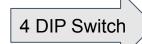
MPSL2020

Lab3

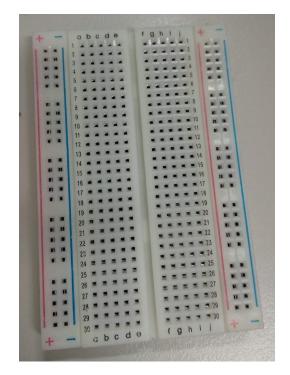
Components of lab

- Breadboard
- 4DIP Switch
- 1K Ω Network Resistor *1
- LED *4
- 220 Ω resistor *4





Breadboard



1k Ω Network resistor





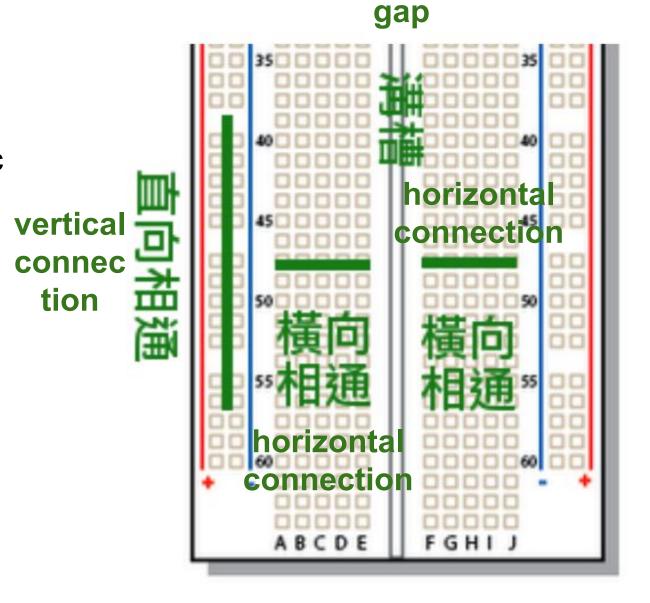
220 Ω resistor *4





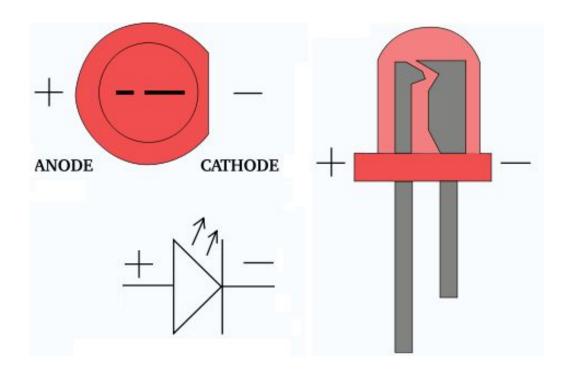
Breadboard

- Easy to connect electronic components
- Please be careful when plugging and unplugging

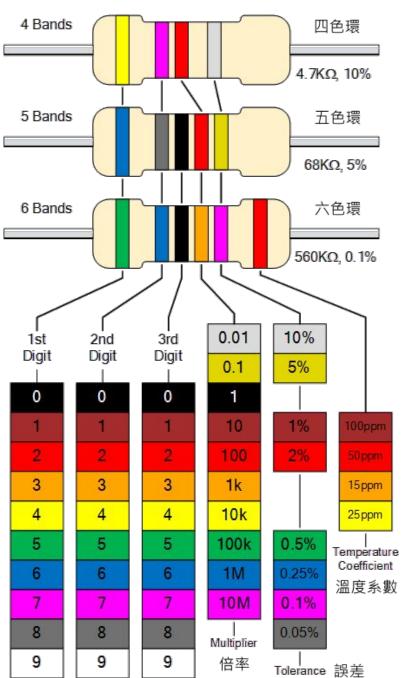


Resistor and LED

- mark resistor value by colour code
- the long pin of LED is positive (+)



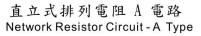
電阻色碼表 The Standard Resistor Colour Code Chart

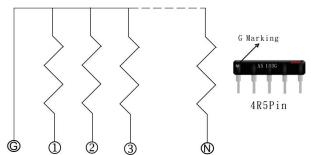


Network resistor 排列電阻

- many resistors in it
- mark resistor value by number, e.g : $102=10*10^2$ = 1K Ω

network resistor naming			
circuit type	number of pins	resistor value	difference
 A: all resistors share one pin (leftmost) B: each resistor has its own independent pin 	4 ~ 14	three-digital first and second digital are valid number and third digital is number of zero after valid number	 F: ±1% G: ±2% J: ±5%





Our network resistor name is "A 102 J". The "A" means all resistors share one pin. 102 means 1K Ω

Negative logic and Positive logic

- logic can mean to the logical level received by the CPU when a component "action" or "trigger"
- Positive logic or Active High
 - When component actions, CPU receives High level ("1")
- Negative logic or Active Low
 - When component actions, CPU receives Low level ("0")

