

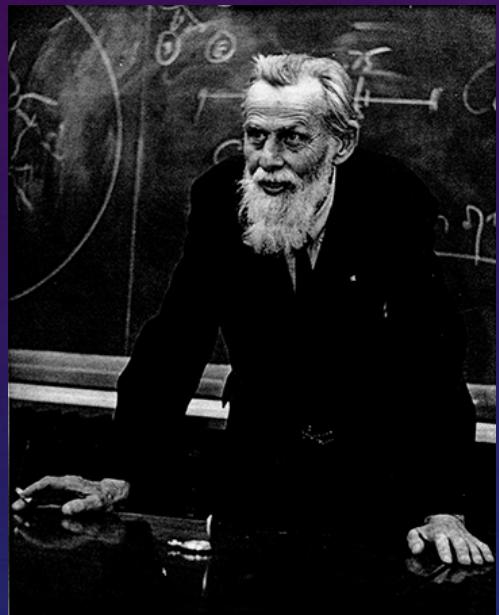
# AI HISTORY



# 1943 FIRST ARTIFICIAL NEURON

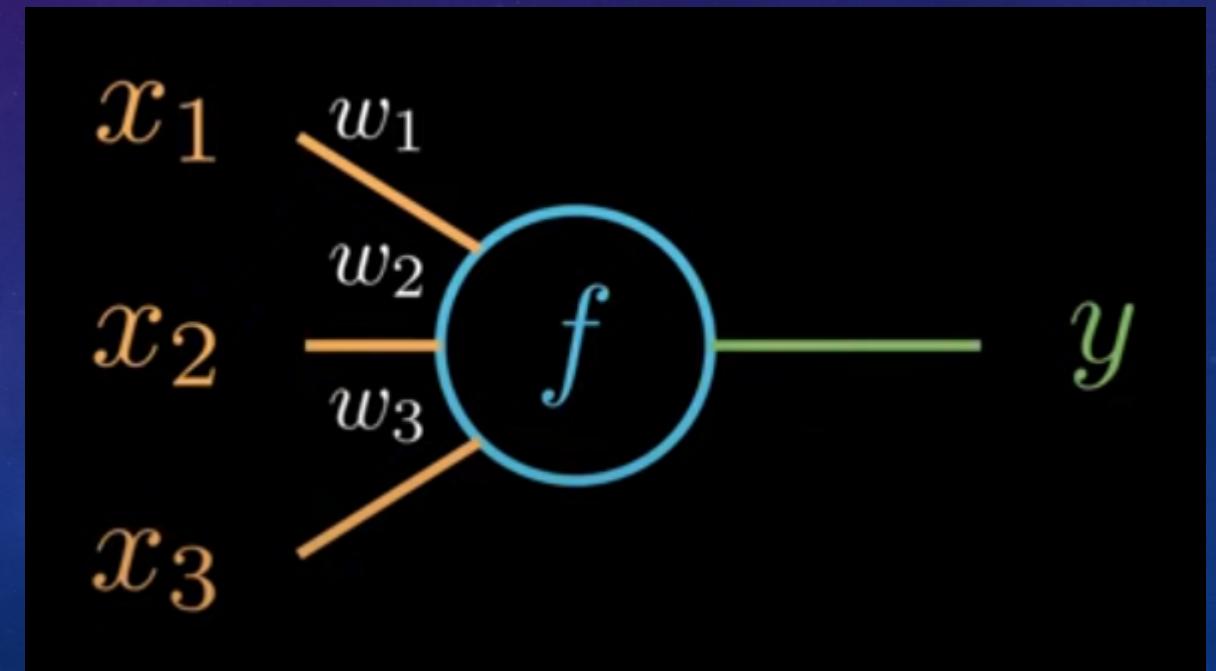
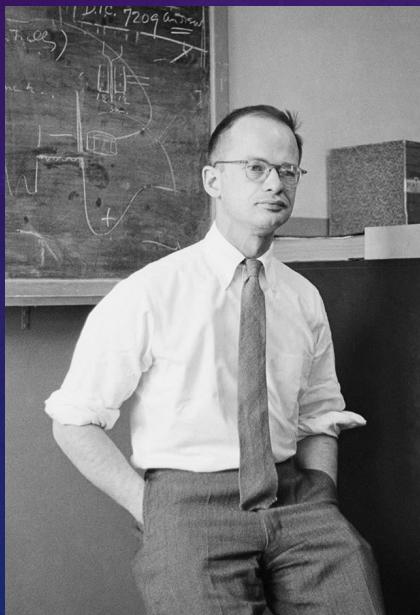
**Warren McCulloch**

(Neurologiste) :



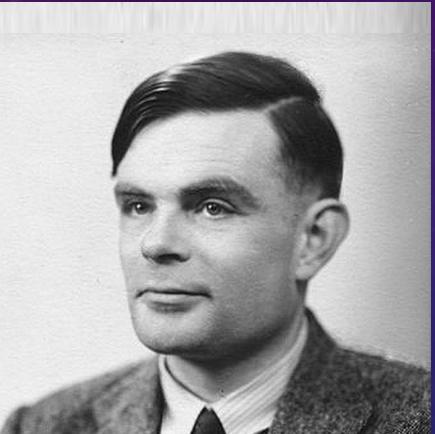
**Walter Pitts**

(Psychologist) :



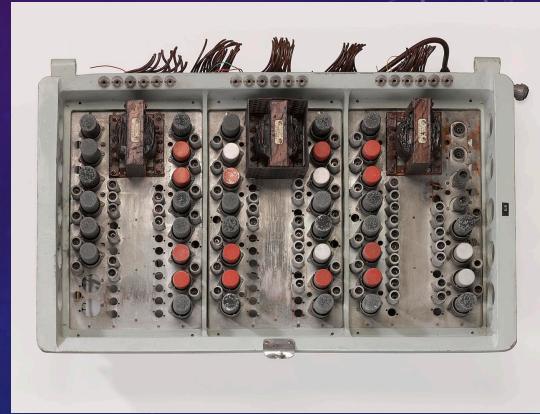
# EARLY 1950

**ALAN  
TURING :**



- “If a machine can engage in a conversation with a human without being detected as a machine, it has demonstrated human intelligence”

CHECKER :



Chess :



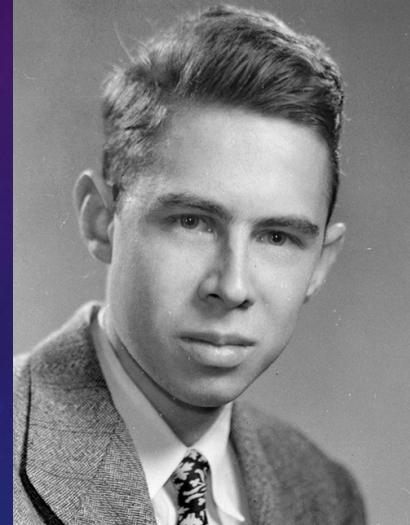
# 1956 DARTMOUTH CONFERENCE

Marvin Minsky & John McCarthy



# 1957 PERCEPTRON

FRANK  
ROSENBLATT :



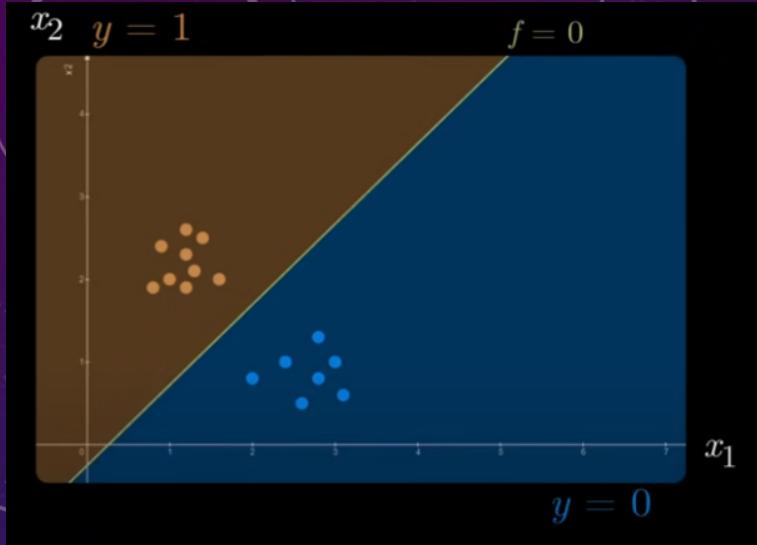
Perceptron & his  
learning algorithm



“EACH CHARACTERISTIC OF INTELLIGENCE CAN BE DESCRIBED  
SUFFICIENTLY SO THAT A MACHINE CAN SIMULATE IT”

# 1970 AI WINTER

## PERCEPTRON : LINEAR MODEL



CAN'T  
CONCEPTUALIZE ALL  
OF THE PROBLEMS

almost no  
progress

not stonks

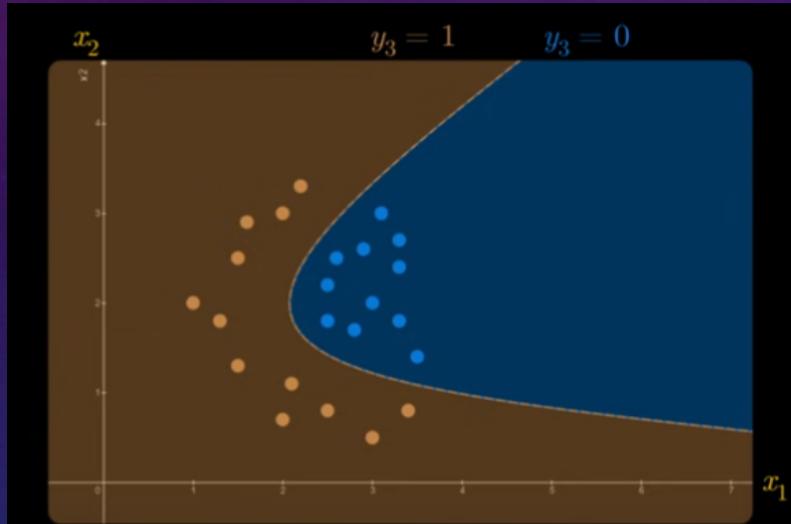


# 1986 MULTILAYER PERCEPTRON

GEOFFREY



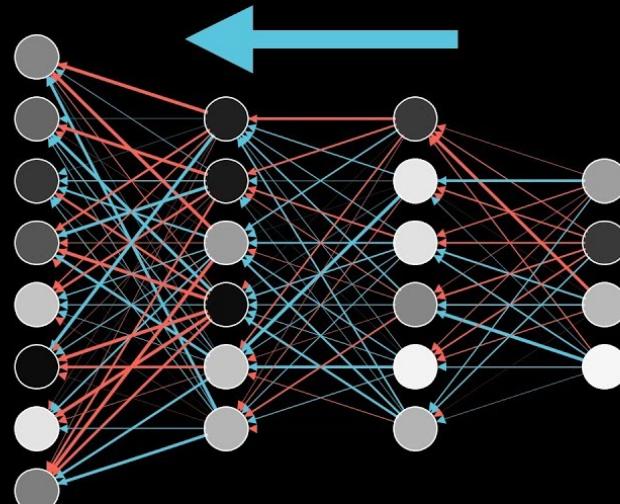
NONLINEAR



WHAT BACKPROPAGATION  
IS ?

BASED ON :

Backpropagation



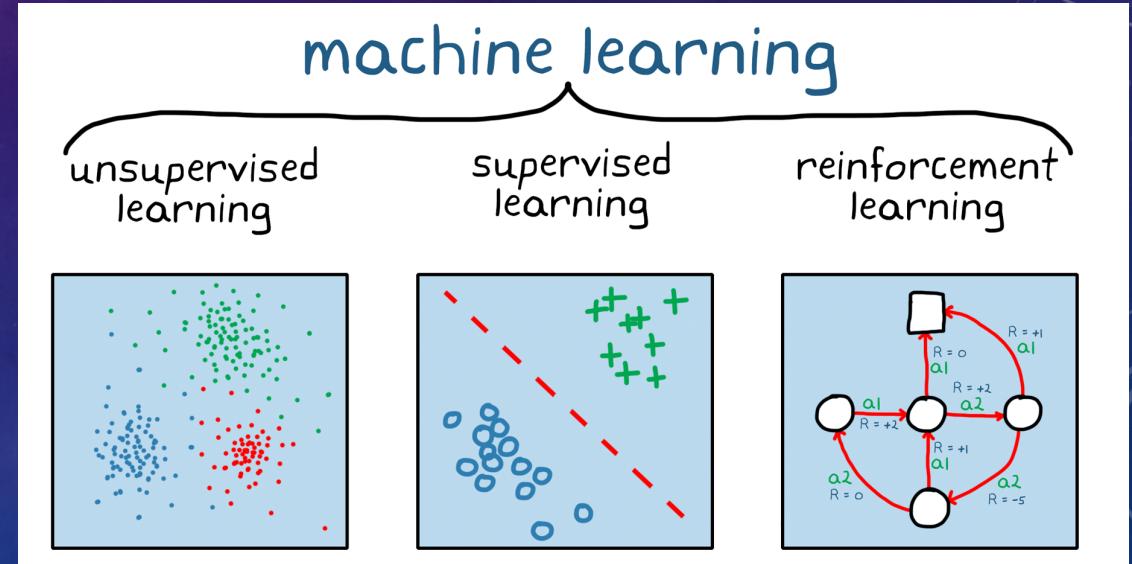
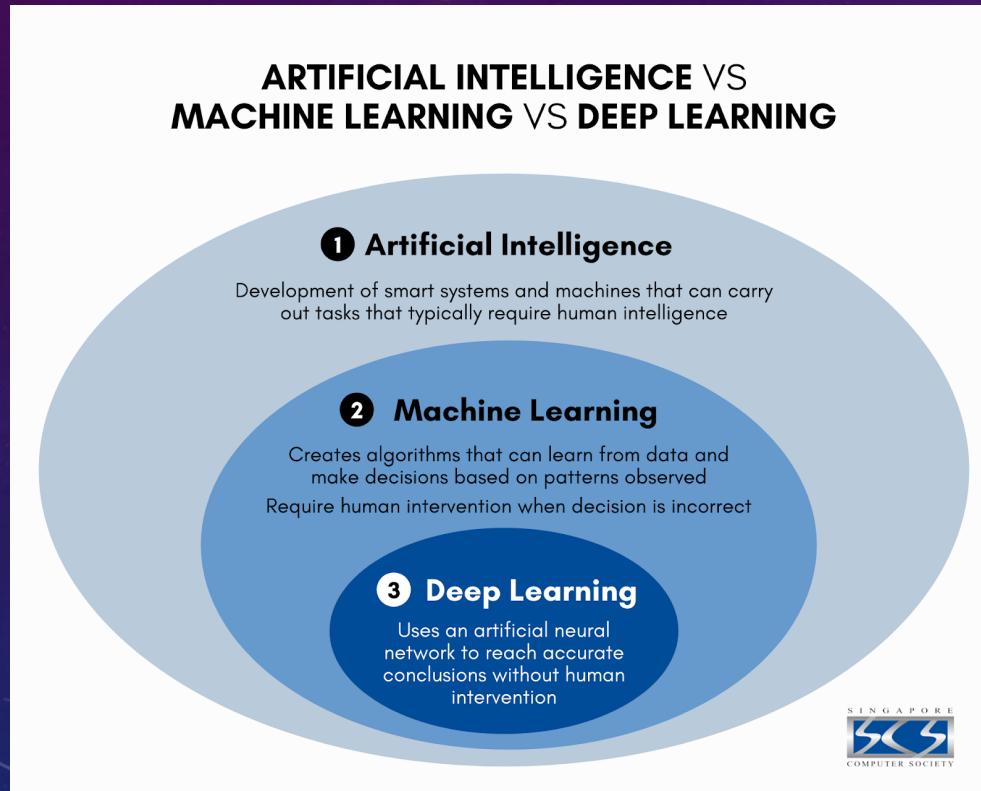
# 1987 - 2000 SECOND WINTER OF AI

SOMETHING WAS MISSING  
TO UNLOCK THE FULL  
POTENTIAL OF AI

1997 Deep Blue beat  
Kasparov



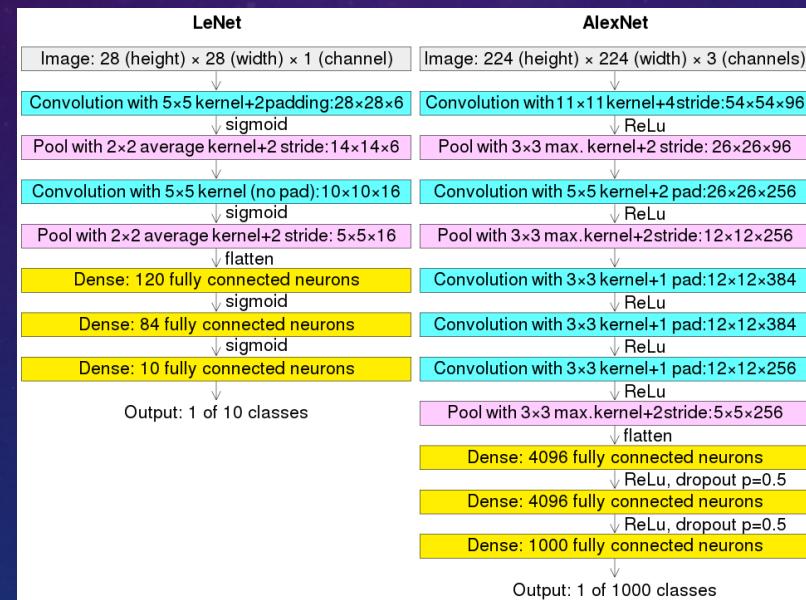
# 2006: THE RESURGENCE OF INTEREST IN DEEP NEURAL NETWORKS



# 2012: ALEXNET WINS THE IMAGENET COMPETITION



CNN Yann LeCun in 1998



Comparison of the LeNet and AlexNet

## ImageNet Classification with Deep Convolutional Neural Networks

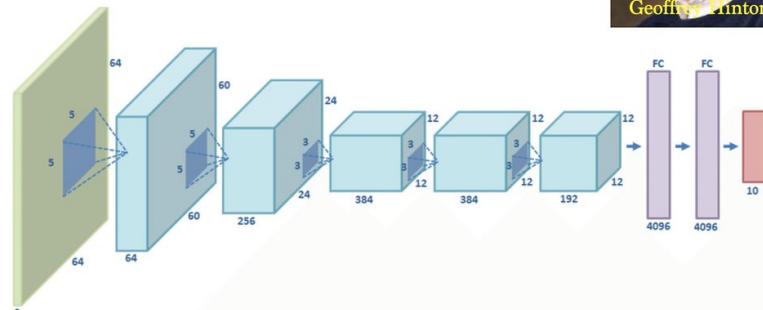
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### Abstract

We trained a large, deep convolutional neural network to classify the 1.2 million high-resolution images in the ImageNet LSVRC-2010 contest into the 1000 different classes. On the test data, we achieved top-1 and top-5 error rates of 37.5% and 17.0% which is considerably better than the previous state-of-the-art. The neural network, which has 60 million parameters and 650,000 neurons, consists of five convolutional layers, some of which are followed by max-pooling layers, and three fully-connected layers with a final 1000-way softmax. To make training faster, we used non-saturating neurons and a very efficient GPU implementation of the convolution operation. To reduce overfitting in the fully-connected layers we employed a recently-developed regularization method called “dropout” that proved to be very effective. We also entered a variant of this model in the ILSVRC-2012 competition and achieved a winning top-5 test error rate of 15.3%, compared to 26.2% achieved by the second-best entry.



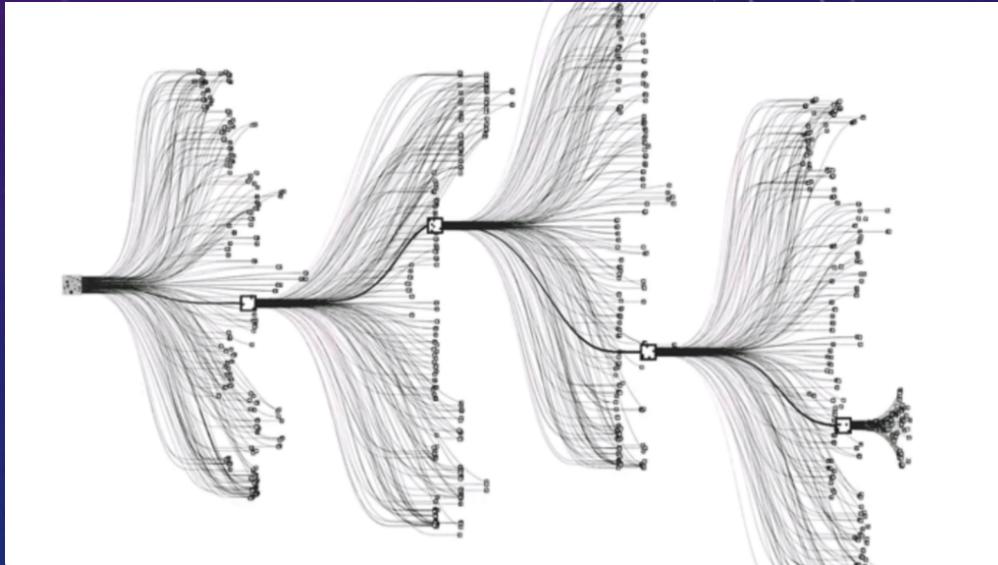
Geoffrey Hinton

# 2016: DEEPMIND'S ALPHAGO



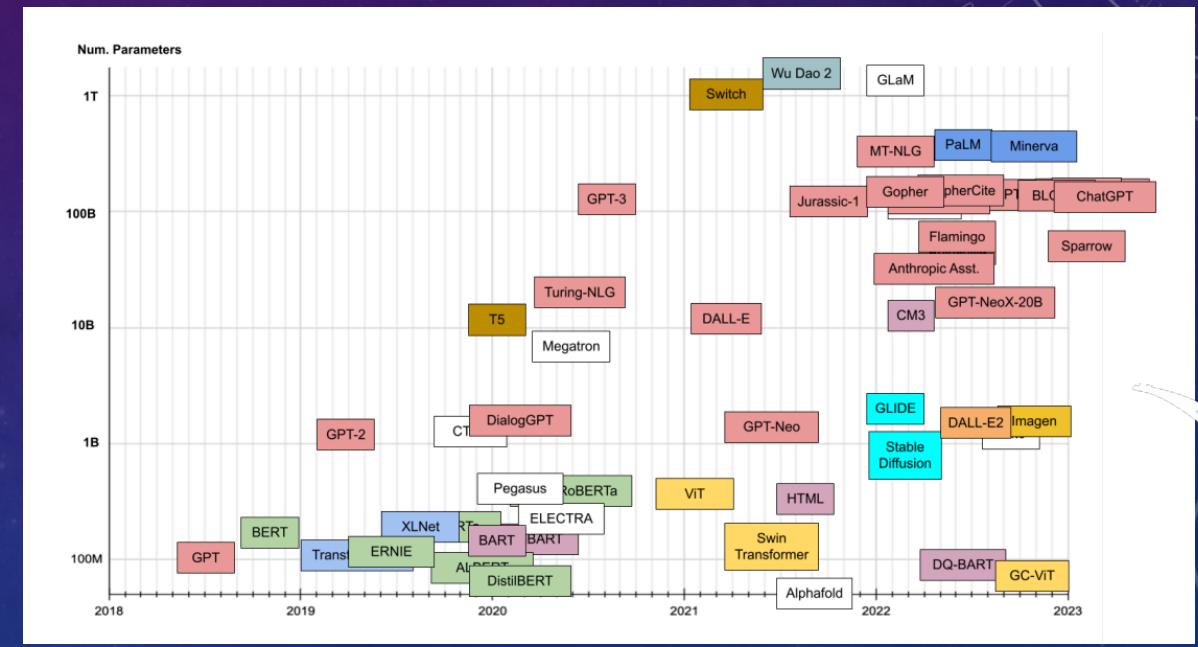
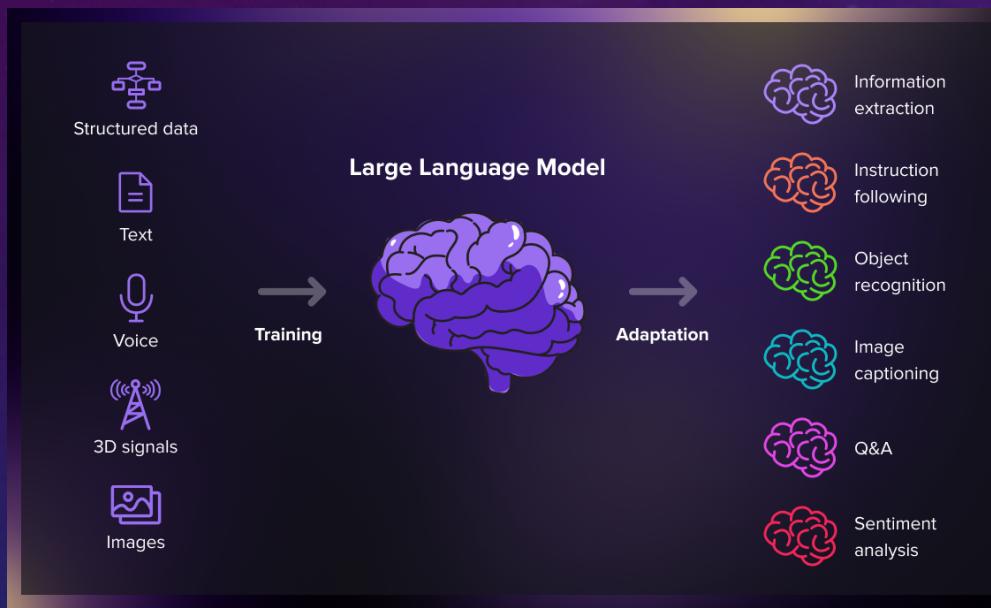
alphago vs lee sedol

LOOSER



A small part of all the possibilities

# 2020: GPT-3 (GENERATIVE PRE-TRAINED TRANSFORMER 3)

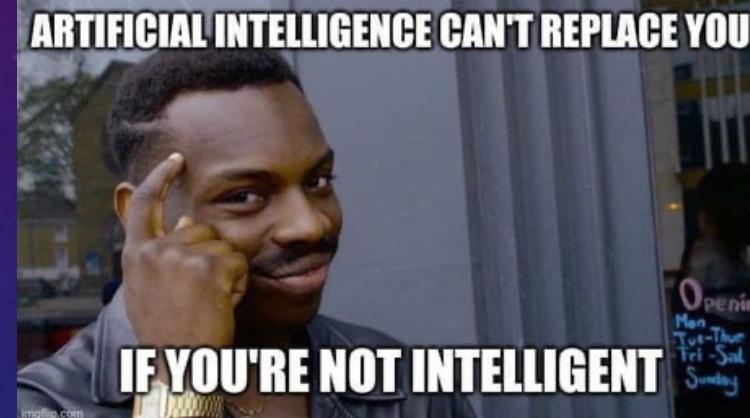


# CONCLUSION



ARTIFICIAL INTELLIGENCE CAN'T REPLACE YOU

IF YOU'RE NOT INTELLIGENT



# DO YOU HAVE ANY QUESTIONS TO ASK?

