سېرۋو ماتورى Servo

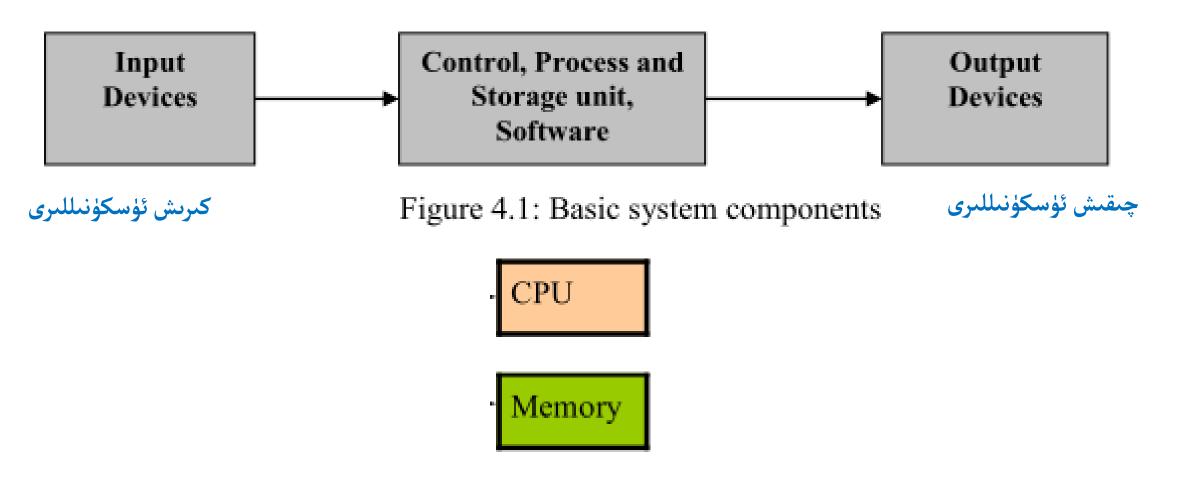
دوكتور ياسىن مەمەتجان 2024-05-4 مەڭگۈتەك تەربىيىلەش مەركىزى



Tinkercad World

- Google Search "robotics and tinkercad"
- Google Search "AI and tinkercad"
- monitoring and tinkercad
- Robot, System, Automation, sensors, motors, Engineering
- Arduino Project Hub
- https://projecthub.arduino.cc/trending
- Tinkercad Learning Center (ئۆگىنىش مەركىزى)
- https://www.tinkercad.com/learn

System input / output(كىرىش ۋە چىقىش سىستېمىسى)

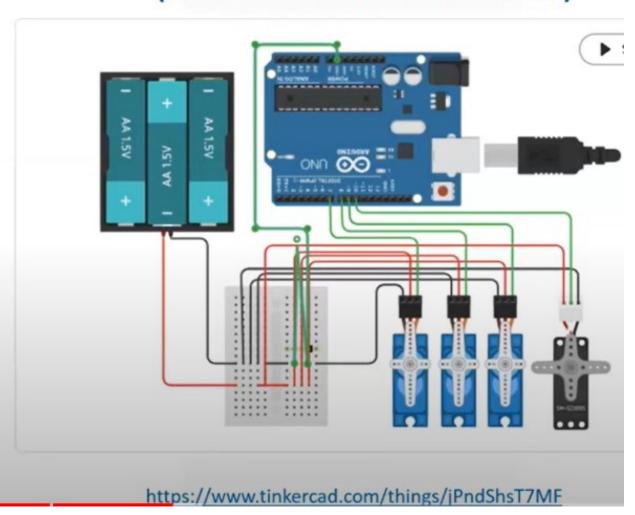


Arduinoتاختىلىرى كىرگۈزگۈچلەرنى ئوقۇيالايدۇ .ئۇ ماتورنى قوزغىتىدۇ

3D Designing and Printing a Factory Robot Arm



Designing and Building A Robot Arm Circuit (Arduino Servo Motor Controlled)



ئىدىيەدىن پروتوتىپقىچە

Idea to Prototype / Innovation

ئىشچىلارنىڭ بىخەتەرلىكىنى ئۆستۈۈش

ئىدىيە What

ئىش ئورنىدا يارلىنىش

سەۋەب Reason, Why

كىشىگە دەخلى قىلمايدىغان يېڭى لايىھە تۈزەش

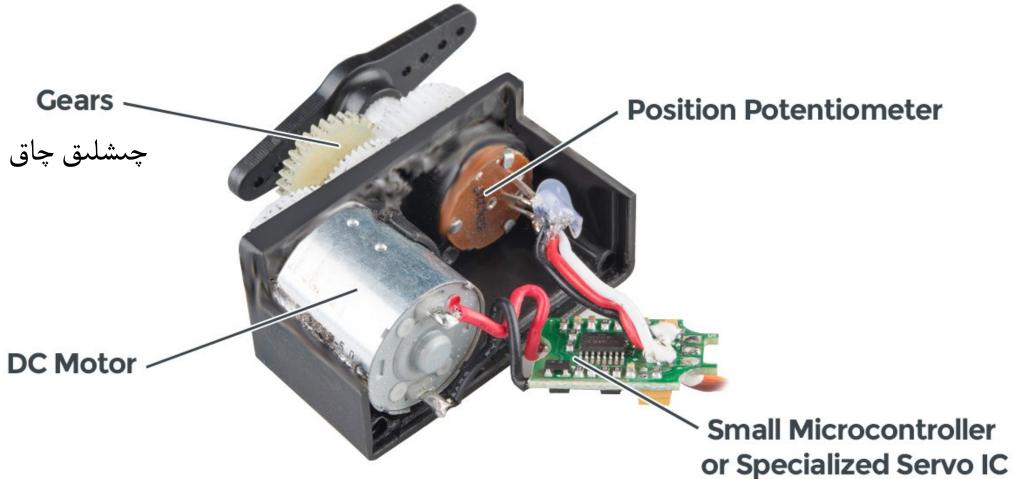
How قانداق

پایدىسى

يارىلانغانلارغا تېز ياردەم بىرىش، ئالدىنى ئېلىش

Benefit

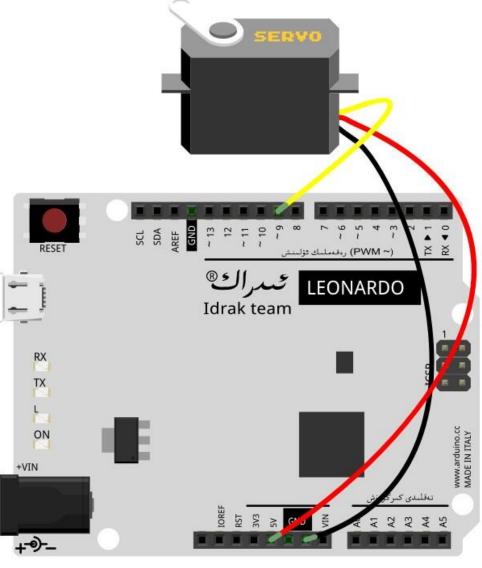
سېرۋو ماتورى Servo





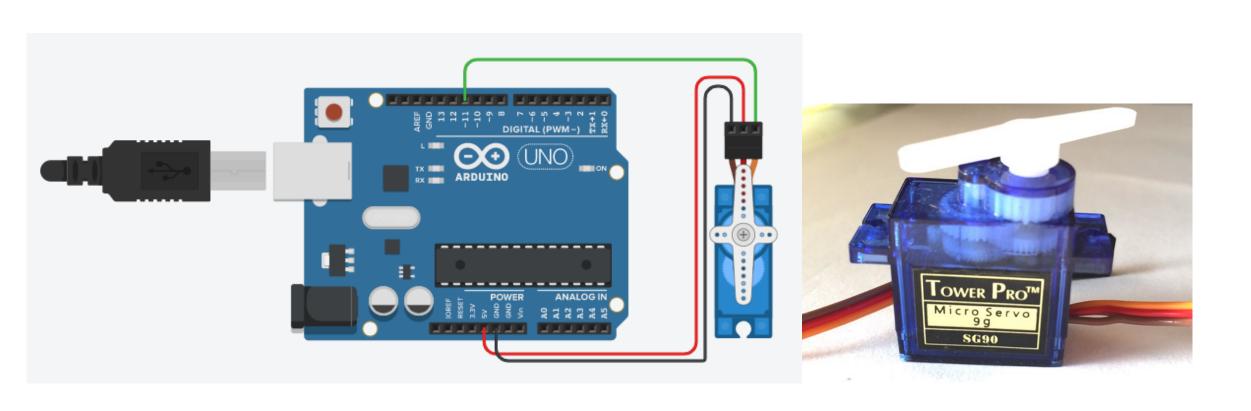
Source: https://www.sparkfun.com/servos







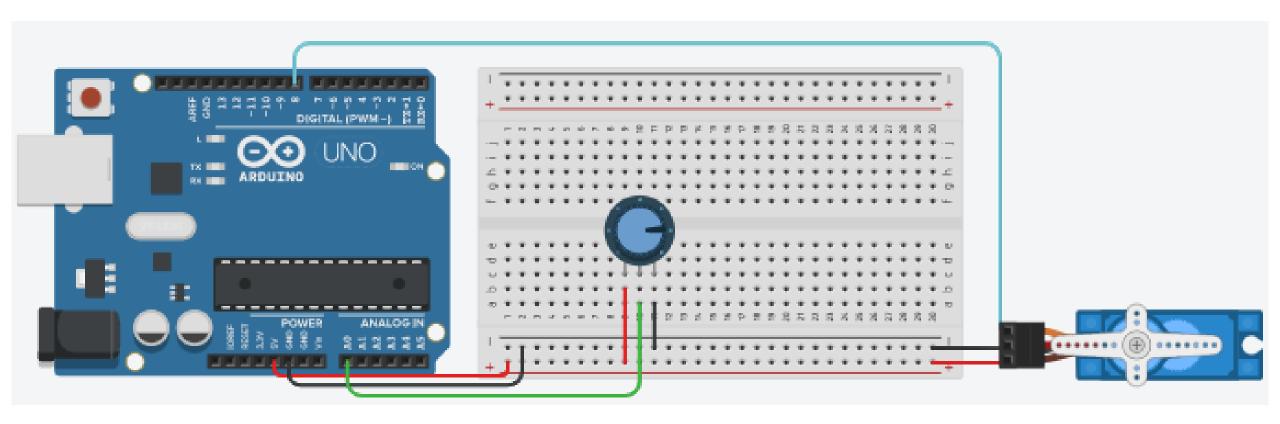
سېرۋو ماتور

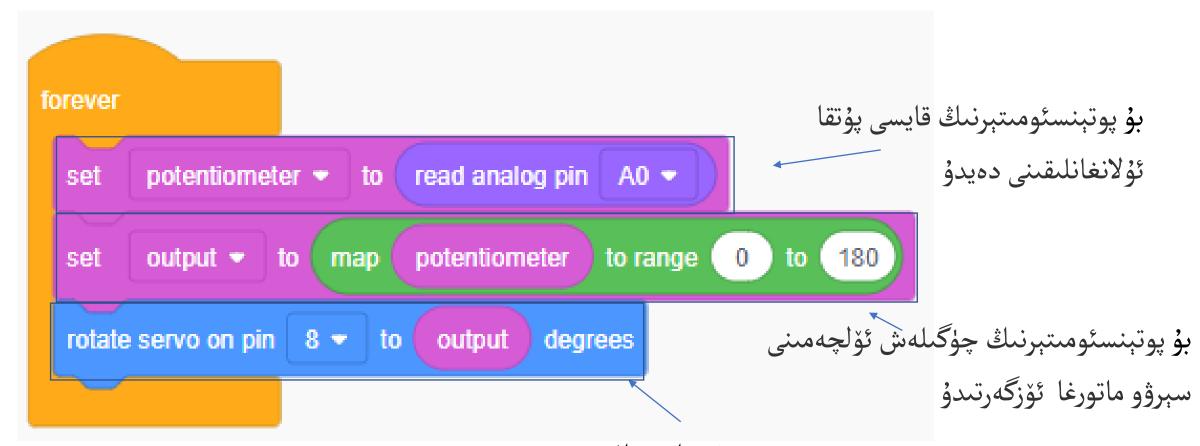


سېرۋو ماتور

```
forever
 rotate servo on pin 9 ▼ to 90
                                  degrees
 wait
             secs ▼
 rotate servo on pin 9 💌
                         to 180
                                   degrees
             secs ▼
```

```
1 // C++ code
 3 #include <Servo.h>
 5 int pos = 0;
 7 Servo servo 9;
                         int i;
    void setup()
10
      servo 9.attach(9);
12
                        Servo_9.write(0);
13
14
    void loop()
15 {
16
      servo 9.write(90);
      delay(2000); // Wait for 2000 millisecond(s)
(18
      servo 9.write(180);
      delay(2000); // Wait for 2000 millisecond(s)
20 }
```





بۇ سېرۋو ماتورنىڭ چۈگىلىشىنى بەلگىلايدىۇ

Servo Motors

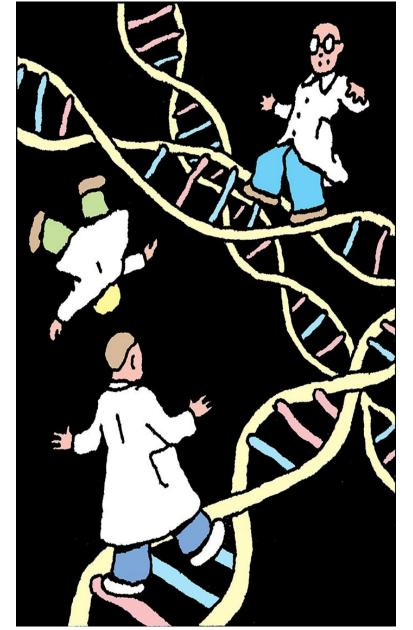
- https://wiki.nus.edu.sg/display/Arduino/Servo+Motors
- https://docs.arduino.cc/learn/electronics/servo-motors
- https://howtomechatronics.com/how-it-works/how-servomotors-work-how-to-control-servos-using-arduino/

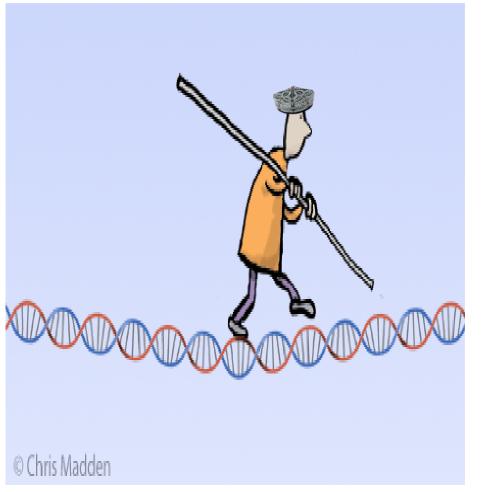
مەڭگۈتەك تۈر پائالىيىتى ئىدىيەدىن پروتوتىپقىچە

لايىهىلەش تېمىلىرىنى تىزىھلاش

https://forms.gle/uEuEbSYz2K4KzvEX7

نۆۋەتتىكى مەسىلىلەر







توغرا ماهارهت Right skills توغرا ماهارهت Right tools توغرا دېتال Right mindset



