





# MicroPython

Arduino is adding the Python language as an additional option for programming microcontrollers. Our platform of choice is **MicroPython**. We support the official MicroPython project by contributing to the upstream repo.

To load MicroPython scripts to your board, you need to use a code editor. There are two editors to choose from: [Arduino Lab for MicroPython](#) and the [OpenMV](#)



- Board Installation**  
 Create smart dashboards to control connected devices using few coding
- Code Editors**  
 Create smart dashboards to control connected devices using few coding
- MicroPython Basics**  
 An introduction to MicroPython
- Examples by Board**  
 Create smart dashboards to control connected devices using few coding

## Arduino Lab for MicroPython

Explore Arduino Lab for MicroPython, an experimental, lightweight editor, suitable for most users that aim to write standard MicroPython code.

**DOWNLOAD IDE** [↗](#)

### MicroPython 101

Explore the world of Arduino and MicroPython with the MicroPython 101 course, using the [Arduino Nano ESP32](#).

**Courses**

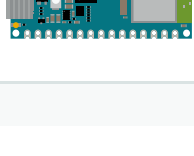
Learn MicroPython and Arduino through a series of learning chapters with practical exercises.


**Projects**

Discover plug-and-play projects with complete code & circuit examples.

**Required Hardware**

For this course, you will need the following material:

 **Arduino Nano ESP32**

 **Arduino Nano Screw Terminal**

## Firmware

Arduino has developed MicroPython support for the boards listed below. Here you can find the latest firmwares, and a link to installation instructions.

### OpenMV Firmware & IDE

OpenMV is a MicroPython-based firmware for machine vision and learning. It includes a specialized editor. Install the OpenMV firmware for Arduino via the IDE and find the latest versions on the [OpenMV release page on GitHub](#). Check it out!

**OPENMV GITHUB** [↗](#)

## Connect and Contribute

- Project Hub
- Product Compliance
- GitHub Repository
- Help Center
- Forum