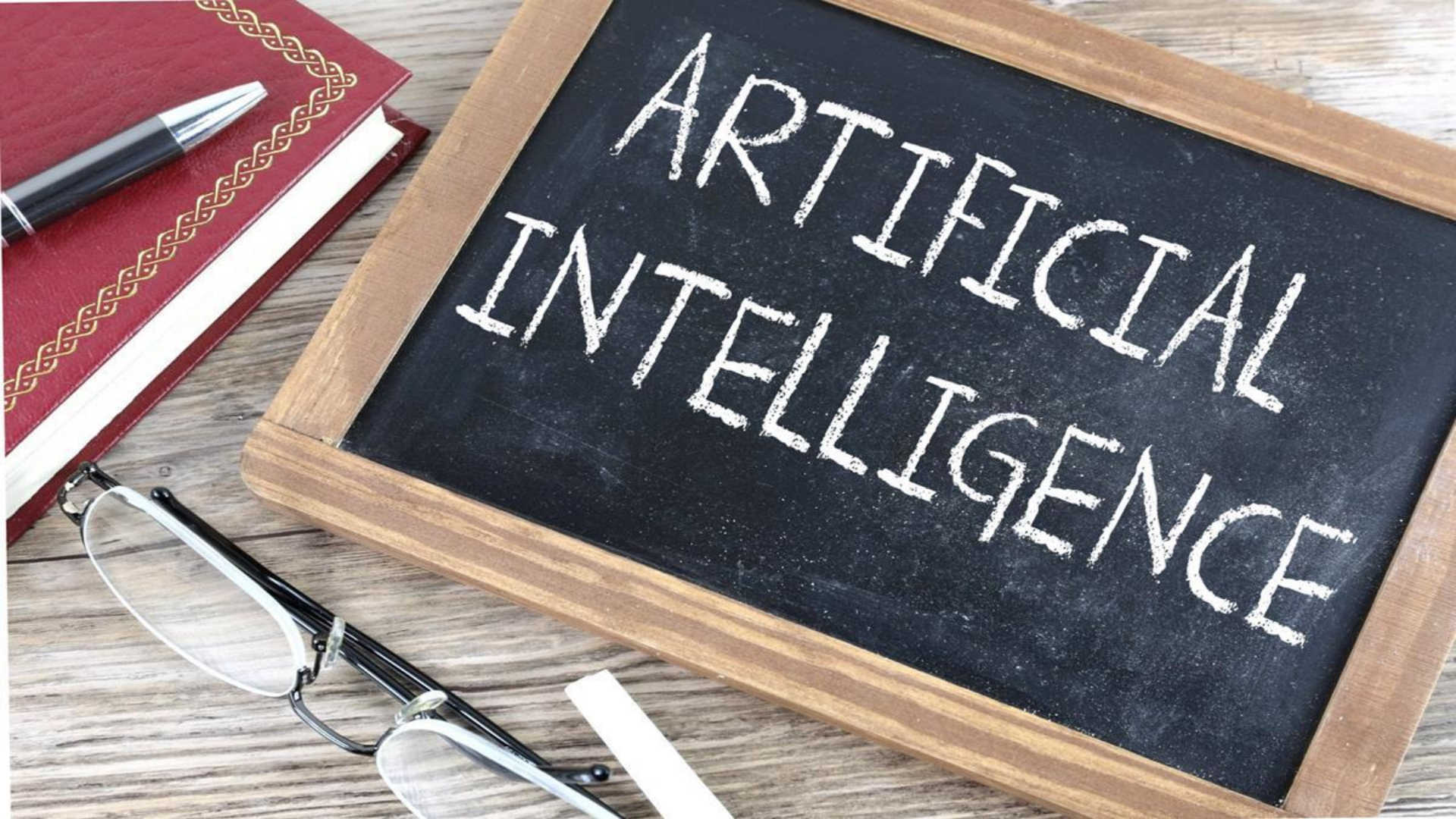
Kesimpulan: Hari hujan.



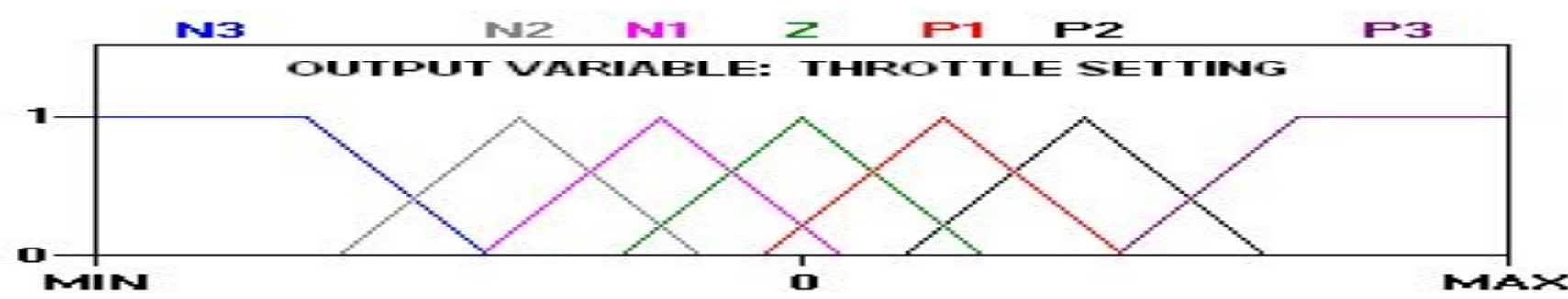
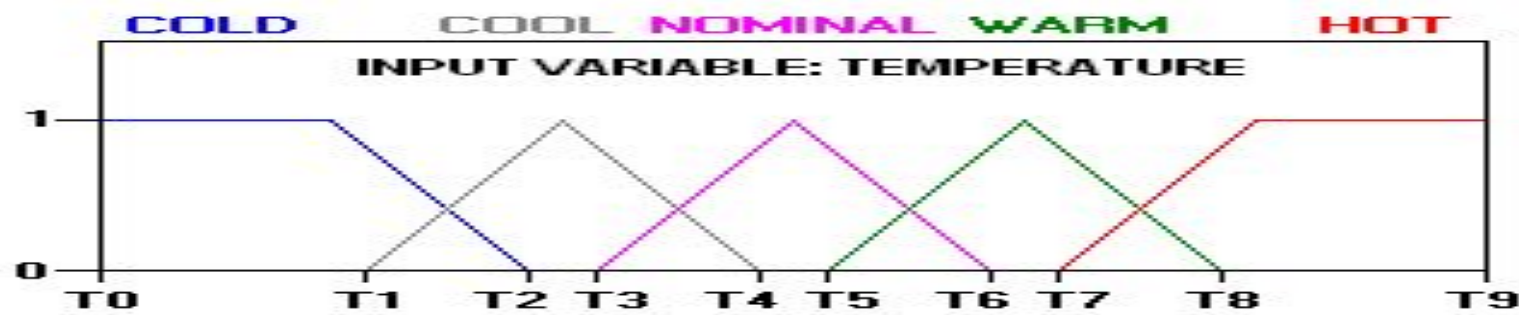
ALGORITHM







ARTIFICIAL
INTELLIGENCE



Deep Neural Network

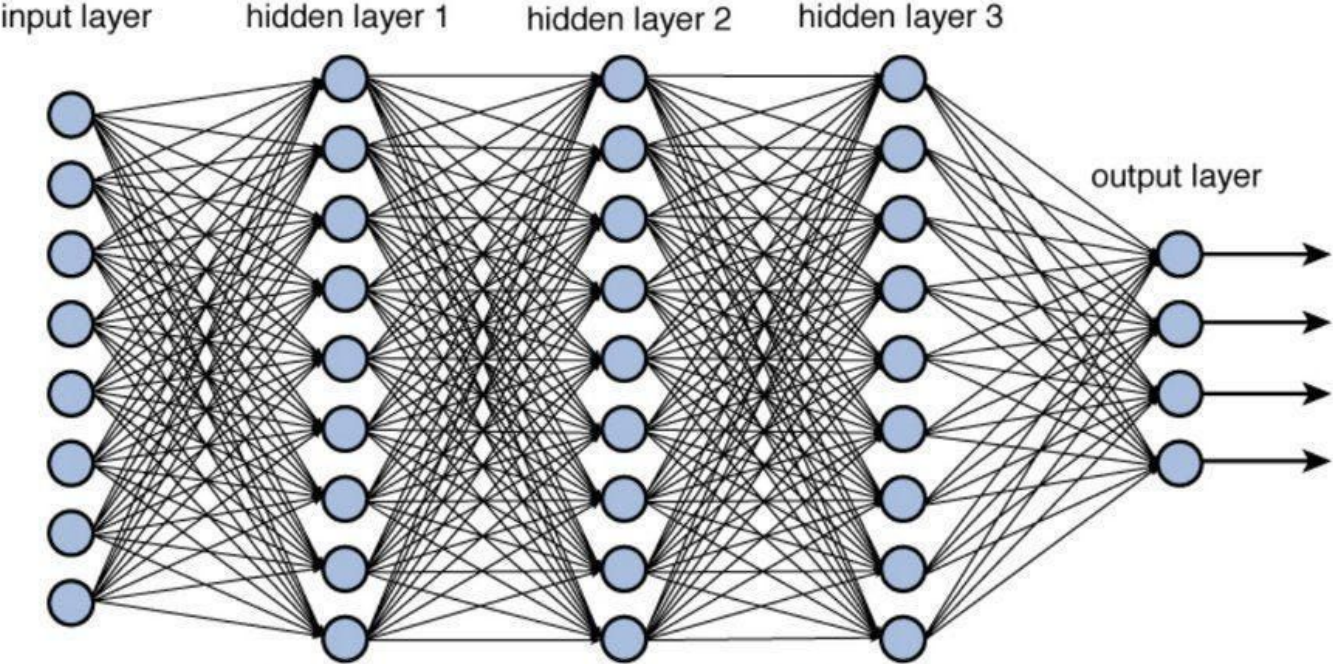
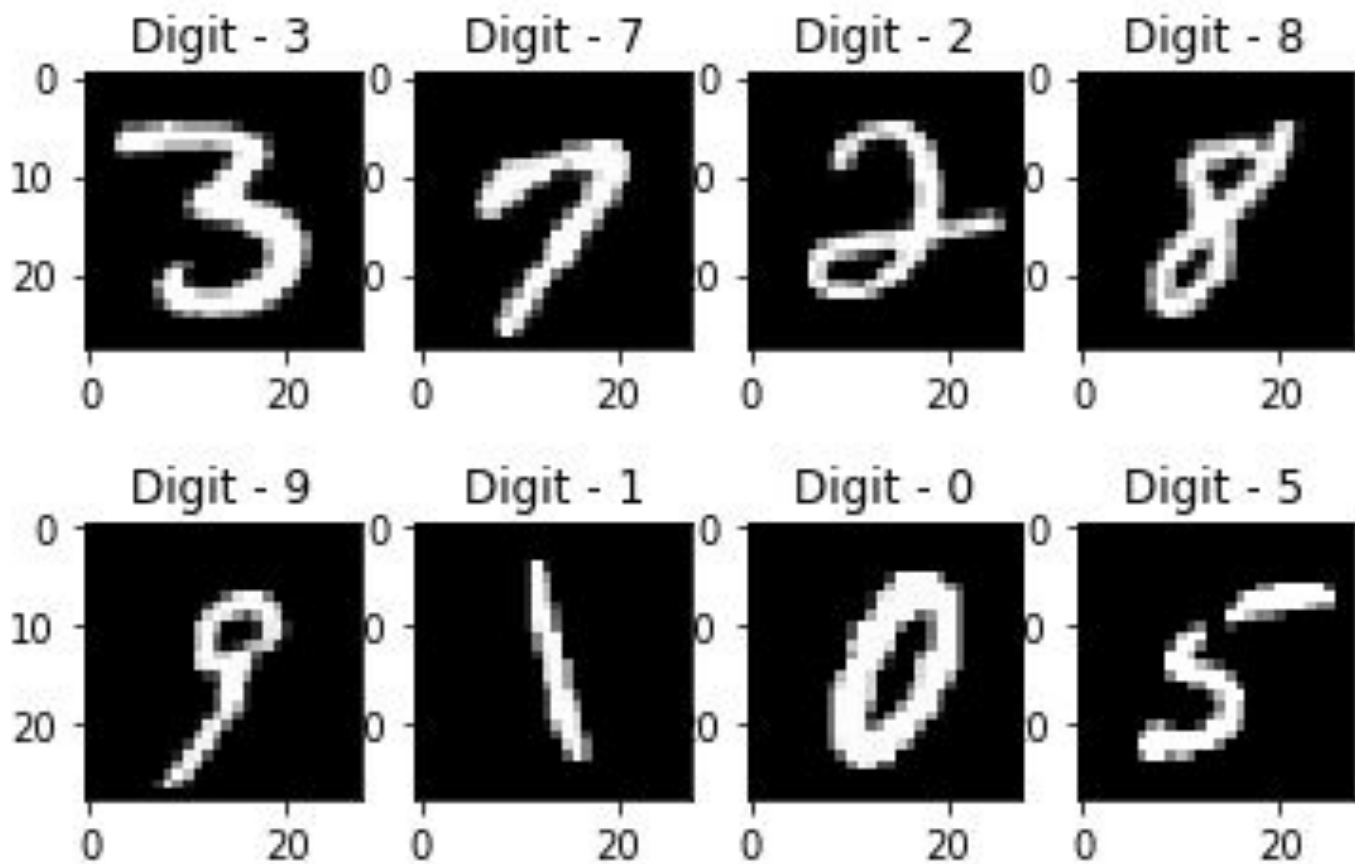
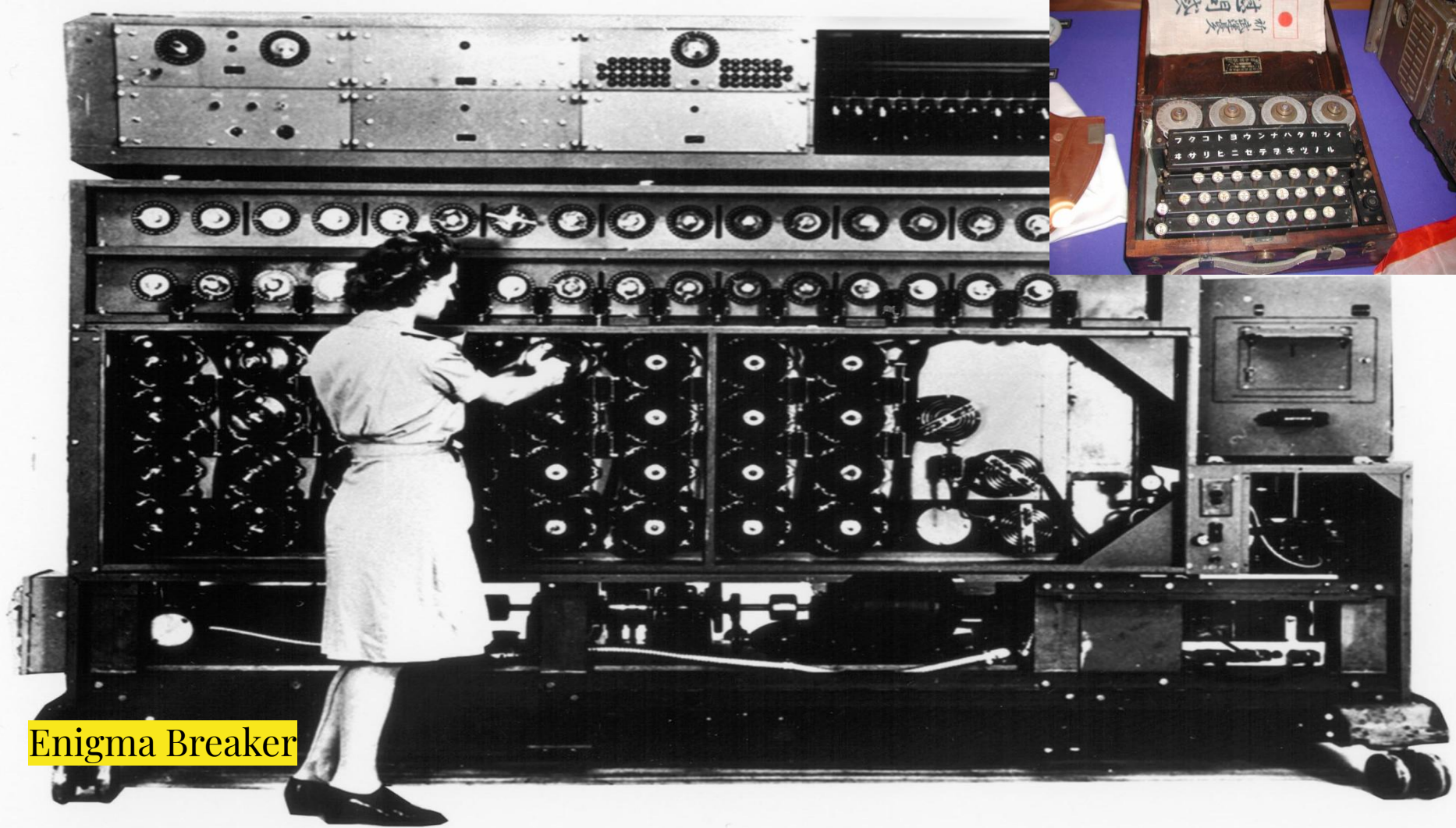


Figure 12.2 Deep network architecture with multiple layers.

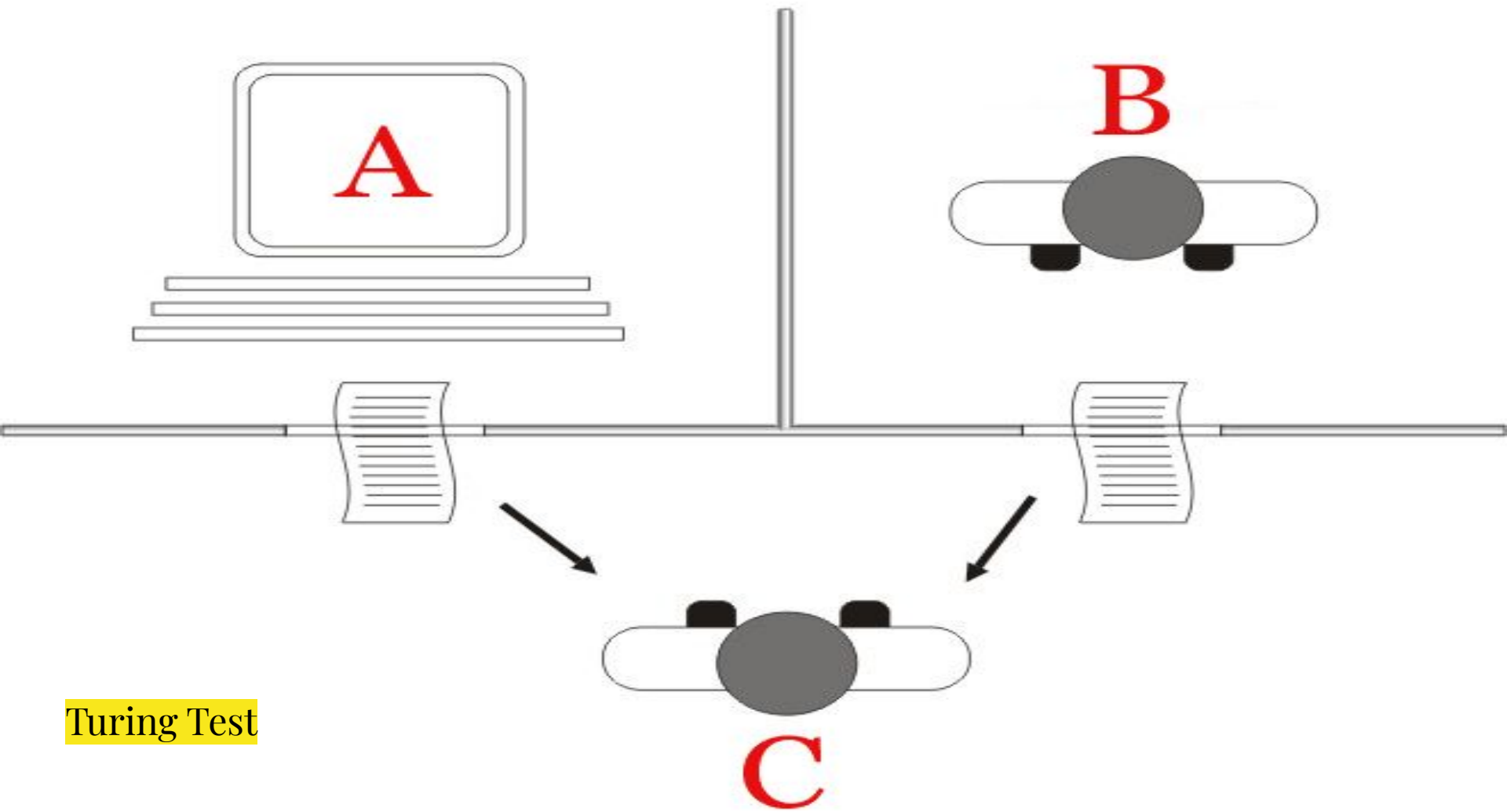




The Birth of General Computer (1940)

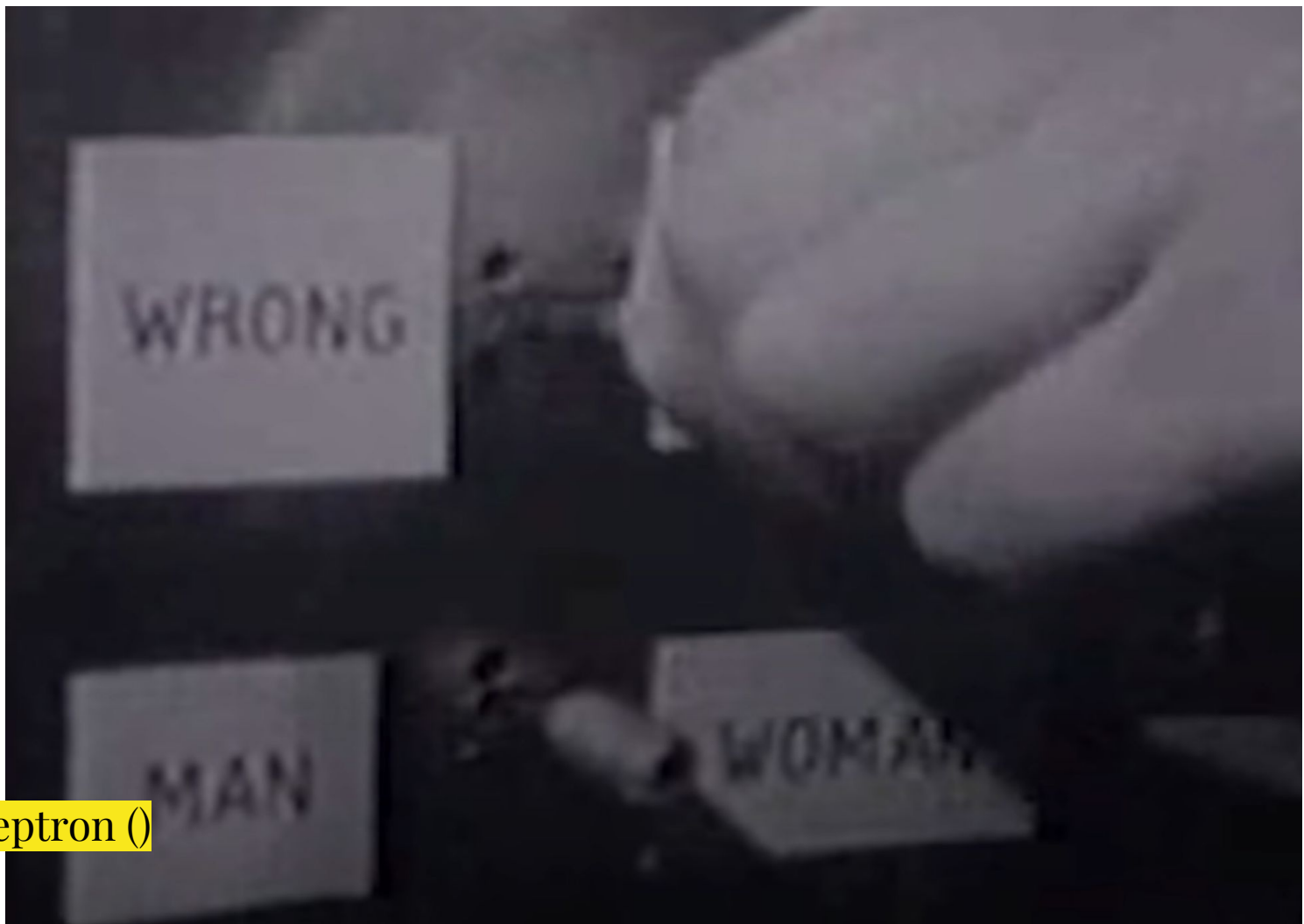


Enigma Breaker



Turing Test

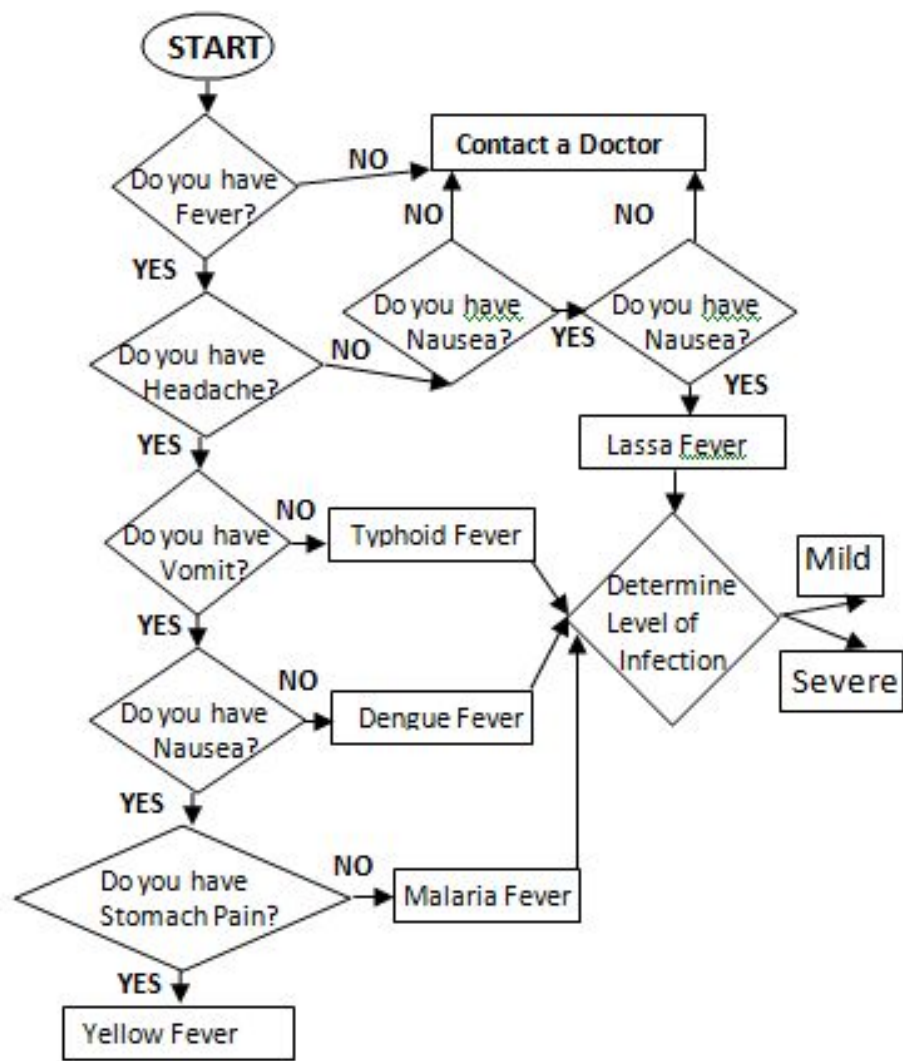
First Neural Set (1957)



Perceptron ()

Knowledge Based System

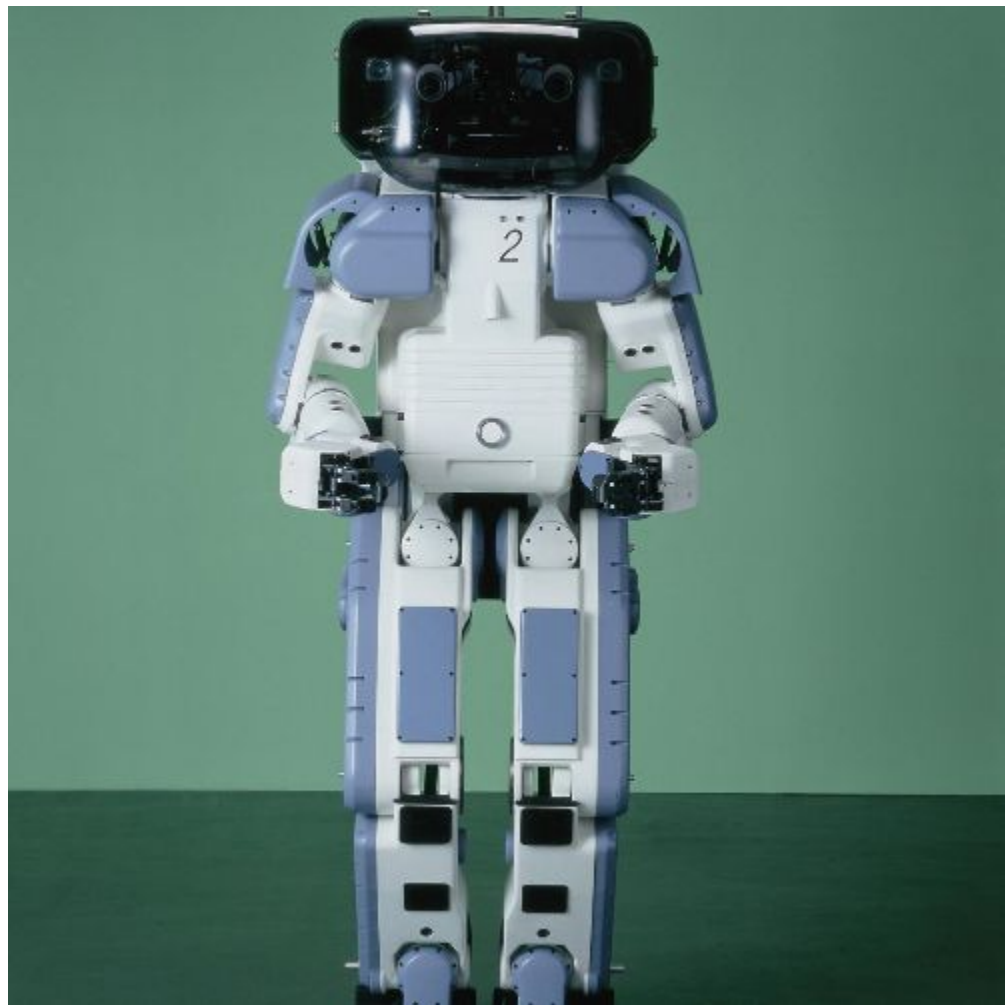
(1969 - 1979)





First AI Robot (1960's)





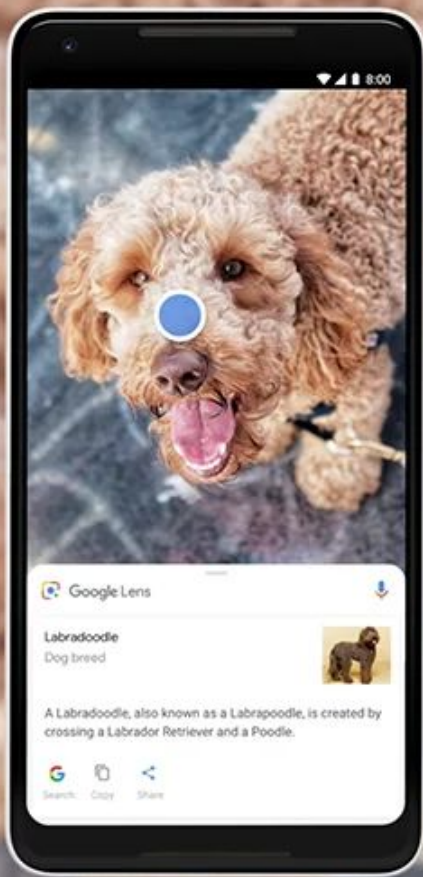
Deep Learning

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9

Late 90's ()



2010 (pengenalan wajah, bentuk, melihat, ingatan)



2017

Man VS Machine

Deep Blue (1997)



NETFLIX

ALPHAGO



2017

2017



DENDI OPEN AI



2019

ChatBot AI

Welcome to

```
EEEEEE LL      IIII  ZZZZZZ  AAAAA  
EE      LL      II     ZZ     AA  AA  
EEEEEE LL      II     ZZZ    AAAAAAA  
EE      LL      II     ZZ     AA  AA  
EEEEEE LLLLLL  IIII  ZZZZZZ  AA  AA
```

Eliza is a mock Rogerian psychotherapist.
The original program was described by Joseph Weizenbaum in 1966.
This implementation by Norbert Landsteiner 2005.

```
ELIZA: Is something troubling you ?  
YOU:   Men are all alike.  
ELIZA: What is the connection, do you suppose ?  
YOU:   They're always bugging us about something or other.  
ELIZA: Can you think of a specific example ?  
YOU:   Well, my boyfriend made me come here.  
ELIZA: Is it important to you that your boyfriend made you come here ?  
YOU:   He says I'm depressed much of the time.  
ELIZA: I am sorry to hear that you are depressed.  
YOU:   It's true. I am unhappy.  
ELIZA: Can you explain what made you unhappy ?  
YOU:
```



ChatGPT

2018 (chat GBT 1)

Search Engine (1997)



Google

A large, rounded rectangular search input field. On the left side, there is a magnifying glass icon. On the right side, there is a microphone icon, indicating voice search functionality.

Google Search

I'm Feeling Lucky

Autonomous Vehicle (Car)



1920



2014 (Tesla)