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Meshtastic Python CLI installation

Meshtastic Python Library

This library provides a command-line interface (CLI) for managing the user settings of Meshtastic nodes and provides an easy API for sending and receiving messages over mesh radios. Events are delivered using a publish-subscribe model, and you can subscribe to only the message types you are interested in.

The [Meshtastic-python repo](#) is an excellent source of information. If you wish to view the code or contribute to the development of the Python library or the command-line interface, please visit the Meshtastic Python [GitHub page](#).

Prerequisites

Before installing, ensure that your system meets the following requirements:

- Serial Drivers:** Your computer should have the required serial drivers installed for the [CP210X USB to UART bridge](#) or the [CH9102](#) (for some newer boards).
- Python:** Python 3 should be installed on your system. Check with `python3 --V` and install it if necessary.
- pip:** The Python package installer pip should be installed. Check with `pip3 --V` and install it if necessary.

After ensuring the requirements are met, follow the installation instructions for your operating system in the tabbed section below.

Installation Instructions

To install the Meshtastic CLI, select the tab for your operating system and follow the step-by-step instructions for installing via `pip`. For Ubuntu only, you can alternatively install the [Standalone version](#) if you prefer.

Linux

macOS

Windows

Termux for Android

macOS

- Check that your computer has the required serial drivers installed
 - Connect your Meshtastic device to your USB port
 - Navigate to **Apple Menu** **> About This Mac > System Report...** **> Hardware > USB**
 - You should see something like **CP210X USB to UART Bridge Controller**
 - If there is no serial device shown that matches the device you are using, please review our [Install Serial Drivers](#) page before proceeding.
- Check that your computer has Python 3 installed.
 - Use the command

```
python3 --V
```
 - If this does not return a version, install [python](#)
 - The following uses Homebrew to install `python3` which includes `pip3`.
 - Check if you have Homebrew installed with the following command

```
brew --v
```
 - If it's not installed, follow the instructions on the [Homebrew website](#) before continuing.
 - Install Python3

```
brew install python3
```
 - Pip is typically installed if you are using python 3 version >= 3.4
 - Check that pip is installed using this command

```
pip3 --V
```
 - If this does not return a version, install [pip](#)
- Install pipx

```
brew install pipx
pipx ensurepath
```
- Install meshtastic:

```
pipx install "meshtastic[cli]"
```

(the `[cli]` suffix installs a few optional dependencies that match older versions of the CLI)

You may need to close and re-open the CLI. The path variables may or may not update for the current session when installing.

Standalone Installation (Ubuntu only)

- Download the `meshtastic_ubuntu` executable from the [Releases](#) page.
- Run the following command to make the file executable and rename it `meshtastic`:

```
chmod +x meshtastic_ubuntu && mv meshtastic_ubuntu meshtastic
```

- To run the CLI:

```
./meshtastic
```

TIP

Copy (or move) this binary somewhere in your path.

- Meshtastic Python Library
- Prerequisites
- Installation
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- Standalone
- Installation (Ubuntu only)

