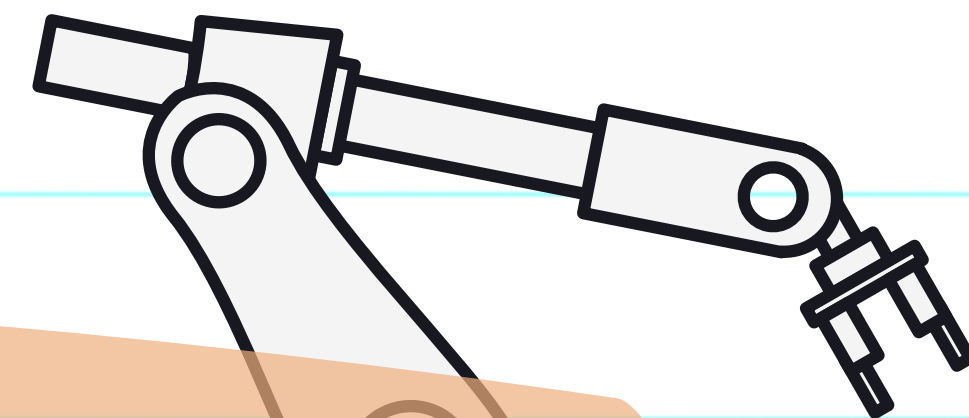
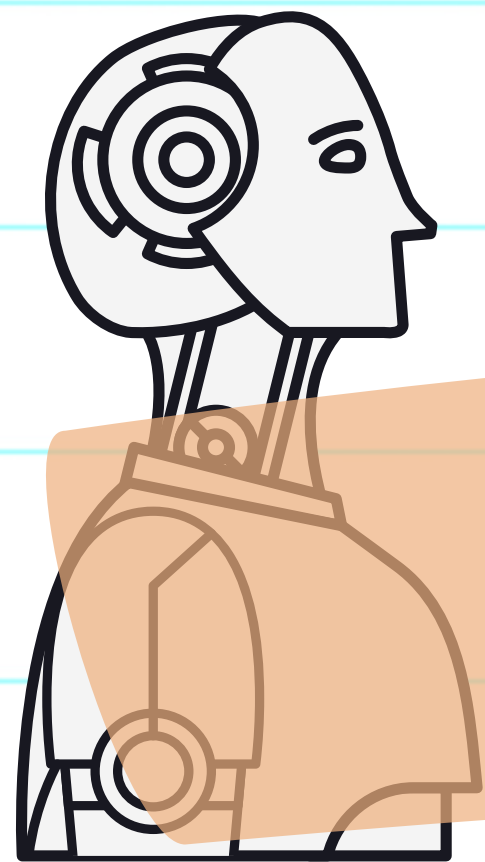
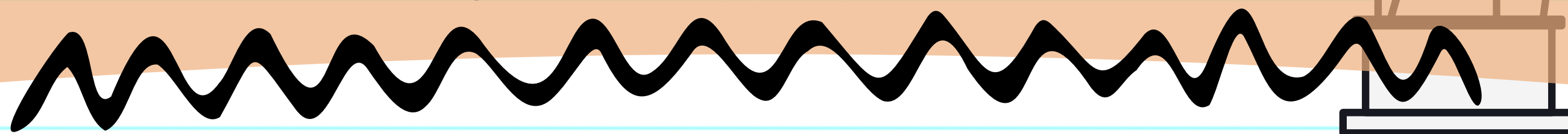




AUXILIAR 1



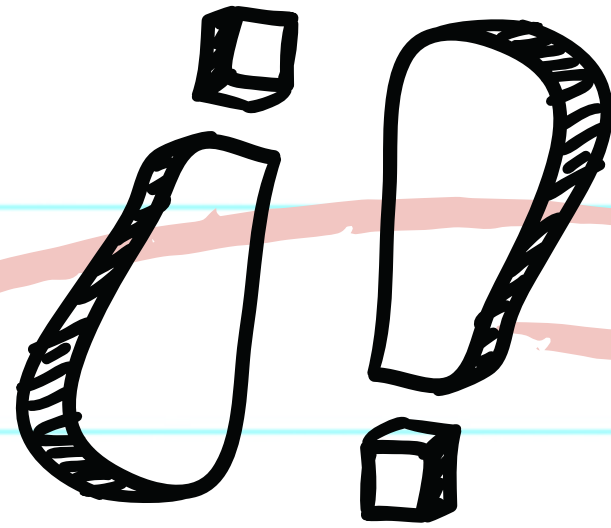
Profesora: Carolina Silva

Auxiliares: Makarena Torres - Francisco Cáceres

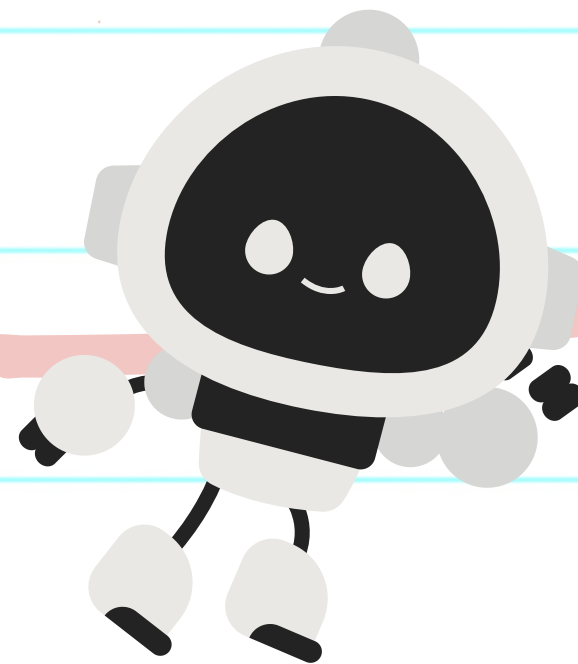
Ayudantes: Nicole Ortiz - Randy Bartolo - Fernando

Navarrete

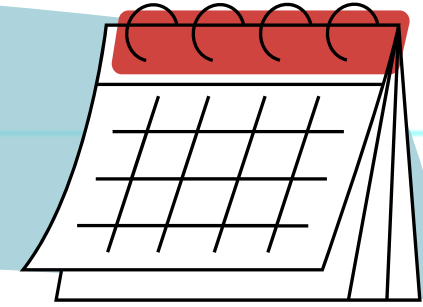




PRESENTACIÓN E INTRODUCCIÓN



CALENDARIO AUXILIAR



Agosto

ARDUINO 101

Septiembre

SOLDADURA 101

Octubre

**SENSORES Y
AVANCES**

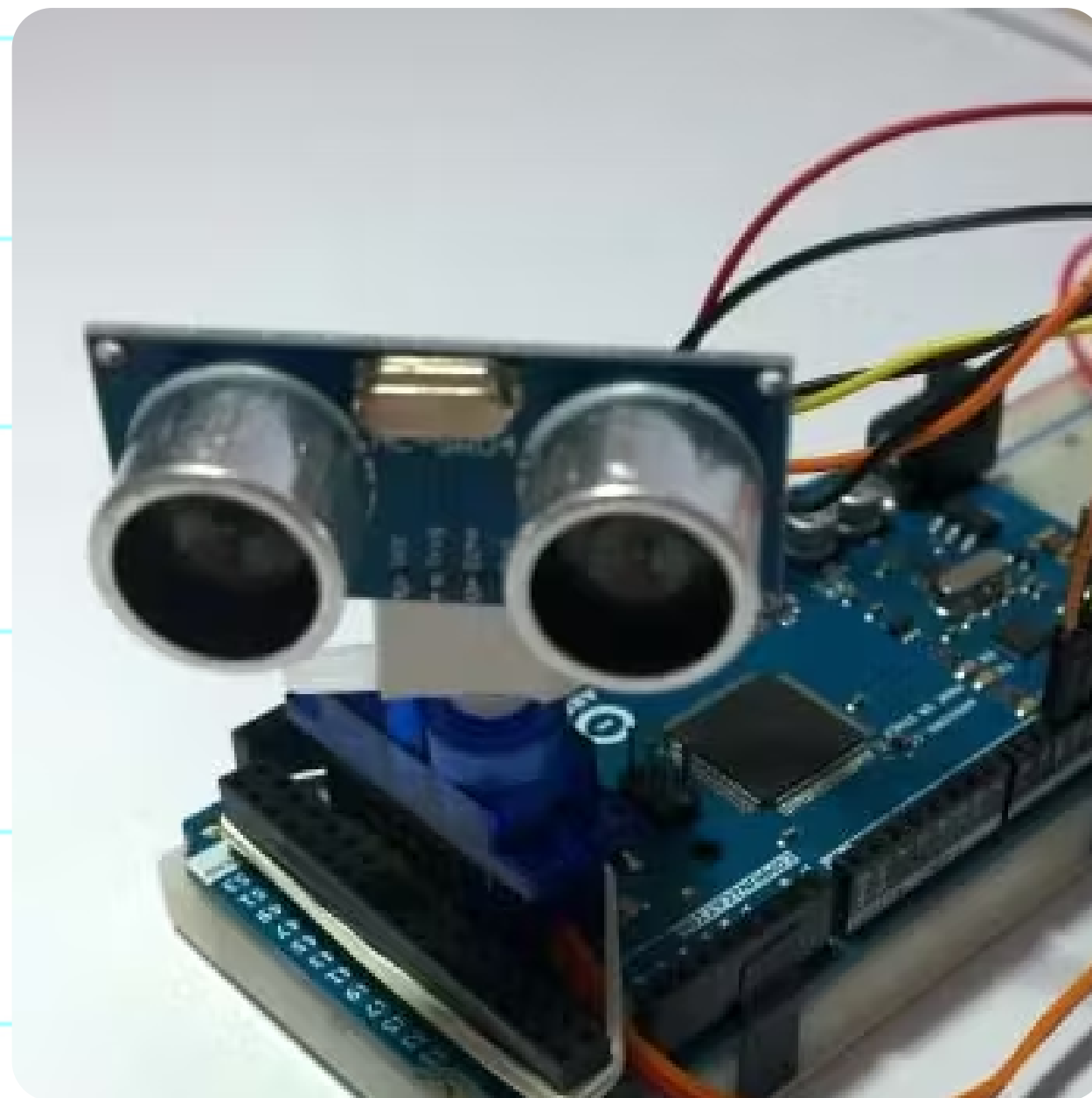
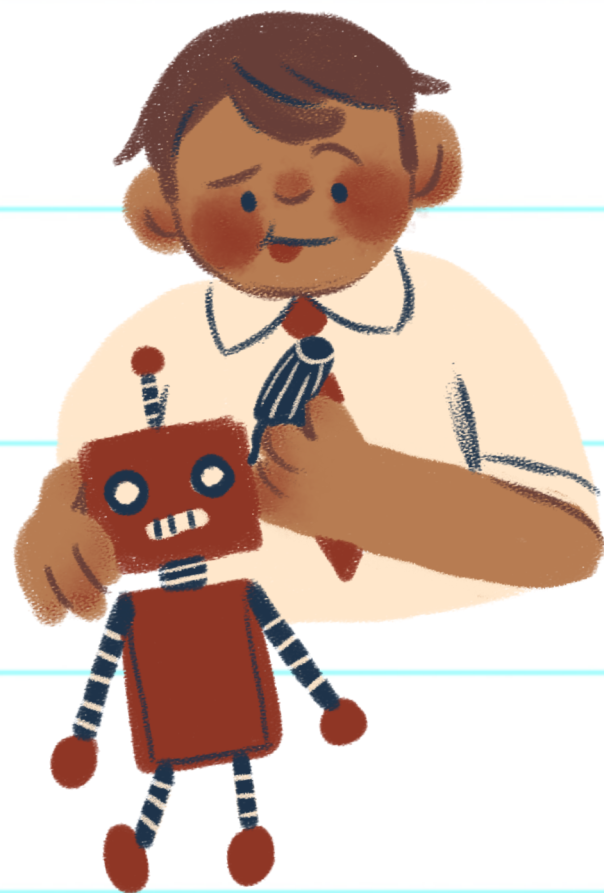
Noviembre

**CONTROL
AUTOMÁTICO**

Diciembre

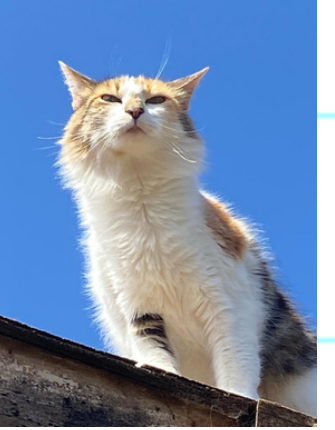
**PRESENTACIÓN
FINAL**

MOTIVACIÓN

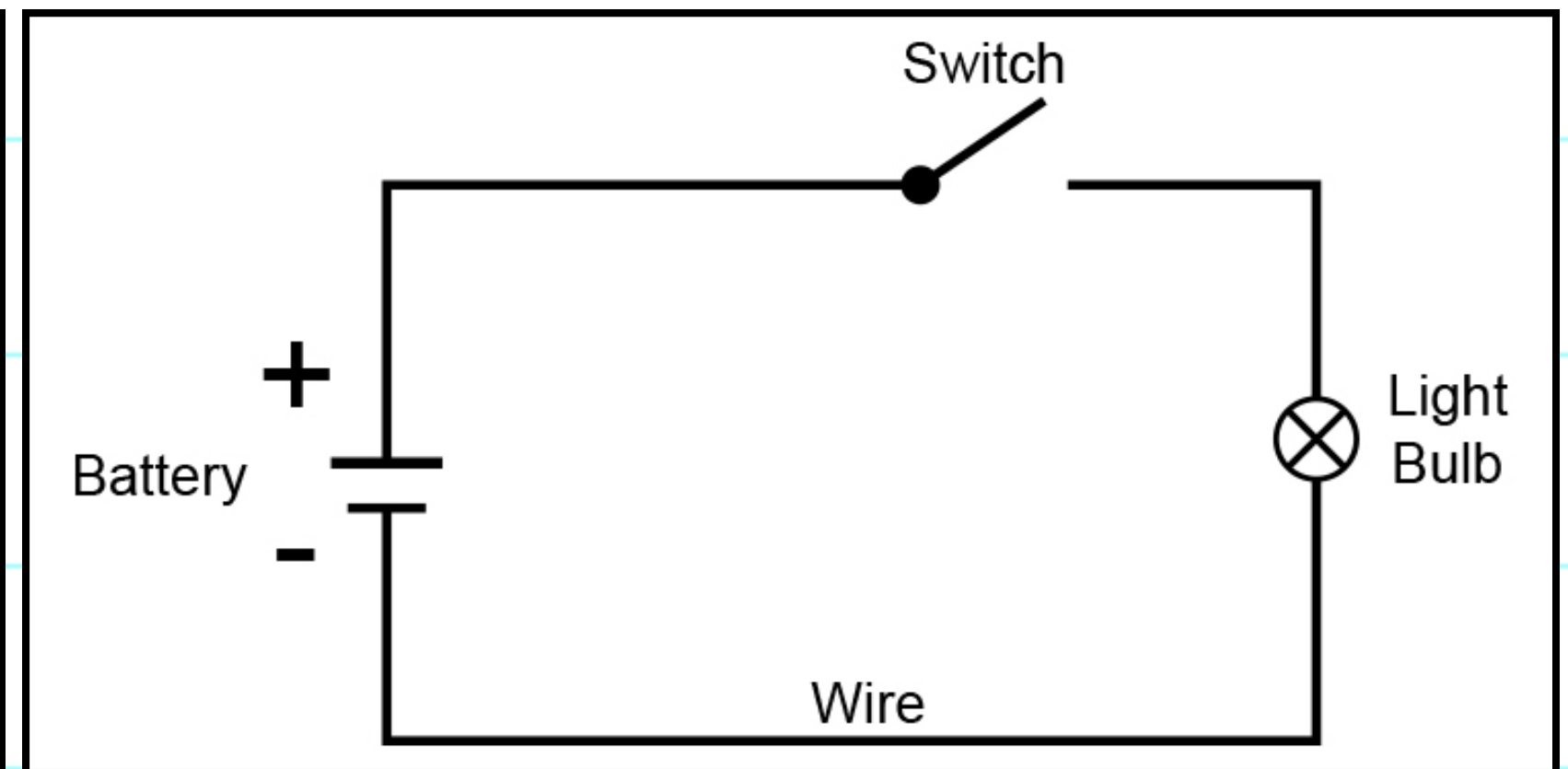
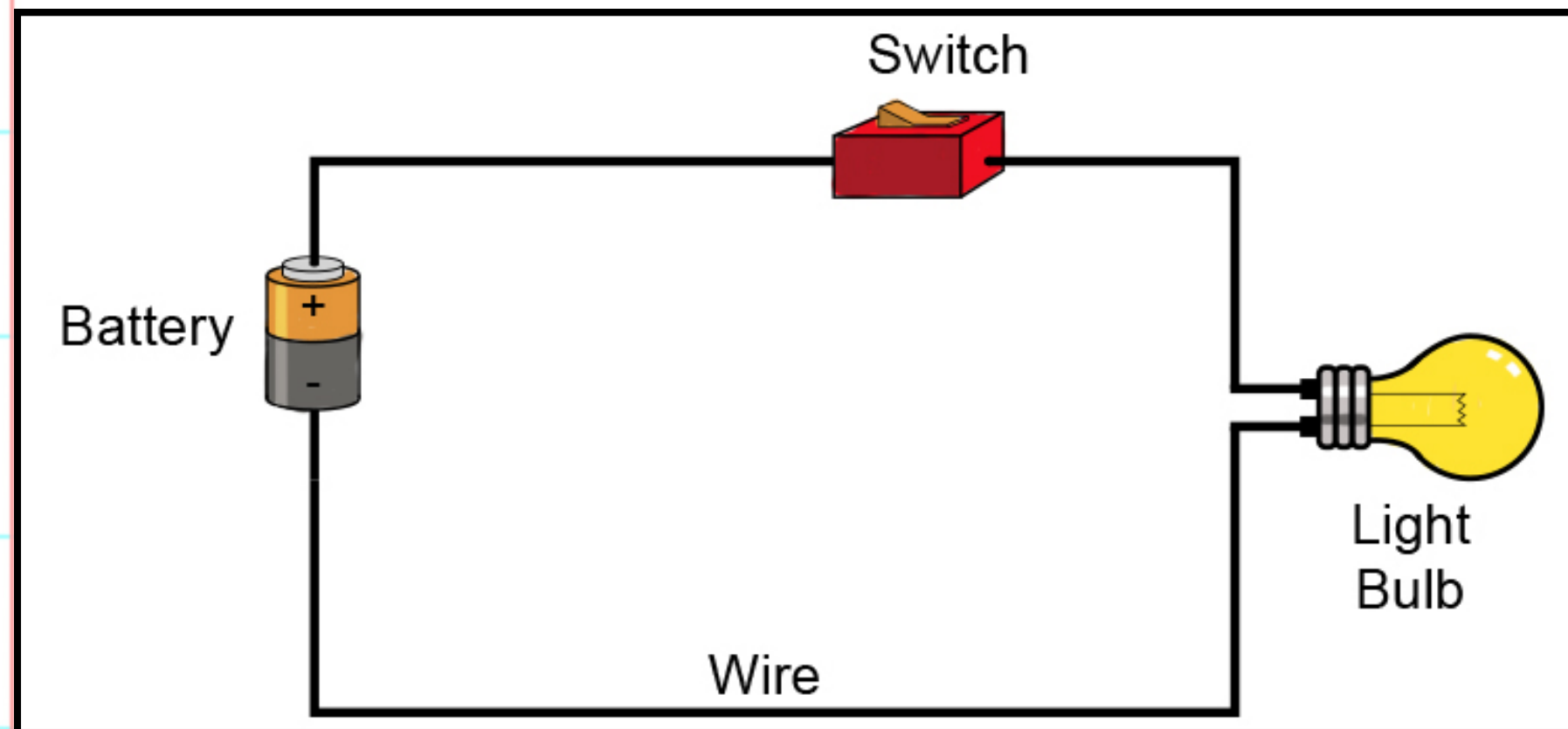
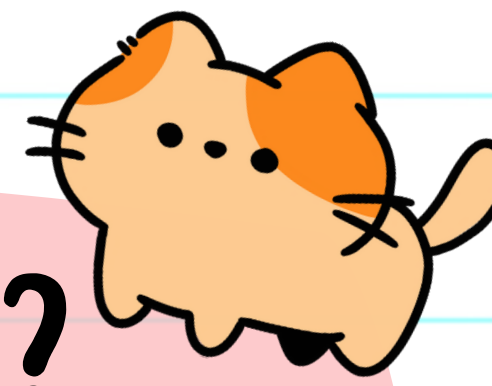




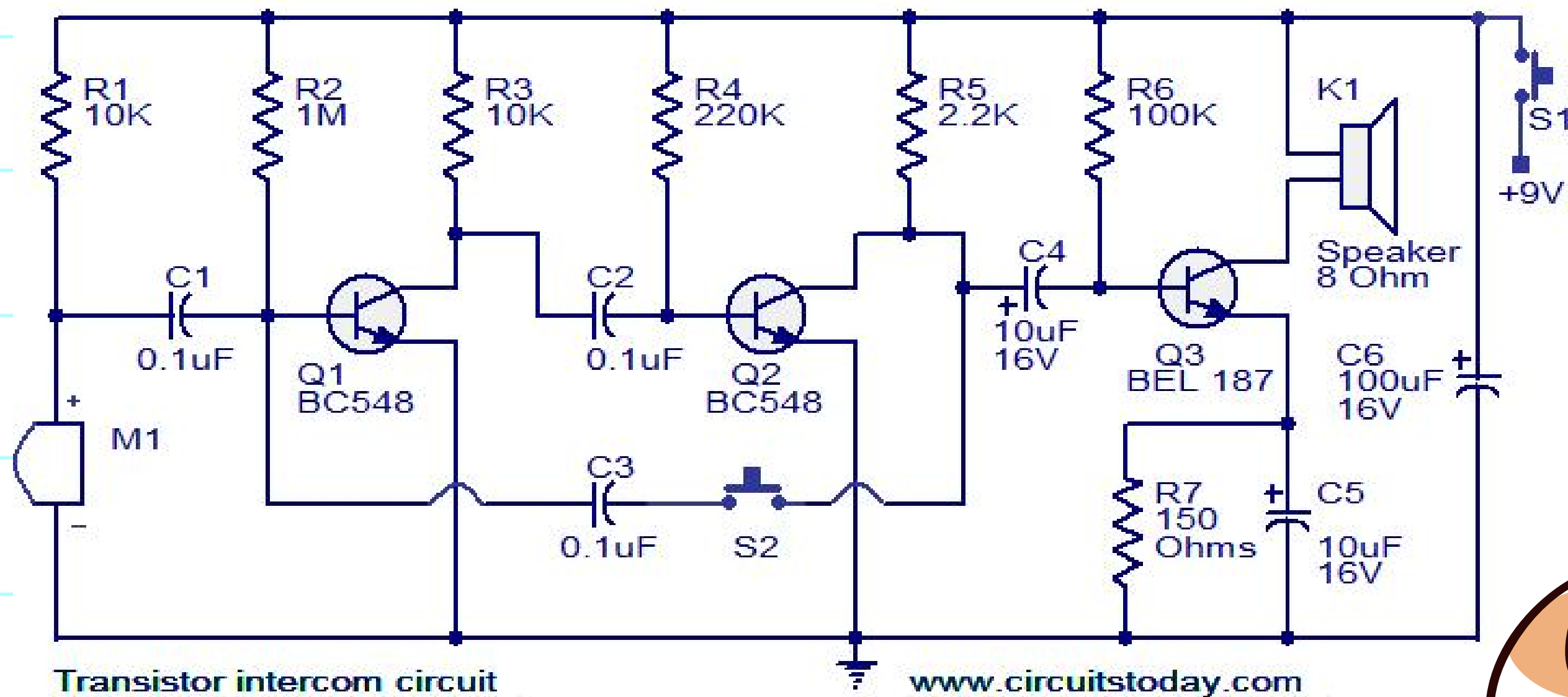
MOTIVACIÓN



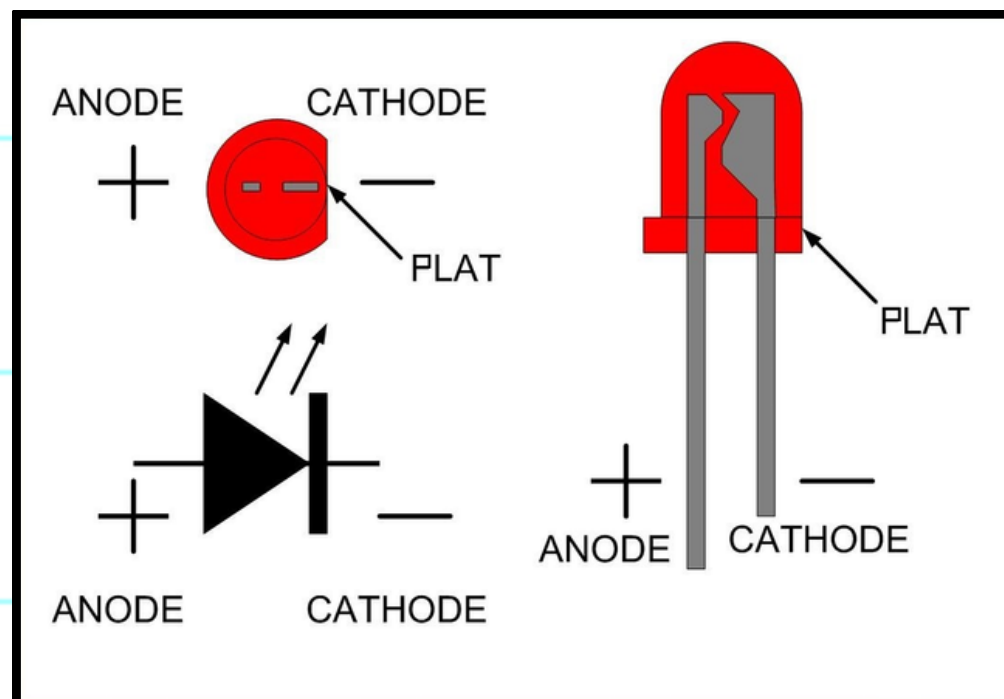
¿QUÉ ES UN CIRCUITO?



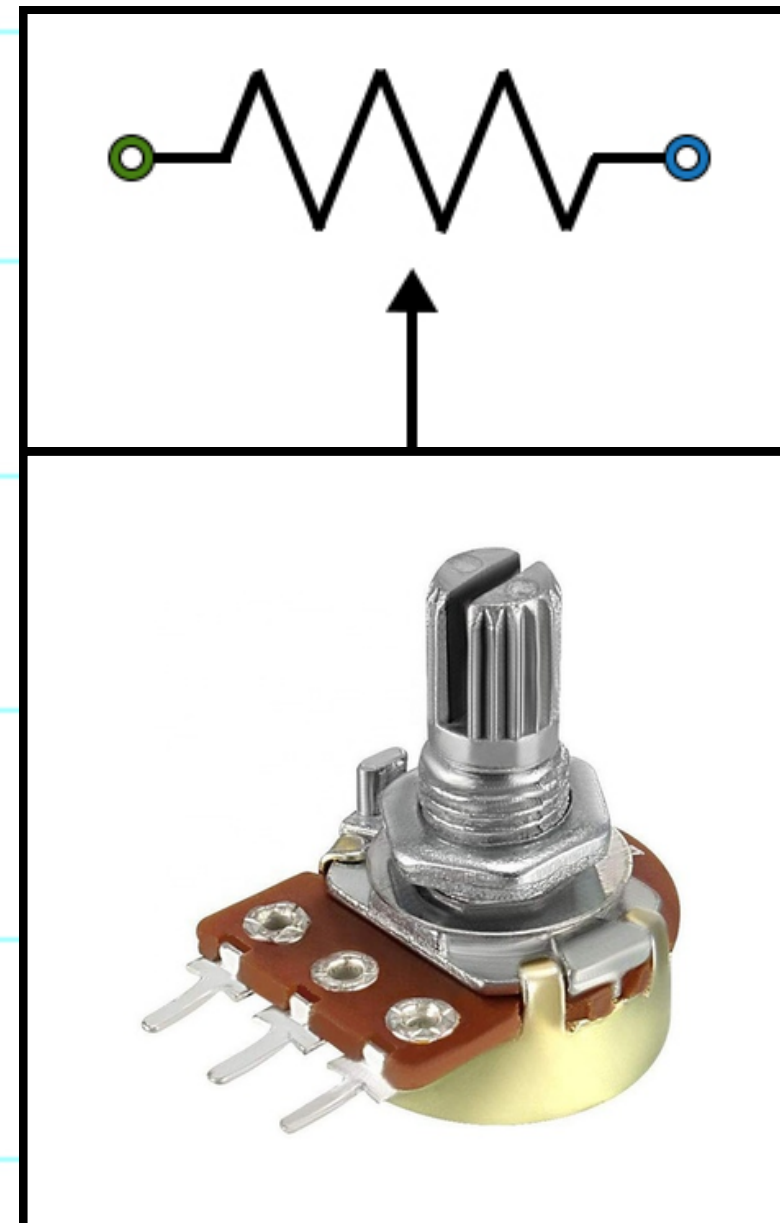
¿QUÉ ES UN CIRCUITO?



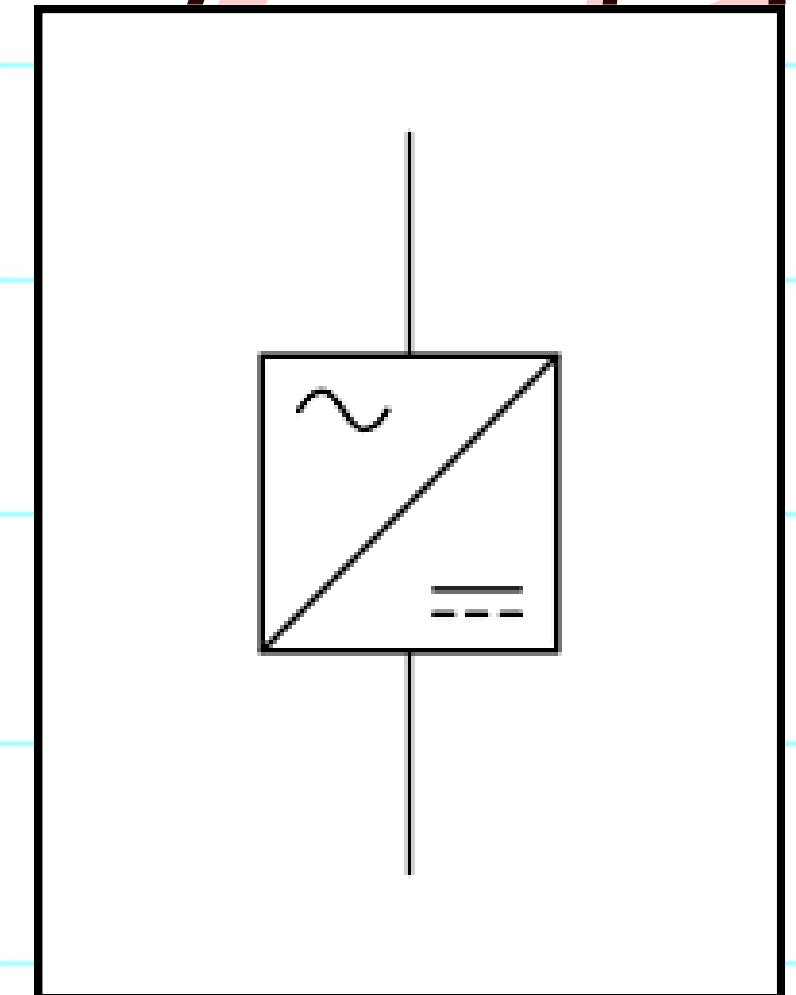
COMPONENTES



LED



POTENCIÓMETRO



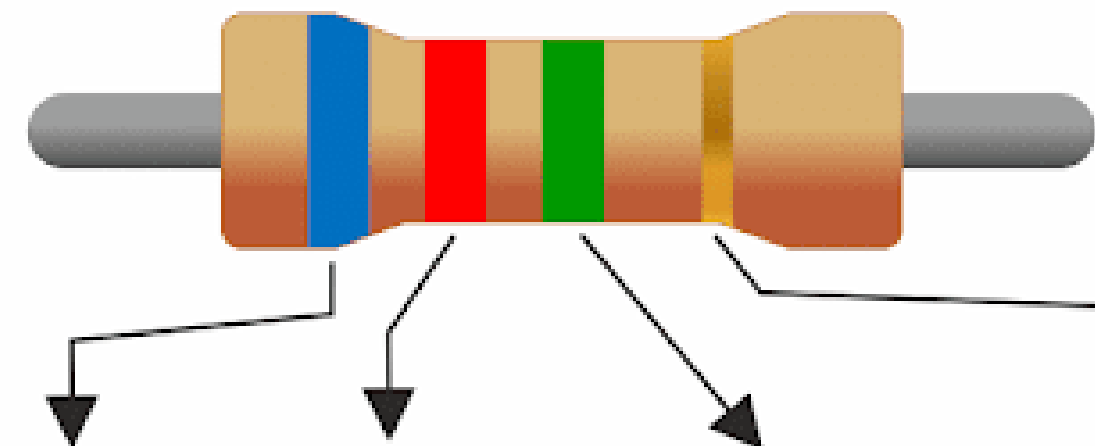
FUENTE DE PODER

COMPONENTES

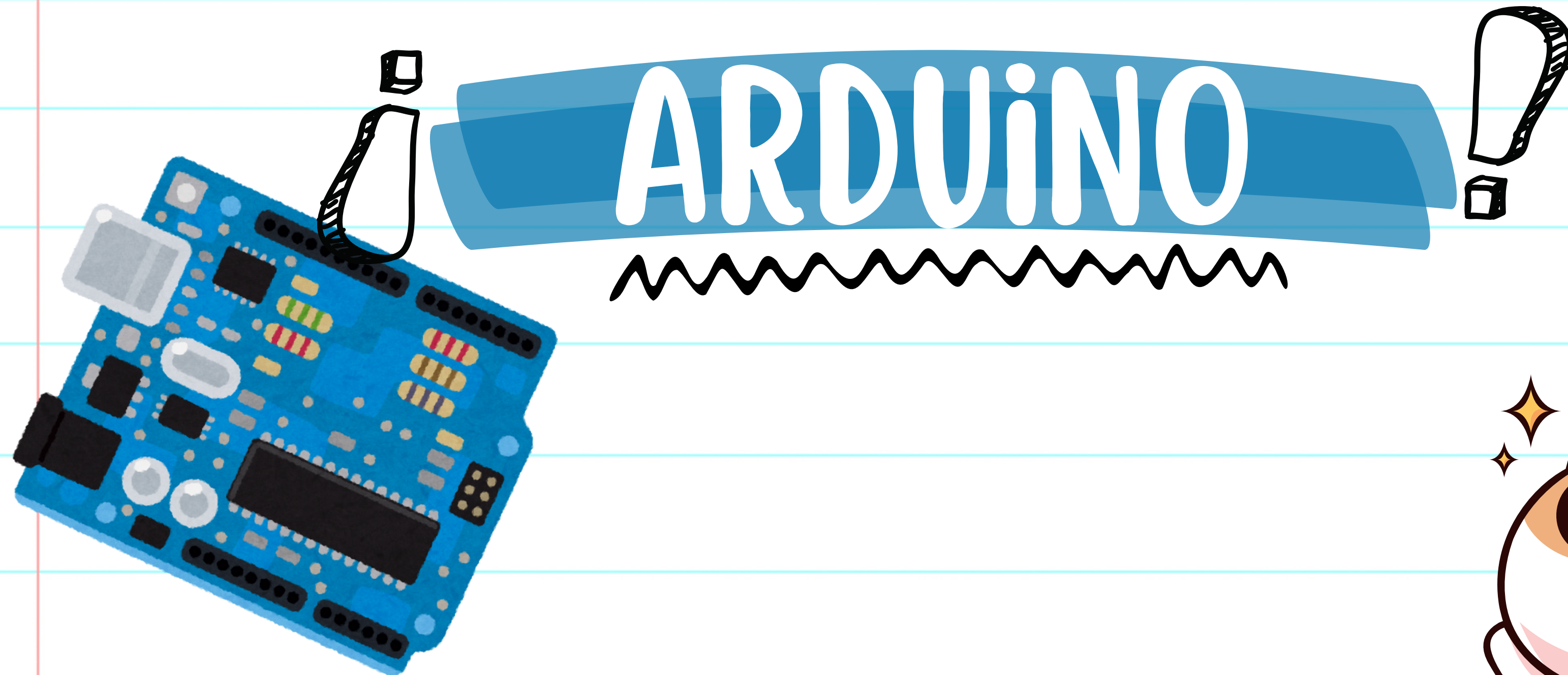
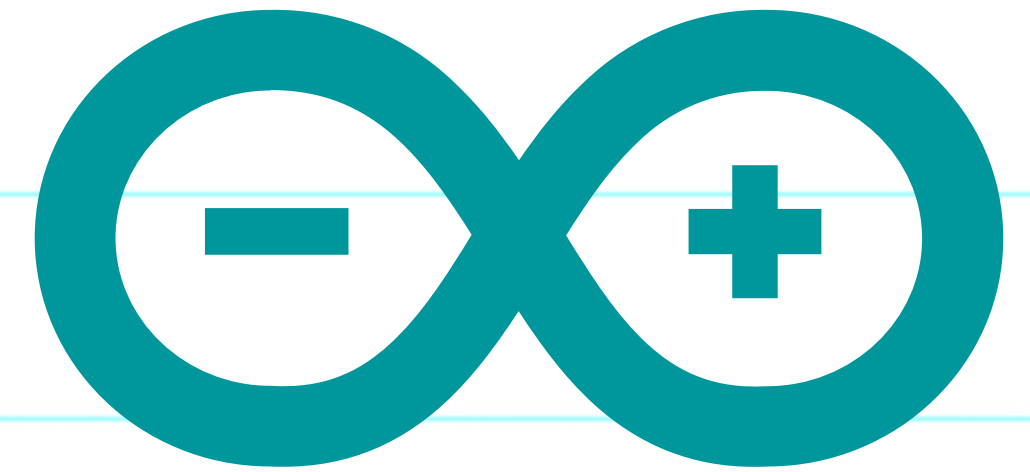


RESISTENCIA

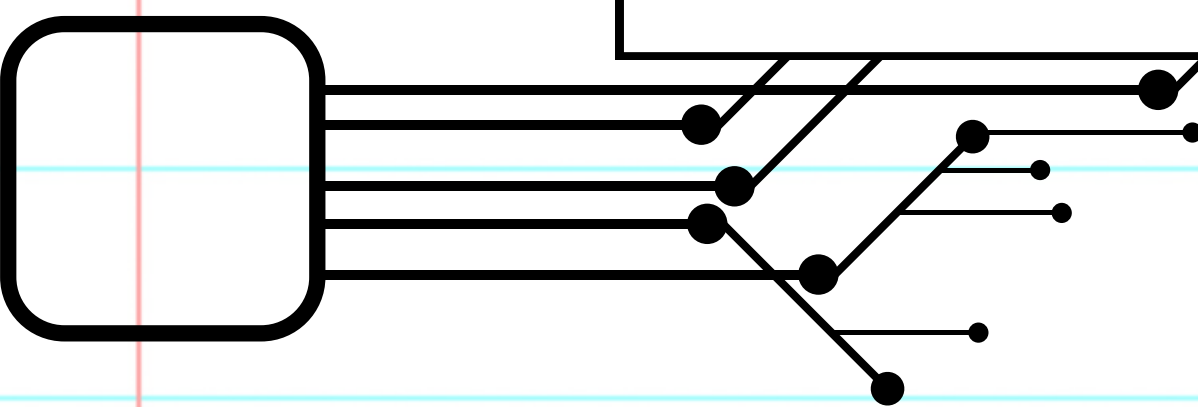
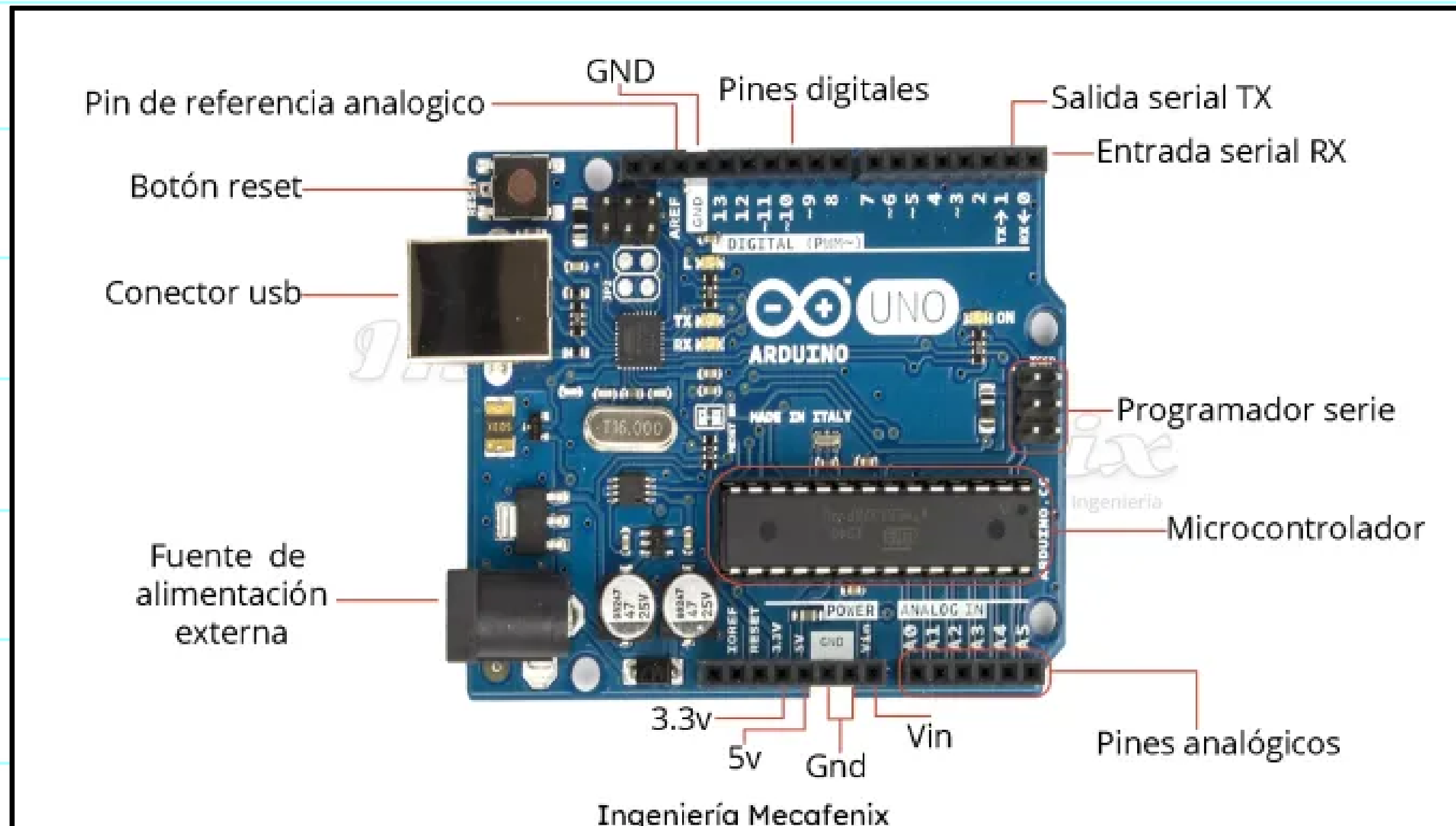
CÓDIGO DE COLORES PARA RESISTENCIAS CON 4 BANDAS



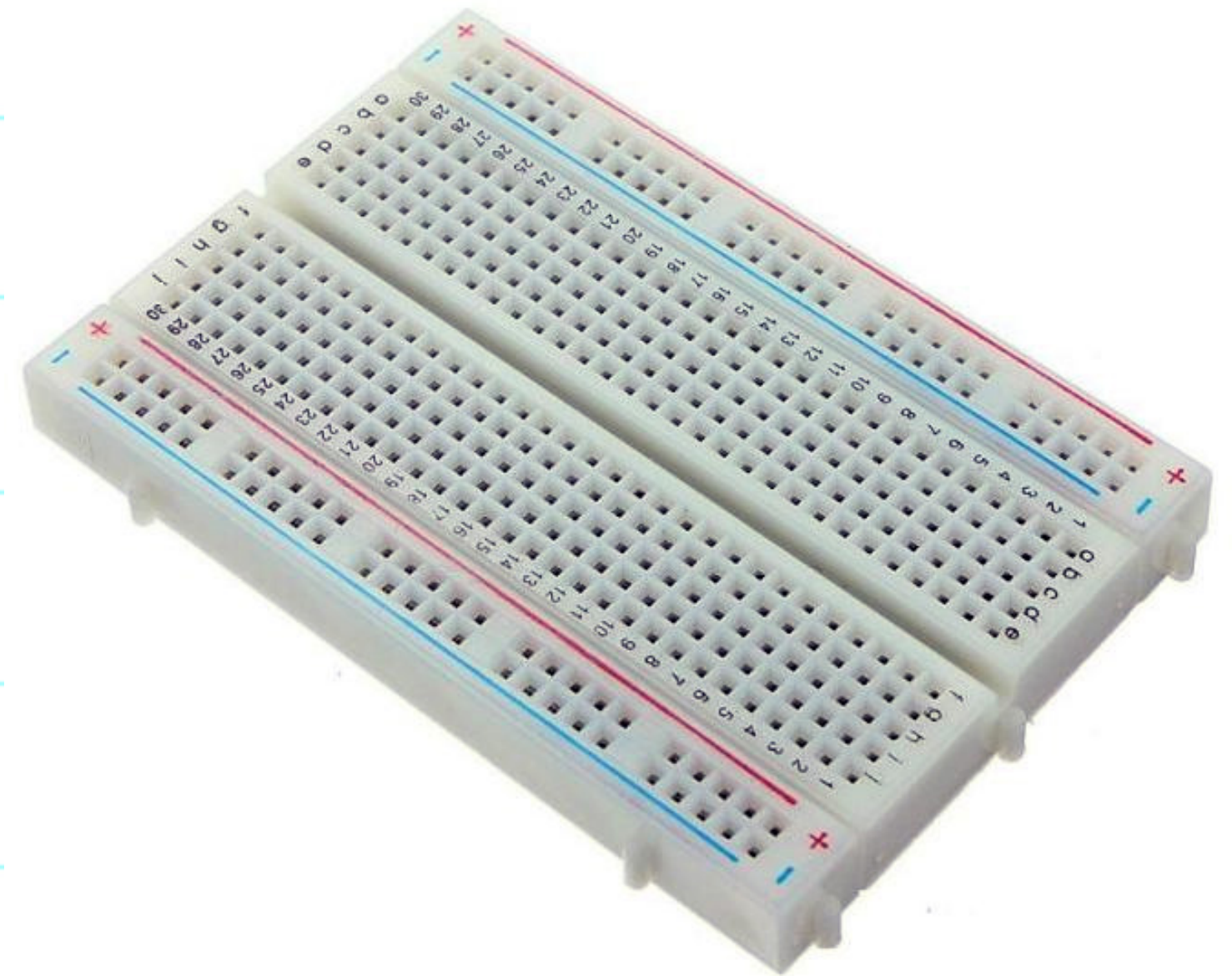
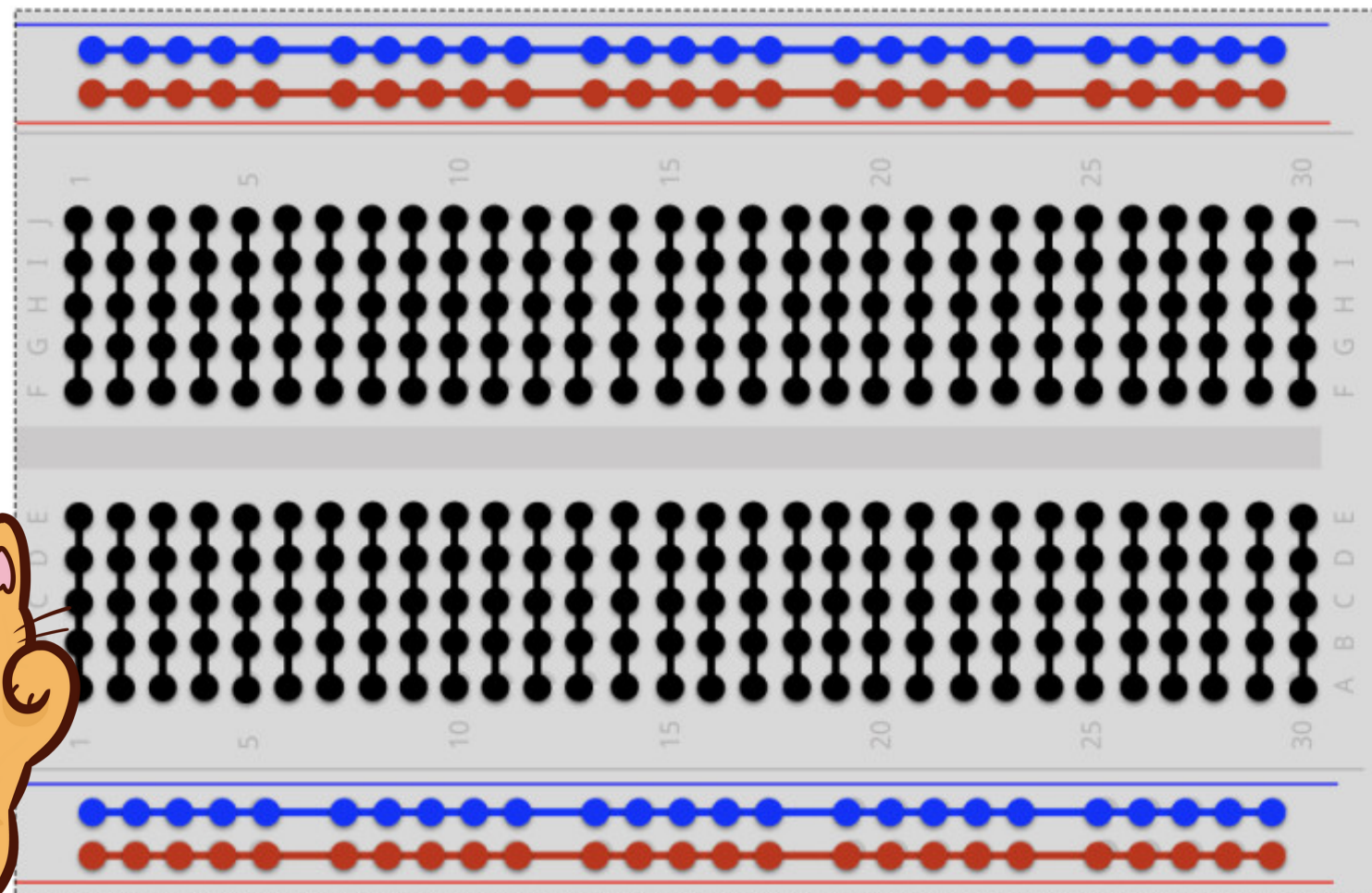
COLOR	BANDA 1	BANDA 2	MULTIPLICADOR	TOLERANCIA
NEGRO	0	0	x 1 Ω	
MARRÓN	1	1	x 10 Ω	+ / - 1%
ROJO	2	2	x 100 Ω	+ / - 2%
NARANJA	3	3	x 1000 Ω	
AMARILLO	4	4	x 10,000 Ω	
VERDE	5	5	x 100,000 Ω	
AZUL	6	6	x 1,000,000 Ω	
VIOLETA	7	7	x 10,000,000 Ω	
GRIS	8	8	x 100,000,000 Ω	
BLANCO	9	9	x 1,000,000,000 Ω	
DORADO			x 0,1 Ω	+ / - 5%
PLATEADO			x 0,01 Ω	+ / - 10%
SIN BANDA				+ / - 20%



ARDUINO

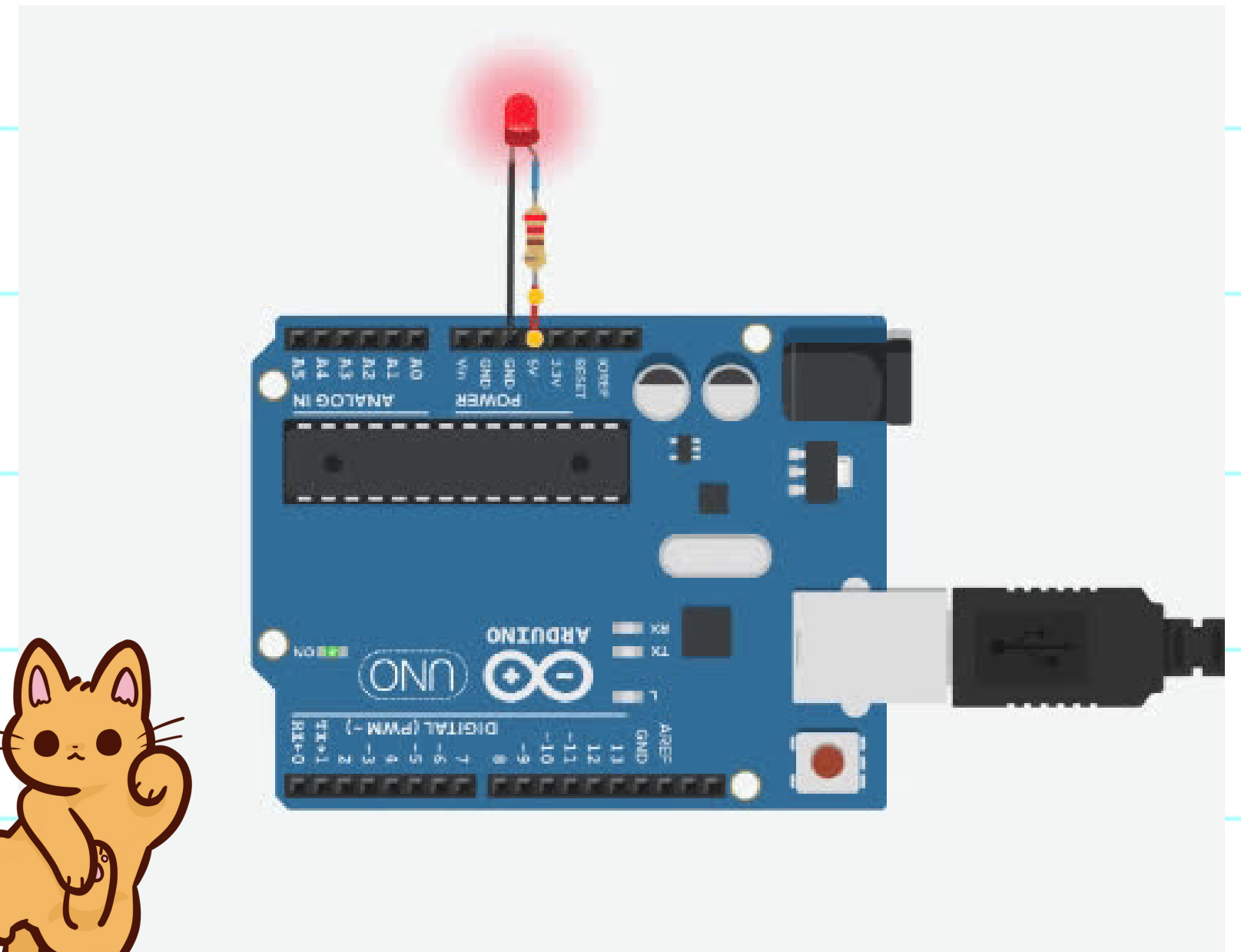
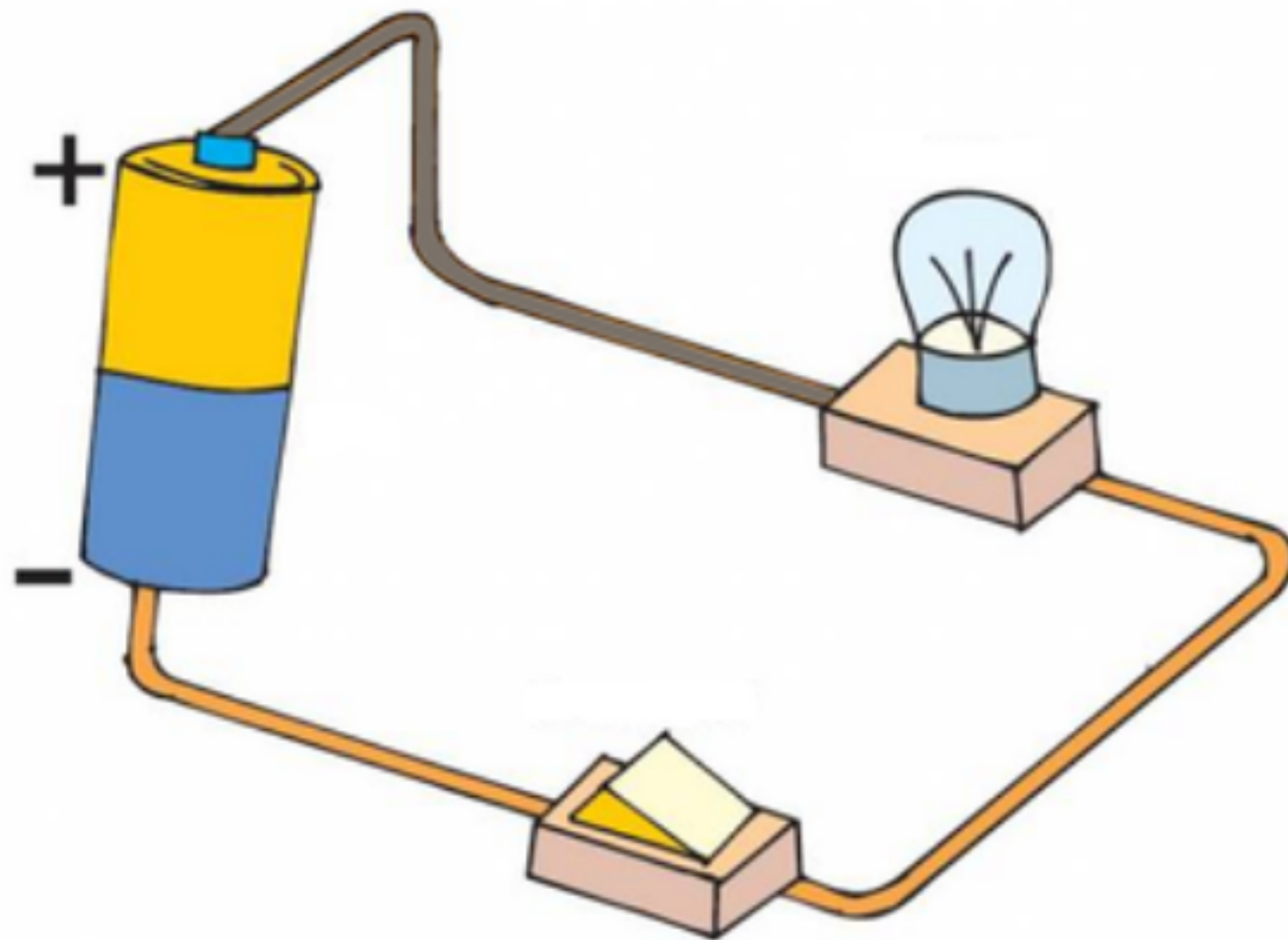


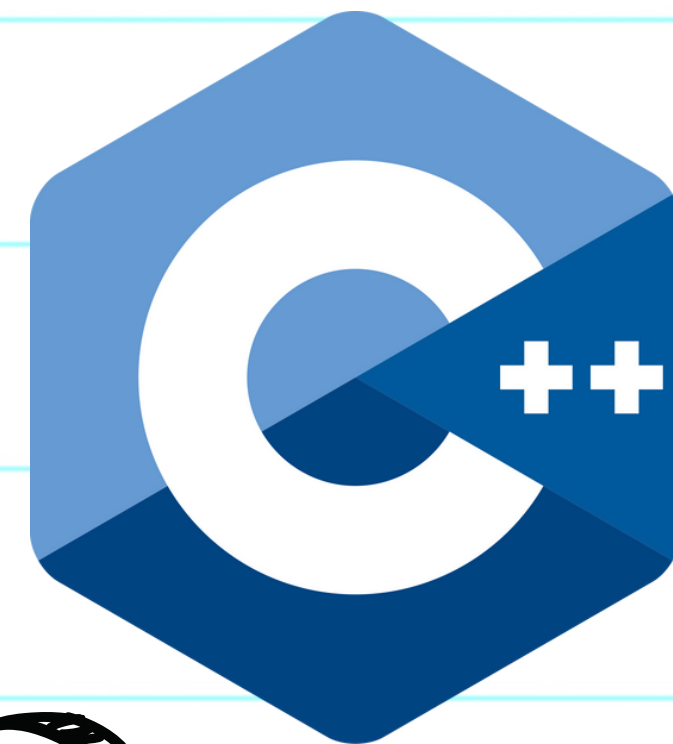
PROTOBOARD



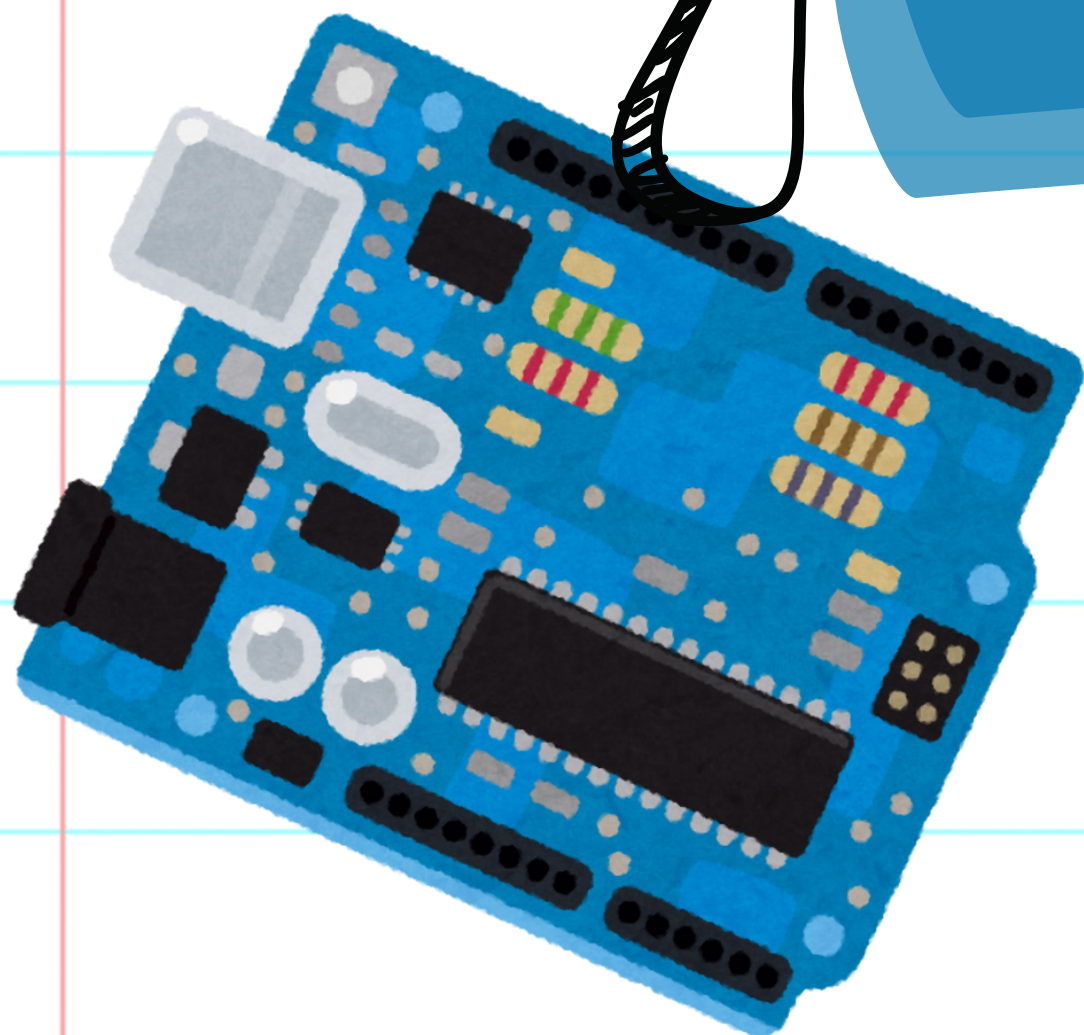
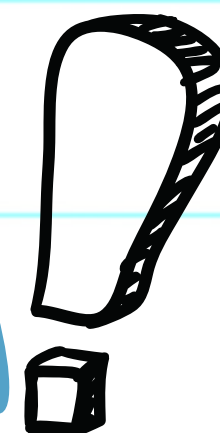
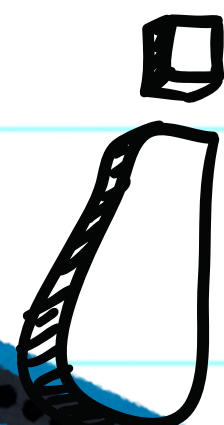
fritzing

CiRCUiTO BÁSiCO





LENGUAJE



BÁSICOS

USO ADECUADO DE CARACTERES

```
void ejemplo() {  
    for(int i=0; i <= algo; i++){  
        pasa_algo;  
        pasa_esto_tambien;  
    }  
}
```



BÁSICOS

VARIABLES

```
1  int micro;  
2  int a = 0;  
3  double lvl;  
4  int pixeles = 20;  
5  int max = 750;  
6  int min = 400;  
7  float niveles = (max-min)/10;  
8  int trig = 12;  
9  int eco = 11;  
10 int duracion;  
11 int distancia;  
12 int estado = 0;  
13 int estant = 0;  
14 int i = 0;  
15 int rotacion = 256;
```

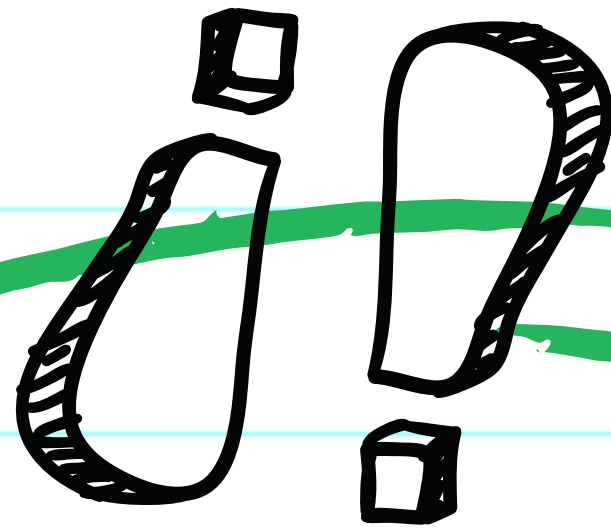


BÁSICOS

ESTRUCTURA

```
void setup() {  
  // put your setup code here, to run once:  
}  
  
void loop() {  
  // put your main code here, to run repeatedly:  
}
```





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TINKERCAD[®]





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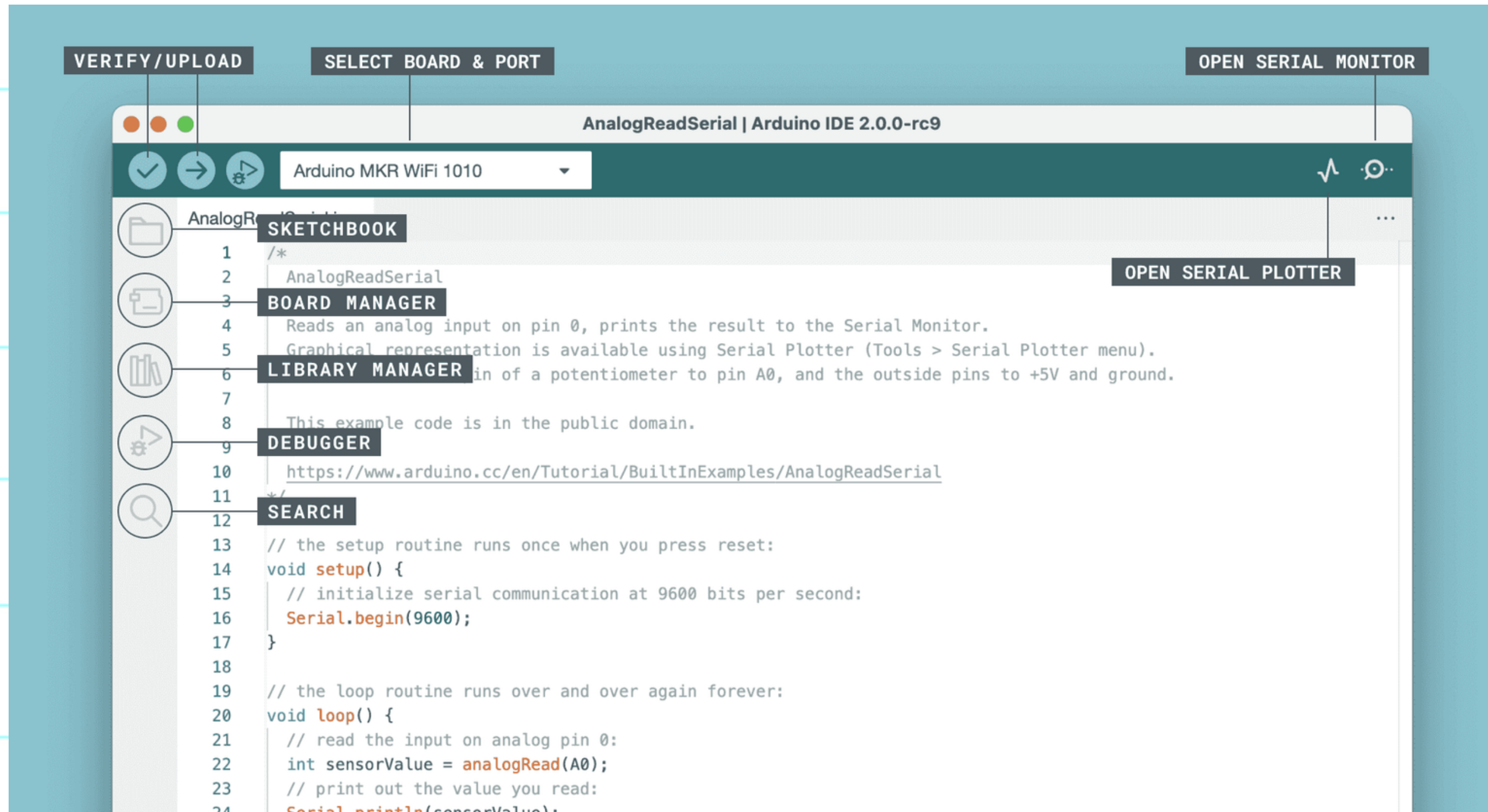
Únete a **Mecatrónica - ME4250** con un vínculo o introduce este código de clase:

EKW RD4 FQ5

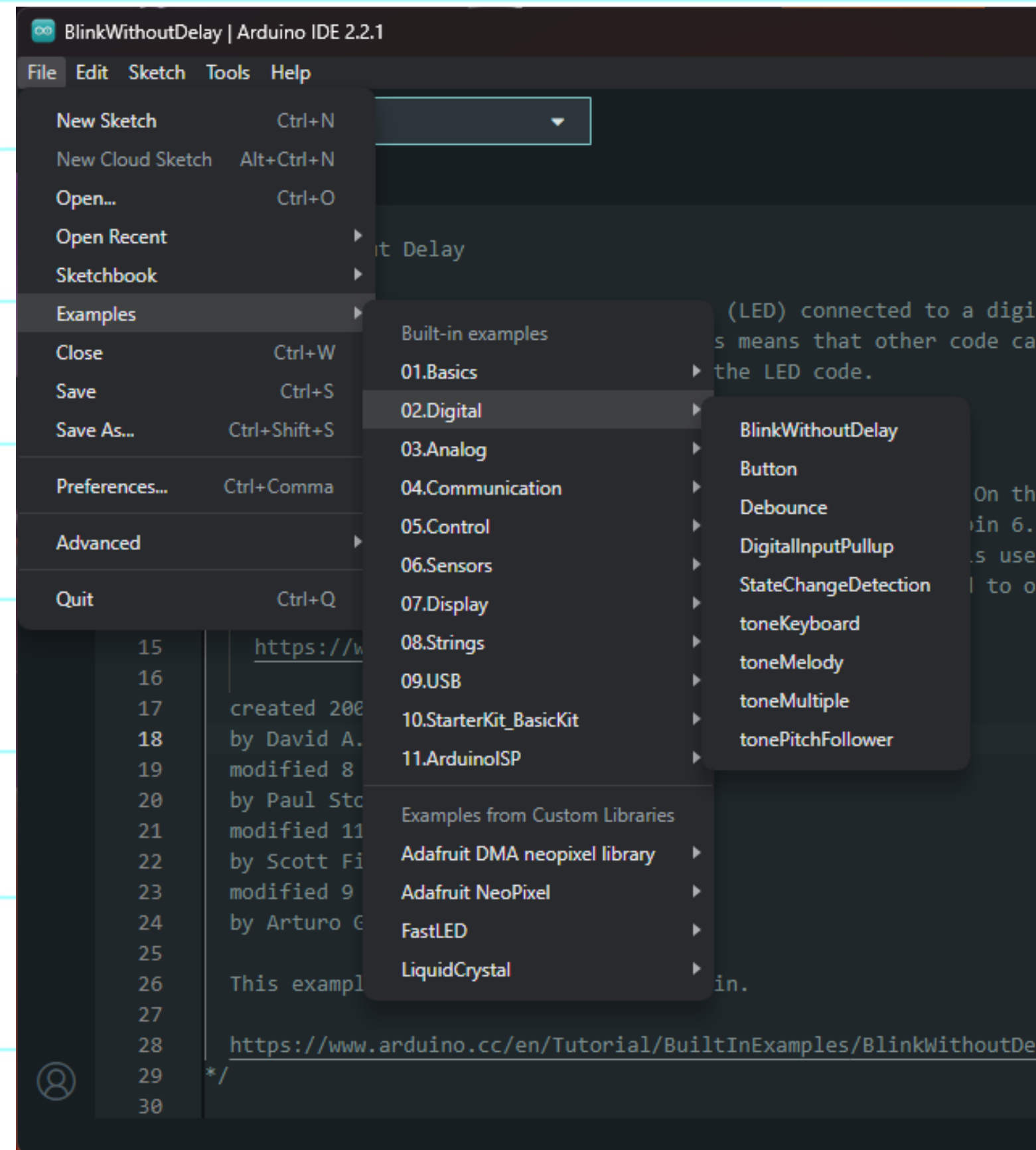
LINK

ARDUINO IDE

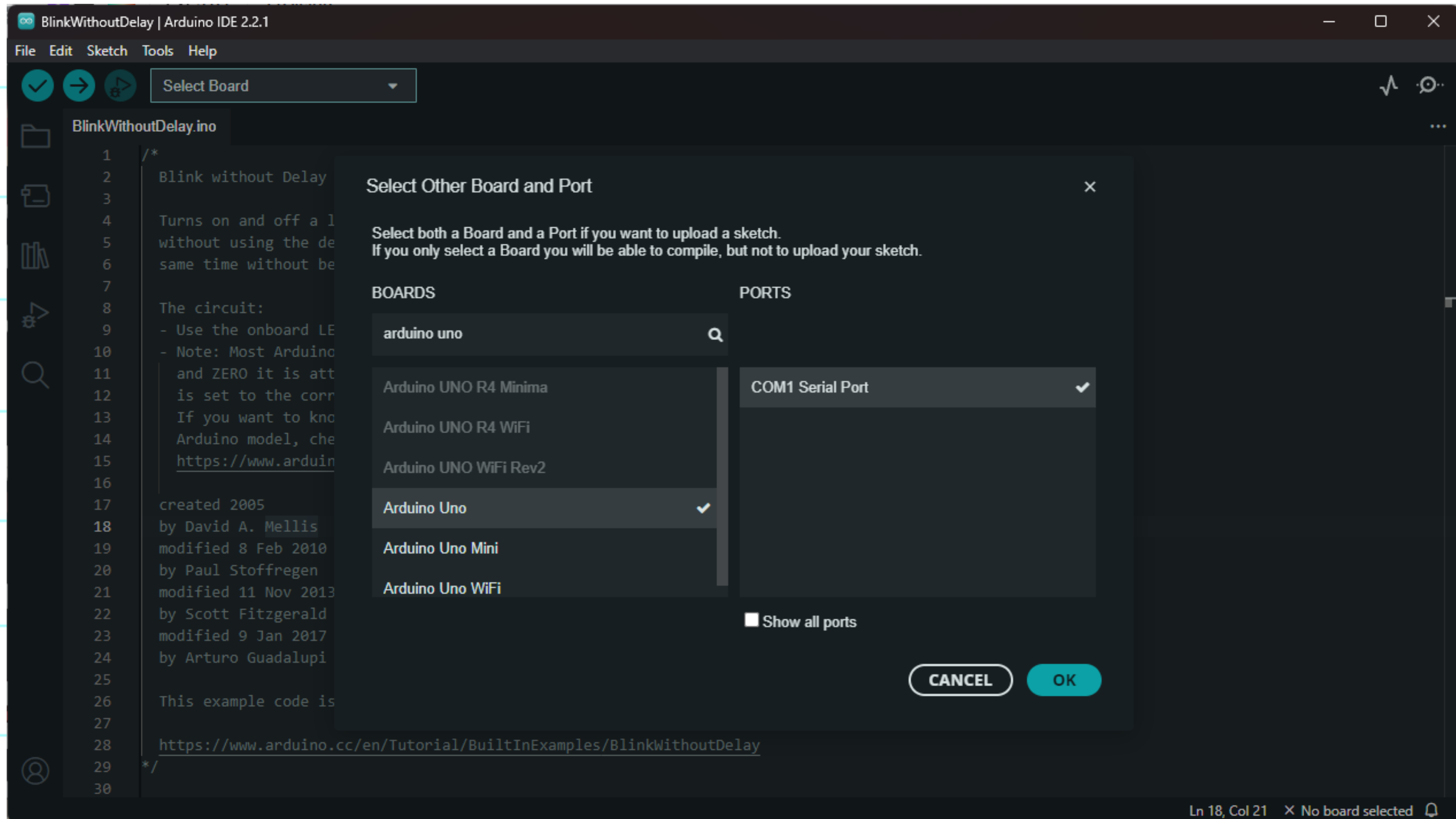
DESCARGA



ARDUINO IDE



ARDUINO IDE



¡GRACIAS!

