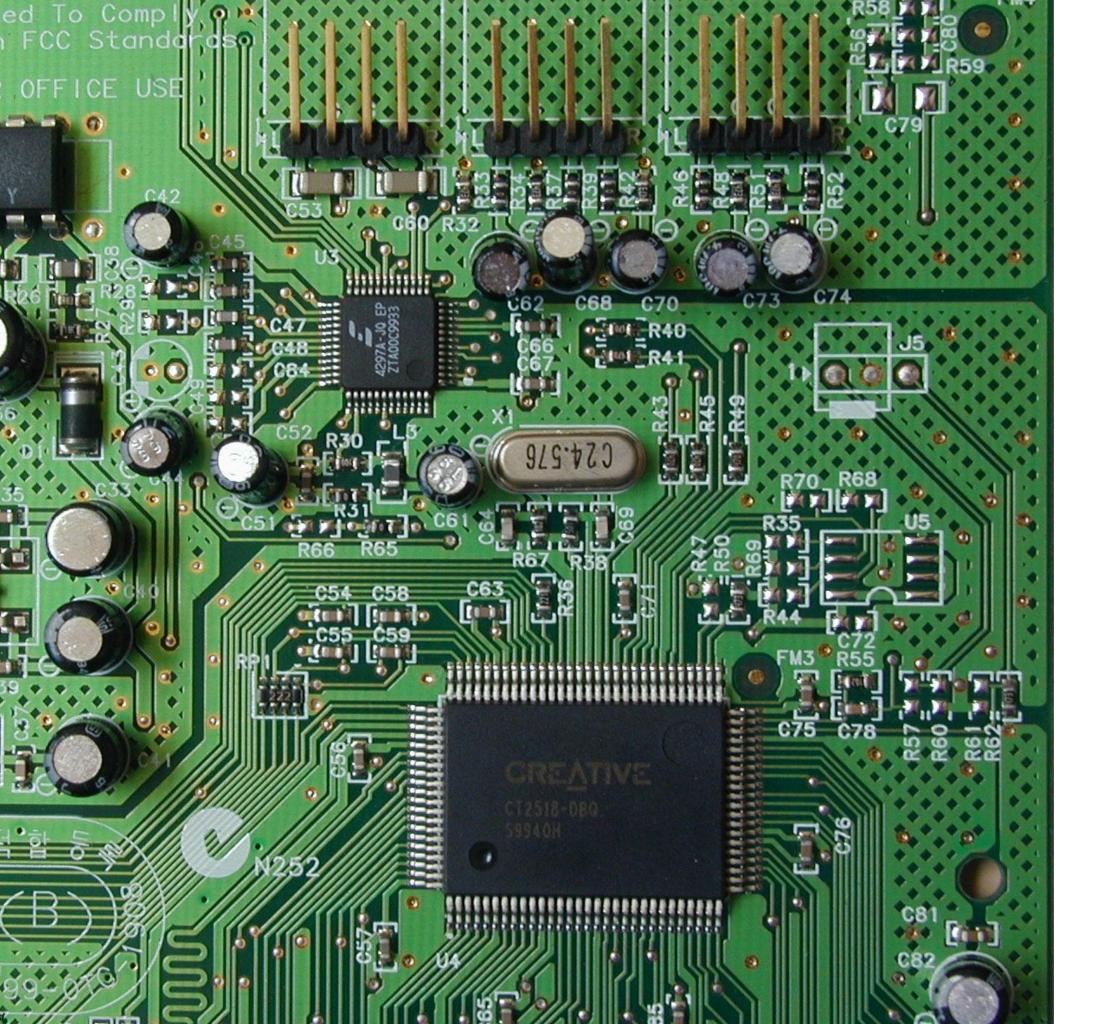
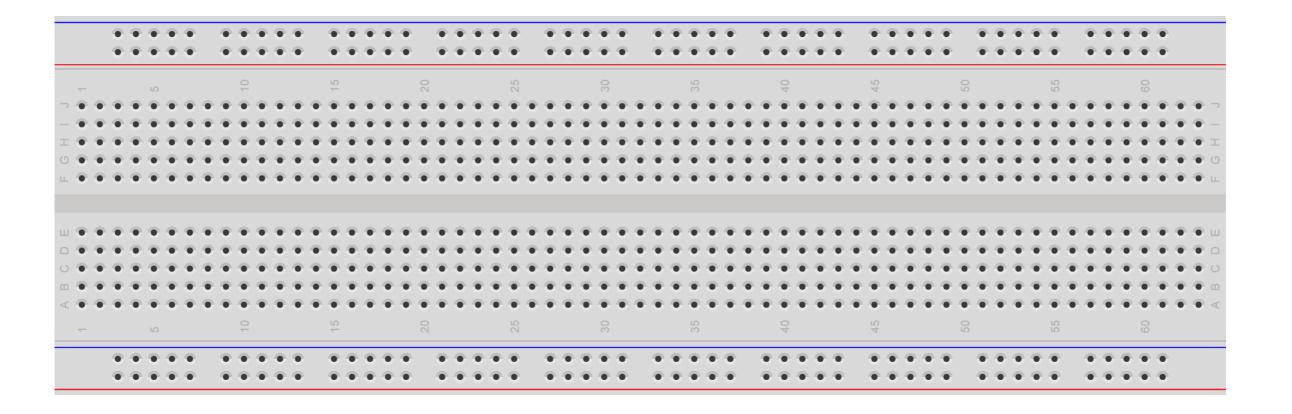
Week 1

Howard Ke

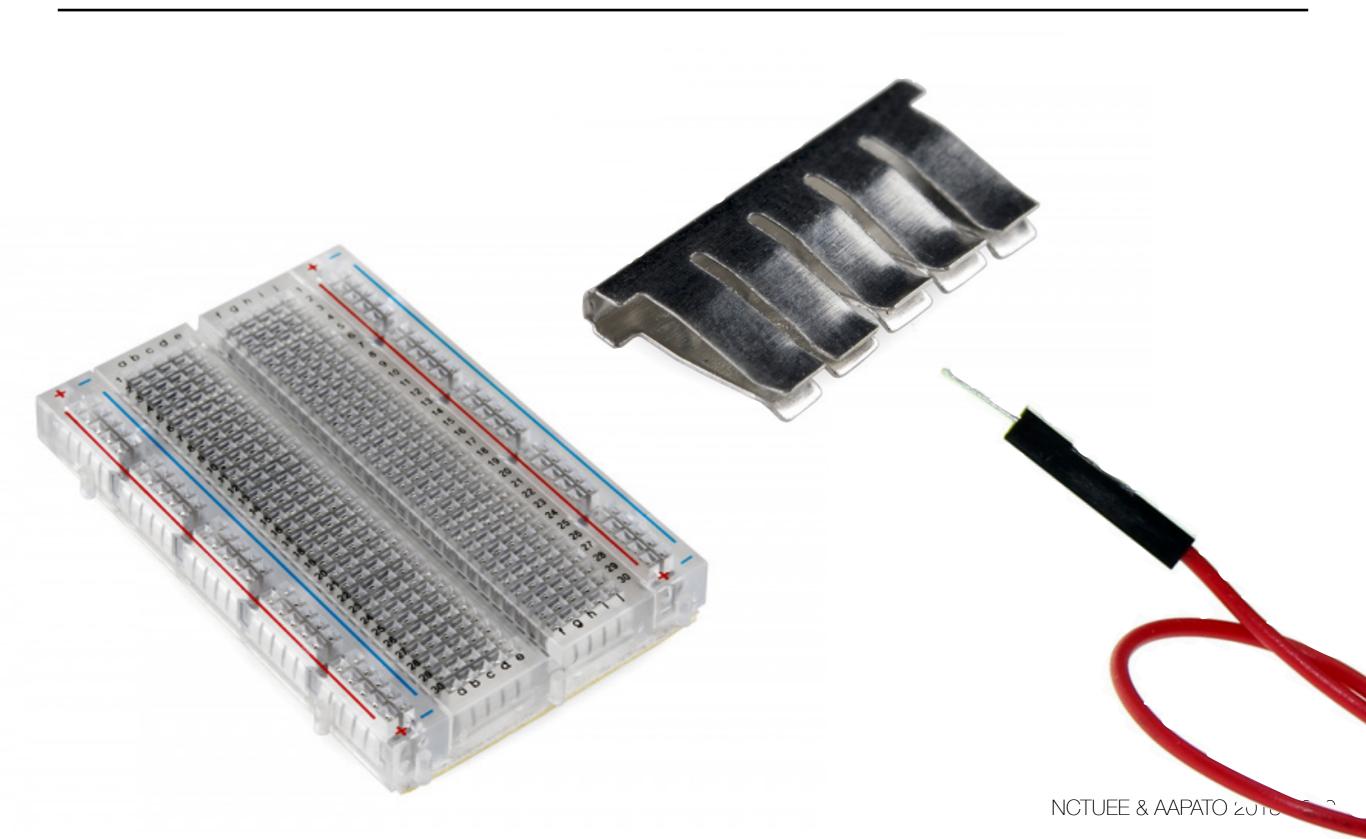


電 路 っ

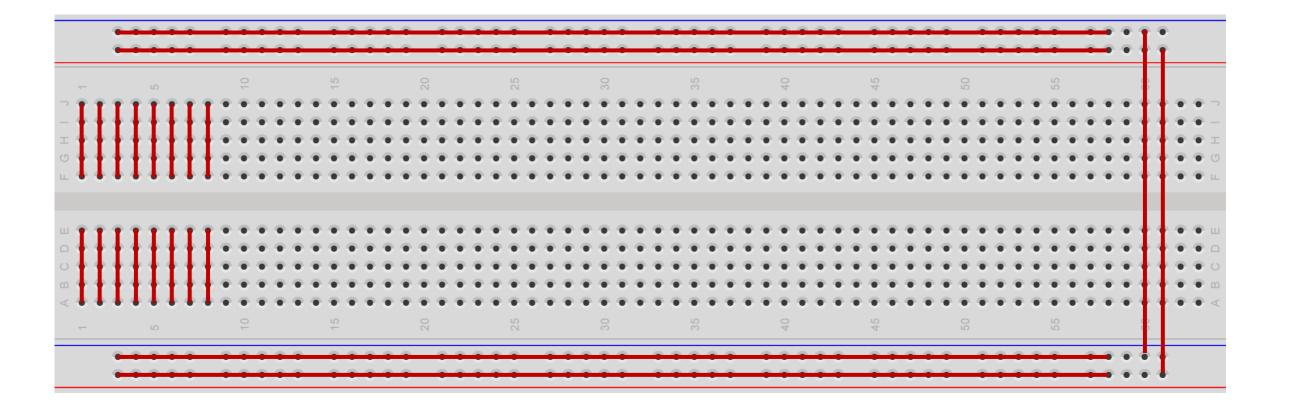
麵包板



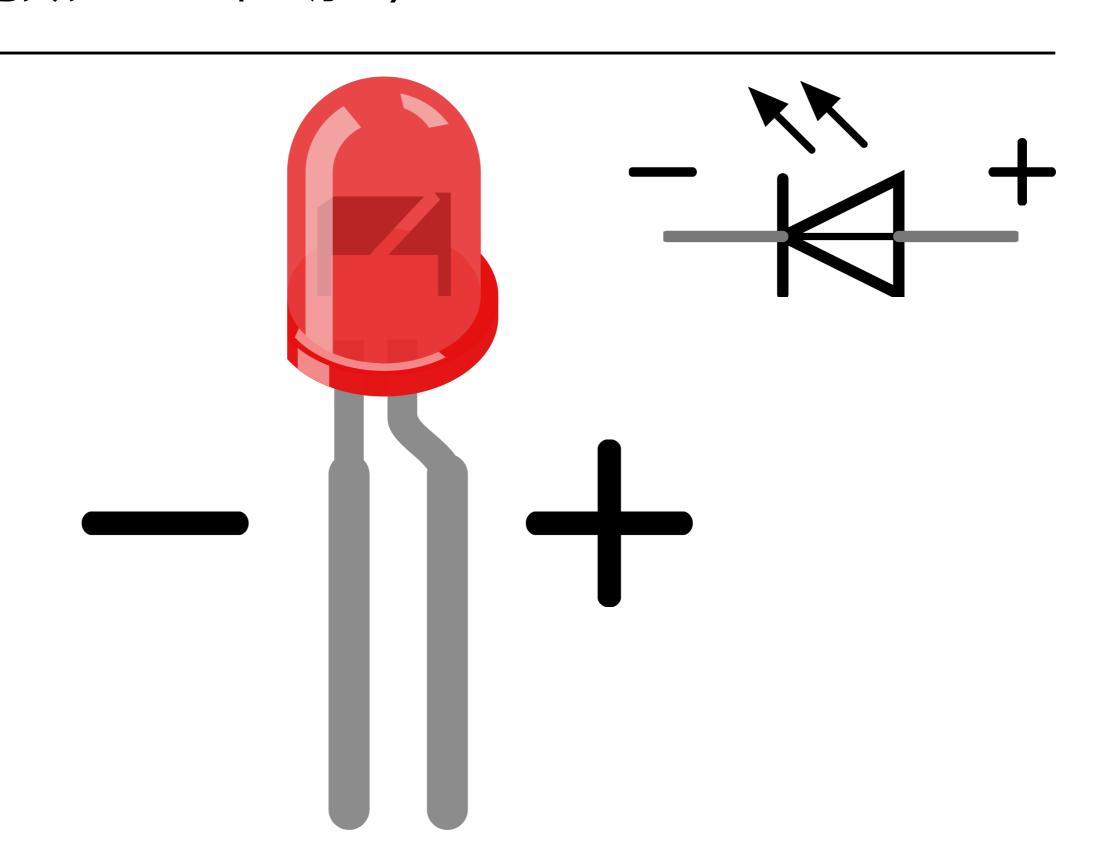
麵包板



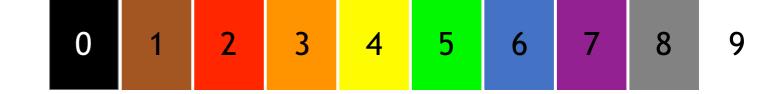
麵包板

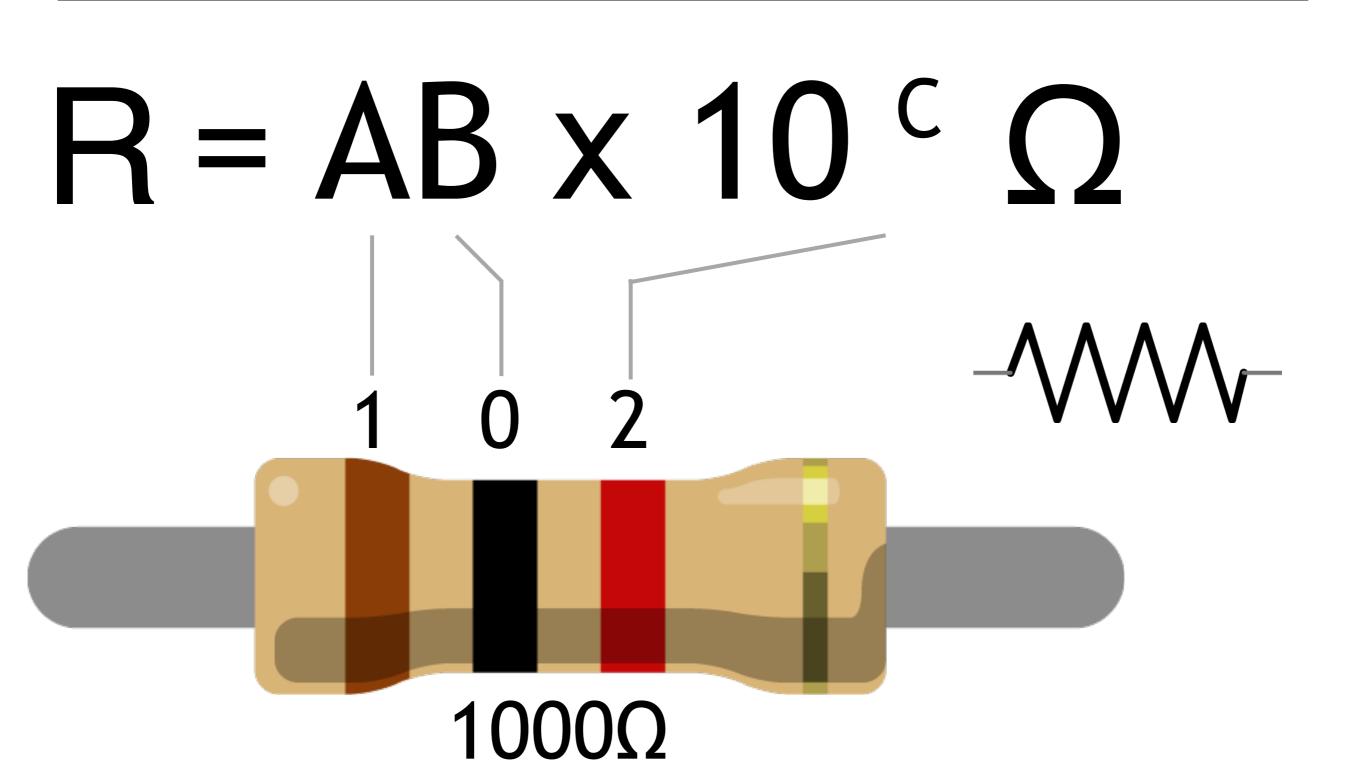


LED(發光二極體)



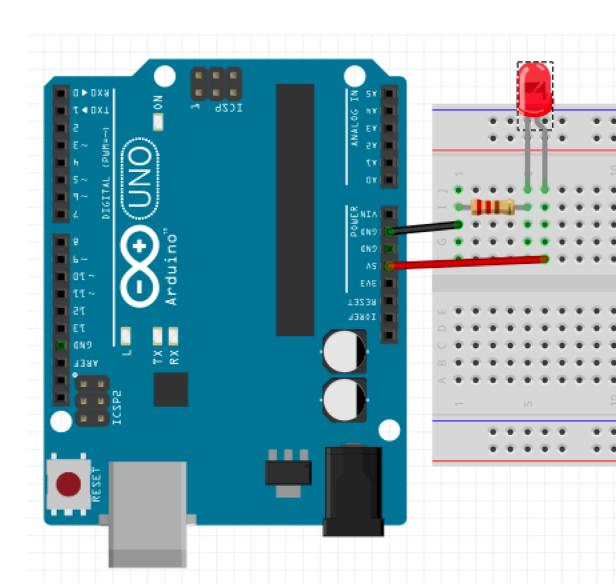
電阻





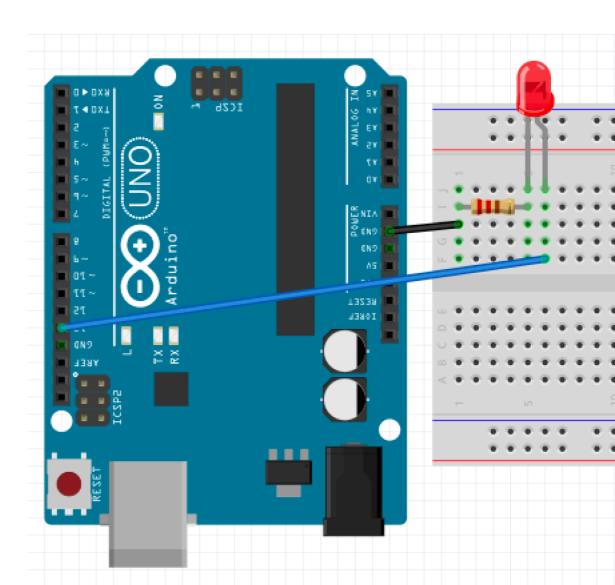
Lab 01

Goal: 讓LED亮



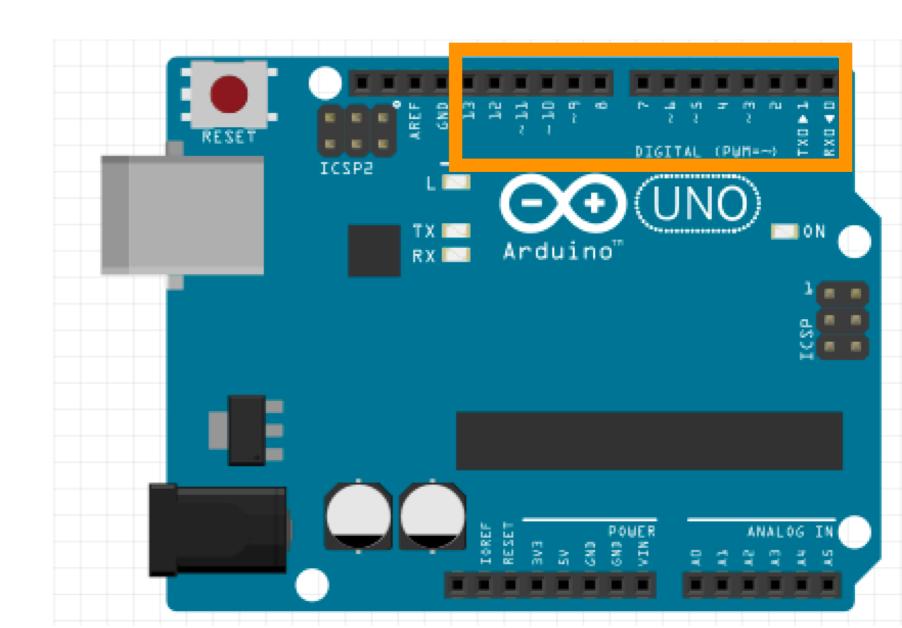
Lab 02

Goal: 讓LED閃



數位輸出

- 輸出 HIGH(5V) 或是 LOW(0V)
- D0 D13



Code

```
void setup() {
 // 先被執行,只執行一次
 // 初始化設定
void loop() {
 // setup之後執行
 // 不斷重複
```

Code

```
void setup() {
 pinMode(13, OUTPUT); //設定腳位13為輸出
void loop() {
 digitalWrite(13, HIGH); //腳位13輸出5V, LED亮
                       //等1000毫秒
 delay(1000);
 digitalWrite(13, LOW); //腳位13輸出0V, LED暗
                       //等1000毫秒
 delay(1000);
```

Try

Goal: 讓LED長亮、長亮、短亮

Goal: 讓兩顆LED交替亮

Goal: 讓兩顆LED亮暗模式不同

Lab 03

Goal: 霹靂燈

燈會由左到右再由右到左一顆一顆亮

