

## Servo 3 28/8/17

//This program changes the position of the servo after the button is pressed.

```
int button = A1;
int servoOut = 8;
int pos;          //This sets the position of the servo.
int posneg;      //This compensates for the position to make the
int servoReps = 40; //time equal approx 3ms.
```

```
void setup() {
  pinMode(button, INPUT);
  pinMode(servoOut, OUTPUT);
  Serial.begin(9600);
}
```

```
void servoDrive(){
for(int repCount = 0;repCount < servoReps;repCount++){
  digitalWrite(servoOut,HIGH);
  delayMicroseconds(400);
  delayMicroseconds(pos);
  digitalWrite(servoOut,LOW);
  delayMicroseconds(posneg);
  delay(17);
}
}
```

```
void waiting(){
  while(digitalRead(button) == LOW){
    delay(10);
  }
}
```

```
void loop() {
  waiting();
  pos = 200;
  Serial.print("pos ");
  Serial.println(pos);
  servoDrive();
  delay(500);
  waiting();
  pos = 1900;
  Serial.print("pos ");
  Serial.println(pos);
  servoDrive();
  delay(500);
}
```