Example codes for the servo motors

Overall guide for servo coding with arduino:

<https://howtomechatronics.com/how-it-works/how-servo-motors-work-how-to-control-servos-using-arduino/>

library: #include <Servo.h>

defining each servo: Servo servo\_name;

MG995 servo motor:

/\* This example Arduino Sketch controls the complete rotation of

\* SG995 Servo motor by using its PWM and Pulse width modulation technique \*/

#include <Servo.h> // include servo library to use its related functions #define Servo\_PWM 6 // A descriptive name for D6 pin of Arduino to provide PWM signal

Servo MG995\_Servo; // Define an instance of Servo with the name of "MG995\_Servo"

void setup() {

Serial.begin(9600); // Initialize UART with 9600 Baud rate

MG995\_Servo.attach(Servo\_PWM); // Connect D6 of Arduino with PWM signal pin of servo motor

}

void loop() {

Serial.println("0");// You can display on the serial the signal value MG995\_Servo.write(0); //Turn clockwise at high speed

delay(3000);

MG995\_Servo.detach();//Stop. You can use deatch function or use write(x), as x is the middle of 0-180 which is 90, but some lack of precision may change this value

delay(2000);

MG995\_Servo.attach(Servo\_PWM);//Always use attach function after detach to re-connect your servo with the board

Serial.println("0");//Turn left high speed

MG995\_Servo.write(180); delay(3000); MG995\_Servo.detach();//Stop

delay(2000);

MG995\_Servo.attach(Servo\_PWM);

}

Code explanation and other:

<https://microcontrollerslab.com/mg995-servo-motor-pinout-interfacing-with-arduino-features-examples/>