

# 第4課:Arduino介紹

## 什麼是Arduino?

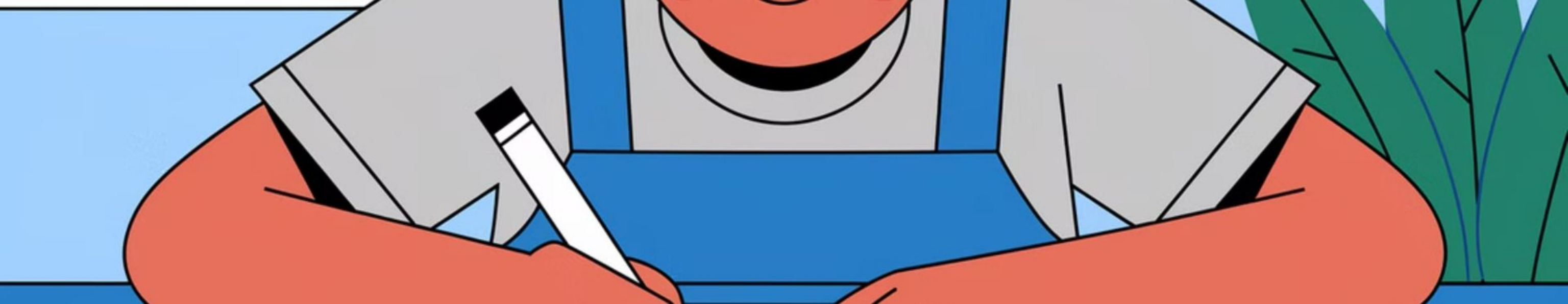
一個開源電子開發平台。

## 為什麼使用它?

易於編程和連接感測器。

## 課程概覽

設置Arduino開發環境。



# 動動手：創作簡單的感測器



繪製

使用導電墨水創造圖案。



測試

使用萬用表測量觸控敏感度。



連接

與電子元件整合。

# 探索手勢識別

1

點按

單點觸控事件,用於簡單操作。

2

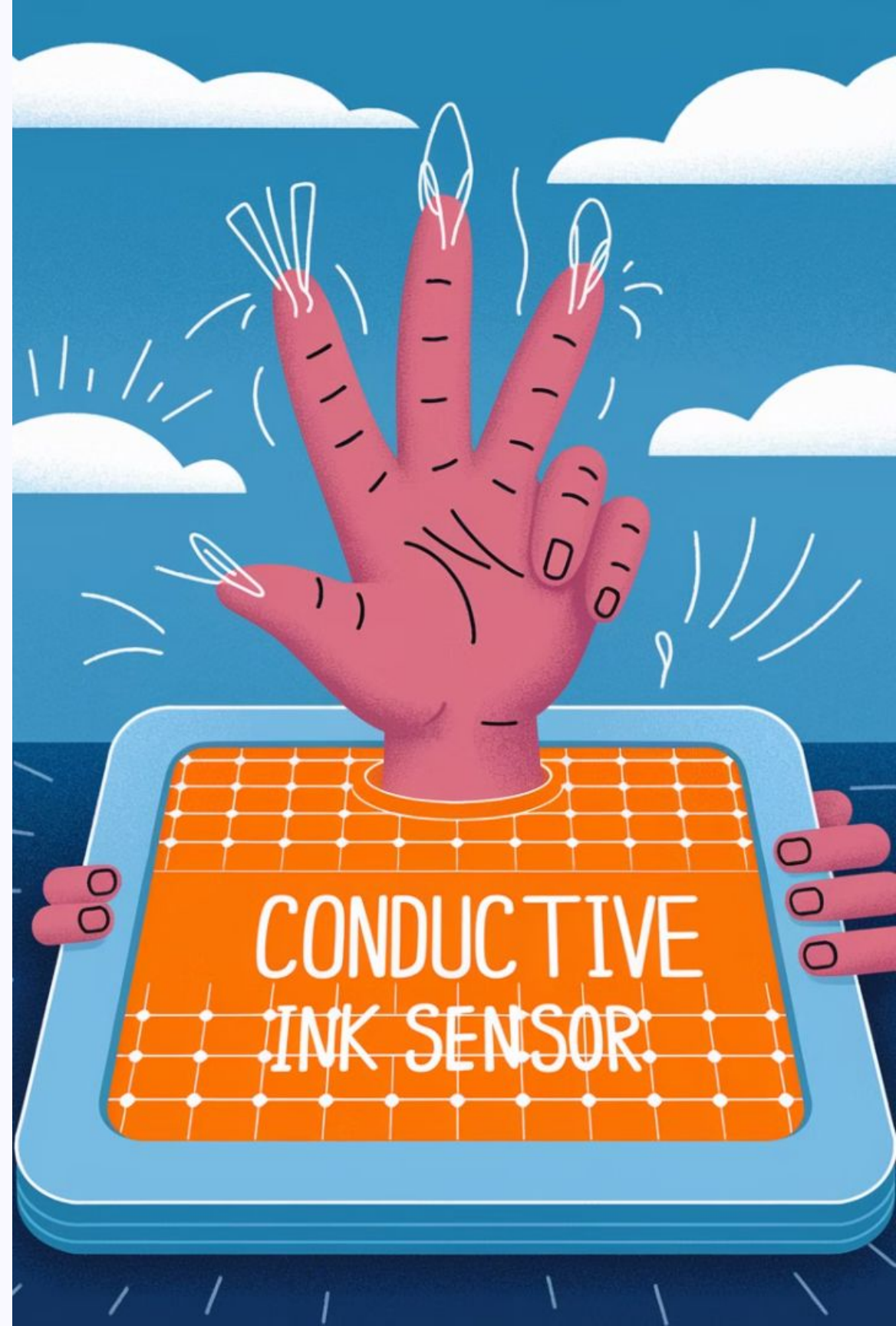
滑動

連續動作,用於參數控制。

3

接近

檢測手部距離,用於產生效果。





# 概念發展

1

腦激盪

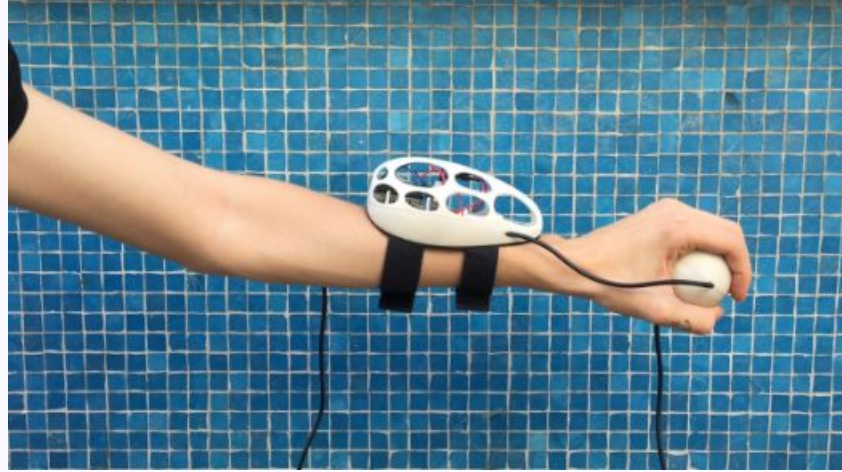
盡可能產生更多想法。

2

草圖繪製


在紙上將您的想法視覺化。









 YouTube



### **Electric Paint Lamp Kit**

Find out more about the Electric Paint Lamp Kit here:

<https://www.bareconductive.com/collections/electric-paint-lamp-kit> Transform any...



 YouTube




### **Build Your Own Interactive Sound Table with Electric Pai...**

Find out more about Electric Paint here:

<https://www.bareconductive.com/collections/electric-paint> TACTO is an interactive...



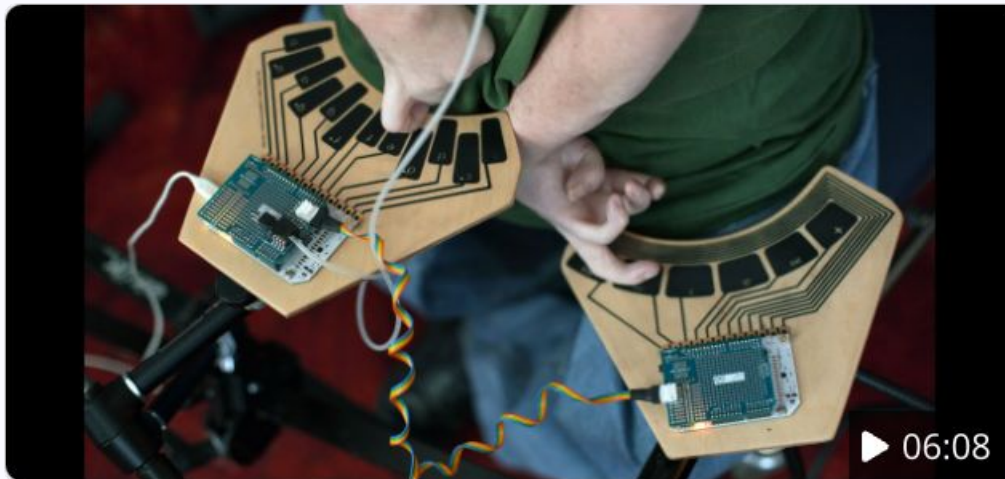
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### **Interactive media wall (touch sensor, conductive ink, projection map...**

[PLAYDODO] Music Playing Wall : Projection Mapping, Conductive Ink, Interacitve Art  
Music Playing Wall, a fun Interactive touch wall painted with instruments recognize...





 YouTube



### **Touch Chord - A Touch Sensitive Breath Controlled Instrument**

Read the full story: <http://bit.ly/1Gg7gQ7> Designer Musician Vahakn Matossian from Human Instruments teams up with Bare Conductive to develop a new musical...

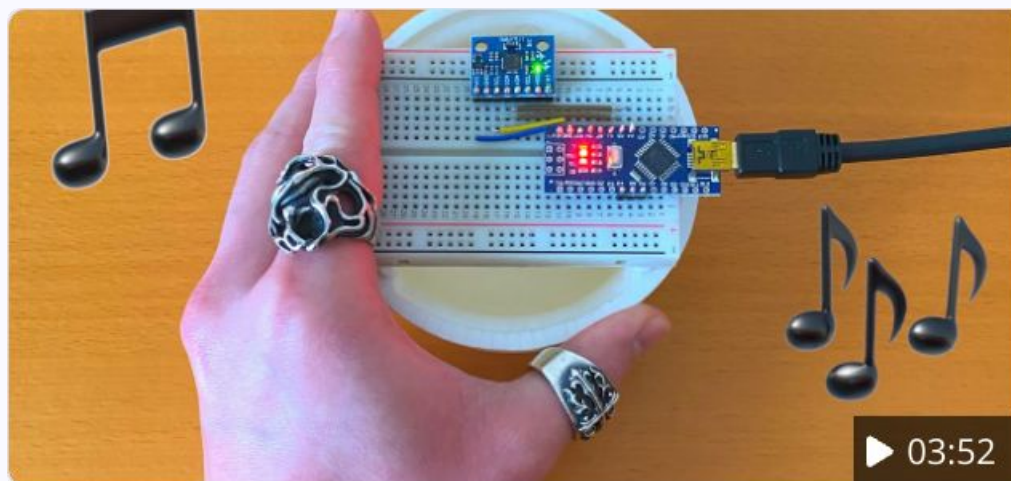



 YouTube



### **I Built a MIDI THEREMIN! Theremidi - A DIY Arduino MIDI Controller**

→ Download the files: <https://go.musicnerd.com/files-download> → Making Music with Arduino: <https://go.musicnerd.com/nerd-musician-pro/> → Curso Fazendo...



 YouTube



### Accelerometer Music Controller (Arduino Tutorial)

Let's use accelerometer to control sounds in Pure Data or Max/MSP!! --- To Buy -  
Arduino Nano <https://www.amazon.com/ELEGOO-Arduino-ATmega328P-Without-...>

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