



🔗 2 Branches   🏷 0 Tags



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Code



**jungervin** v1.0.0.12

ccf0873 · 6 years ago ⌚



EsPy v1.0.0.12 6 years ago



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## Micropython IDE for ESP8266



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Activity



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### Releases

No releases published



README



### Packages

No packages published

### Languages



# MicroPython IDE for ESP8266

v1.0.0.12

## Downloads

<https://github.com/jungervin/EsPy/tree/master/EsPy/Release>

## Minimum Requirements:

- MS Windows 7
- MS .NET Framework 4.6

## Features:

- Code editor
- Interactive terminal
- File manager
- esptool

## Installation:

Only unzip the downloaded file and run EsPy.exe

To use all features ([esptool](#)), [Python](#) installation is recommended

### After Python installation:

- `python -m pip install --upgrade pip`
- `python -m pip install esptool`

## Quick Start:

1. On the menubar choose Device => Ports and select one
2. Press the connect button on the toolbar
3. Press the Soft Reset button on the toolbar
4. Press the New button on the toolbar and create a new py file
5. Type the code and press the Run button on the toolbar.  
(When the statusbar color is orange, it means the device is busy)

### quick test:

```
from machine import Pin
import time

p = Pin(2, Pin.OUT)

for i in range(5):
    print(i)
    time.sleep_ms(500)
    p.low()
    time.sleep_ms(500)
    p.high()
```



### Good to know:

- Filemanager is enabled when device is connected and not busy
- Esptool enabled when the port is closed

## Images:

```
File Edit View Device Tools Help
simple.py blink.py main.py mqtt_gpio.py sh33.py Terminal
31 def mqtt_process(topic, msg):
32     print(TOPIC, msg)
33     print(TOPIC, msg)
34     print(TOPIC, msg)
35     return
36
37 client_id = urllib.parse.urlencode({'client_id': str(client_id)}).decode()
38 device = b'device/' + str(client_id)
39 topic = device + b'/sensor'
40 mqtt = MQTTClient(client_id, broker, port, user, pw, 30)
41 mqtt.set_callback(mqtt_process)
42 mqtt.set_last_will(device + b'/LWT', "disconnected", True, 1)
43
44 try:
45     mqtt.connect()
46     mqtt.subscribe(topic)
47     mqtt.publish(device + b'/LWT', "connected")
48 except:
49     machine.reset()
50
51 sensor = sht30.SHT30()
52
53 while 1:
54     if sta_if.is_connected():
55         mqtt.check_msg()
56         data = ("temperature": %s, "humidity": %s) % sensor.measure()
57         print(data)
58         mqtt.publish(topic, data, True, 1)
59         time.sleep(1)
60     else:
61         print("wifi is not connected")
62         machine.reset()
63     except:
64         print("Exception")
65         machine.reset()
66
67 machine.reset()
68
57 {"temperature": 20.67673, "humidity": 61.03301}
58 TOPIC: b'device/32b44908/sensor'
59 MSG: b'{"temperature": 20.67673, "humidity": 61.03301}'
60 {"temperature": 20.63132, "humidity": 61.14137}
61 TOPIC: b'device/32b44908/sensor'
62 MSG: b'{"temperature": 20.63132, "humidity": 61.14137}'
63 {"temperature": 20.69086, "humidity": 61.05048}
64 TOPIC: b'device/32b44908/sensor'
65 MSG: b'{"temperature": 20.69086, "humidity": 61.05048}'
66 {"temperature": 20.69086, "humidity": 61.05044}
67 TOPIC: b'device/32b44908/sensor'
68 MSG: b'{"temperature": 20.69086, "humidity": 61.05044}'
69 {"temperature": 20.66871, "humidity": 61.14595}
70 TOPIC: b'device/32b44908/sensor'
71 MSG: b'{"temperature": 20.66871, "humidity": 61.14595}'
72 {"temperature": 20.56189, "humidity": 61.0956}
73 TOPIC: b'device/32b44908/sensor'
74 MSG: b'{"temperature": 20.56189, "humidity": 61.0956}'
75 {"temperature": 20.69086, "humidity": 61.15968}
76 TOPIC: b'device/32b44908/sensor'
77 MSG: b'{"temperature": 20.69086, "humidity": 61.15968}'
78 {"temperature": 20.70343, "humidity": 61.15205}
79 TOPIC: b'device/32b44908/sensor'
80 MSG: b'{"temperature": 20.70343, "humidity": 61.15205}'
81 {"temperature": 20.66871, "humidity": 61.1017}
82 TOPIC: b'device/32b44908/sensor'
83 MSG: b'{"temperature": 20.66871, "humidity": 61.1017}'
84 {"temperature": 20.67673, "humidity": 61.18028}
85 TOPIC: b'device/32b44908/sensor'
86 MSG: b'{"temperature": 20.67673, "humidity": 61.18028}'
87 {"temperature": 20.64468, "humidity": 61.09102}
88 TOPIC: b'device/32b44908/sensor'
89 MSG: b'{"temperature": 20.64468, "humidity": 61.09102}'
90 {"temperature": 20.64468, "humidity": 61.09102}
91 TOPIC: b'device/32b44908/sensor'
92 MSG: b'{"temperature": 20.64468, "humidity": 61.09102}'
93 {"temperature": 20.70343, "humidity": 61.08797}
94
```

