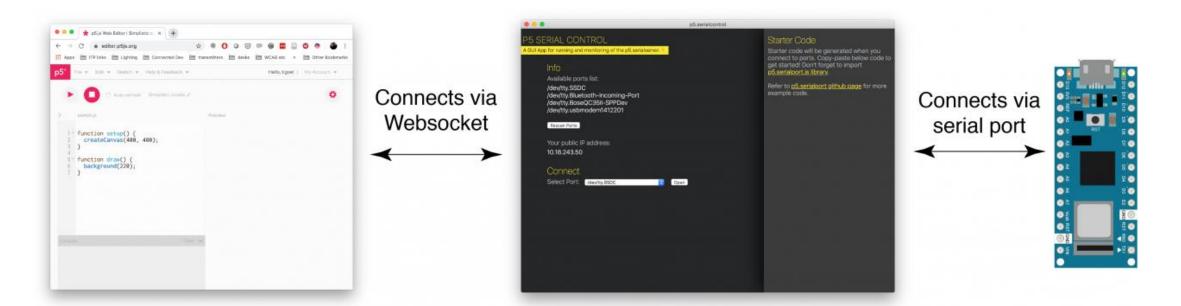
P5JS와 Ardunio와 연동

P5.Serialcontrol 앱

- 다운로드:
- https://github.com/p5-serial/p5.serialcontrol/releases
 - Windows 10 : p5.serialcontrol-win32-x64.zip
 - Mac: p5.serialcontrol-Darwin-x64.zip



사용법

• Index.html의 head 부분에 추가

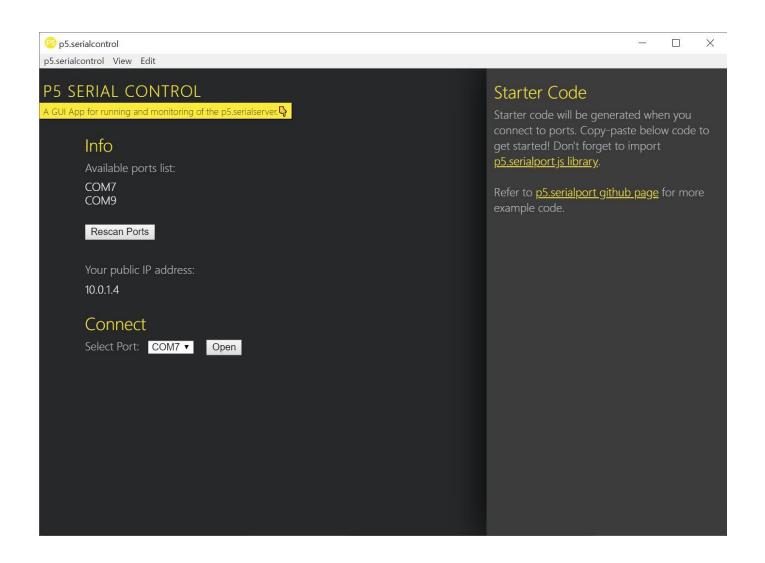
P5.j5

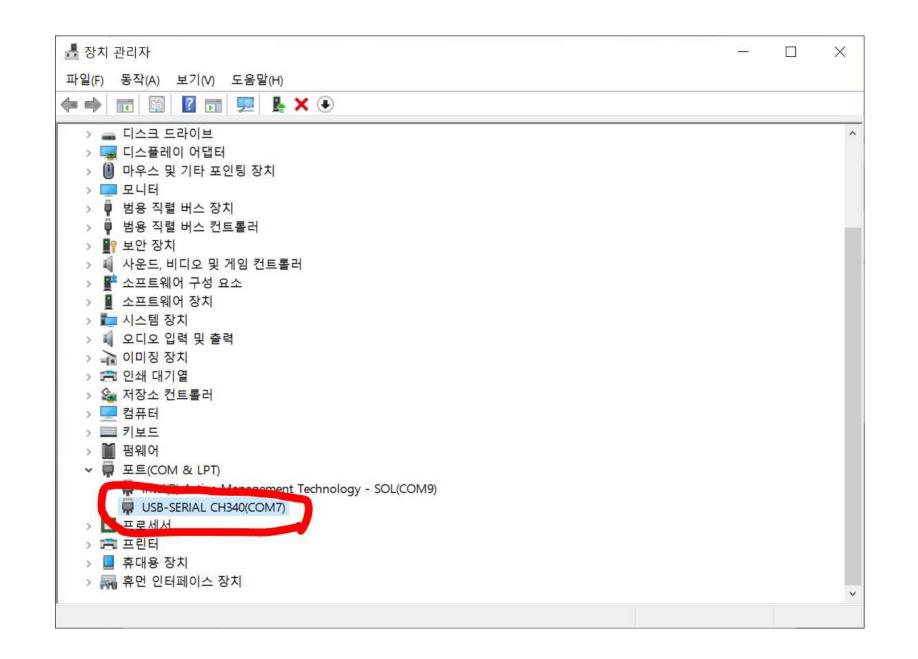
<script src="https://cdnjs.cloudflare.com/ajax/libs/p5.js/1.4.0/p5.js"></script>

<script src="https://cdn.jsdelivr.net/npm/p5.serialserver@0.0.28/lib/p5.serialport.js"></script>

P55erial Control

P5 Serial Controll 앱





P5.js -> Arduino 데이터 전송

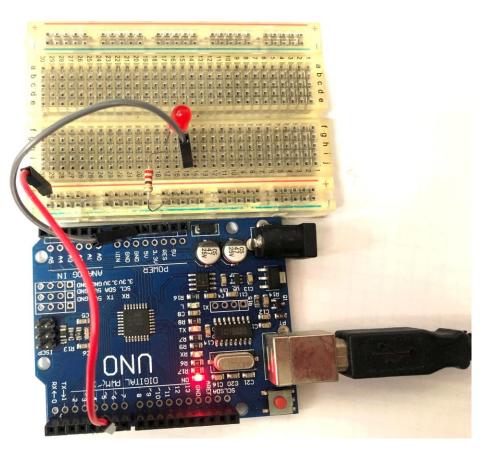
Arduino Sketch

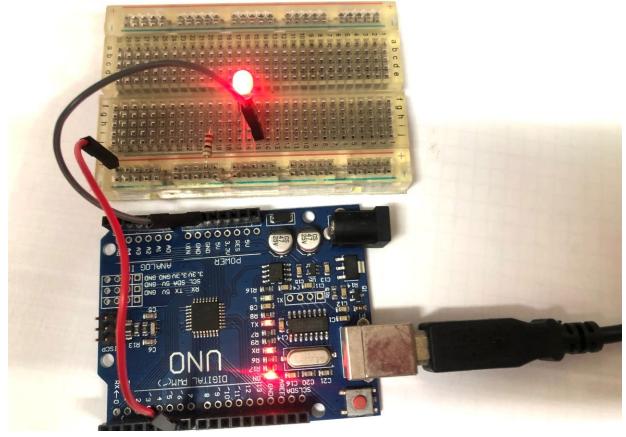
```
◎ led_p5 | 아두이노 1.8.19
                                                                    X
파일 편집 스케치 툴 도움말
led_p5
 1 #define LED 6
 2
 3 void setup() {
    // put your setup code here, to run once:
    Serial.begin (9600);
    pinMode (LED, OUTPUT);
 8
 9 void loop() {
    // put your main code here, to run repeatedly:
    while(Serial.available()) {
12
      int value = Serial.read();
      Serial.print(value);
13
      if(value == 1) {
14
15
        digitalWrite(LED, 1);
      } else if (value == 0) {
17
        digitalWrite(LED, 0);
18
19
20 }
```

P5.js -> Ardunio



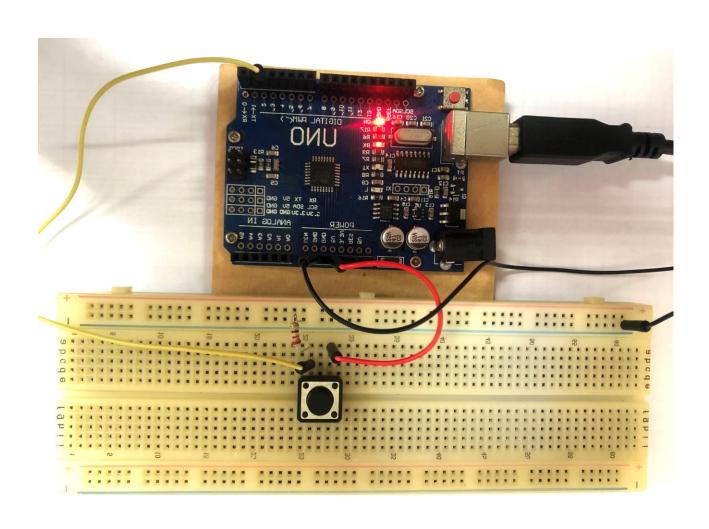
실행 화면





Ardunio -> p5.js 데이터 전송

아두이노 버튼 : pull-down



```
◎ ex11_01_a | 아두이노 1.8.19
                                                                               \times
파일 편집 스케치 툴 도움말
ex11_01_a
1 // 아두이노: 버튼값 송신
2 // pin 번호 2
3 #define BUTTON 2
 5 void setup() {
 6 pinMode (BUTTON, INPUT);
 7 Serial.begin(9600);
8 }
10 void loop() {
    int value = digitalRead(BUTTON);
12 if (value == 0) {
13
   Serial.write(0);
14 } else {
15
    Serial.write(1);
16
    delay(20);
18 }
업로드 완료.
```

