

Setting up your Raspberry Pi 3 with the TIU 11 supplied software

Step 1: Remove the Raspberry Pi from its box. Gently remove it from the static protective sleeve. Place the pi on the sleeve.

Step 2: Insert the MicroSD card into the MicroSD slot located on the underside of the Pi.

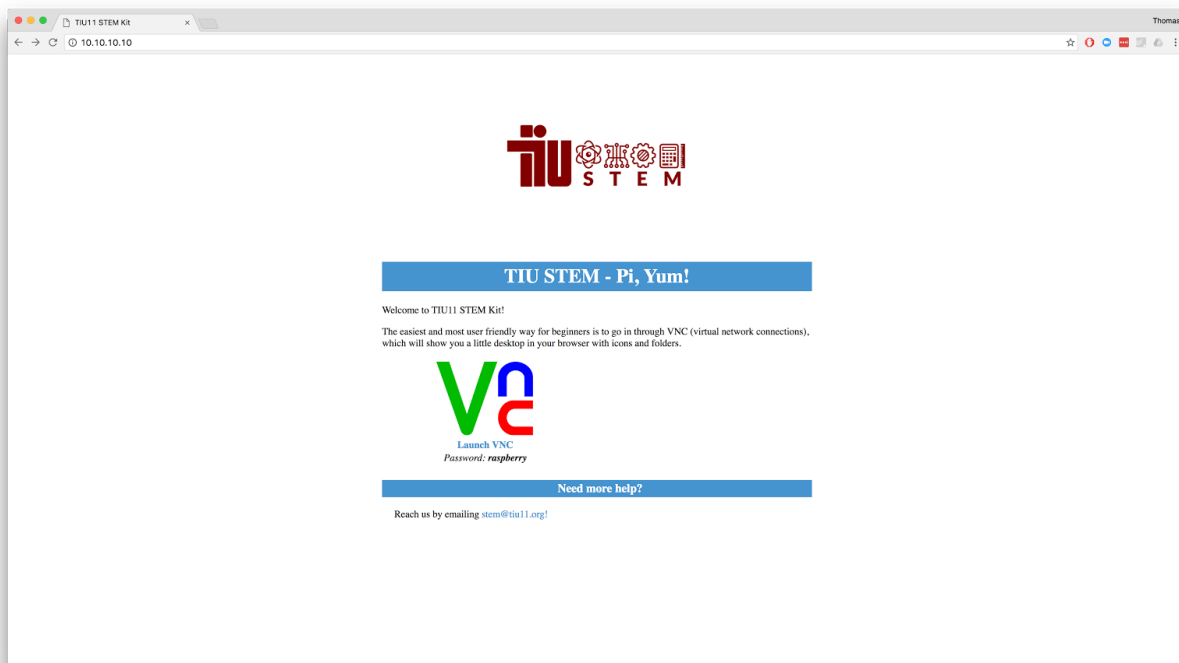
Step 3: Plug in the supplied Wifi dongle.

Step 4: Connect the power to the micro USB port. The Pi will take about 1 minute to boot up properly.

Step 5: Look for the Raspberry Pi Wireless network (raspberrypi-###, the number will match the number on your SD card case). Connect to it.



Step 6: go to 10.10.10.10 in your preferred browser (you may also download our beta app for connecting <https://stem.tiu11.org/downloads/>).



Step 7: Log in with the password 'raspberry'

Activities: Breadboarding

Here is how to get started on the STEM breadboarding activities. For more information and these directions see

<https://www.raspberrypi.org/documentation/usage/python/>

IDLE - Integrated DeveLopment Environment

The easiest introduction to Python is through IDLE, a Python development environment. Open IDLE from the Desktop or applications menu:



PYTHON FILES IN IDLE

To create a Python file in IDLE, click File > New File and you'll be given a blank window. This is an empty file, not a Python prompt. You write a Python file in this window, save it, then run it and you'll see the output in the other window.

For example, in the new window, type (once you have your LED and resistors hooked up to the breadboard):

```
from gpiozero import LED from time import sleep
```

```
red = LED(17)
```

```
while True: red.on() sleep(1)
```

```
    red.off()
```

```
    sleep(1)
```

Then save this file (File > Save or Ctrl + S) and run (Run > Run Module or hit F5) and you'll see the output in your original Python window.