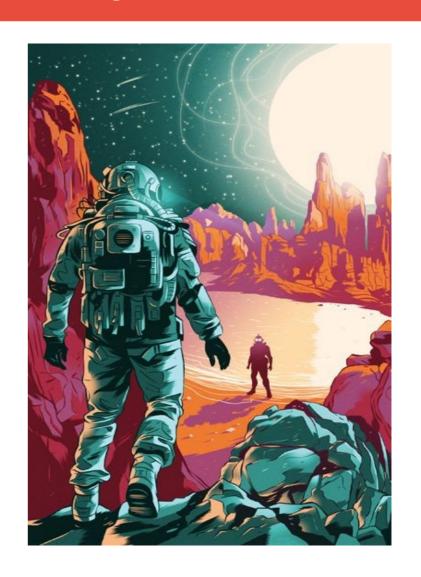
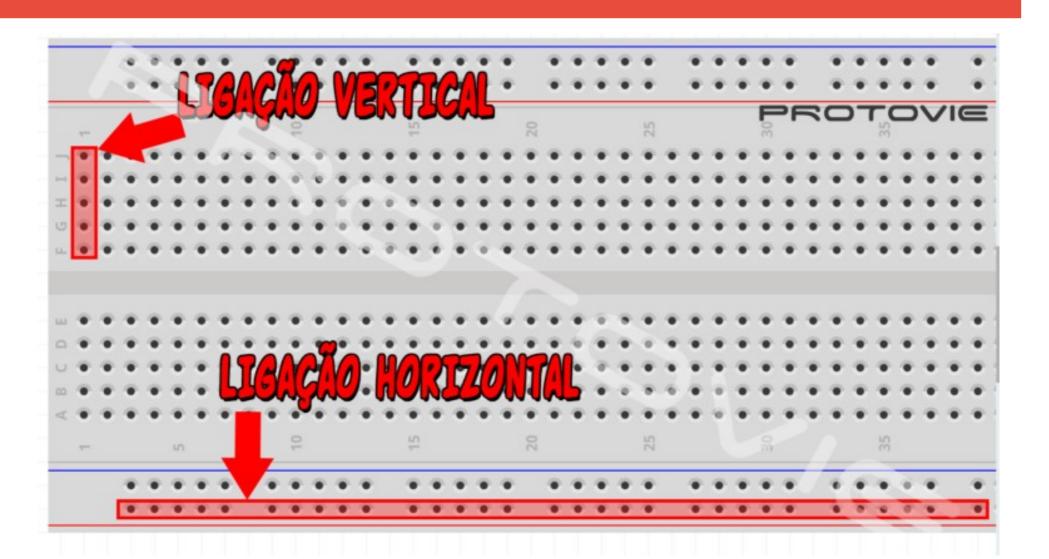
Curso de Arduino e automação

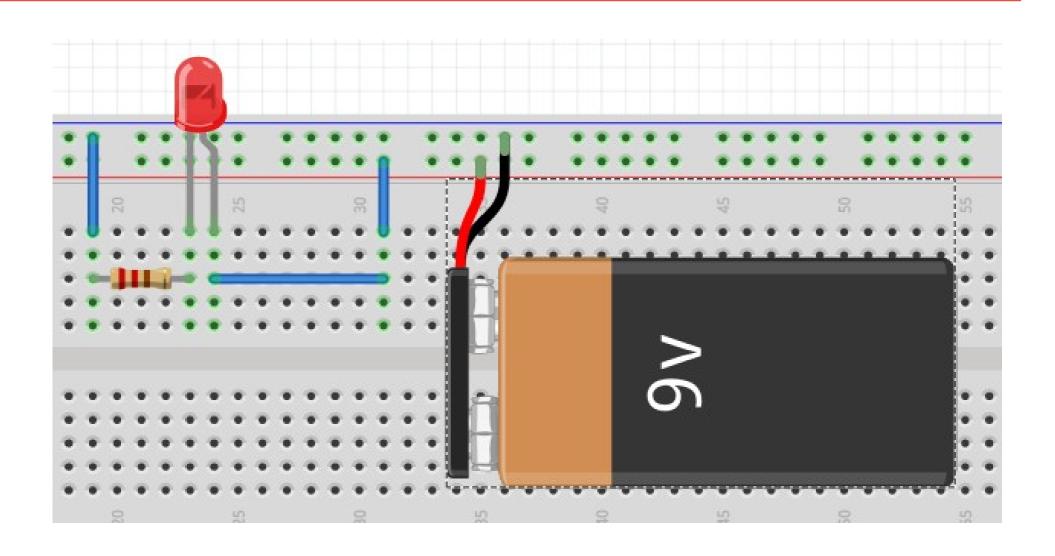
Professor Vanderlei

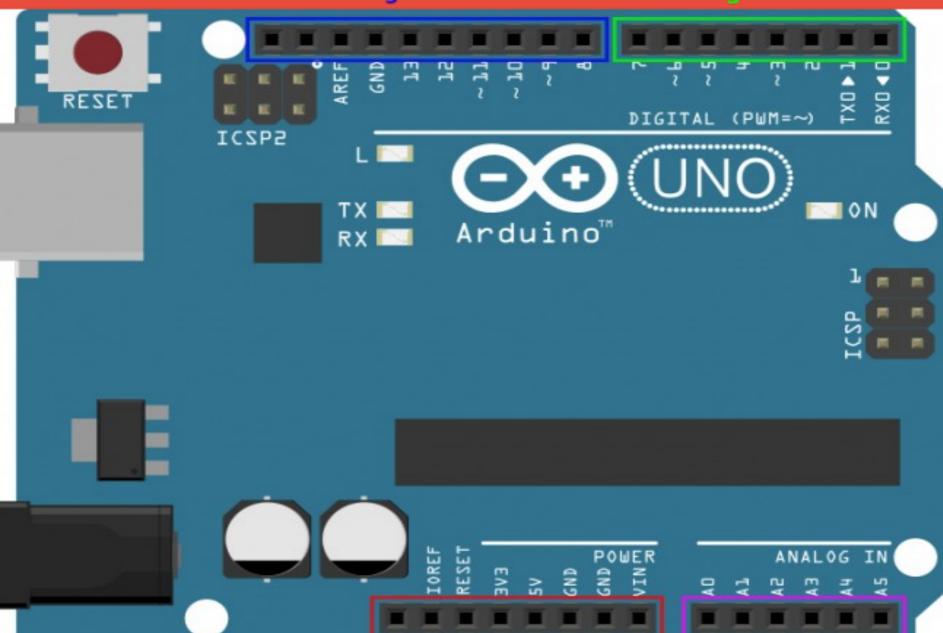
Licenciado em Matemática Universidade Metropolitana de Santos

Licenciado em Física Universidade de São Paulo



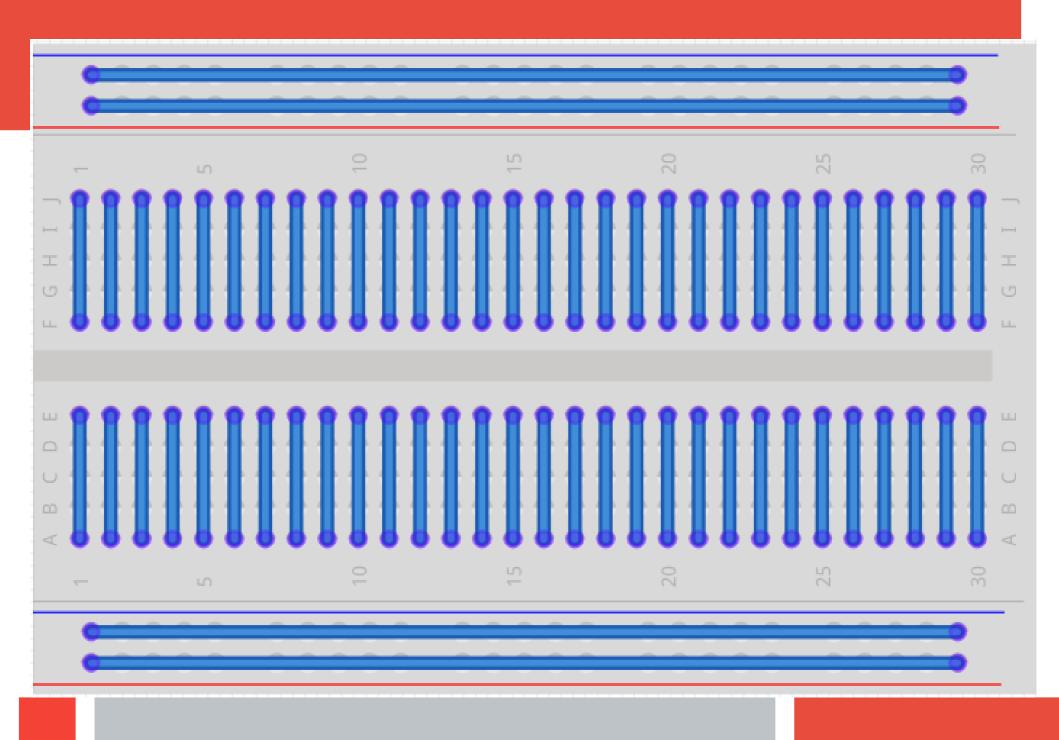


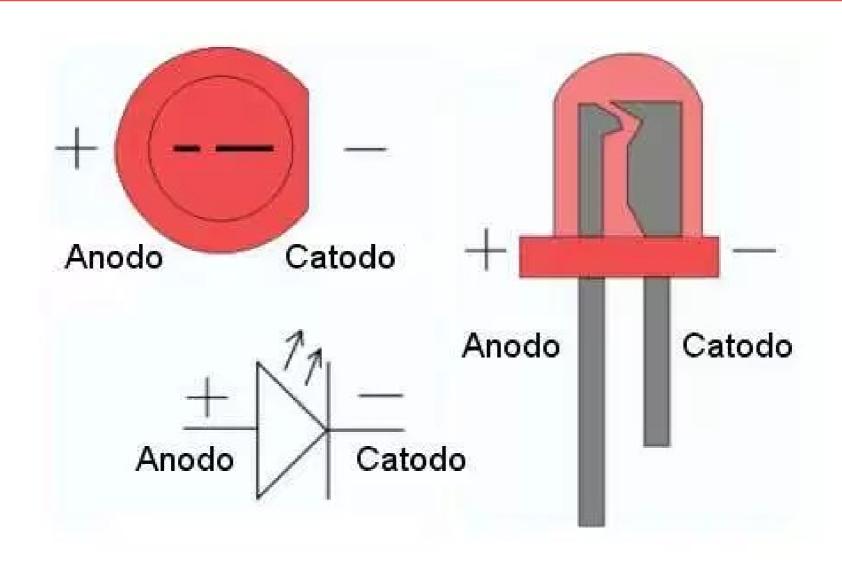




Pinos de Alimentação

Pinos Analógicos

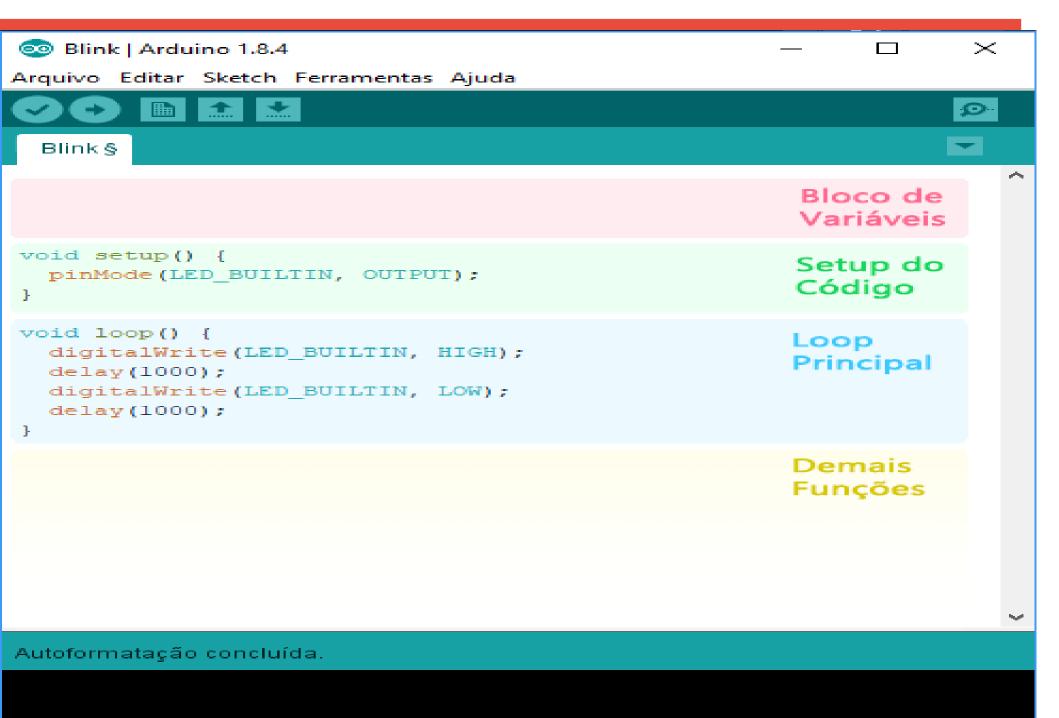




Vamos usar o arduino!

```
Blink §
```

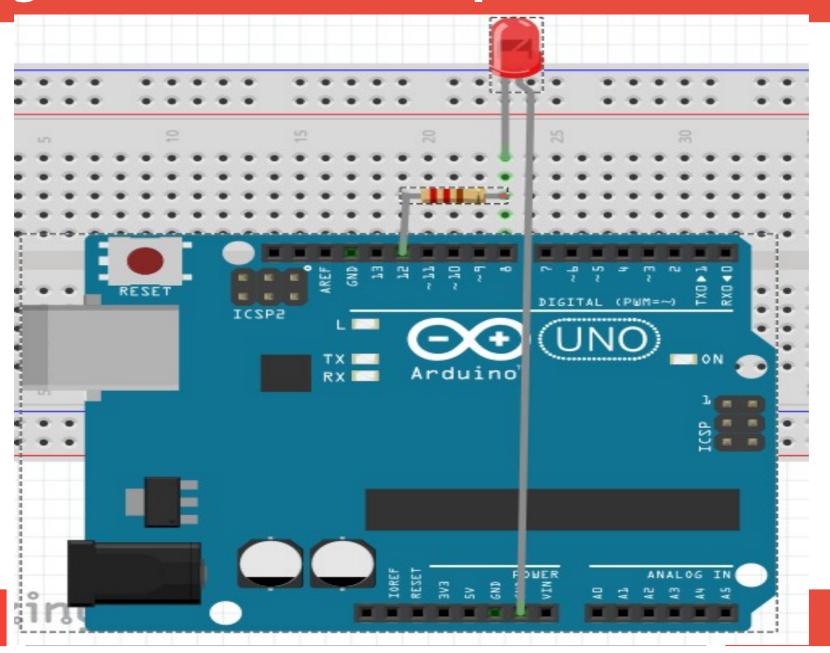
```
1// programa para ligar e desligar o led presente na placa do arduino
 2 void setup() {
    // initialize digital pin LED_BUILTIN as an output.
    pinMode(LED BUILTIN, OUTPUT);
 5 }
 6
 7// the loop function runs over and over again forever
8 void loop() {
    digitalWrite(LED_BUILTIN, HIGH);
10
    // turn the LED on (HIGH is the voltage level)
11
12
   delay(1000);
13
   // wait for a second
   digitalWrite(LED BUILTIN, LOW);
14
15
   // turn the LED off by making the voltage LOW
    delay(1000);
                                       // wait for a second
16
17 }
```



```
int led = 12;
void setup() {
   pinMode(led, OUTPUT);
void loop() {
digitalWrite(led,HIGH);
Delay(1000);
digitalWrite(led, LOW);
Delay(1000);
```

GROUND PORTAS DIGITAIS DIGITAL (PWM=~) ICZ_P2 ON Arduino™ POWER S S S ANALOG IN GROUND PROTOVIE

Ligando led em uma porta do Arduino



Vanderlei Franco

Agradecimentos

A minha família pela paciência e compreesão Aos mantenedores por ceder espaço e equipamentos