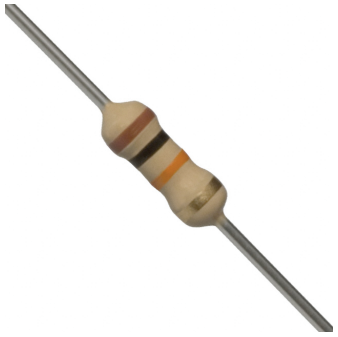
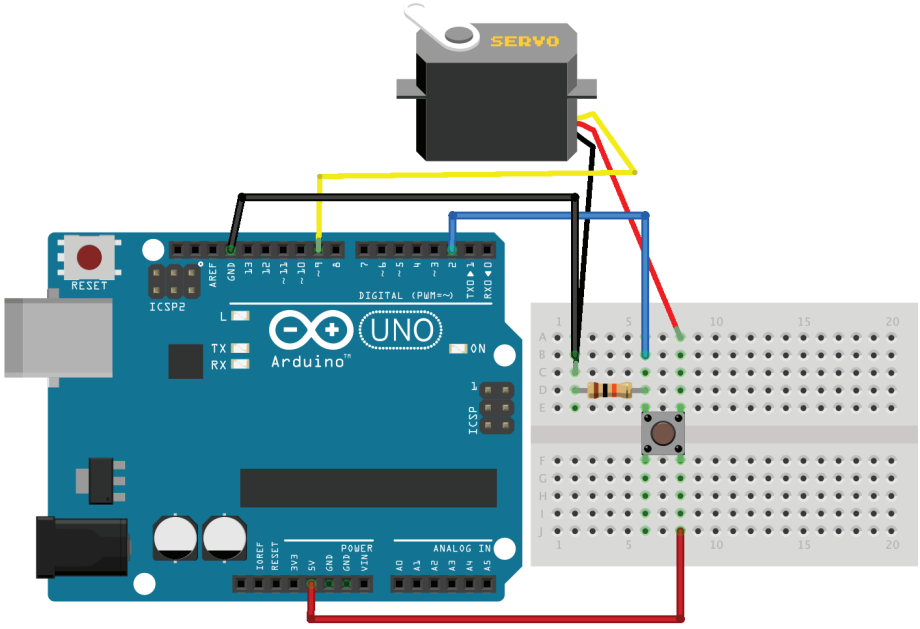
7 Servos

Basic Information

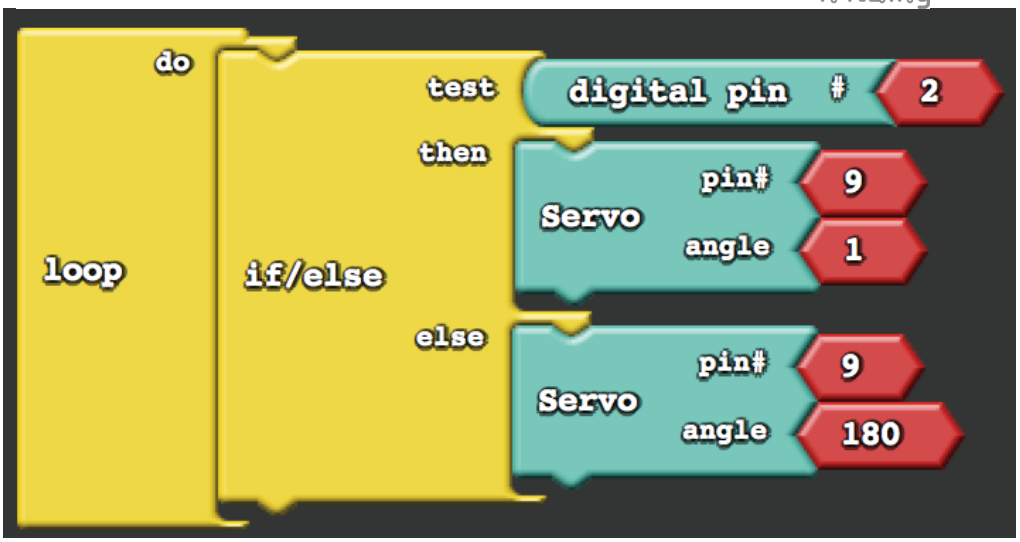
A Servo is a DC motor with a sensor inside that allows you to exactly control where the motor is pointing. It has 3 wires, power, ground and signal. The Arduino sends digital data down the signal cable, instead of just an on or an off. Because of this, a special driver is required to control them. Conveniently, Arduino has the servo library built in, as does Ardublock. Servos only turn up to 180 degrees (between -90 and +90) but can be told to turn to exactly 54 degrees for example.

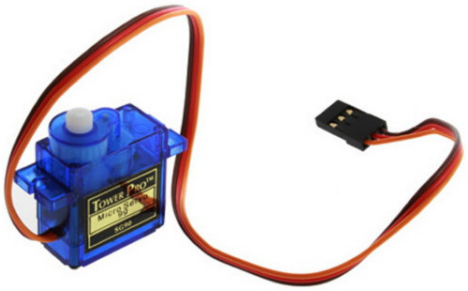


10,000 ohm resistor (10k)



Push button





Micro servo

Now try

1. Try and make the servo slowly move back and forth.
2. Try and use an ultrasonic distance sensor to trigger the servo moving when within certain distance of sensor.
3. Try and use the LDR as an input for the servo, the darker the room is, the more left it turns.