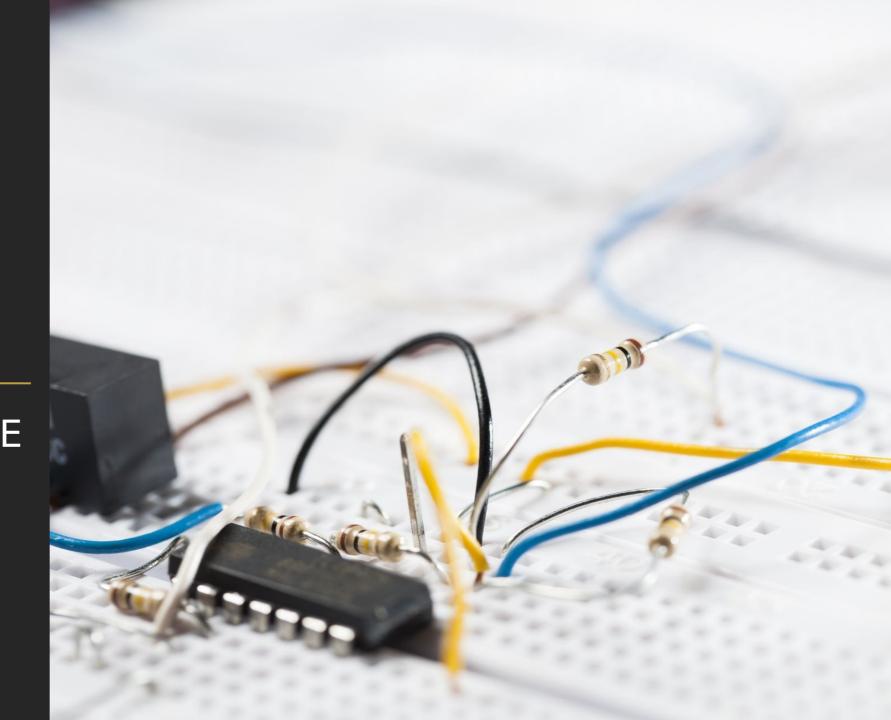
## Arduino

MICROCONTROLLE R

PROGRAMMING

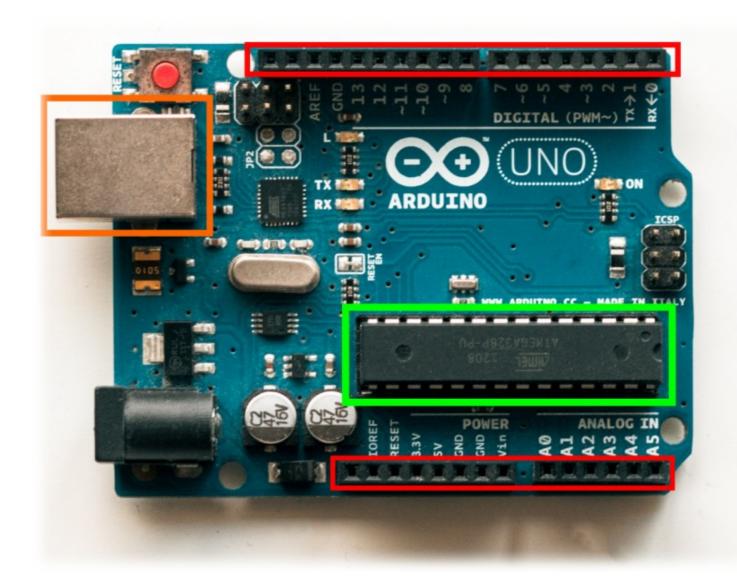
PLATFORM



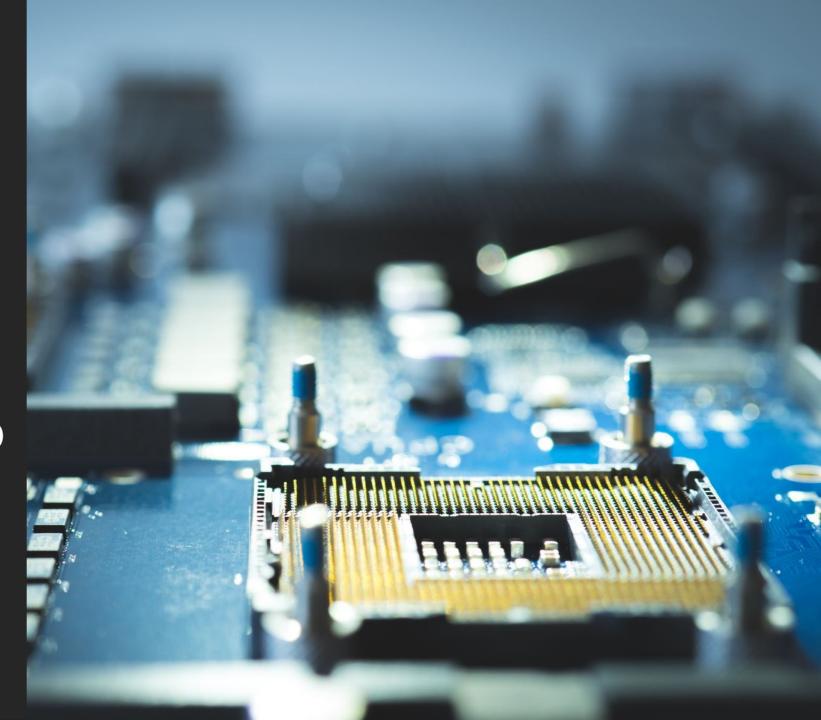
# What is Arduino?

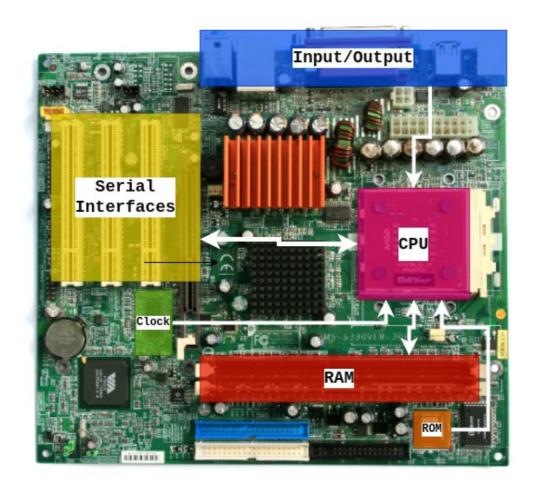
Arduino UNO – one of the most popular Arduino board.

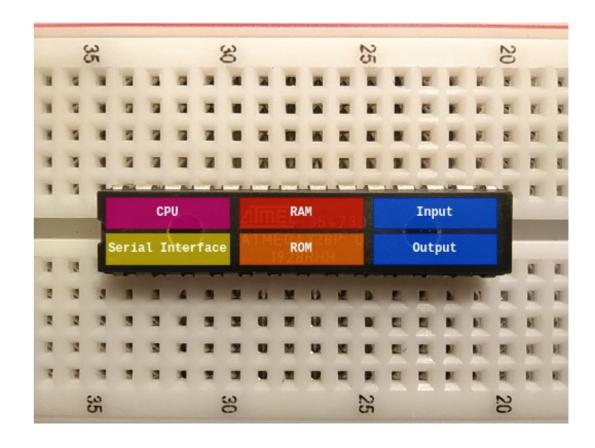
# USB-B Port Pins Microcontro Iler



General difference between Microcontroller and Microprocesso



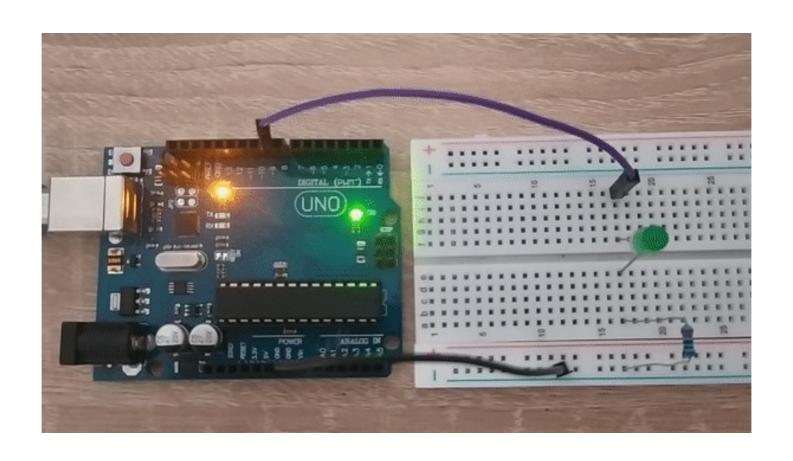




```
sketch_mar22a | Arduino IDE 2.0.4
File Edit Sketch Tools Help
                Arduino Uno
      sketch_mar22a.ino
              // which pins are going to be used and in which mode.
包
              void setup() {
               pinMode(9, OUTPUT); // Setting pin 9 to OUTPUT mode.
               // Sending HIGH signal means we set voltage at given pin to 5V
              void loop() {
                digitalWrite(9, LOW); // Sending LOW signal to pin 9 which turns LED off.
                delay(1000); // Stops our program for 1000ms (1 second)
                digitalWrite(9, HIGH); // Sending HIGH signal to pin 9 which turns LED on.
                delay(1000);
                                                                                                          ■ 6
      Output
                                                                         Ln 9, Col 15 Arduino Uno [not connected] 🚨 🗖
```

### Arduino IDE

#### Code in action



#### Pr

- Beginner Riendly
- Inexpensive
- Big community
- Well documented
- Lots of projects to learn from
- Uses C/C++:)

#### Co

- Low processing power
- Low memory
- Poor performance (at cost of being beginner friendly)
- Uses C/C++:(

#### **Pros and Cons**

#### Thank you for your attention:)