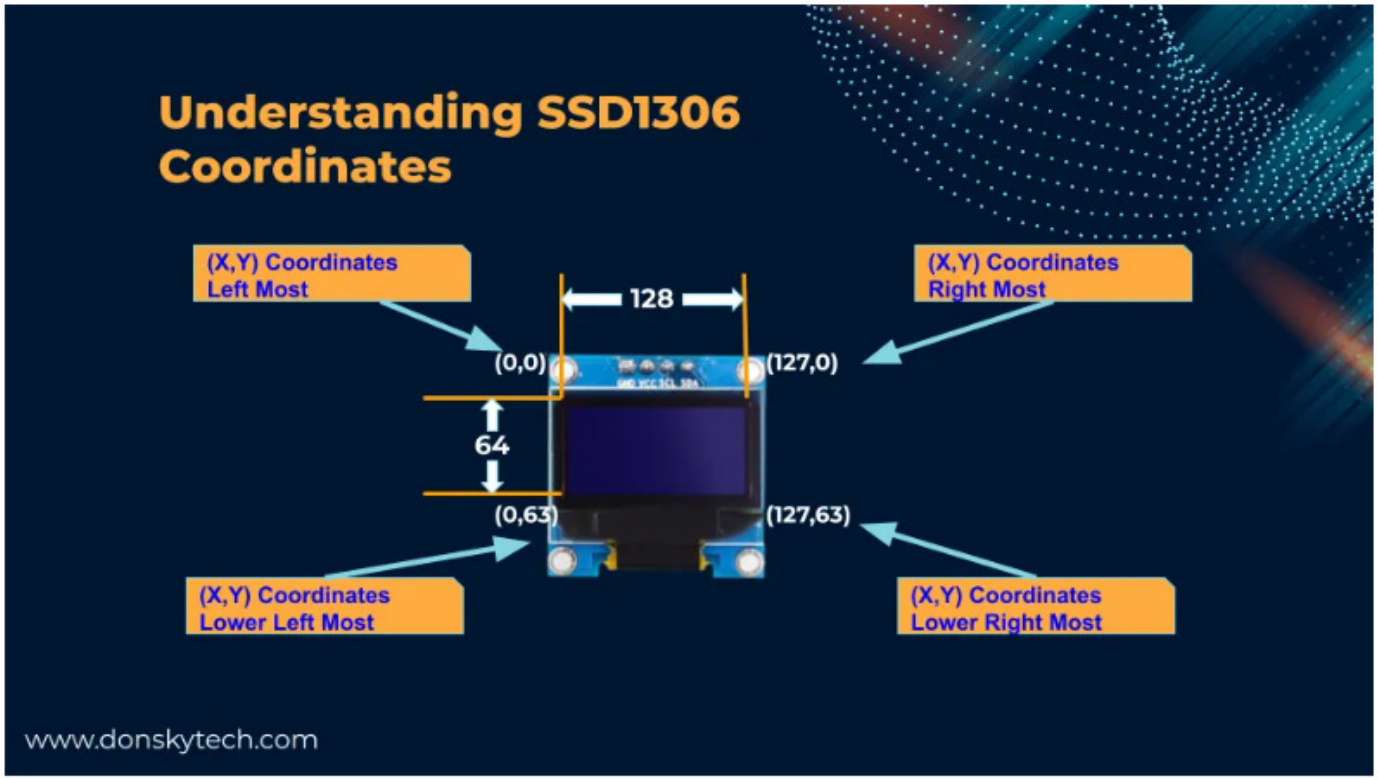
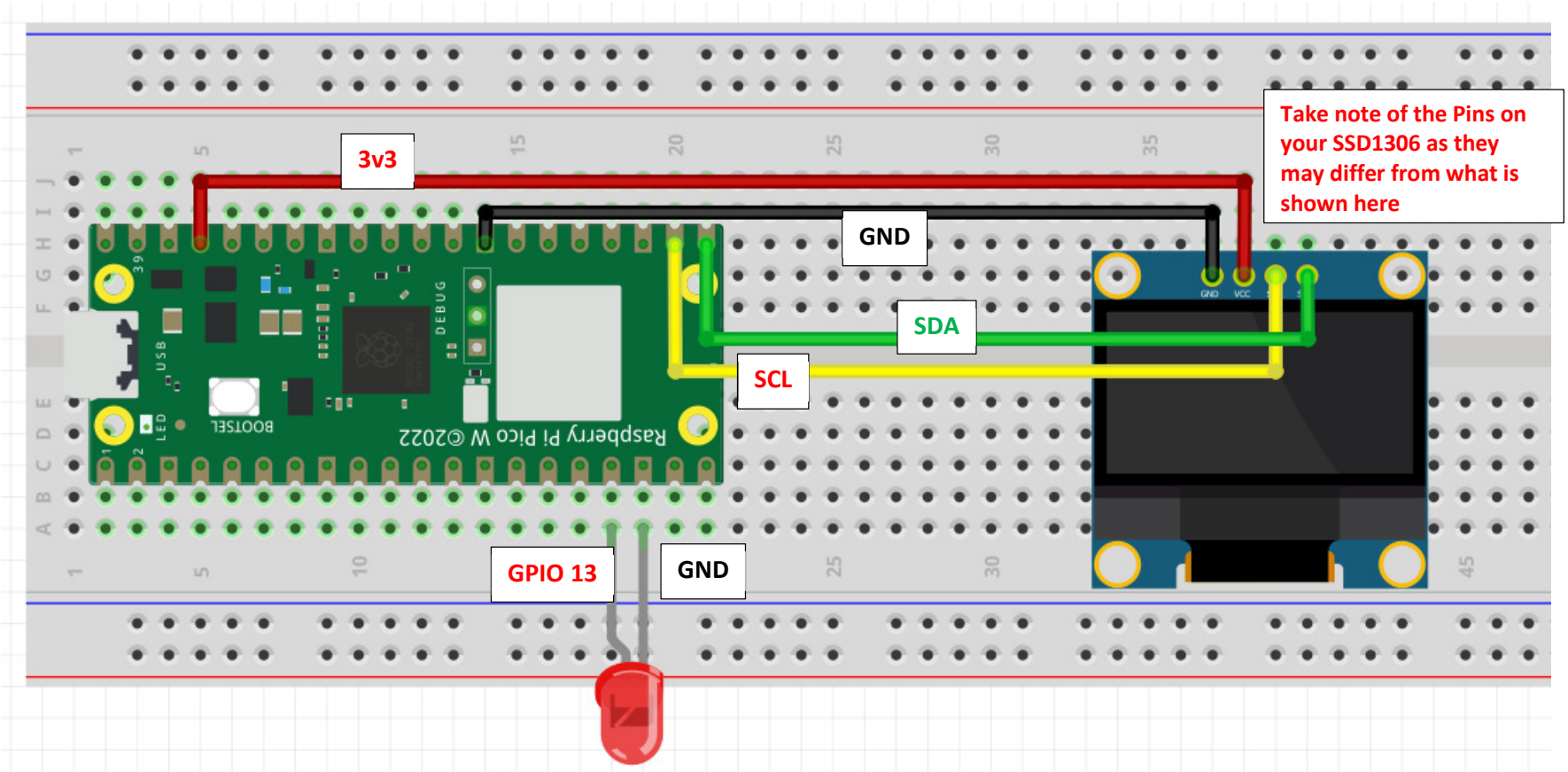
Understanding the SSD1306 OLED coordinates



Our SSD1306 OLED display is a 128 PIXEL X 64 PIXEL display. To display something on it we need to specify the location on the display where we want to place it. This is called the co-ordinates, specified as x-axis and y-axis. X-axis position is 0 to 127 and y-axis is 0 to 63.

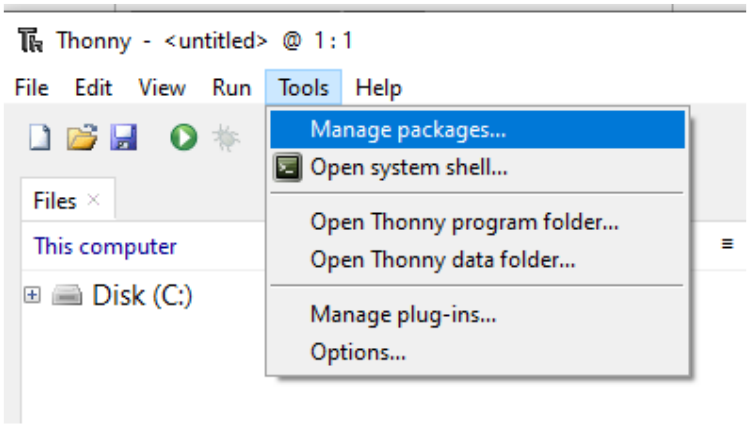
WIRING UP SSD1306



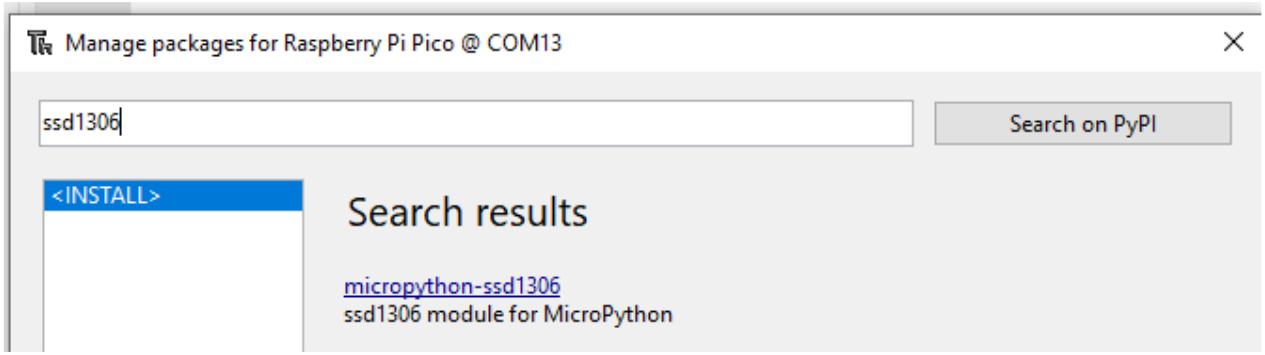
The SSD1306 needs a library to be installed on your pico.

To install this library, open up your Thonny IDE

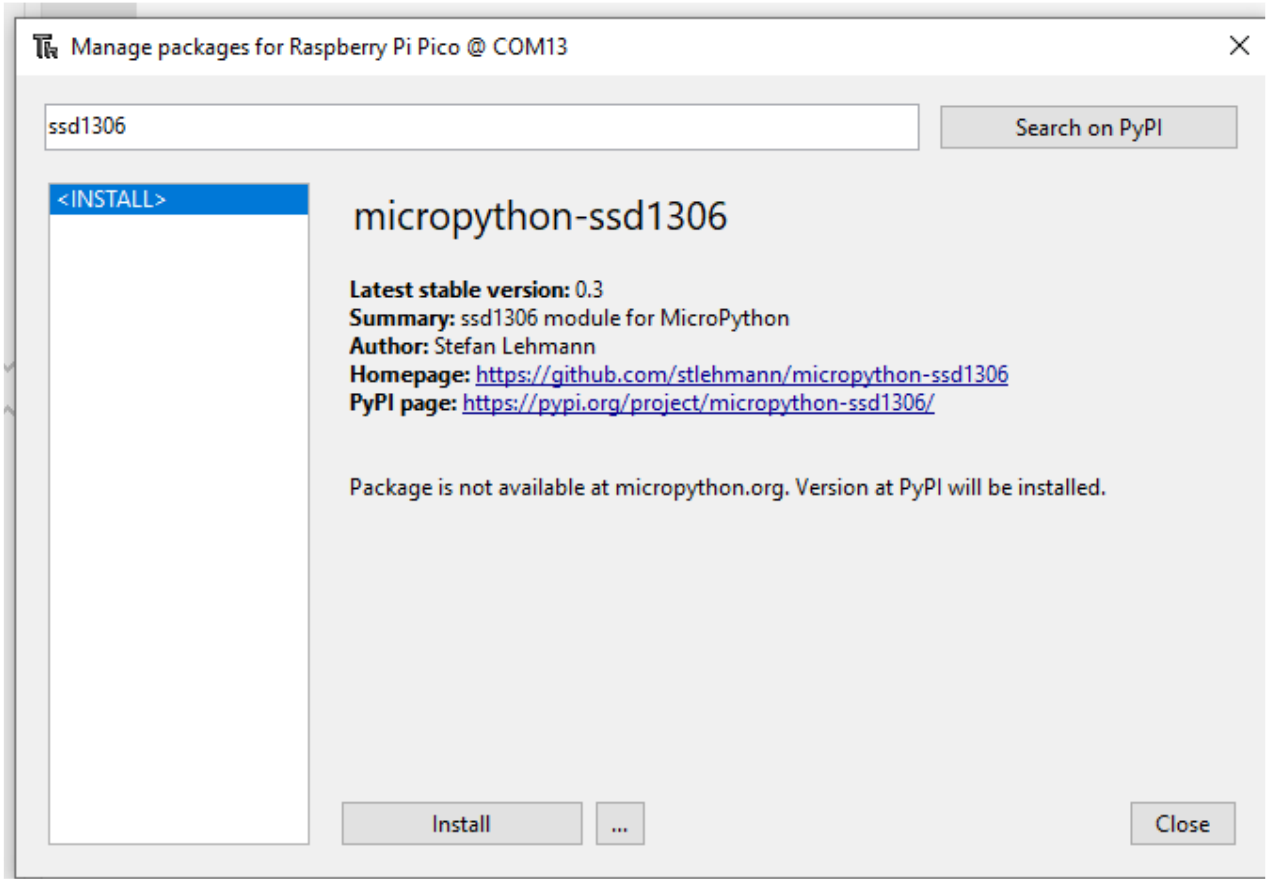
Click Tools and then click Manage Package



Enter ssd1306 and Hit Enter. You will see the following results. Click on micropython-ssd1306

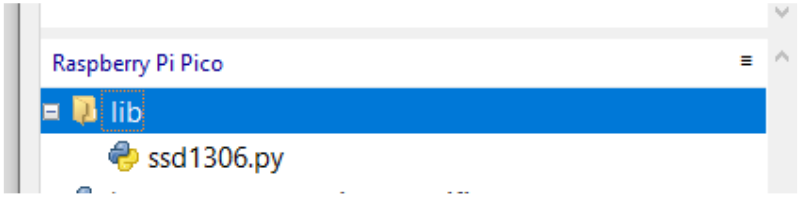


When you see this, click Install



Click Close, once the installation is completed

You will see the ssd1306.py library installed in the lib folder.



Use this test program to test your installation. Play with it by entering your own text.

```
from machine import Pin, I2C
from ssd1306 import SSD1306_I2C
import time
WIDTH = 128
HEIGHT = 64
i2c=I2C(0, scl = Pin(17), sda=Pin(16),freq=400000)
display = SSD1306_I2C(WIDTH, HEIGHT, i2c)
display.fill(0)
display.show()
display.text("1234567890123456",0,0)
display.text("Line 2",0,14)
display.text("Line 3",0,28)
display.text("Line 4",0,42)
display.text("Line 5",0,56)
display.show()
time.sleep(1)
display.fill(0)
```