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// This code is for controlling servo motor with IR remote control
// When clicking at any of two buttons the motor is toggling between the rotation and stop

#include <IRremote.h>          //must copy IRremote library to arduino libraries
#include <Servo.h>
#define plus 0xA3C8EDDB      //clockwise rotation button
#define minus 0xF076C13B    //counter clockwise rotation button

int RECV_PIN = 2;              //IR receiver pin
Servo servo;
int val;                              //rotation angle
bool cwRotation, ccwRotation;    //the states of rotation

IRrecv irrecv(RECV_PIN);

decode_results results;

void setup()
{
   Serial.begin(9600);
   irrecv.enableIRIn(); // Start the receiver
   servo.attach(9);          //servo pin
}

void loop()
{
   if (irrecv.decode(&results)) {
      Serial.println(results.value, HEX);
      irrecv.resume(); // Receive the next value

      if (results.value == plus)
      {
         cwRotation = !cwRotation;           //toggle the rotation value
         ccwRotation = false;                //no rotation in this direction
      }

      if (results.value == minus)
      {
         ccwRotation = !ccwRotation;      //toggle the rotation value
         cwRotation = false;                    //no rotation in this direction
      }
   }
   if (cwRotation && (val != 175))   {
      val++;                                        //for colockwise button
   }
   if (ccwRotation && (val != 0))   {
      val--;                                        //for counter colockwise button
   }
   servo.write(val);
   delay(20);                  //General speed
}
```