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In this instruction, you learn to work on the L293D motor shield.L293D shield is a driver board based on L293 IC, which can drive 4 DC motors and 2 stepper or Servo motors at the same time.Each channel of this module has the maximum current of 1.2A and doesn't work if the voltage is more than 25v or less than 4.5v. Between 0 to 360 or 0 to 180 according to motor type.Driving Stepper Motor#include Determine the library you need AF_Stepper motor(48, 2); Defining a Stepper motor object. GSM - for connecting to a GSM/GPRS network with the GSM shield. 2. It makes careful use of timers: the library can control 12 servos using only 1 timer. MKR Family Libraries Libraries listed below are specifically designed to work with Arduino MKR Family products. This motor has a simple structure. Examples Knob: control the shaft of a servo motor by turning a potentiometer Sweep: sweeps the shaft of a servo motor back and forth Methods attach() write() writeMicroseconds() read() attached() detach() You can read this and other amazing tutorials on ElectroPeak's official websiteOverviewIn this tutorial, you will learn how to drive DC, stepper and servo motors using an Arduino L293D motor driver shield.What You Will LearnGeneral information about DC motorsIntroduction to L293D motor shieldDriving DC, Servo & Stepper motorsMotors & DriversMotors are an inseparable part of many robotics and electronics projects and have different types you can use depending on their application. Audio - allows playing audio files from an SD card. See the API Style Guide for information on making a good Arduino-style API for your library. Servos have integrated gears and a shaft that can be precisely controlled. Wire - Two Wire Interface (TWI/I2C) for sending and receiving data over a net of devices or sensors. Arduino LSM6DSOX - library to use LSM6DSOX 6 axis IMU available on the Arduino Nano RP2040 Connect. The ground wire is typically black or brown and should be connected to a ground pin on the Arduino board. I2S - library for using the I2S protocol on SAMD21 (included in SAMD platform). ArduinoMKRGPS - library to be used with the Arduino MKR GPS Shield. CurieIMU - manage the on-board accelerometer and gyro. It can be set from 0 to 255,void loop() { motor.run(FORWARD); delay(1000); motor.run(BACKWARD); delay(1000); motor.run(RELEASE); delay(1000); } Function motor.run() specifies the motor's motion status. Arduino_MKRloTCarrier - library for controlling the MKR IoT Carrier Audio Libraries for audio sampling and playback. See these instructions for details on installing libraries. TFT - for drawing text , images, and shapes on the Arduino TFT screen. Robot - this library enables easy access to the functions of the Arduino Robot. ArduinoAPDS9960 - library to use the gesture sensor APDS9960; it senses gesture, color, ambience illumination and proximity. USB Libraries for using your Arduino as either a USB host or device. MKRIMU - library to read the acceleration, gyroscope, magnetic field and euler angles from the IMU on your MKR IMU shield ArduinoMotorCarrier - library for controlling the MKR / Nano Motor Carriers. Memory Libraries for memory management and data storage. Display Libraries for controlling different displays. RTCZero - Real Time Clock to schedule events. We can see it in remote control cars, robots, and etc. Keyboar - send keystrokes to an attached computer. Drives come in many different types. EEPROM - reading and writing to "permanent" storage. Esplora - this library enable you to easily access to various sensors and actuators mounted on the Esplora board. Here is some information about different types of the motors:DC Motors: DC motor is the most common type of engine that can be used for many applications. ArduinoMKRTHERM - library to read the sensors connected to the Arduino MKR THERM Shield. Go to repository Compatibility This library is compatible with the avr, megaavr, sam, samd, rf52, stm32f4, mbed, mbed nano, mbed portenta, mbed rp2040 architectures so you should be able to use it on the following Arduino boards: Releases To use this library, open the Library Manager in the Arduino IDE and install it from there. Communication Libraries for using the SPI, I2C and UART protocols. Arduino LSM9DS1 - library to use the LSM9DS1 9 axis IMU available on the Arduino Nano 33 BLE and the Arduino Nano 33 BLE Sense. A number of libraries come installed with the IDE, but you can also download or create your own. Servo - for controlling servo motors. The power wire is typically red, and should be connected to the 5V pin on the Arduino board. PDM - library to use the digital microphone MP34DT05 (Nano BLE Sense and Nano RP2040 Connect). The second argument is the number of the Stepper motor connected to the shield.void setup() { motor.setSpeed(10); motor.onestep(FORWARD, SINGLE); motor.release(); delay(1000); } void loop() { motor.step(100, FORWARD, SINGLE); motor.step(100, BACKWARD, SINGLE); motor.step(100, FORWARD, DOUBLE); motor.step(100, BACKWARD, DOUBLE); motor.step(100, FORWARD, INTERLEAVE); motor.step(100, BACKWARD, INTERLEAVE); motor.step(100, FORWARD, MICROSTEP); motor.step(100, BACKWARD, MICROSTEP); } Determine motor speed in rpm.The first argument is the amount of step needed to move, the second one is to determine direction (FORWARD or BACKWARD), and the third argument determines the steps type: SINGLE (Activate a coil), DOUBLE (Activate two coils for more torque), INTERLEAVED (Continuous change in the number of coils from one to two and vice versa to double precision, however, in this case, the speed is halved), and MICROSTEP (Changing the steps is done slowly for more precision. To use a library in a sketch, select it from Sketch > Import Library. SigFox - library for MKR FOX L200, for connecting to the Sigfox network. Standard servos allow the shaft to be positioned at various angles, usually between 0 and 180 degrees. ArduinoBLE - library to use the Bluetooth® Low Energy on a selection of boards. By using a servo you will be able to control the amount of shaft's rotation and move it to a specific position. On the Mega, up to 12 servos can be used without interfering with PWM functionality: use of 12 to 23 motors will disable PWM on pins 11 and 12. ArduinoIoTCloud - This library allows to connect to the Arduino IoT Cloud service. void setup() { myservo.attach(9); } Determine the pin connecting to Servo.(pin 9 for servo #1 and pin 10 for servo #2)void loop() { myservo.write(val); delay(15); } Determine the amount of motor rotation. ArduinoHTS221 - library to use the HTS221 relative humidity & temperature sensor. WiFi - library for the WiFi shield, for Internet connections via Wi-Fi. WiFi101 - library for the MKR 1000 WiFi and WiFi101 shield, for Internet connections via Wi-Fi. WIFININA - library for boards with a Wi-Fi NINA module, for Internet connections via Wi-Fi. Nano Family Libraries Libraries designed for embedded sensors on various Nano boards. MKR GSM - library for MKR GSM 1400, for connecting to GSM/GPRS networks. Libraries provide extra functionality for use in sketches, e.g. working with hardware or manipulating data. On boards other than the Mega, use of the library disables analogWrite() (PWM) functionality on pins 9 and 10, whether or not there is a Servo on those pins. These motors have a very high accuracy.Servo Motors: Servo motor is a simple DC motor with a position control service. MKRWAN - library for MKR WAN 1300/1310, for connecting to LoRaWAN® networks. For more features of this shield let's mention compatibility with Arduini UNO and MEGA, electromagnetic and thermal protection of motor and disconnecting circuit in case of unconventional voltage raise.How to Use Arduino L293D Motor Driver Shield?While using this shield 6 analog Pins (which can be used as digital pins too), pin 2 and pin 13 of arduino are free.In the case of using DC motor, pins 9, 10, 2 are in use.In the case of using DC motor, pin11 for #1, pin3 for #2, pin5 for #3, pin6 for #4 and pins 4, 7, 8 and 12 for all of them are in use.In the case of using Stepper motor, pins 11 and 3 for #1, pins 5 and 6 for #2 and pins 4, 7, 8 and 12 for all of them are in use.You can use free pins by wired connections.If you are applying separate power supply to Arduino and shield, inske sure you have disconnected the jumper on the shield.Driving DC Motor#include The Library you need to control the motor-AF_ DC motor motor(1, MOTOR12_64KHZ) Defining the DC motor you are using.The first argument stands for the number of the motors in the shield and the second one stands for the motor speed control frequency. DC motors speed is directly controlled by the applied voltage. The amount of rotation per step is determined by the motor structure. . The driver is an interface circuit between the motor and controlling unit to facilitate driving. On the Arduino Due you can control up to 60 servos. In this case, the torque is lower).By default, when the motor stops moving, it maintains its status.You must use the function motor.release() to release the motor.If you find this tutorial helpful and interesting please like us on facebook. ArduinoMKRRGB - library to be used with the Arduino MKR RGB Shield. Note that servos draw considerable power, so if you need to drive more than one or two, you'll probably need to power them from a separate supply (i.e. not the 5V pin on your Arduino). SoftwareSerial - for serial communication on any digital pins. Connectivity Libraries to access radio modules on different IoT boards (Wi-Fi, Bluetooth®, LoRa®, GSM, NB-IoT, Sigfox). Be sure to connect the grounds of the Arduino and external power supply together. This library can control a great number of servos. And if it left unchecked, it will be 1KHZ by default.motor.setSpeed(200); Defining the motor speed. MKRNB - library for MKR NB 1500, for connecting to NB-IoT / Cat M1 networks. The first argument is the motor step resolution. Scheduler - manage multiple non-blocking tasks (also works with the Arduino Due). SD - for reading and writing SD cards. Device Control Allows Arduino boards to control a variety of servo motors. For Arduino DUE only. Stepper motor is an electric motor that divides a full rotation into a number of equal steps. Mouse - control cursor movement on a connected computer. ArduinoLPS22HB - library to use the barometer and temperature sensor LPS22; it is an ultra-compact sensor which functions as a digital output barometer. Official Arduino Libraries Robotics Libraries for controlling servo and stepper motors. CurieBLE - interact with smartphones and tablets with Bluetooth® Low Energy. Stepper - for controlling stepper motors. When The voltage level is less than the maximum tolerable voltage, the speed would decrease.Stepper Motors: In some projects such as 3D printers, scanners and CNC machines we need to know motor spin steps accurately. LiquidCrystal - for controlling liquid crystal displays (LCDs). So be careful with choosing the proper motor according to its nominal voltage and current. AudioFrequencyMeter - library to sample an audio signal and get its frequency back. Continuous rotation servos allow the rotation of the shaft to be set to various speeds. Arduino LSM6DS3 - library to use the LSM6DS3 6 axis IMU available on the Arduino Nano 33 IoT and the Arduino UNO WiFi Rev. There is also a tutorial on writing your own libraries. ArduinoSound - simple way to play and analyze audio data. (for example, if your motor has the precision of 7.5 deg/step, it means the motor step resolution is. AudioZero - library to play audio files from a SD card. The status can be FORWARD, BACKWARD, and RELEASE. RELEASE is the same as the brake but it may take some time until the motor's full stop.It is recommended to solder a 100nF capacitor to each motor pins to reduce noise.Driving Servo MotorArduino IDE library and examples are suitable for driving a Servo motor.#include The library you need for driving the Servo motorServo myservo; Defining a Servo motor object. Retired Libraries A list of archived libraries for retired products. CurieTimerOne - allows to use Timer functions. They usually have a small dimension and are the best choice for robotic arms.But we can't connect these motors to microcontrollers or controller board such as Arduino directly in order to control them since they possibly need more current than a microcontroller can drive so we need drivers. To use this library: Circuit Servo motors have three wires: power, ground, and signal. ArduinoGraphics - library with graphic primitives, works also with the Arduino MKR RGB Shield. It will start rolling by applying proper voltage to its ends and change its direction by switching voltage polarity. Other Firmata - for communicating with applications on the computer using a standard serial protocol. CurieTime - allows to control and use the internal RTC (Real Time Clock). The Servo library supports up to 12 motors on most Arduino boards and 48 on the Arduino Mega. SPI - for communicating with devices using the Serial Peripheral Interface (SPI) Bus. Ethernet - for connecting to the Internet via Ethernet. This library allows an Arduino board to control RC (hobby) servo motors. ArduinoMKRENV - library to read all MKR ENV Shield sensors. Bridge - enables communication between the Linux processor and the microcontroller on the Yún. The second argument can be MOTOR12_2KHZ, MOTOR12_8KHZ, MOTOR12_8KHZ, and MOTOR12_8KHZ for motors number 1 and 2, and it can be MOTOR12_8KHZ, MOTOR12_8KHZ, and MOTOR12_8KHZ for motors number 3 and 4. The Arduino environment can be extended through the use of libraries, just like most programming platforms. ArduinoRS485 - library that implements RS485 on the Arduino MKR RS485 shield. USBHost - communicate with USB peripherals like mice and keyboards. Ciao - aims to simplify interaction between microcontroller and Linino OS allowing a variety of connections with most common protocols. The signal pin is typically yellow, orange or white and should be connected to a digital pin on the Arduino board. In these cases, we use Stepper motors.

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