

*****Draft*****

Arduino IDE
1,18.19
RPi4B 8Gb
Raspbery Pi 32 Bit OS
Nano RP2040 Connect
09/30/22

*****Draft*****

arduino-1.8.19-linuxarm.tar.xz

arduino-linux-setup.sh

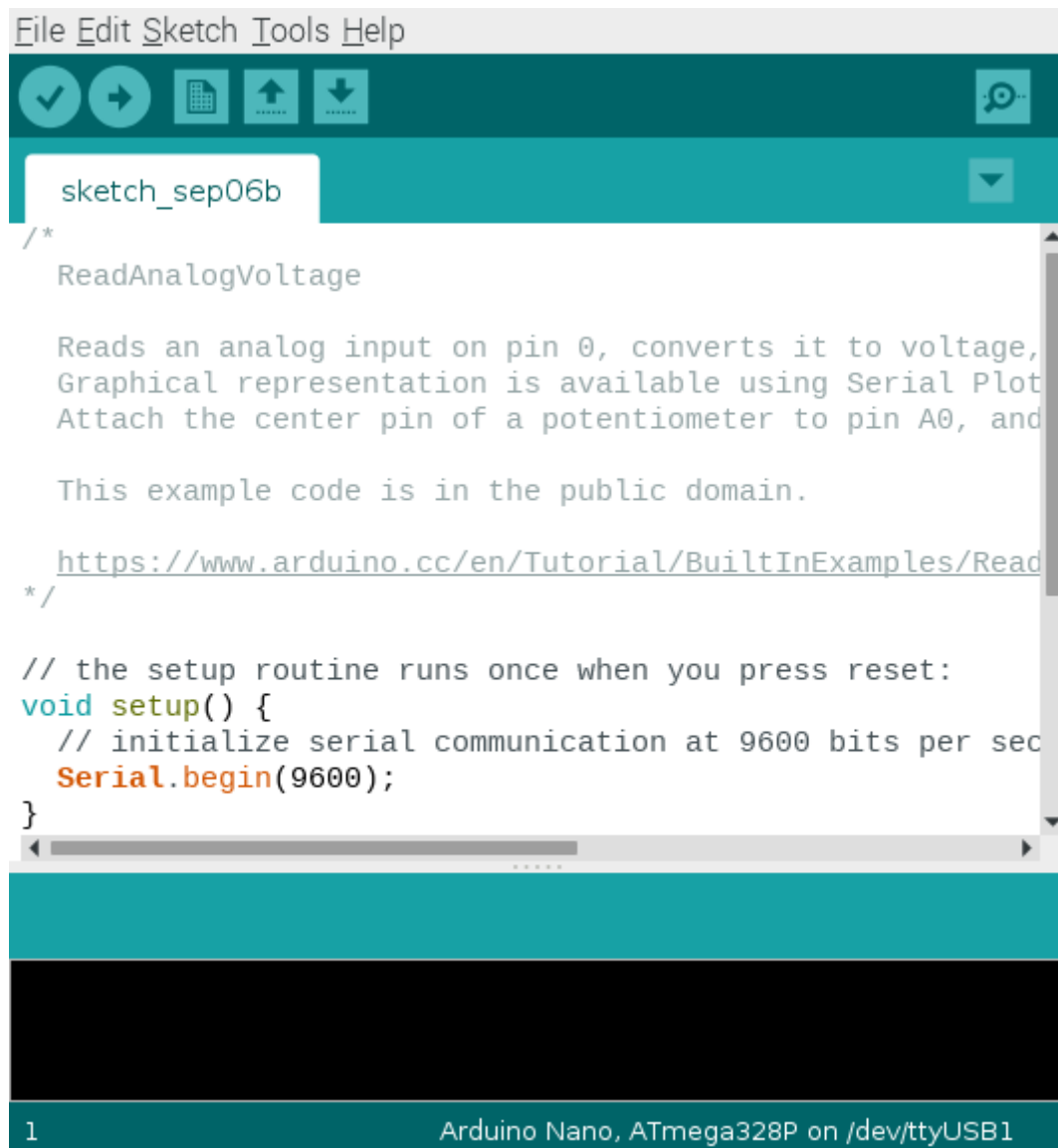
Board “Arduino Nano RP2040 Connect”
 Arduino Mbed OS Nano Boards
 Arduino Nano RP2040 Connect

sudo su

root@pi4-27:/home/devel# cd Downloads/arduino-1.8.19

root@pi4-27:/home/devel/Downloads/arduino-1.8.19# ./arduino

Picked up JAVA_TOOL_OPTIONS:



```
File Edit Sketch Tools Help

sketch_sep06b

/*
  ReadAnalogVoltage

  Reads an analog input on pin 0, converts it to voltage,
  Graphical representation is available using Serial Plotter
  Attach the center pin of a potentiometer to pin A0, and
  one outside pin to ground.

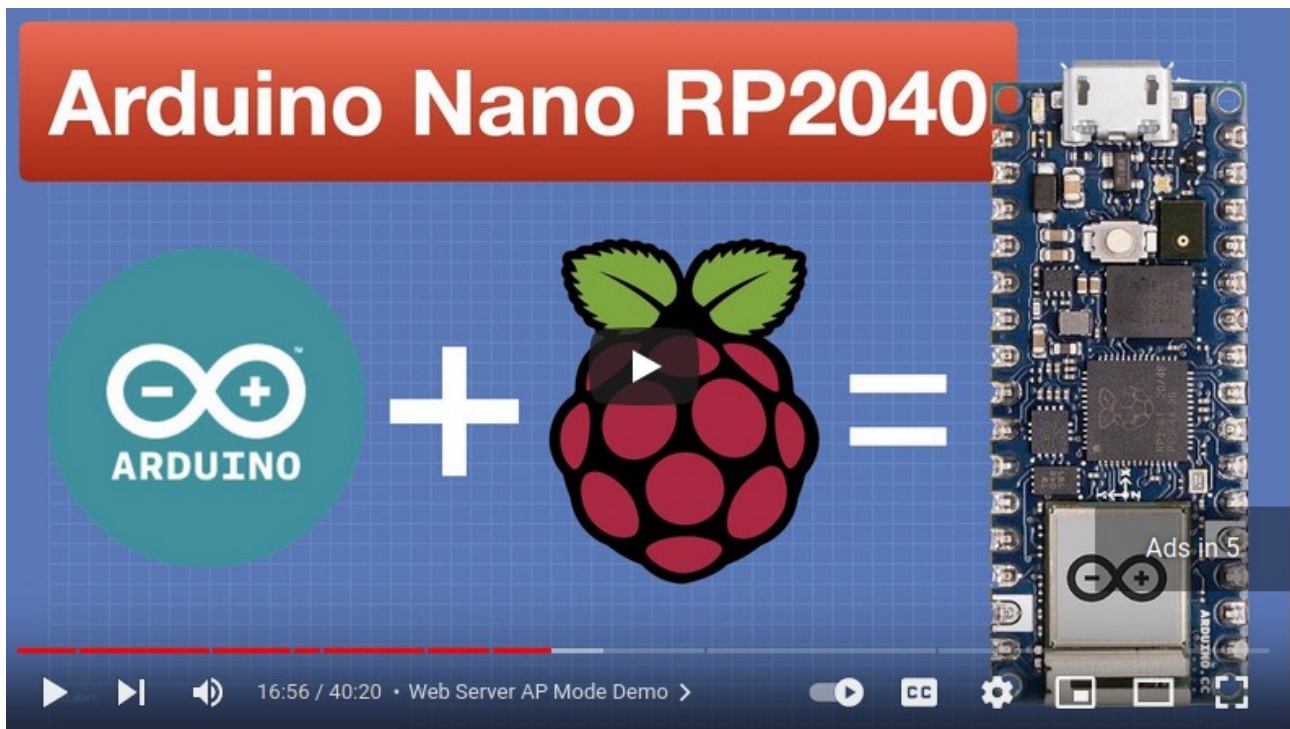
  This example code is in the public domain.

  https://www.arduino.cc/en/Tutorial/BuiltInExamples/ReadAnalogVoltage
*/

// the setup routine runs once when you press reset:
void setup() {
  // initialize serial communication at 9600 bits per second:
  Serial.begin(9600);
}

1 Arduino Nano, ATmega328P on /dev/ttyUSB1
```

https://www.youtube.com/watch?v=z8s3nl_C5sg



He indicated that when uploading getting and error.

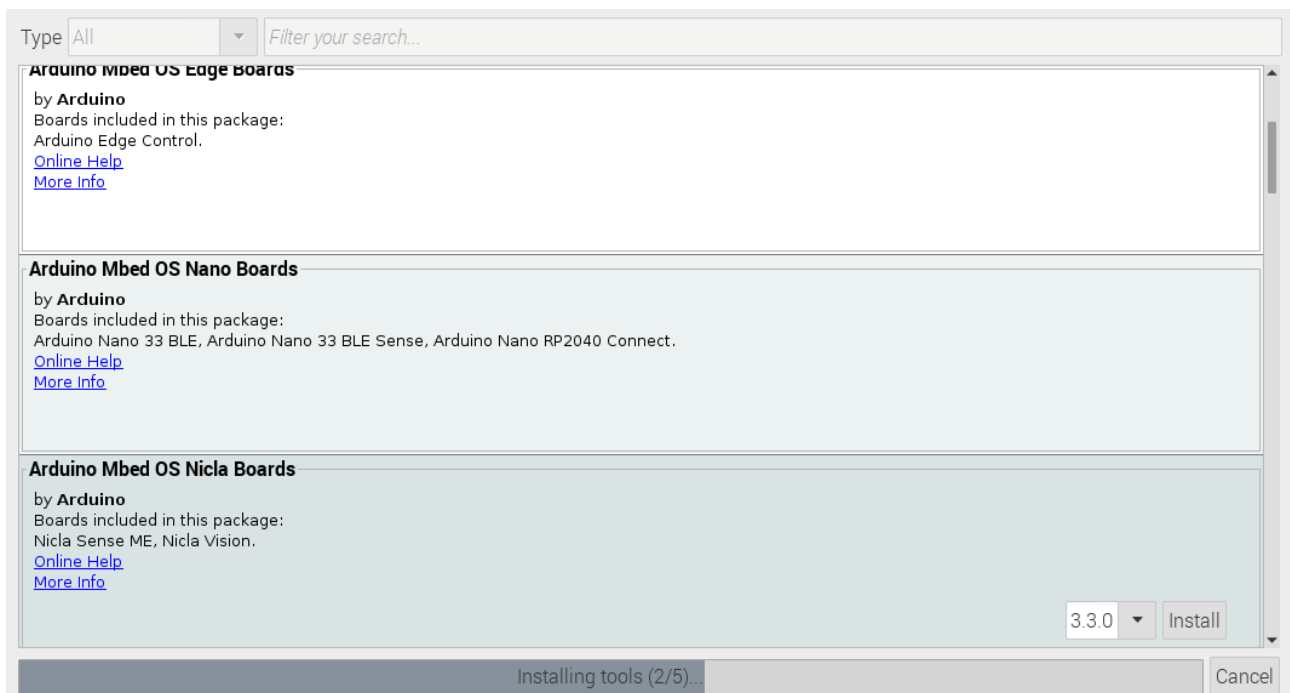
This script might be a fix

`/root/.arduino15/packages/arduino/hardware/mbed_nano/3.3.0/post_install.sh`

Describes install the

Nano RP2040 Connect

Arduino Mbed OS Nano Boards



This can be removed if needed.

Type All ▼ Filter your search...

[More Info](#)

Arduino Mbed OS Edge Boards
by **Arduino**
Boards included in this package:
Arduino Edge Control.
[Online Help](#)
[More Info](#)

Arduino Mbed OS Nano Boards
by **Arduino** version **3.3.0** **INSTALLED**
Boards included in this package:
Arduino Nano 33 BLE, Arduino Nano 33 BLE Sense, Arduino Nano RP2040 Connect.
[Online Help](#)
[More Info](#)

Select versi... ▼ Install Remove

Arduino Mbed OS Nicla Boards
by **Arduino**
Boards included in this package:
Nicla Sense ME, Nicla Vision.

Close

Xx

WiFiNINA

Type All ▼ Topic All ▼ WiFiN

WiFiNINA
by **Arduino** Version **1.8.13** **INSTALLED**
Enables network connection (local and Internet) with the Arduino MKR WiFi 1010, Arduino MKR VIDOR 4000, Arduino UNO WiFi Rev.2 and Nano 33 IoT. With this library you can instantiate Servers, Clients and send/receive UDP packets through WiFi. The board can connect either to open or encrypted networks (WEP, WPA). The IP address can be assigned statically or through a DHCP. The library can also manage DNS.
[More info](#)

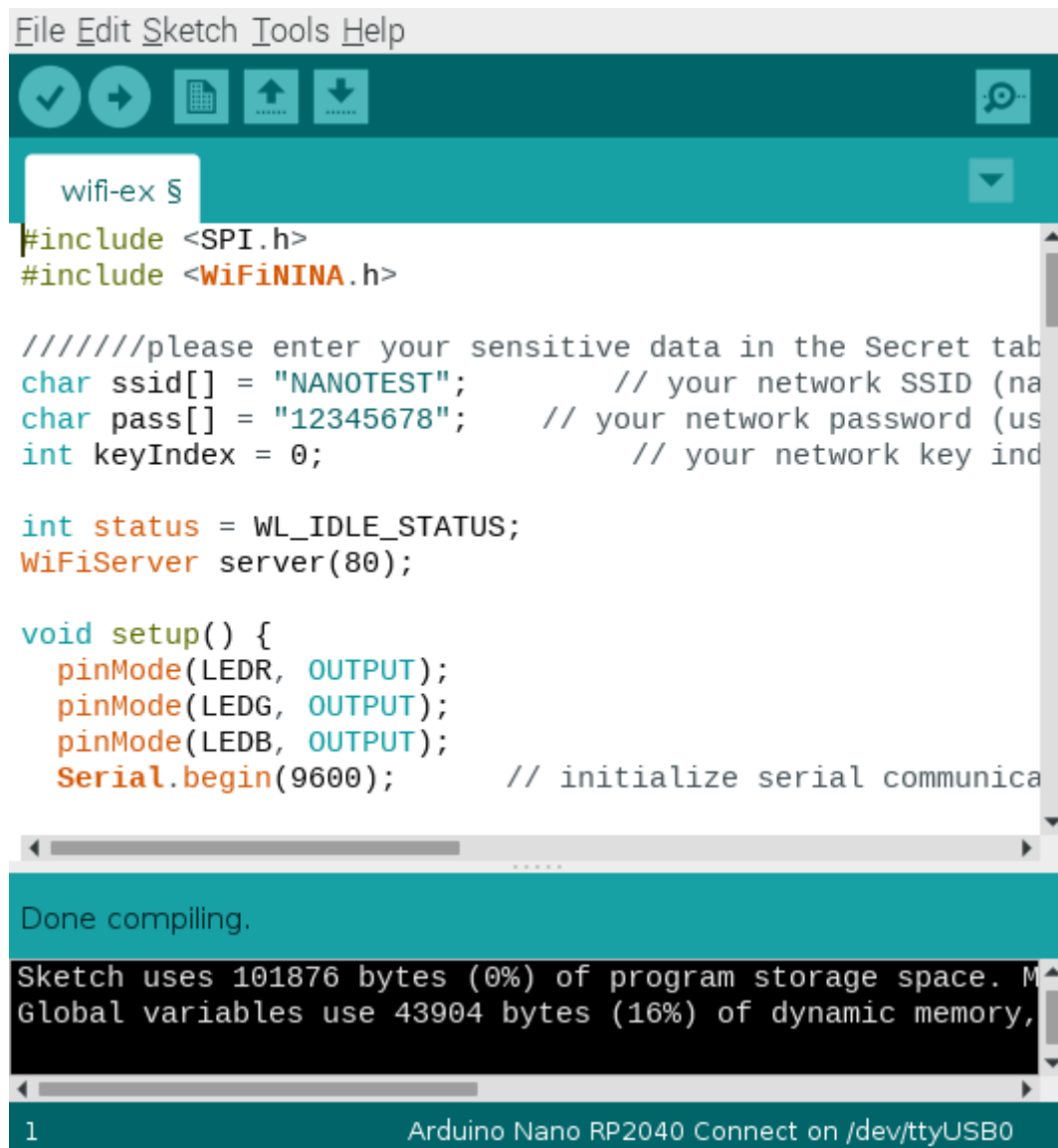
ArduinoOTA
by **Juraj Andrassy**
Upload sketch over network to Arduino board with WiFi or Ethernet libraries Based on WiFi101OTA library. Uploads over Ethernet, EthernetENC, WiFi101, WiFiNina, WiFiEspAT to SAMD, nRF5, RP2040, STM32F, ESP and to classic ATmega with more than 64 kB flash memory.
[More info](#)

ArtnetWifi
by **Stephan Ruloff**
ArtNet with the ESP8266, ESP32, RP2040 and more. Send and receive Art-Net frames using WiFi. Tested on ESP8266, ESP32, Pi Pico W, WiFi101 and WiFiNINA devices.
[More info](#)

Version 1.5.1 ▼ Install

Blynk_WiFiNINA_WM

Close



The screenshot shows the Arduino IDE interface. The menu bar includes File, Edit, Sketch, Tools, and Help. The toolbar contains icons for saving, running, uploading, and downloading. The sketch name 'wifi-ex §' is displayed in the top bar. The code editor contains the following code:

```
#include <SPI.h>
#include <WiFiINA.h>

//////////please enter your sensitive data in the Secret tab
char ssid[] = "NANOTEST";          // your network SSID (name)
char pass[] = "12345678";          // your network password (up to 63 characters)
int keyIndex = 0;                  // your network key index number between 0 and 255

int status = WL_IDLE_STATUS;
WiFiServer server(80);

void setup() {
  pinMode(LED_R, OUTPUT);
  pinMode(LED_G, OUTPUT);
  pinMode(LED_B, OUTPUT);
  Serial.begin(9600);              // initialize serial communication
}
```

The output window shows the following messages:

```
Done compiling.
Sketch uses 101876 bytes (0%) of program storage space. Maximum is 512000 bytes.
Global variables use 43904 bytes (16%) of dynamic memory, maximum is 262144 bytes.
```

The status bar at the bottom indicates '1' and 'Arduino Nano RP2040 Connect on /dev/ttyUSB0'.

xxx

<https://docs.arduino.cc/tutorials/nano-rp2040-connect/rp2040-imu-basics>

Arduino_LSM6DSOX STM32duino X-NUCLEO-IKS01A3

Type Topic STM32duino X-NUCLEO-IKS01A3

STM32duino X-NUCLEO-IKS01A3
by stm32duino Version 1.2.0 **INSTALLED**
Allows controlling the ST X-NUCLEO-IKS01A3 expansion board This library provides several sample applications to control ST X-NUCLEO-IKS01A3 expansion board
[More info](#)

Close

In line 47 added #define INT_1 INT_IMU per the video
//#define INT_1 A5

File Edit Sketch Tools Help



X_NUCLEO_IKS01A3_LSM6DSOX_MLC-1

lsm6dsox_activity_... eco

```
/**
*****
* @file      X_NUCLEO_IKS01A3_LSM6DSOX_MLC.ino
* @author    SRA
* @version   V1.1.0
* @date      March 2020
* @brief     Arduino test application for the STMicroelectr
*            MEMS Inertial and Environmental sensor expans
*            This application makes use of C++ classes obt
*            components' drivers.
*****
* @attention
*
* <h2><center>&copy; COPYRIGHT(c) 2020 STMicroelectronic
*
* Redistribution and use in source and binary forms, wit
* are permitted provided that the following conditions a
```

Done compiling.

Sketch uses 105112 bytes (0%) of program storage space. M
Global variables use 44744 bytes (16%) of dynamic memory,

1

Arduino Nano RP2040 Connect on /dev/ttyUSB0