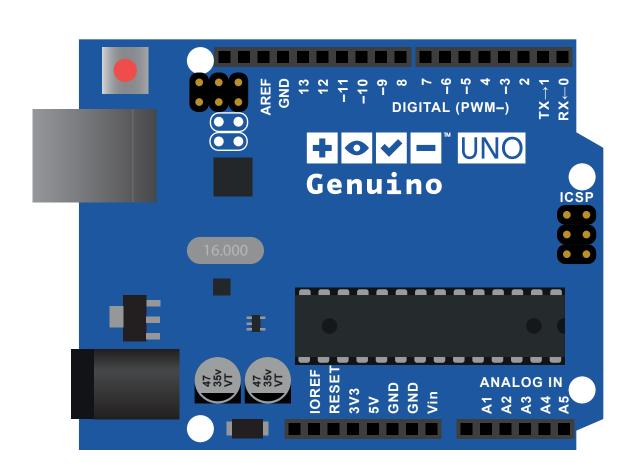
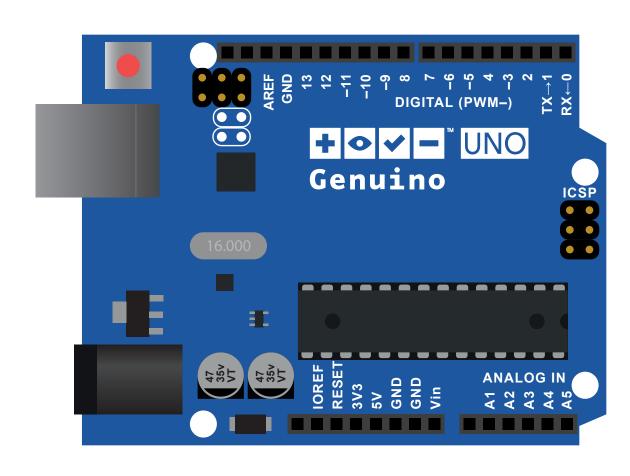
What is Arduino?





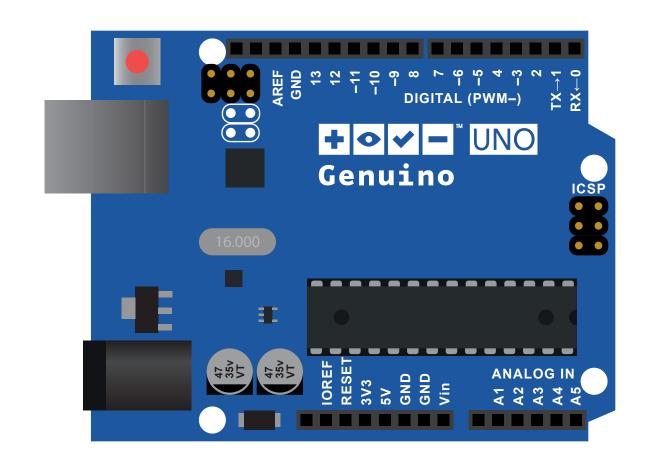
What is Genuino/Arduino?



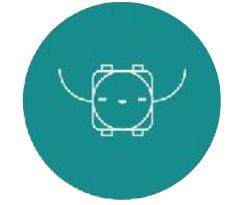




What is Genuino/Arduino?





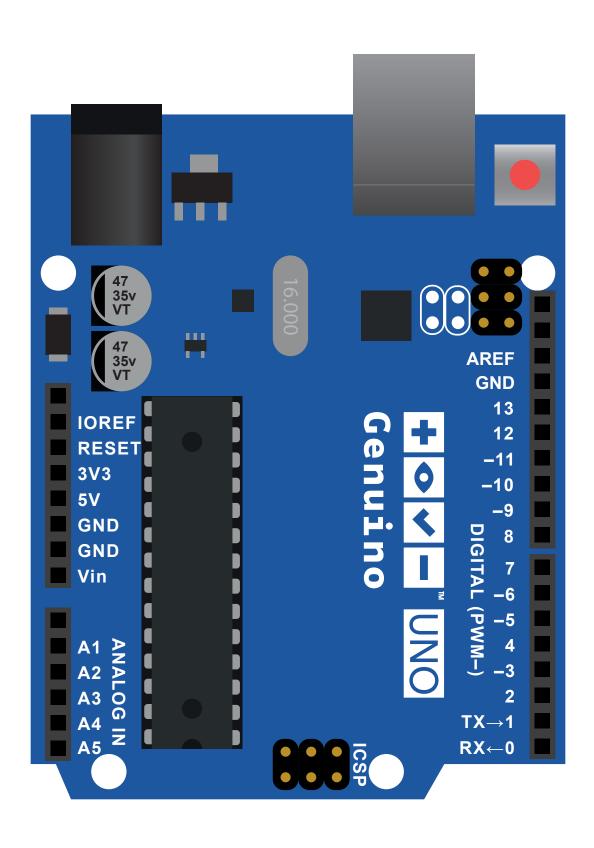


arduino.cc

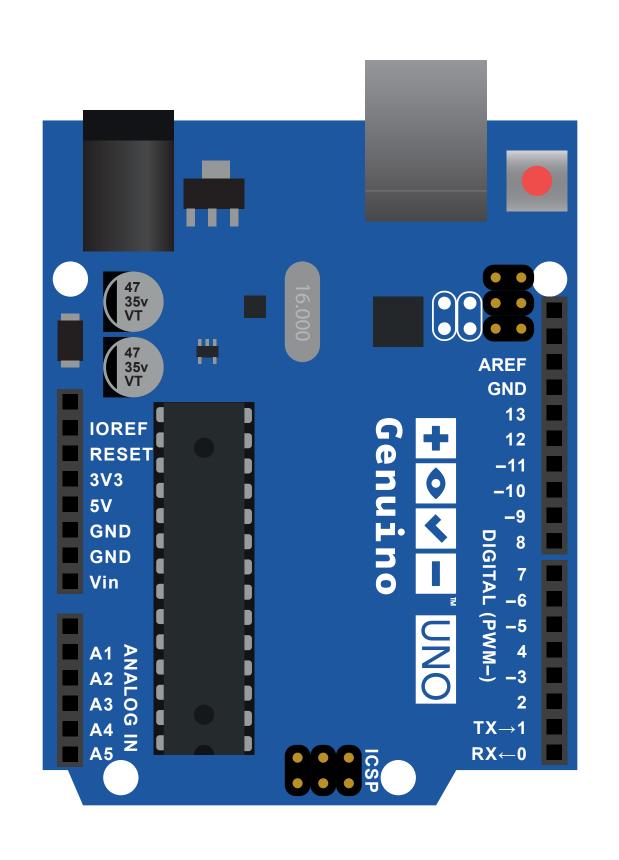


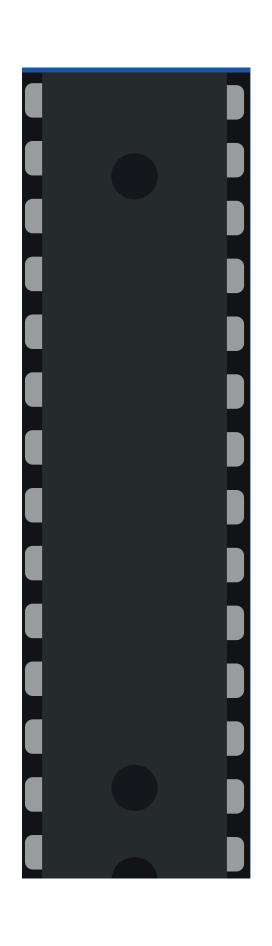


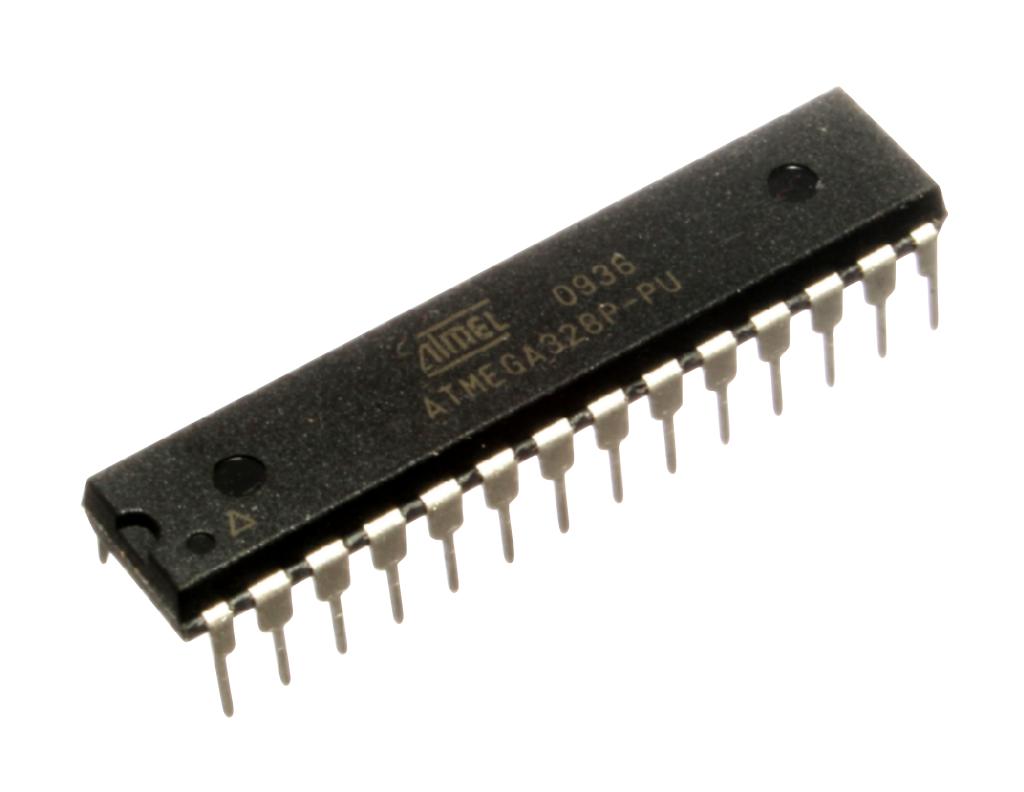
What is microcontroller?



What is microcontroller?

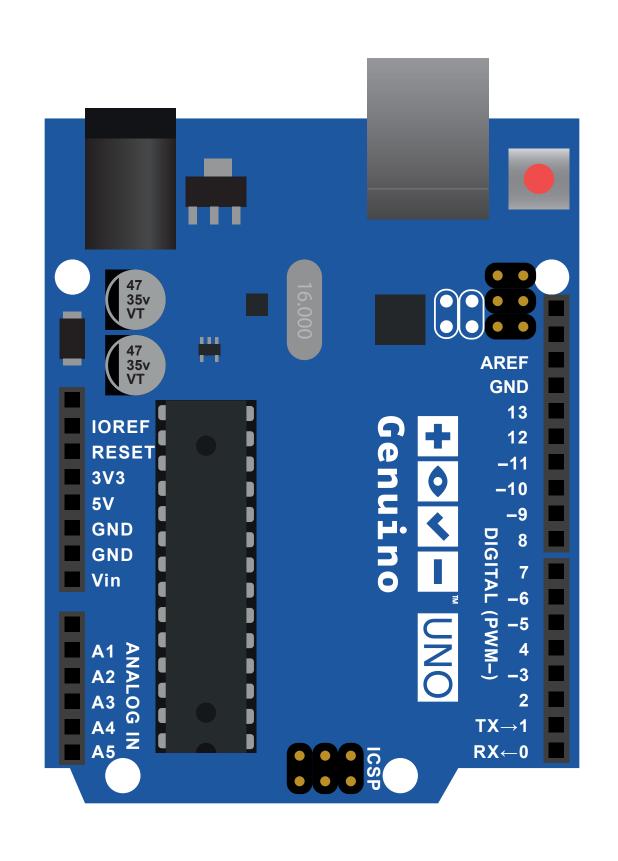


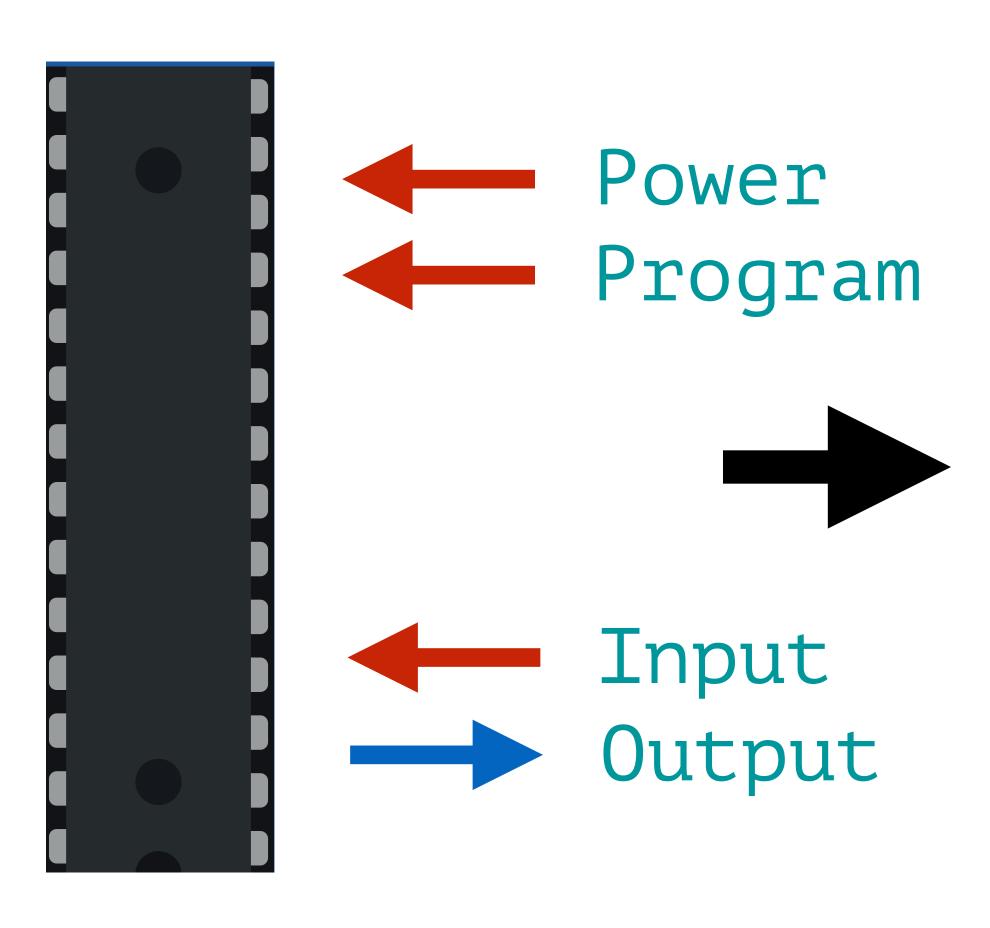




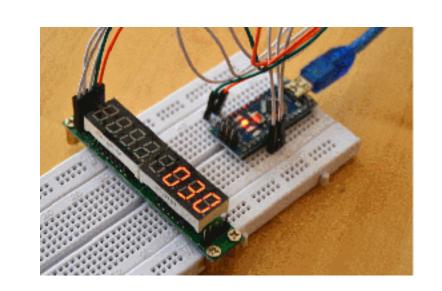


What is microcontroller?





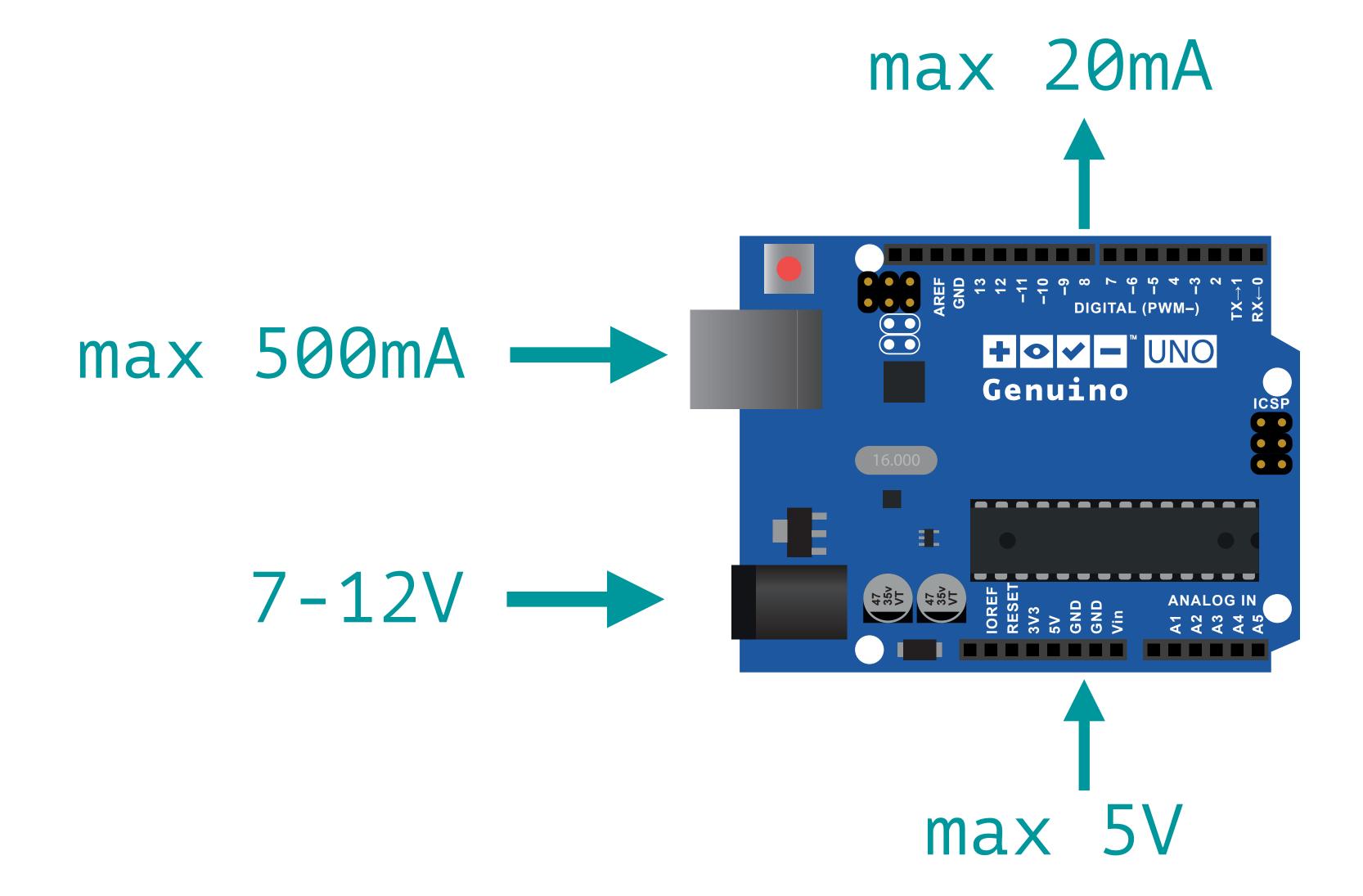






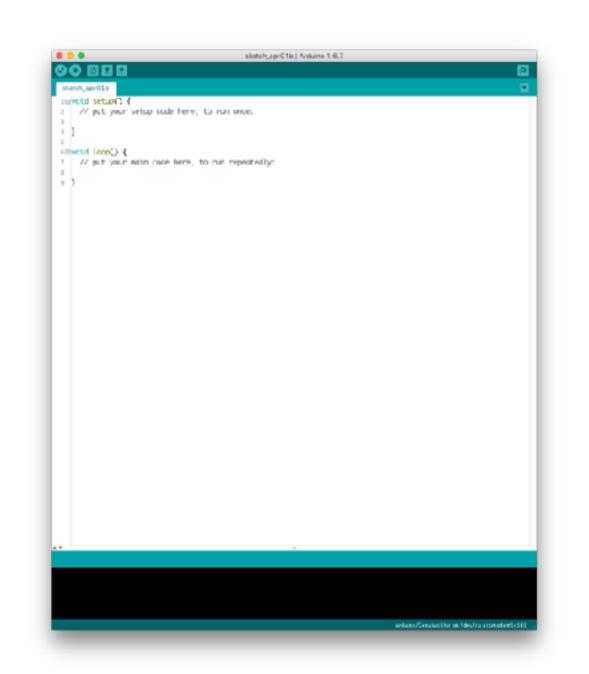


Things to note

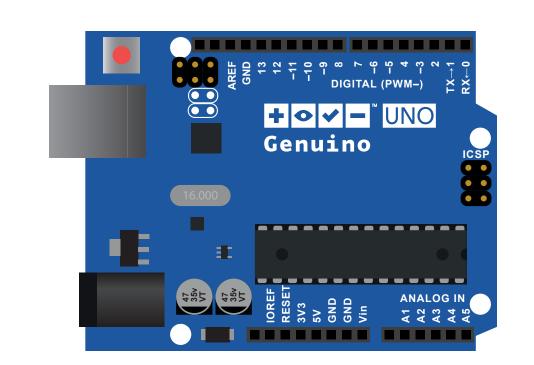




Programming the Arduino









Programming the Arduino

```
sketch_apr01b | Arduino 1.6.7
sketch_apr01b
1⊟void setup() {
2 // put your setup code here, to run once:
3
4 }
6⊟void loop() {
    // put your main code here, to run repeatedly:
9 }
                                       Arduino/Genuino Uno on /dev/cu.usbmodem14141
```



Structure

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

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



Variables



Input/Output

```
pinMode(pin, INPUT/OUTPUT)
digitalWrite(pin, HIGH/LOW)
analogWrite(pin, 0-255)
digitalRead(pin) → HIGH/LOW TRUE/FALSE
analogRead(pin) → 0-1023
```



Delay

delay(milliseconds)



```
if(statement) {
      → <do stuff>
    }
}
```



```
while(statement) {
 <do stuff>
```



```
for(declare; statement; adder) {
 <do stuff>
```





Let's get started!

