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//This sketch sweeps the servo to full parameters via the pot input.

int testServo = 8;
int potInput = A0;
int potValue;
int potValueNeg ;

void setup() {
  pinMode(potInput, INPUT);
  pinMode(testServo, OUTPUT);
}

void servoDrive(){ //This creates one signal "pulse" of 20ms
  digitalWrite(testServo, HIGH);
  delayMicroseconds(500);
  delayMicroseconds(potValue);
  digitalWrite(testServo, LOW);
  delayMicroseconds(potValueNeg);
  delay(17);
}

void loop() {
  potValue = analogRead(potInput); //0 to 1023
  potValue = potValue * 2; //2046 = 1023 * 2
  potValueNeg = 2500 - potValue; //554 to 2500
  servoDrive();
}
```

