



由Microbit 到Arduino的探究研習

歐海健助理校長



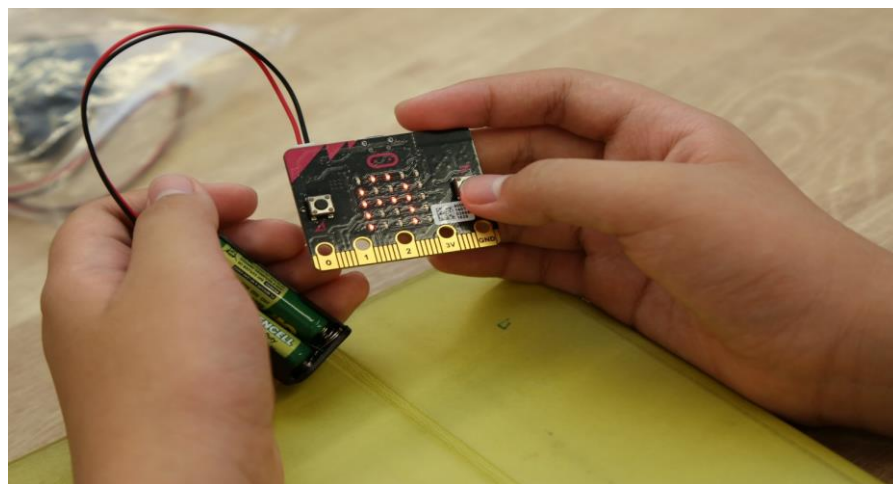
萬鈞教育機構
MAN KWAN EDUCATIONAL ORGANISATION



伯耆學院
PAK KAU COLLEGE



從



開始

學習·使用



Blockly · 編寫程式



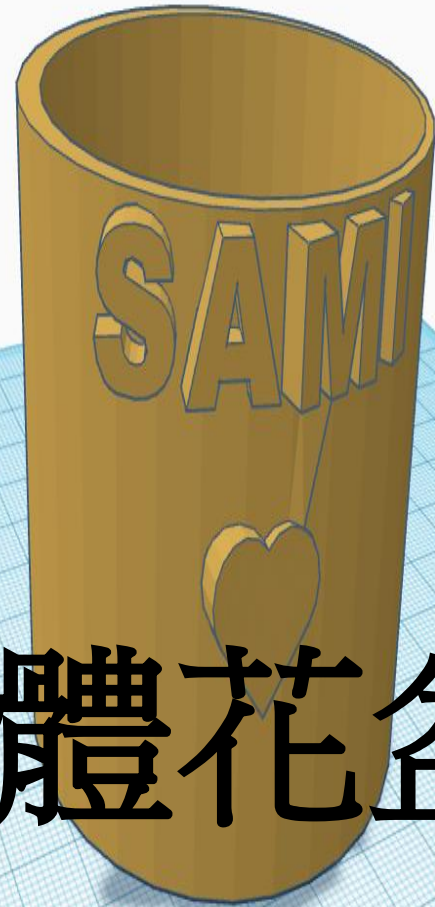
進階的迭代(循環)編程



A group of students in a classroom or workshop setting are focused on their work. They are seated at a table covered with various electronic components, including breadboards, wires, and sensors. The students are wearing school uniforms, and the atmosphere is one of collaborative learning and hands-on experimentation. The background shows other students and a bright, well-lit environment.

產品設計 · 感應器

3D 設計 · 立體花盆



工作平面



匯聚創意及所學製成智能盆栽

NEXT







運作原理

Sensors

Microcontroller
Arduino

IOT Platform
IFTTT



Arduino主要組件

- 麵包板
- 排綫
- 電子元件
- 感應器






Recipe


if this then that

Trigger

Action







Set ringer to high after missing a call.


by  robertogt

Turn on


This Applet uses the following services:

-  **Android Phone Call**
Any phone call missed
-  **Android Device**
Set ringtone volume

 6.4k works with 







Rain today? Don't forget an umbrella

by  nr9992

Turn on

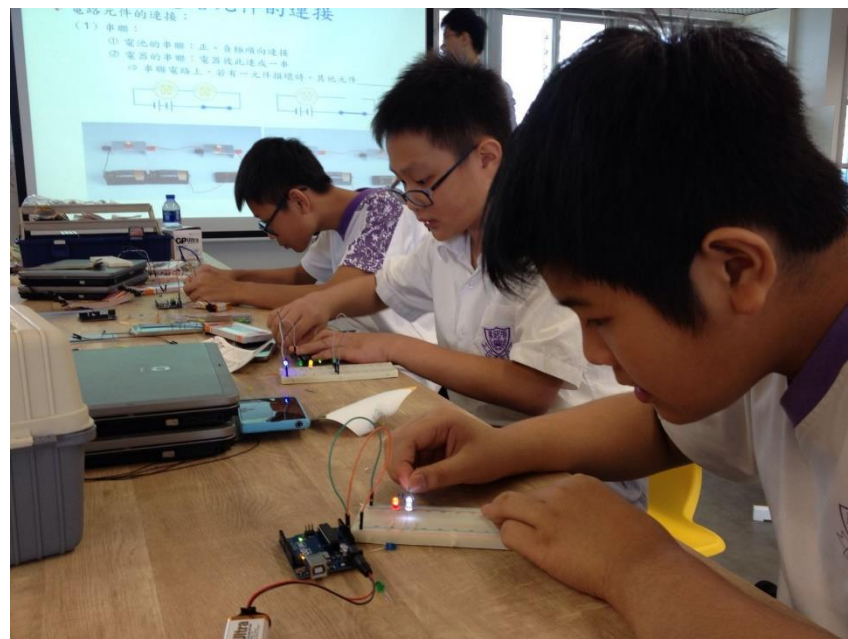
This Applet uses the following services:

-  **Weather Underground**
Current condition changes to
-  **Notifications**
Send a notification from the IFTTT app

 26k works with 



Arduino涉及的學習範疇





Maker
Education

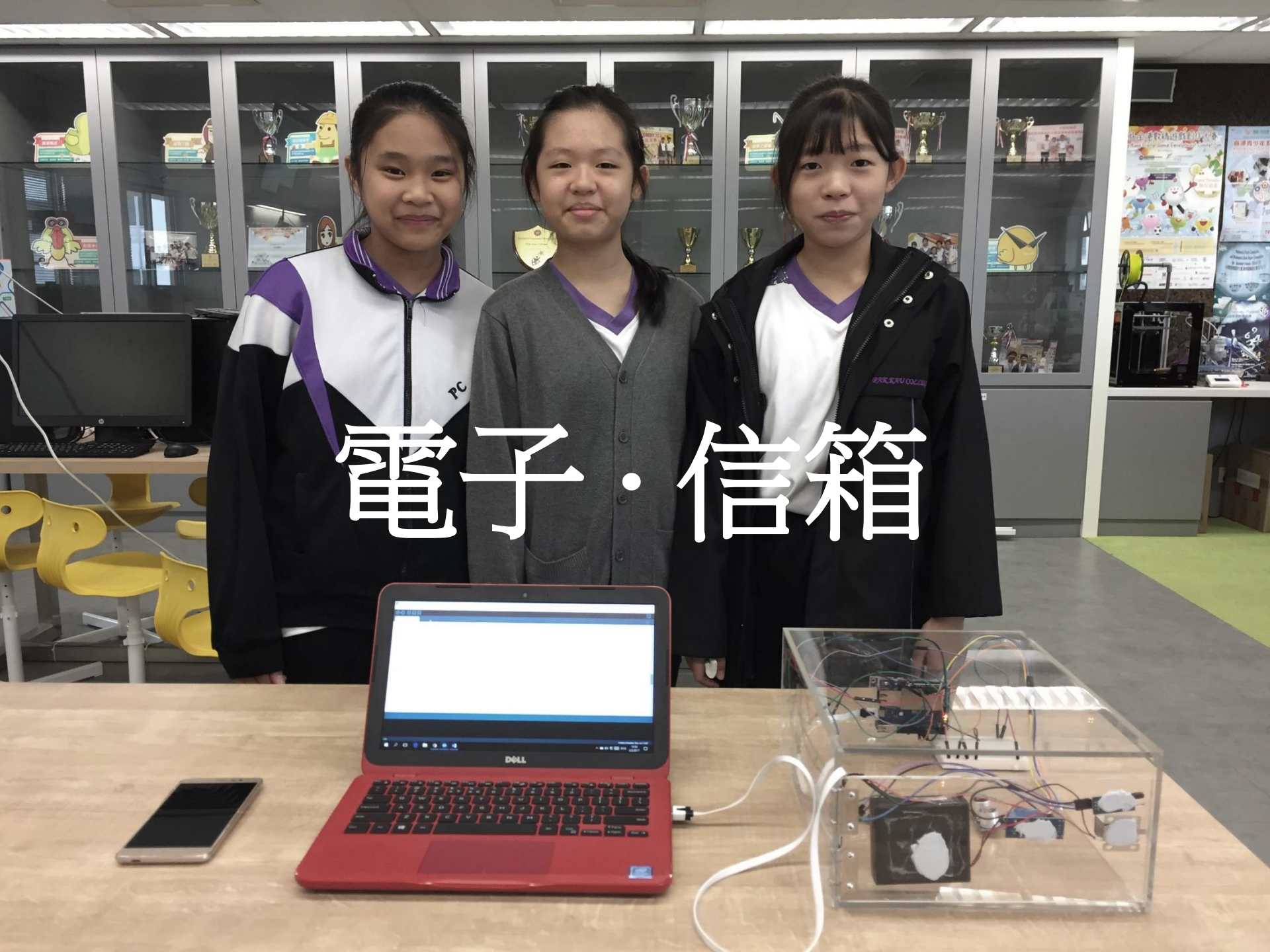
Computational
Thinking

Arduino projects
/ activities

Communication
Skills

Creativity

電子·信箱





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謝謝!