

Final Project Brainstorming

NTHU Logic Design Laboratory (Fall. 2020)

12/8/2020

By Prof. Chun-Yi Lee

Agenda

Sensor Intro

Sensor Shop

Brainstorming

Agenda

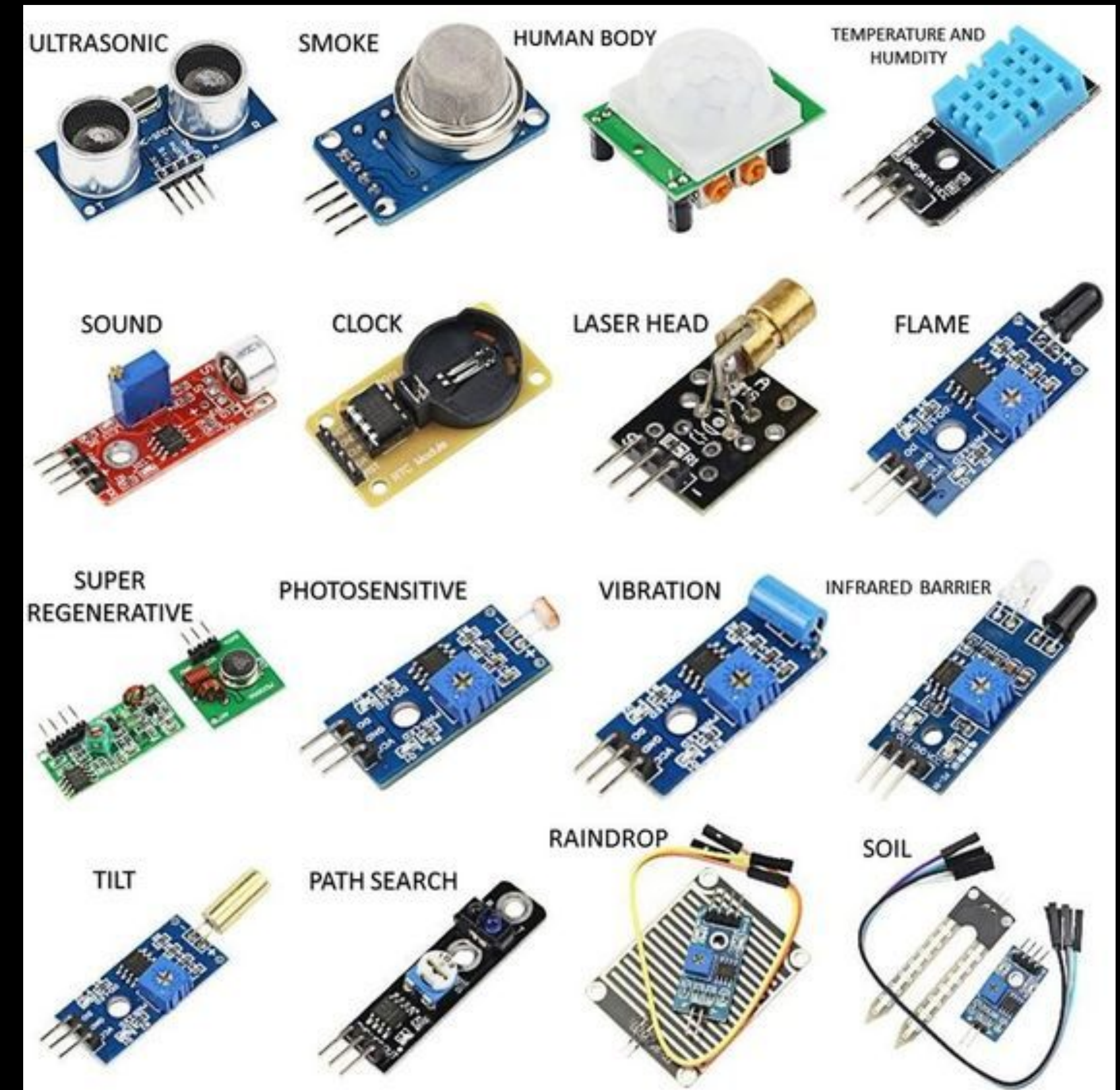
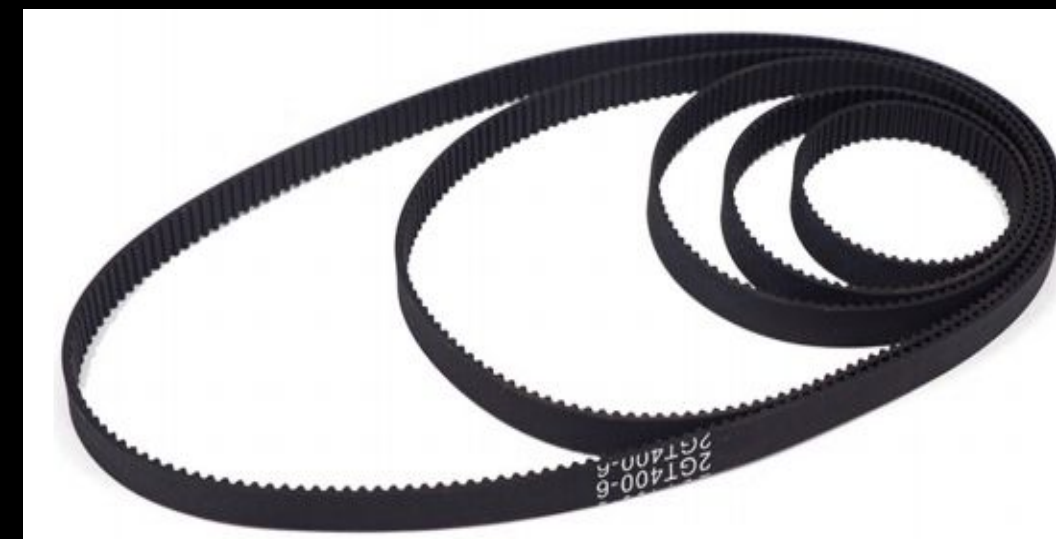
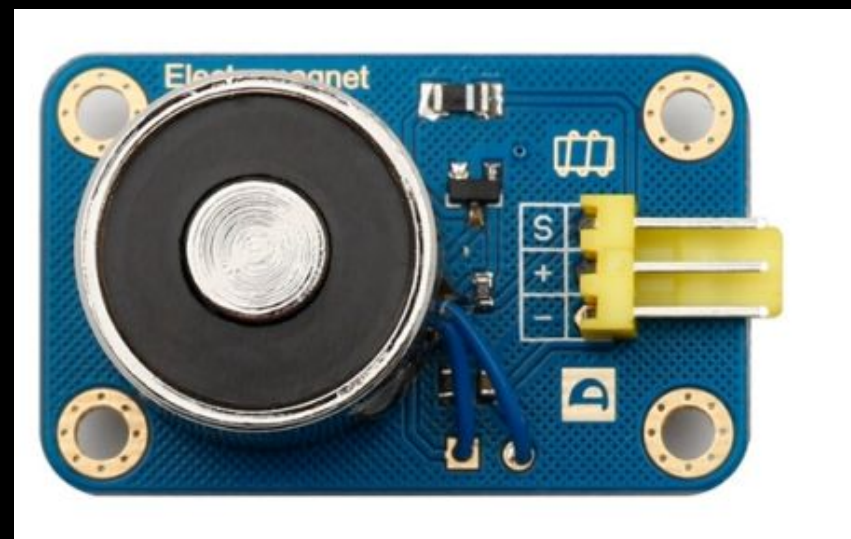
Sensor Intro

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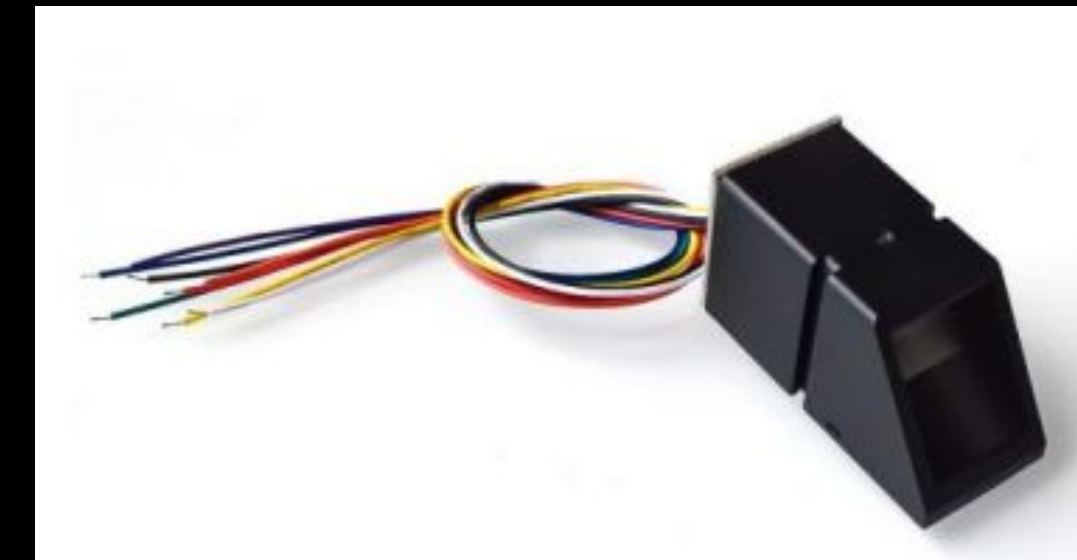
Sensor Intro (1/6)

- You can use **any** sensor.
- 電磁鐵、時規皮帶(挺貴的)
- 買**開發模組**
- 注意電壓(5V), FPGA只能給到3.3V



Sensor Intro (2/6)

- 紅外線發射模組
- 指紋模組
- 紅外線接收模組



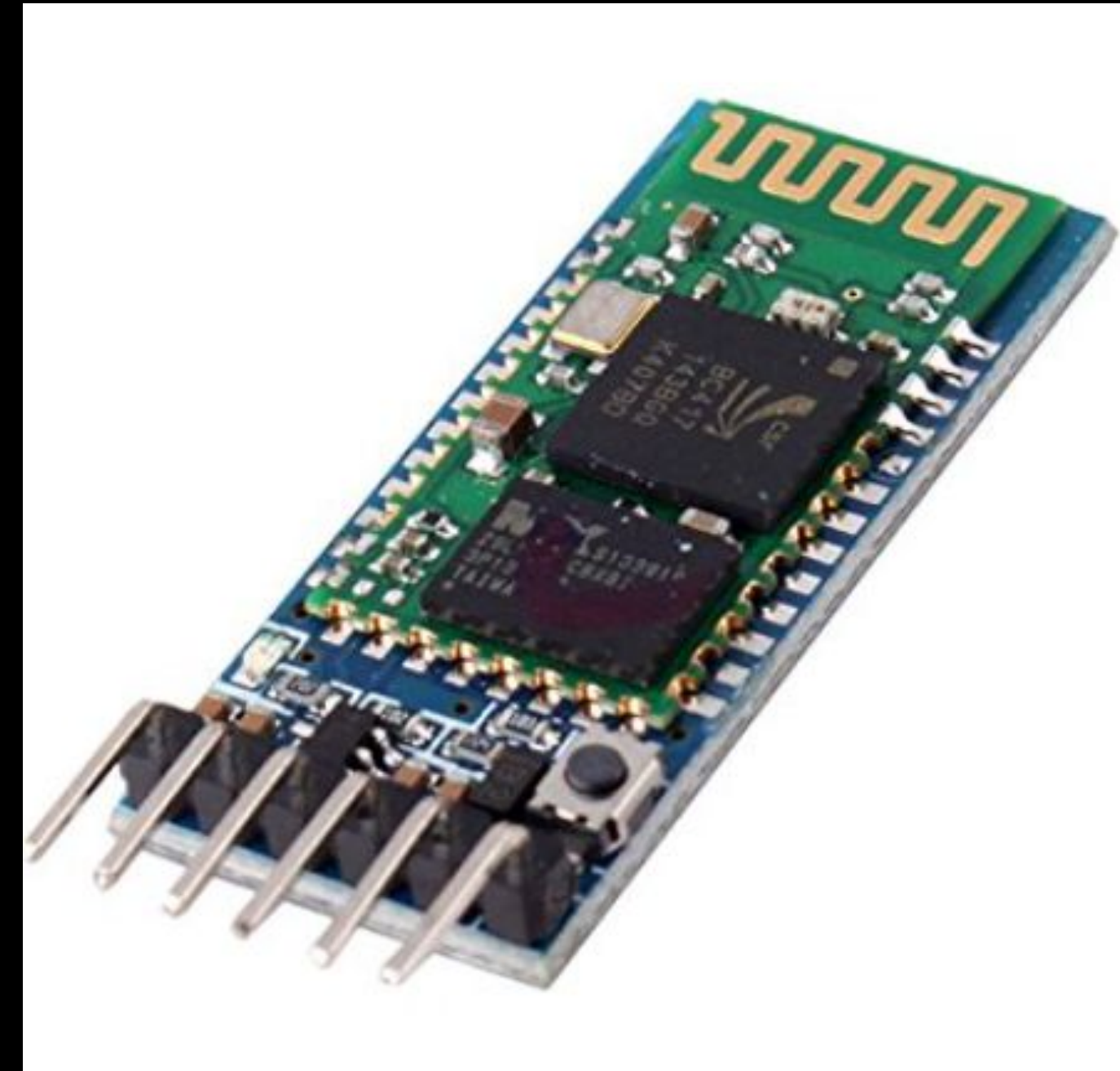
Sensor Intro (3/6)

- Wifi模組
- ESP-8266開發模組
- 不要買成晶片喔



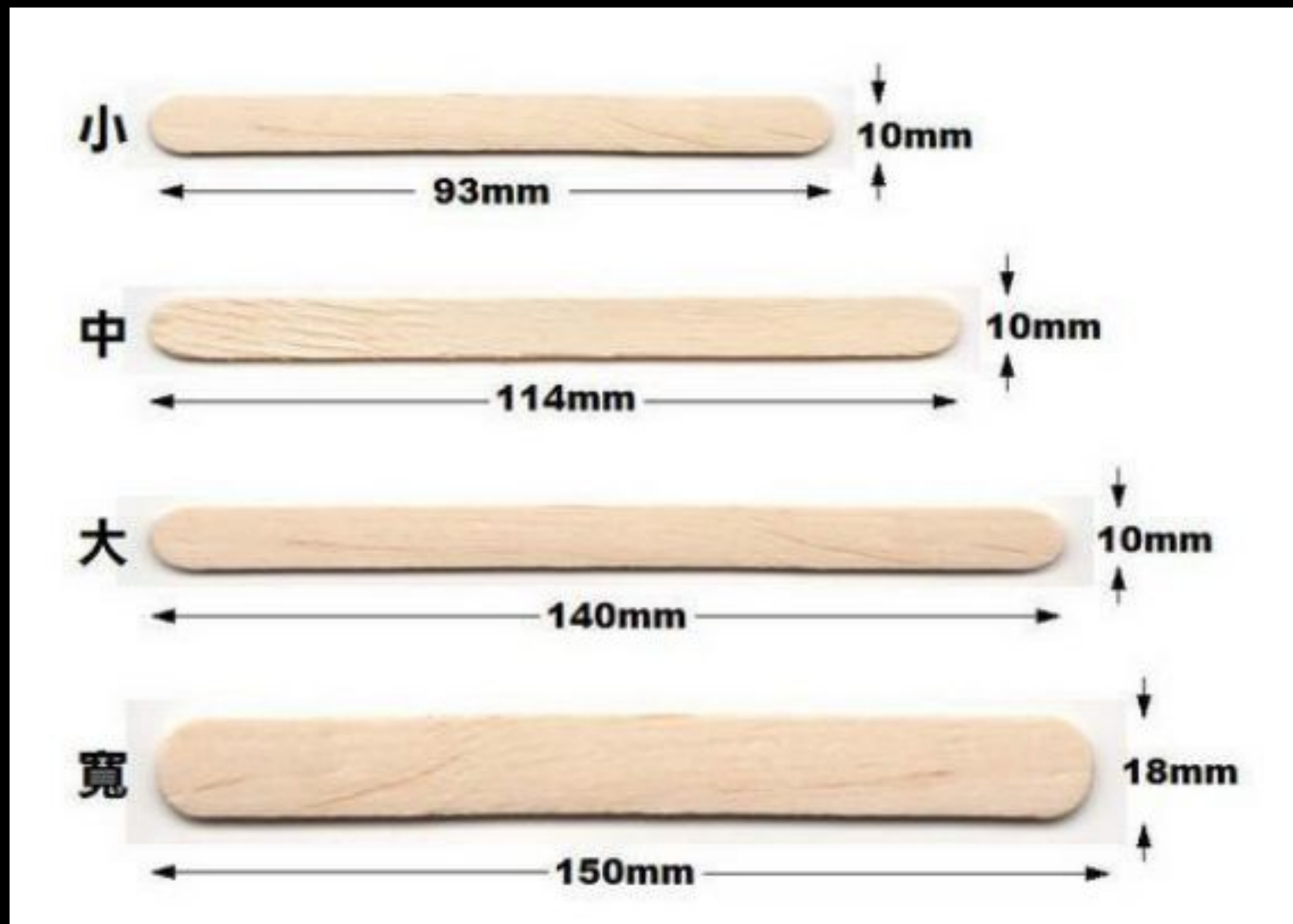
Sensor Intro (4/6)

- 藍芽模組
- HC-05、HC-06模組
- 可以搭配「藍芽APP」
- Baud rate : 9600 bps

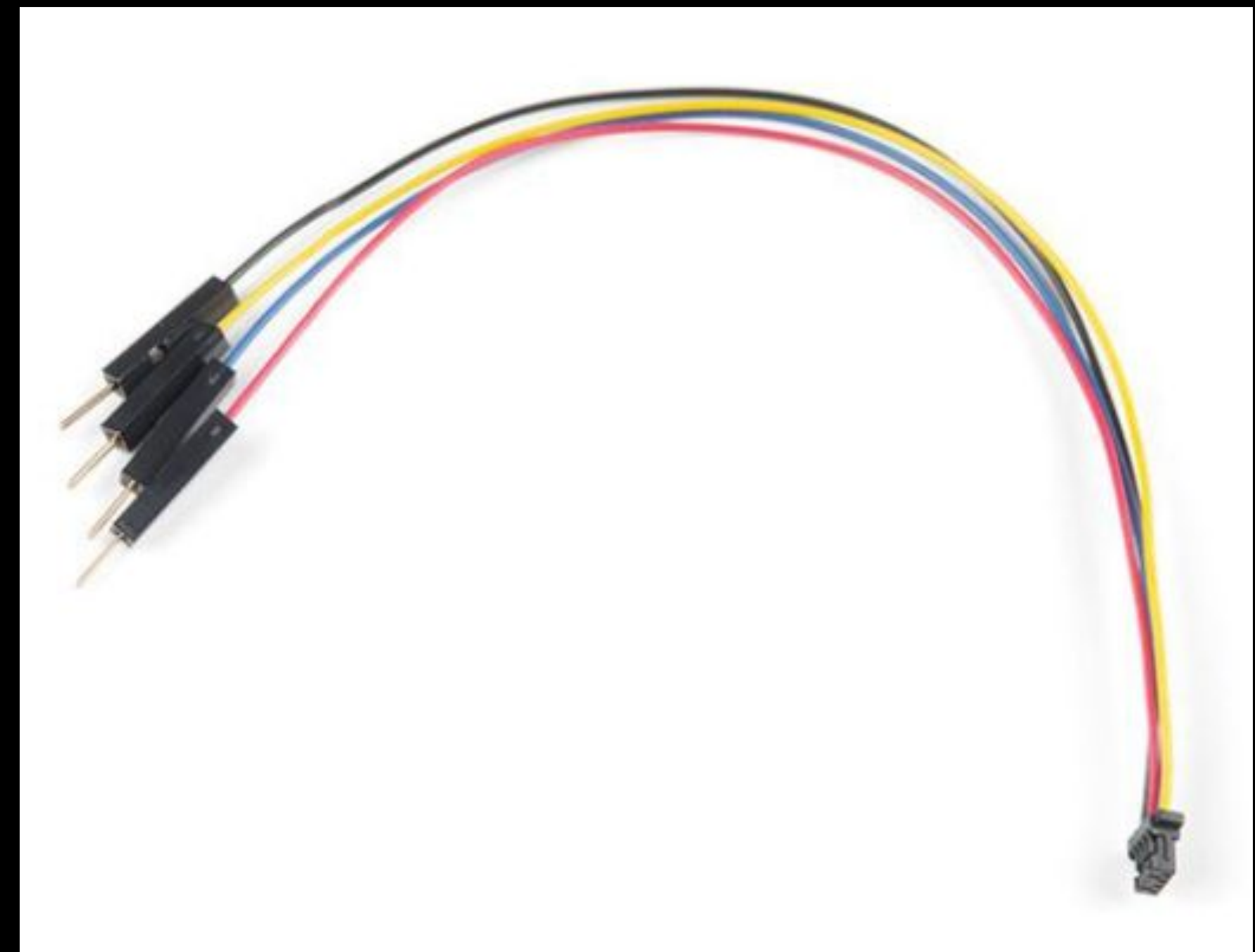


Sensor Intro (5/6)

- You can use **any** thing.



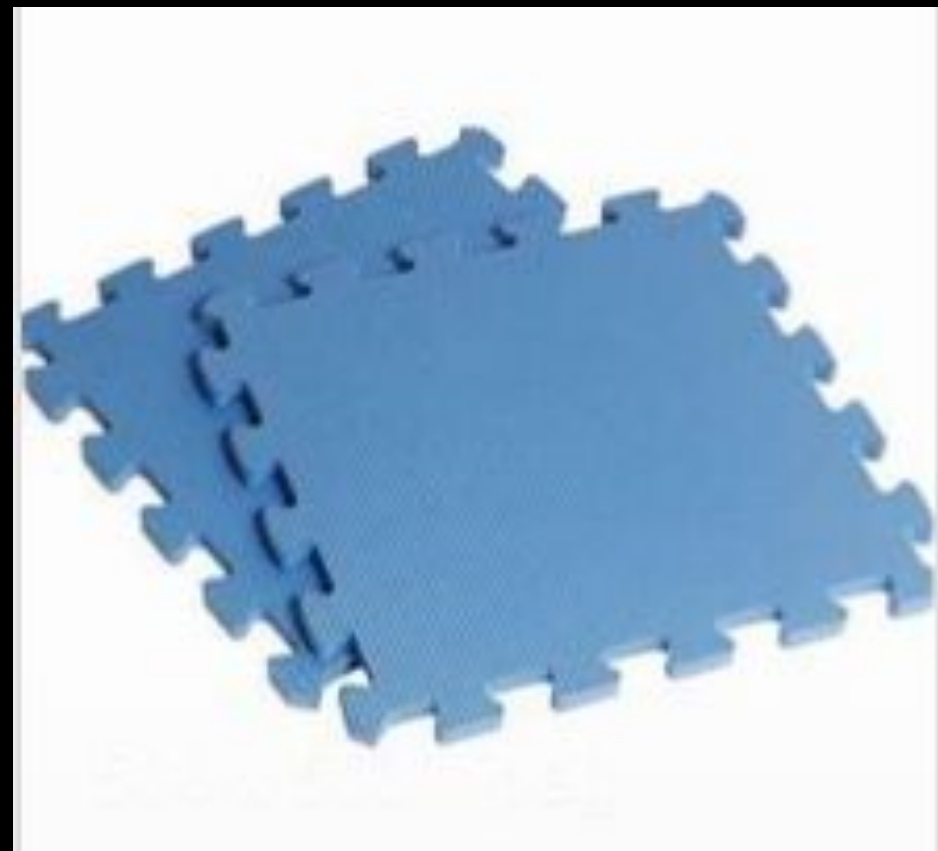
冰棒棍



jumper

Sensor Intro (6/6)

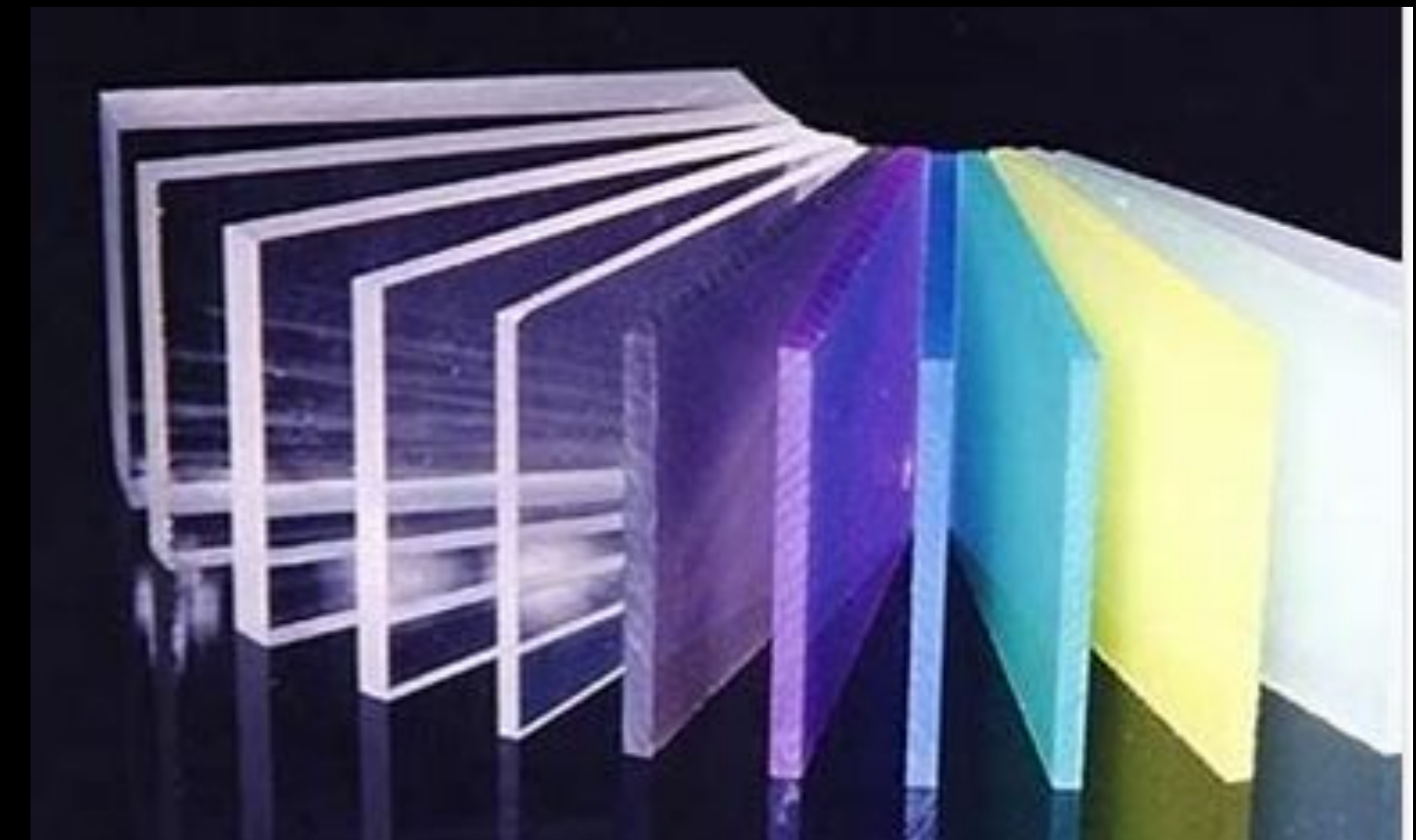
- You can use **any** thing.



巧拼



同步輪



壓克力板

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Sensor Shop (1/1)

- Refer to document

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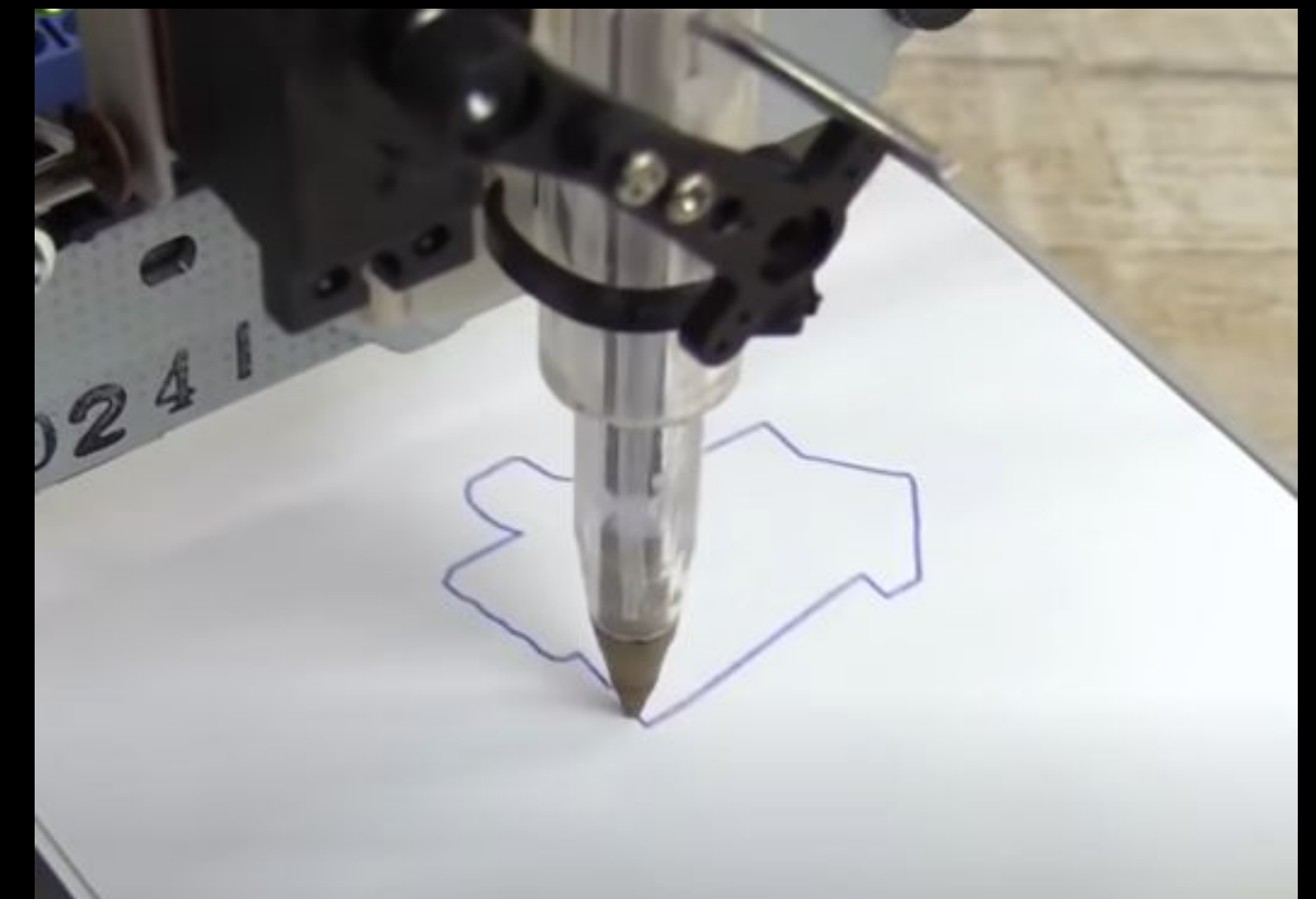
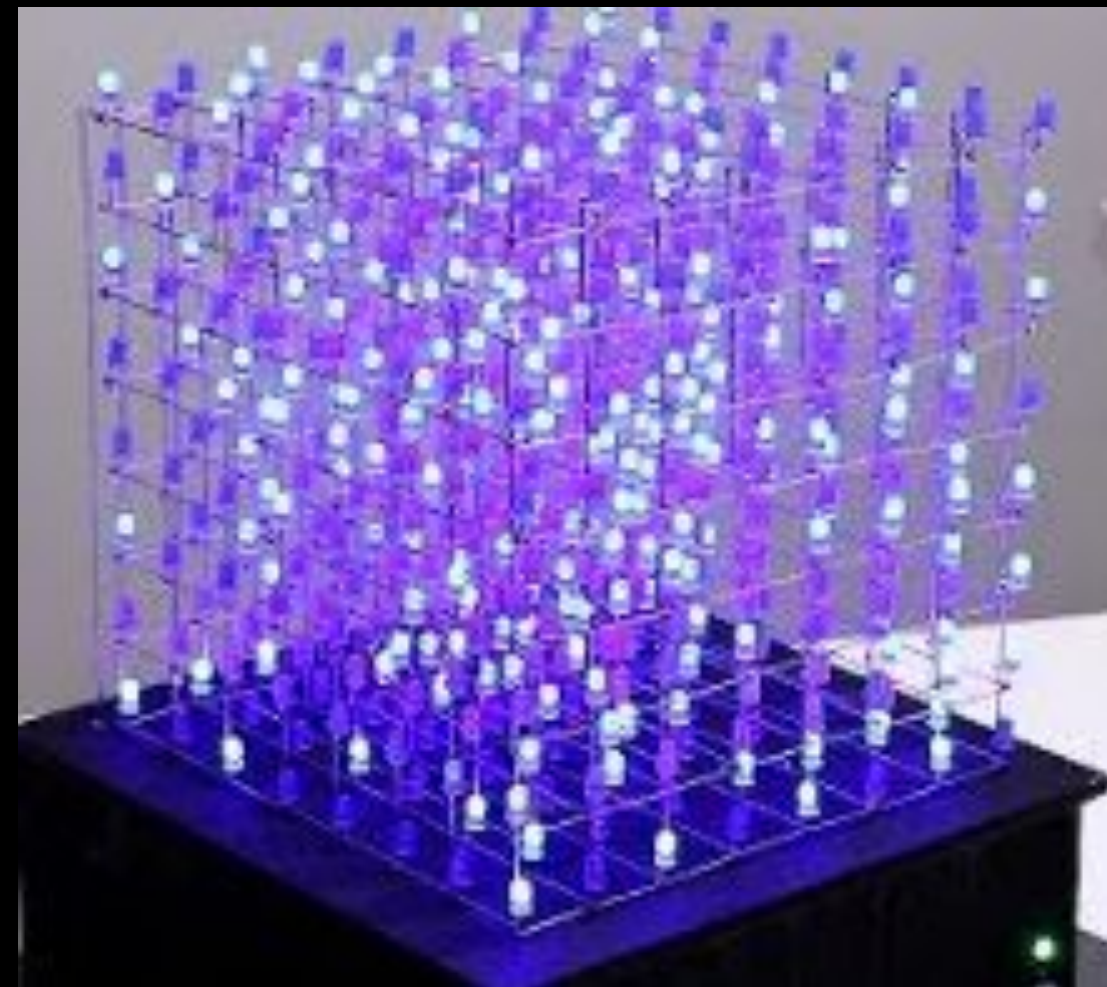
Sensor Intro

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Brainstorming (1/1)

- launchpad、3D貪食蛇、寫字機.....
- 夾娃娃機、智慧辨識、投籃機.....



Q&A