

micropython

esptools / ampy

```
pip install esptool
pip install adafruit-ampy
```

identify

```
esptool.py chip_id
```

esp32

Based on [loboris fork](#) of micropython

```
sudo apt-get install git wget make libncurses-dev flex bison gperf python
python-serial
```

```
git clone --depth 1 https://github.com/loboris/MicroPython_ESP32_psRAM_LoBo
cd MicroPython_ESP32_psRAM_LoBo
cd MicroPython_BUILD
./BUILD.sh menuconfig
./BUILD.sh
./BUILD.sh flash
# reboot board disconnecting power
```

old

- download micropython from <http://micropython.org/download#esp32>

If you are putting MicroPython on for the first time then you should first erase the entire flash

```
esptool.py --port /dev/ttyUSB0 erase_flash
```

esp8266

download micropython from <http://micropython.org/download#esp8266>

```
wget http://micropython.org/resources/firmware/esp8266-20171101-v1.9.3.bin
```

erase (optional ?) and upload

```
esptool.py --port /dev/ttyUSB0 erase_flash
```

```
esptool.py --port /dev/ttyUSB0 --baud 460800 write_flash --flash_size=detect 0 esp8266-20171101-v1.9.3.bin
```

access from serial over USB

```
sudo apt install picocom  
picocom /dev/ttyUSB0 -b115200
```

network wifi STA

```
import network  
sta_if = network.WLAN(network.STA_IF)  
sta_if.active(True)  
sta_if.connect('<your ESSID>', '<your password>')  
sta_if.ifconfig()  
  
( '192.168.2.32', '255.255.255.0', '192.168.2.1', '192.168.2.1' )
```

enable webrepl

```
import webrepl_setup
```

reboot and connect to webrepl using <http://micropython.org/webrepl/>

main

```
ampy -p /dev/ttyUSB0 put blink.py /main.py
```

led

```
from machine import Pin  
from time import sleep  
  
# GPIO16 (D0) is the internal LED for NodeMCU  
led = Pin(16, Pin.OUT)  
  
# The internal LED turn on when the pin is LOW  
while True:  
    led.value(not led.value())  
    #led.on()  
    sleep(1)  
    #led.off()  
    #sleep(1)
```

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<https://wiki.csgalileo.org/projects/internetofthings/micropython?rev=1524485662>

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