

Introduction to Machine Learning

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Work Experience

Khon Kaen Maker Club, Khon Kaen

President & Head Advisor

October, 2016 - Present

- ✓ Internet of Things Research and Development
- ✓ Embedded System Development
- ✓ Smart Farm and Smart Home Development
- ✓ IoT Advisor
- ✓ Certified NETPIE Trainer (NECTEC)

Department of Computer Science, KKU, Thailand

Machine Learning & Soft-Computing Researcher, Apply Network Technology Lab

September 2014 - Present

- ✓ ECG Classification using Soft-Computing
- ✓ Parallel Machine Learning research
- ✓ Wireless and Network research

Department of Computer Science, KKU, Thailand

Teaching assistant(Network I, Information and Communication Technology Security, Wireless and Mobile Communication Networks)

June, 2015 – Present

- ✓ Computer Network ;
- ✓ Information and Communication Technology Security ;
- ✓ Wireless and Mobile Communication Networks ;

Key Skills

Experienced or proficient in major of computer science, Internet of Things, Machine learning, Embedded System.

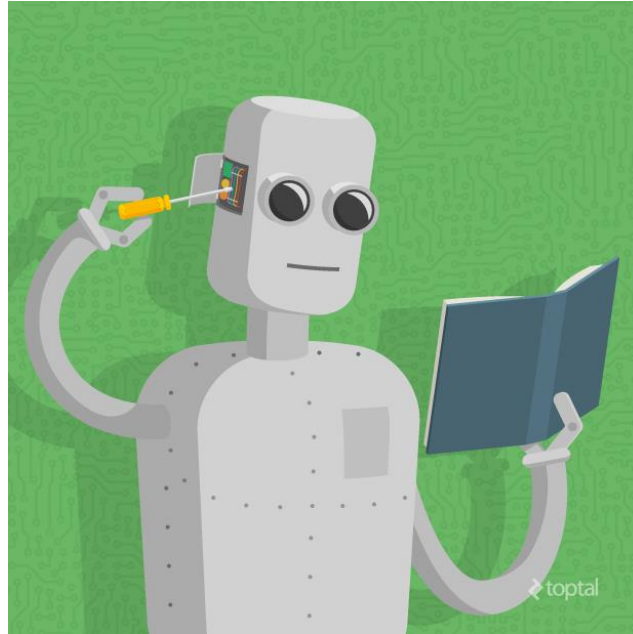
C#, Matlab
JAVA, Python, C, Nodejs

Machine Learning, AI
Chatbot, Big Data

Tensorflow, Caffe
R Lang, Torch 7, CNN

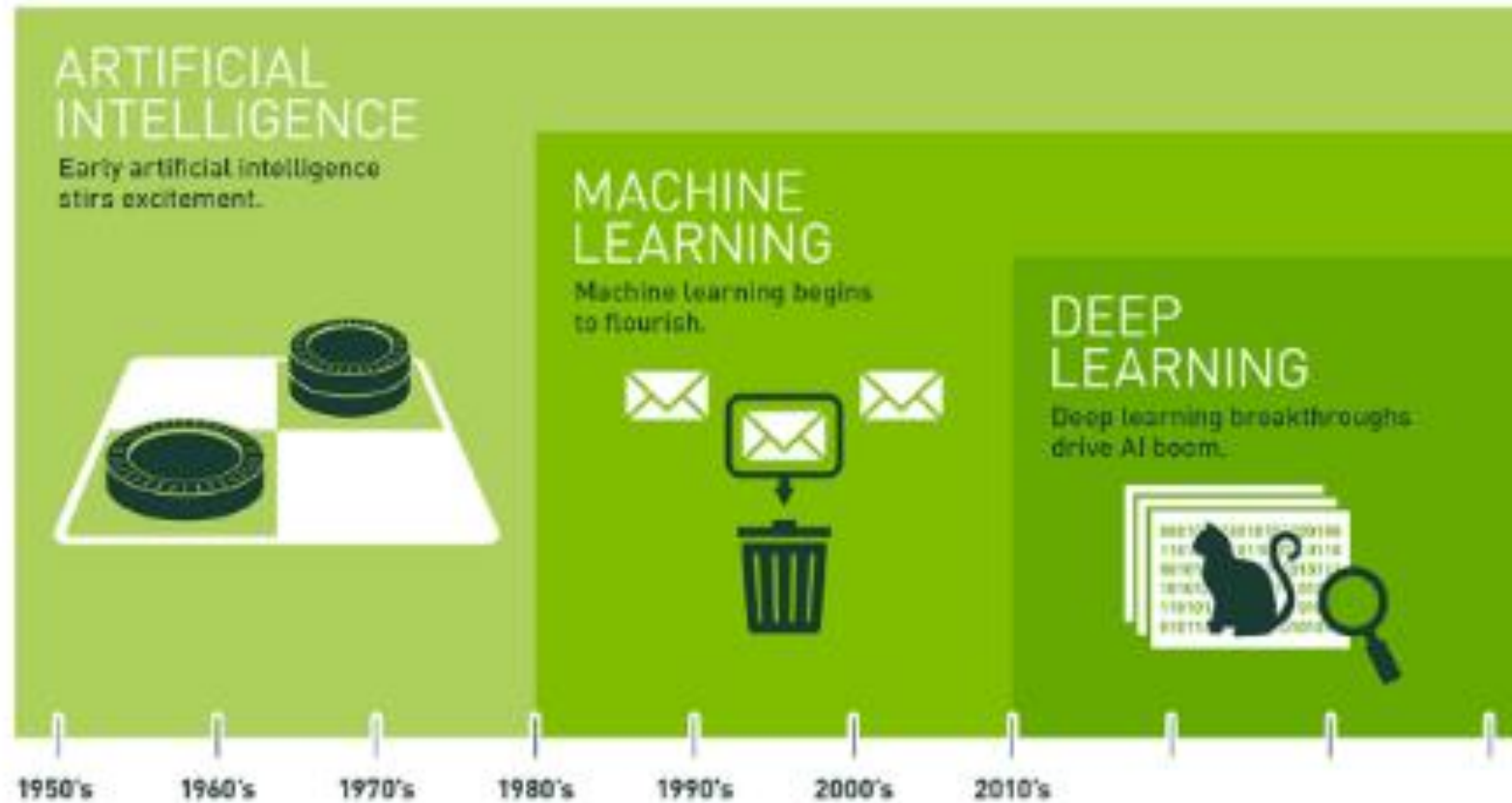
IoT, NodeMCU, Arduino
Raspberry Pi

What's Machine Learning



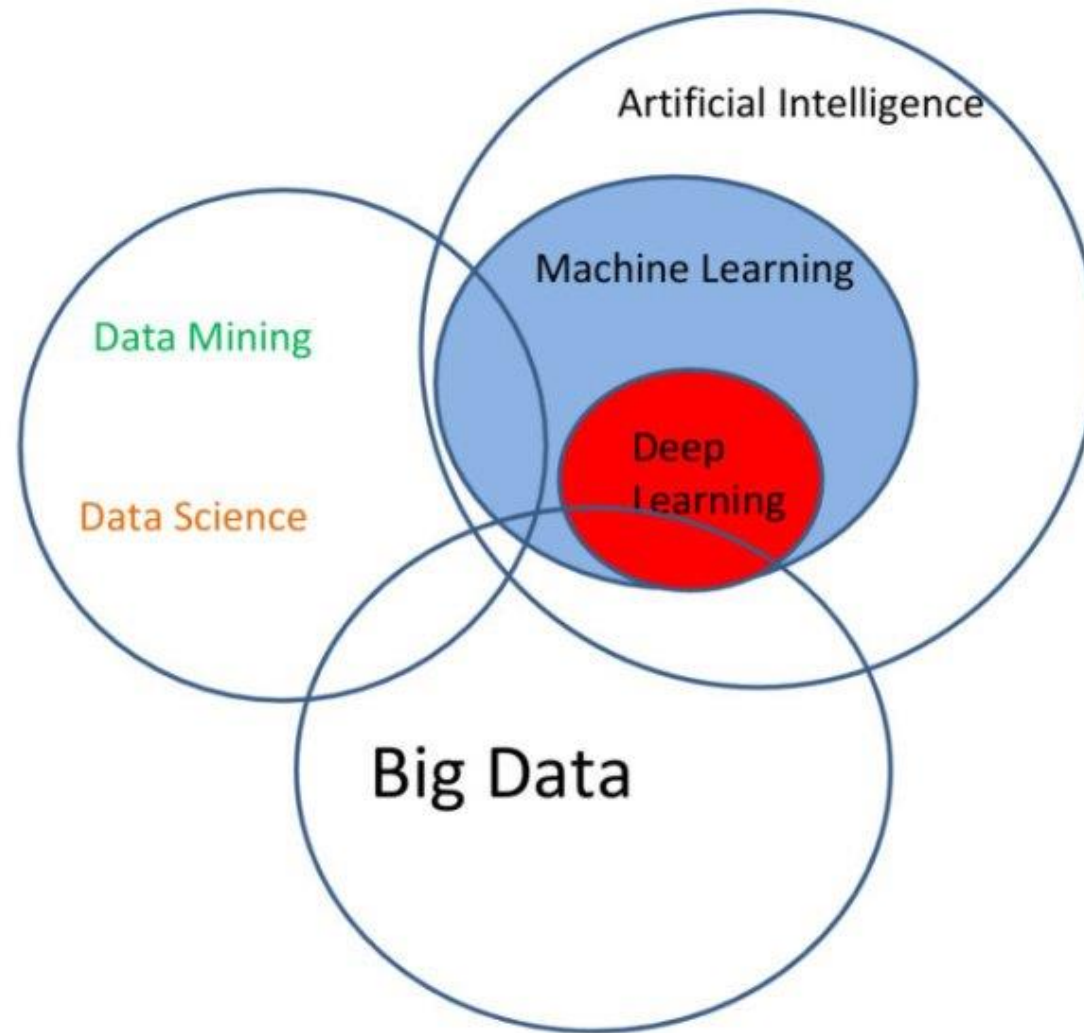
- **Machine Learning** เป็นศาสตร์แขนงหนึ่งที่ทำให้คอมพิวเตอร์มีความสามารถในการเรียนรู้ด้วยตนเอง เมื่อมีข้อมูลเข้าสามารถทำนายหรือตัดสินใจได้โดยปราศจากการทำงานตามลำดับคำสั่งโปรแกรม แปลไทยเป็นไทยอีกรอบก็คือสามารถคิดได้ด้วยตนเองนั่นเอง

History

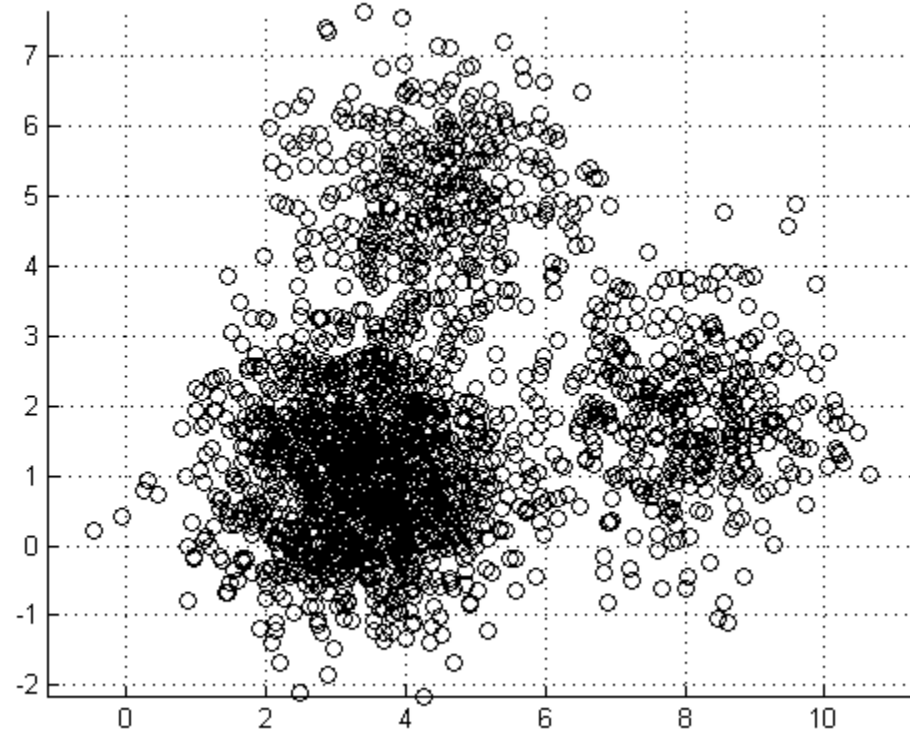


Since an early flush of optimism in the 1950s, smaller subsets of artificial intelligence – first machine learning, then deep learning, a subset of machine learning – have created ever larger disruptions.

Artificial Intelligent / Machine Learning / Big Data

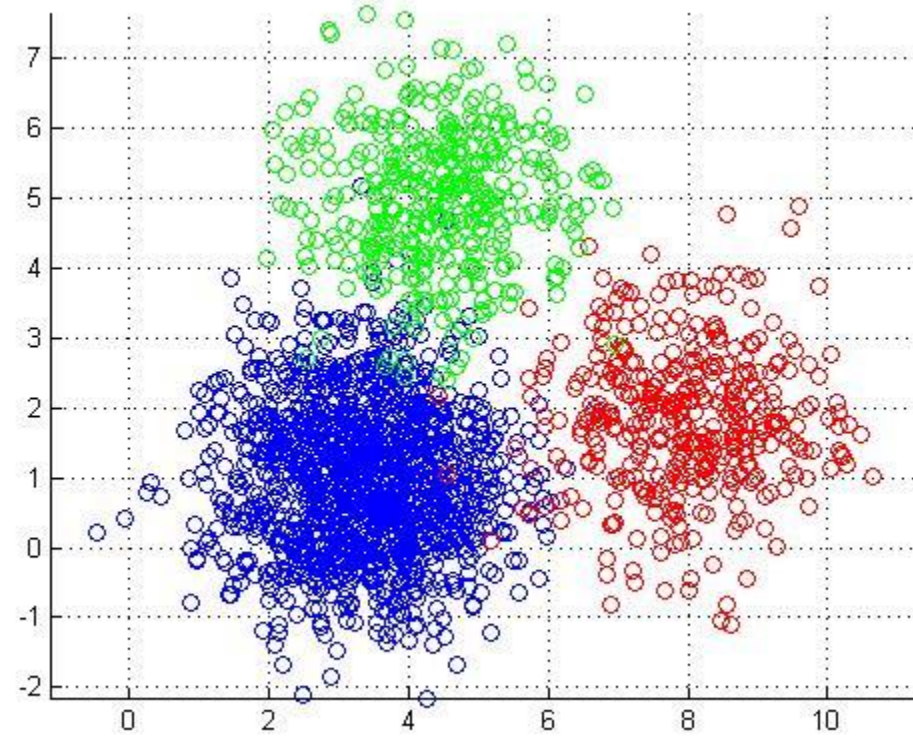


Unsupervised



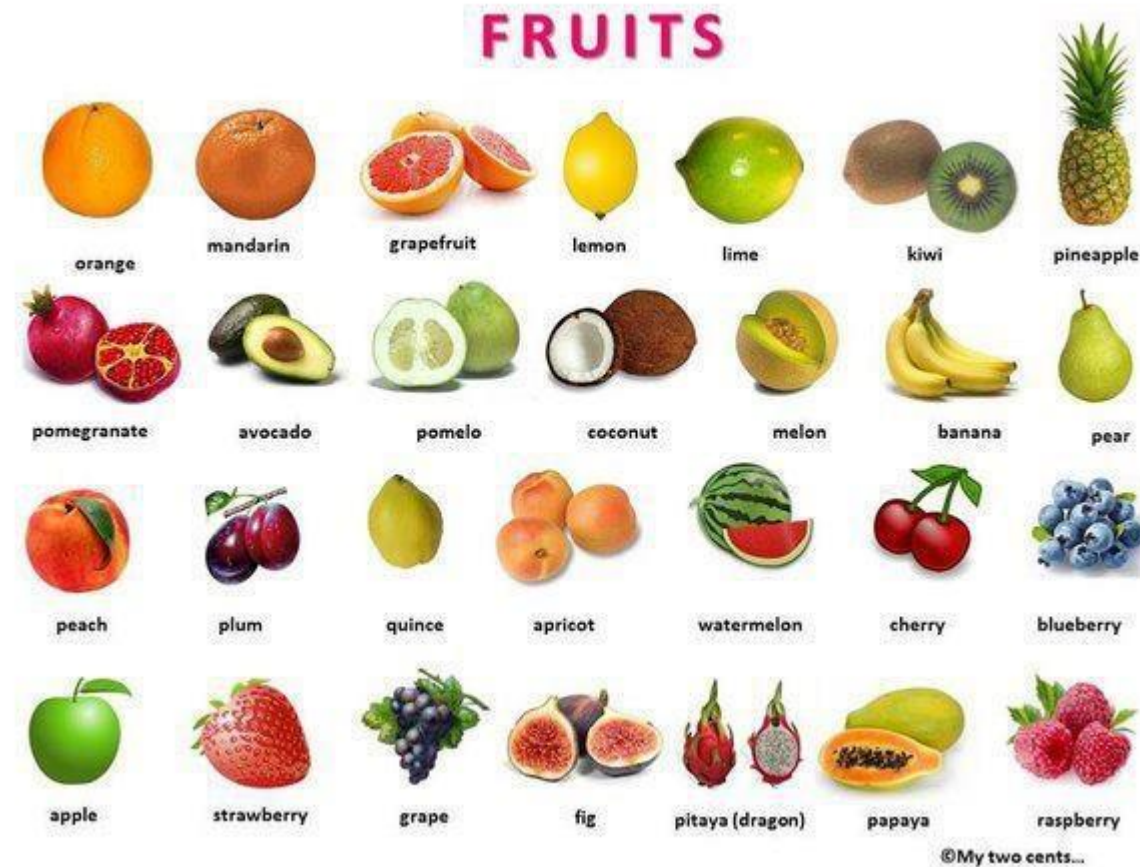
- How many group in this images

Unsupervised



- How many group in this images

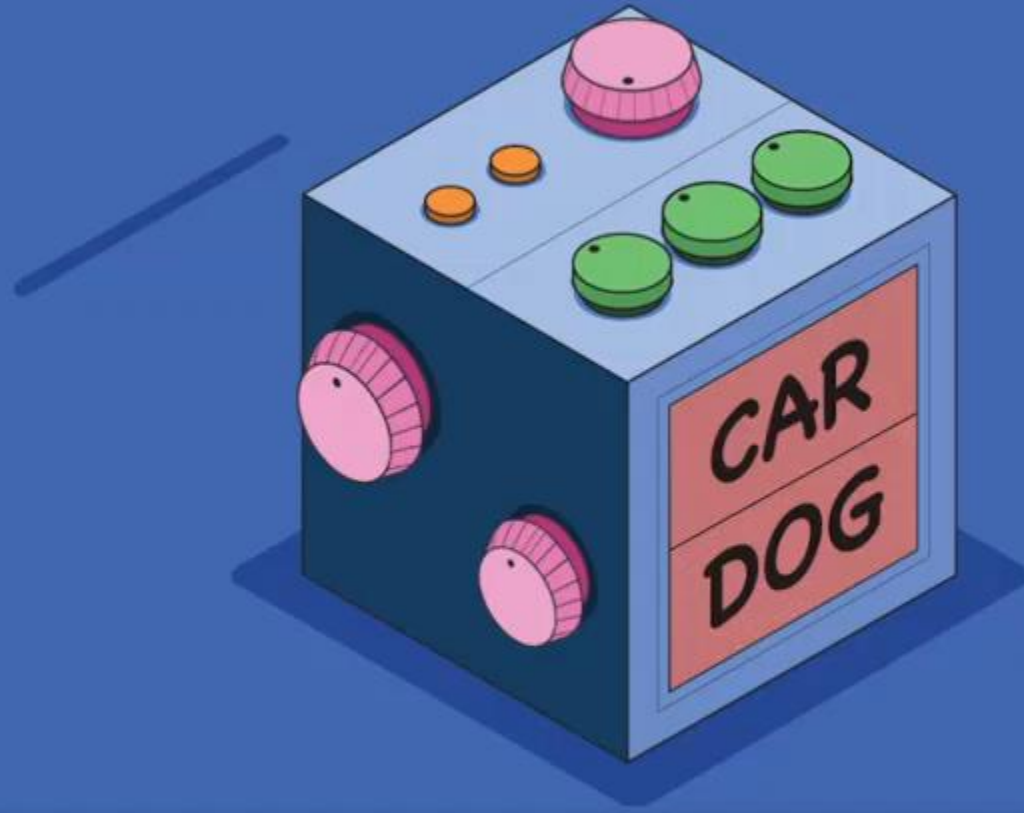
Supervised



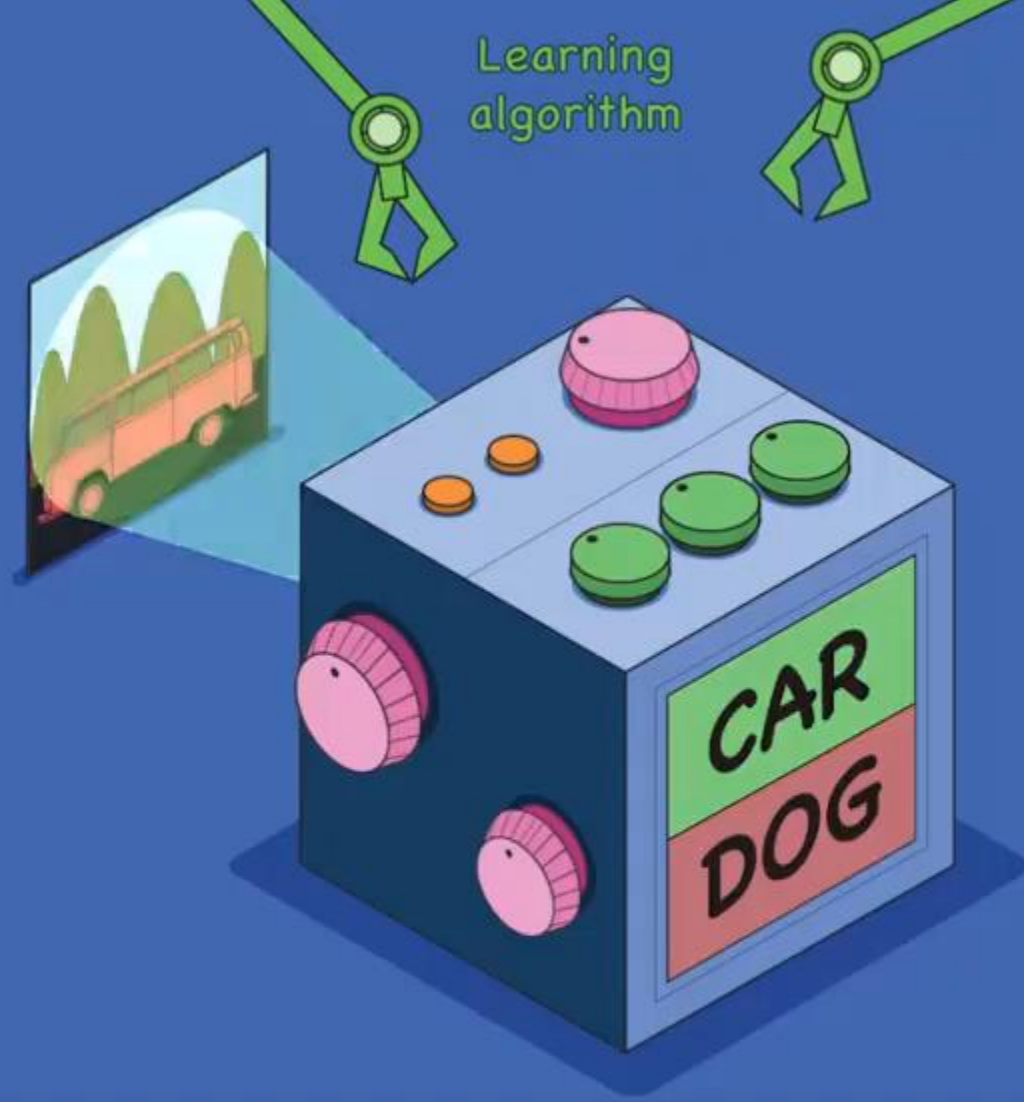
- You're loss memory and doctor keep telling you what 'this' things is.



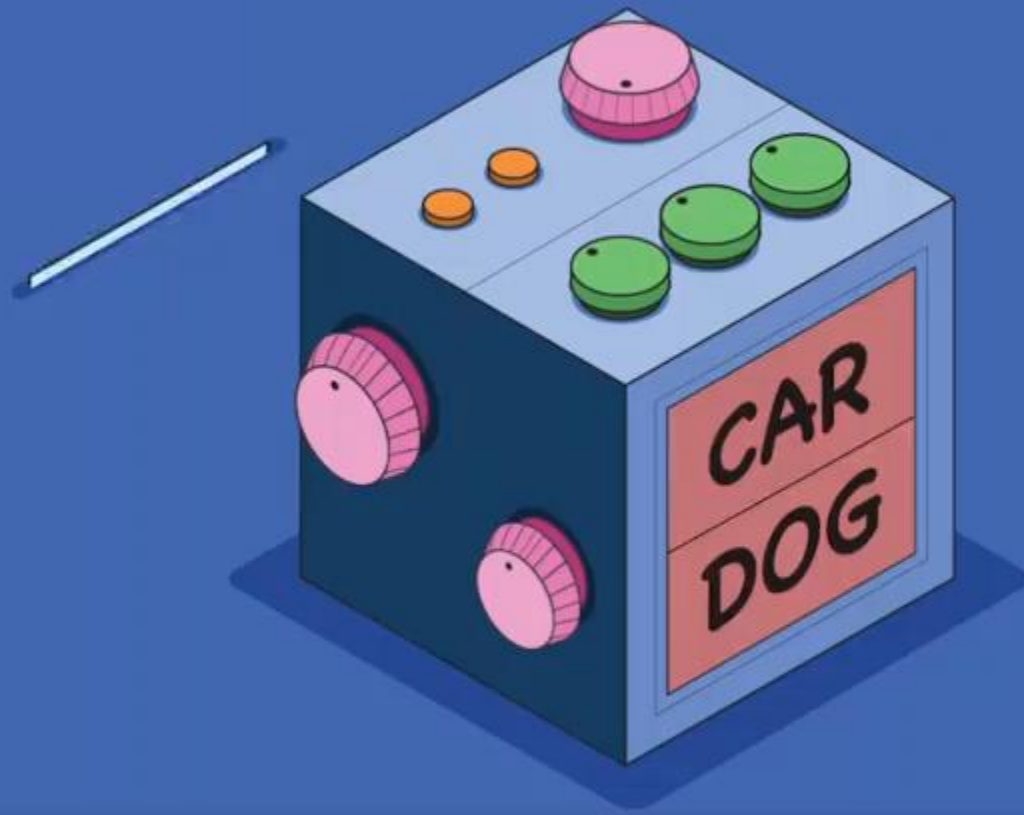
So a typical example is that you want to build a machine
that recognizes images



because it's kind of random a little bit.



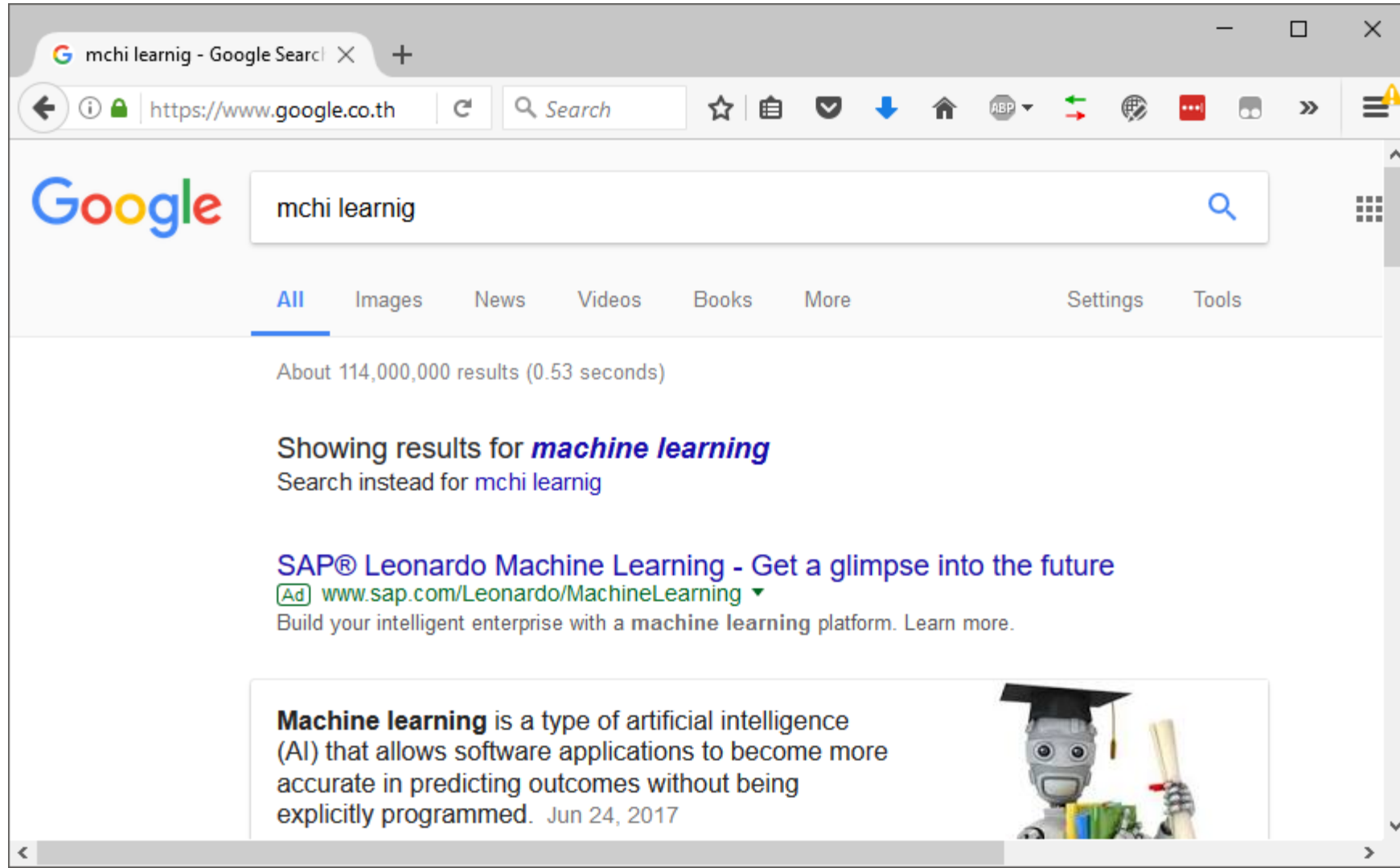
And that what's the learning algorithm is really, is the technique for adjusting the parameters.



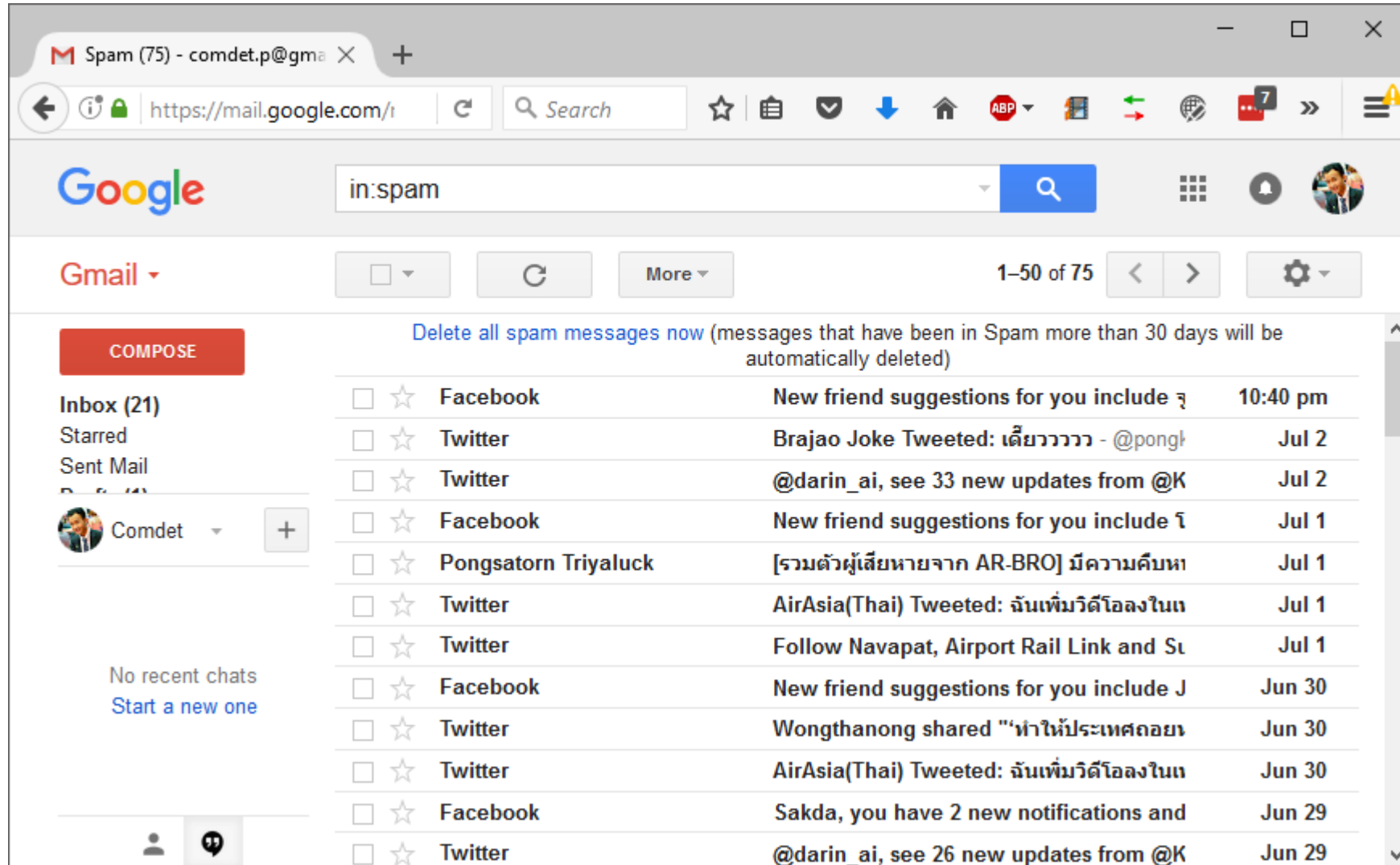
and it will give you the right answer for all the good proportion of all the images you showed.



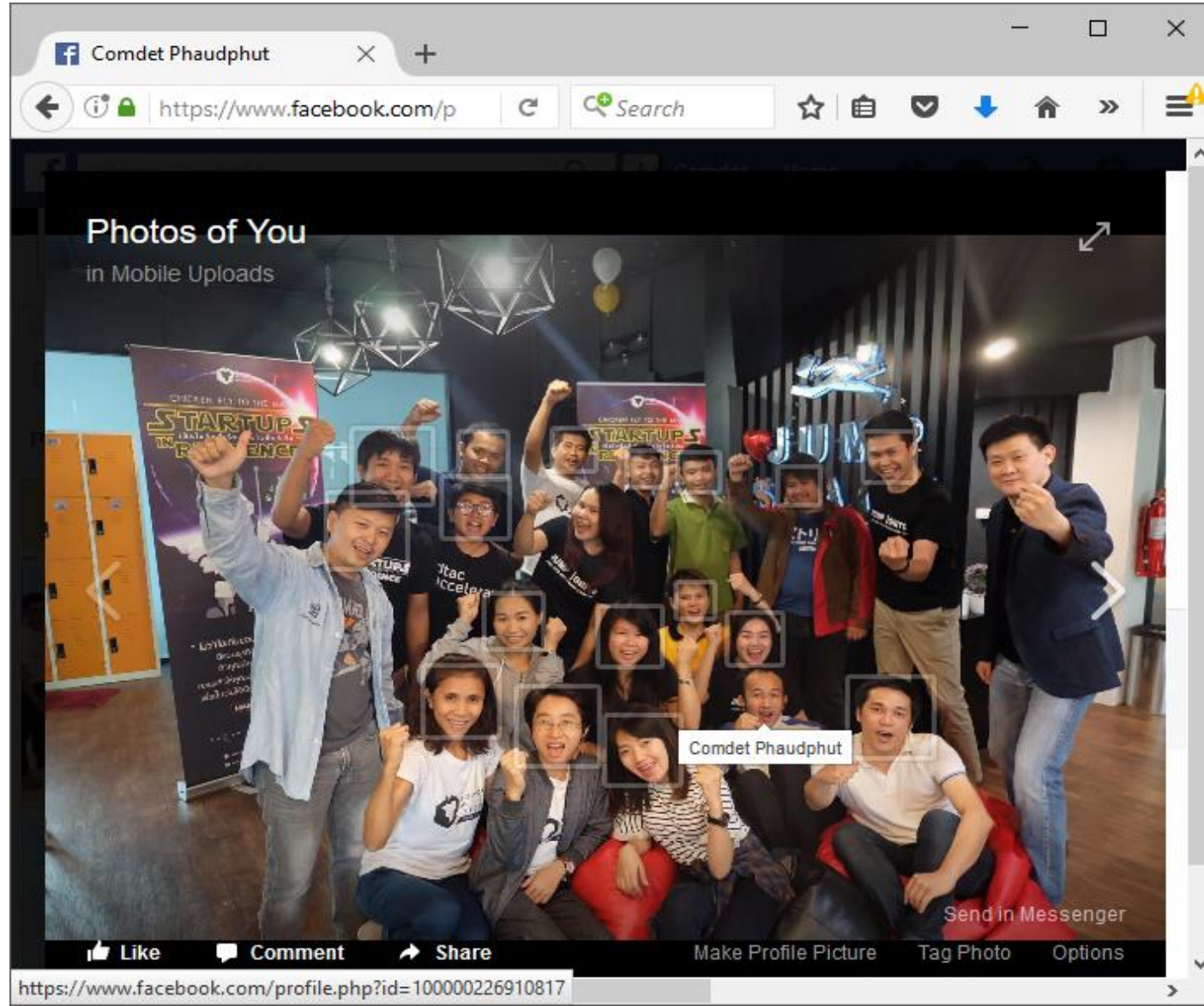
Example ML in real life



Example ML in real life



Example ML in real life



Example ML in real life



Example ML in real life



Example ML in real life


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Google dog.jpg yolo darknet

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 Image size: 768 x 578
Find other sizes of this image: All sizes - Small - Medium

Best guess for this image: **yolo darknet**

YOLO: Real-Time Object Detection - Joseph Redmon
<https://pjreddie.com/darknet/yolo/>
This post will guide you through detecting objects with the YOLO system using a pre-trained model. If you don't already have Darknet installed, you should do ...

GitHub - pjreddie/darknet: Convolutional Neural Networks
<https://github.com/pjreddie/darknet>
Convolutional Neural Networks. Contribute to darknet development by creating an account on GitHub.

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