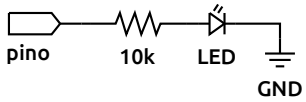
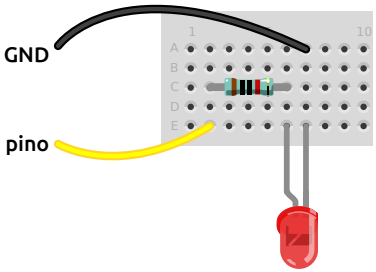
Guia de Referência Rápida Arduino

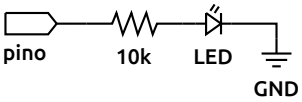
Saída Digital

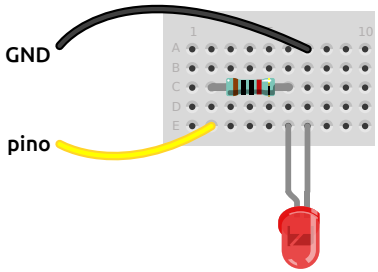





```
#define LED 13

void setup() {
  pinMode(LED, OUTPUT);
}

void loop() {
  digitalWrite(LED, HIGH);
  delay(1000);
  digitalWrite(LED, LOW);
  delay(1000);
}
```

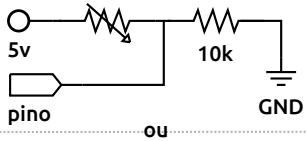
Saída Analógica



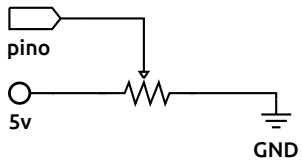


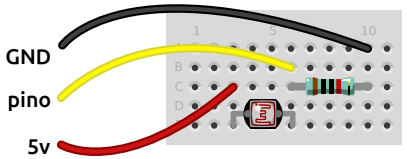

```
#define LED_PIN 3

void setup()  {
  // PWM nao precisa ser declarado
}

void loop()  {
  for(int i = 0 ; i <= 255; i++) {
    analogWrite(LED_PIN, i);
    delay(5);
  }
  for(int i = 255 ; i >= 0; i--) {
    analogWrite(LED_PIN, i);
    delay(5);
  }
}
```

Entrada Analógica

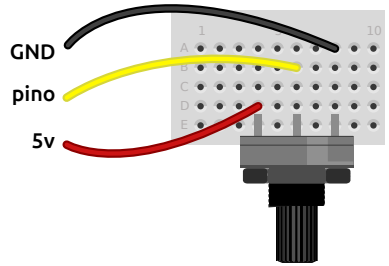


ou



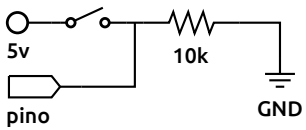


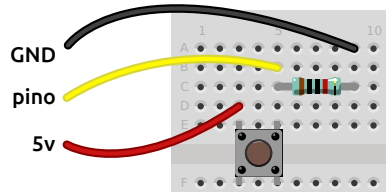
ou




```
#define SENSOR_PIN A0
#define LED_PIN 13
int sensorValue = 0;

void setup() {
  pinMode(LED_PIN, OUTPUT);
}

void loop() {
  sensorValue = analogRead(SENSOR_PIN);
  digitalWrite(LED_PIN, HIGH);
  delay(sensorValue);
  digitalWrite(LED_PIN, LOW);
  delay(sensorValue);
}
```

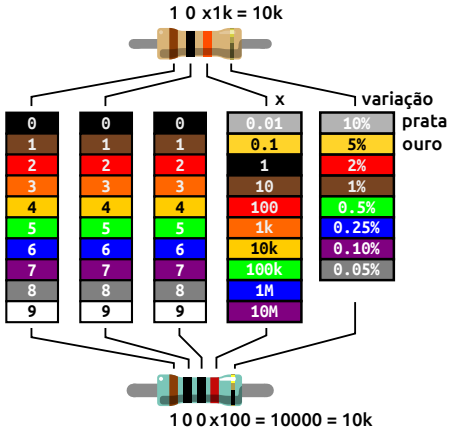
Entrada Digital

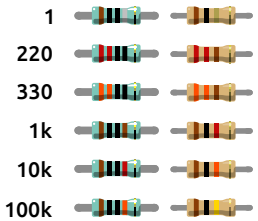





```
#define BUTTON_PIN 2
#define LED_PIN  13

int buttonState = 0;

void setup() {
  pinMode(LED_PIN, OUTPUT);
  pinMode(BUTTON_PIN, INPUT);
}

void loop(){
  buttonState = digitalRead(BUTTON_PIN);

  if (buttonState == HIGH) {
    digitalWrite(LED_PIN, HIGH);
  }
  else {
    digitalWrite(LED_PIN, LOW);
  }
}
```

Tabela de resistores





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02/2015 - update: 04/2016 - update: 05/2018