Prepping BlueFruit & Installing Mu

*****Software Needed*****

(Mu Editor, Circuit Python Firmware, Circuit Python Libraries):

Downloads Required

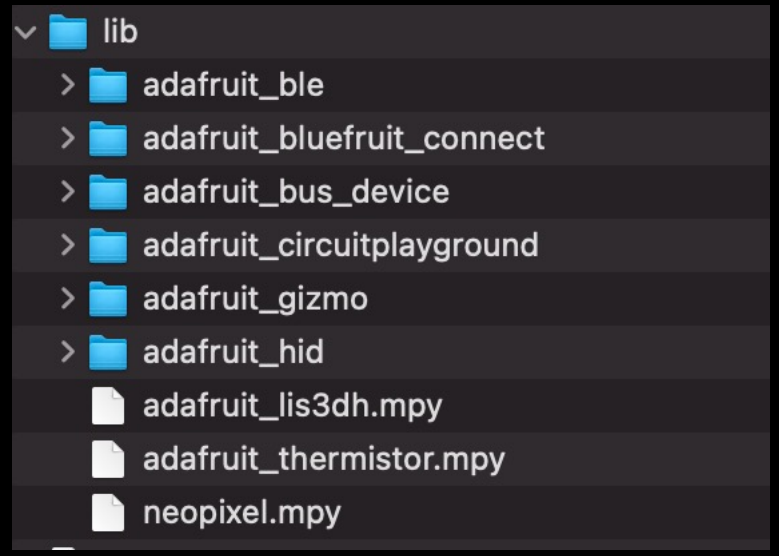
- Clone the repo (or download as zip) from this location for demo circuit python source code and library folder that will be loaded to your device in later steps.
- Download Mu – Editor for Circuit Python and includes REPL. (Required for Bluefruit Project). A text editor may also be used but Mu is recommended so you can use the REPL.
- (Optional) Circuit Python v7 Libraries – Download the full libraries for (v7.x) (a subset of libraries are included in above repo).
- (Optional) Driver for Windows – If your Bluefruit is not recognized with a legit USB cable and you are running Windows, you may need to install this.

Prepping the BlueFruit

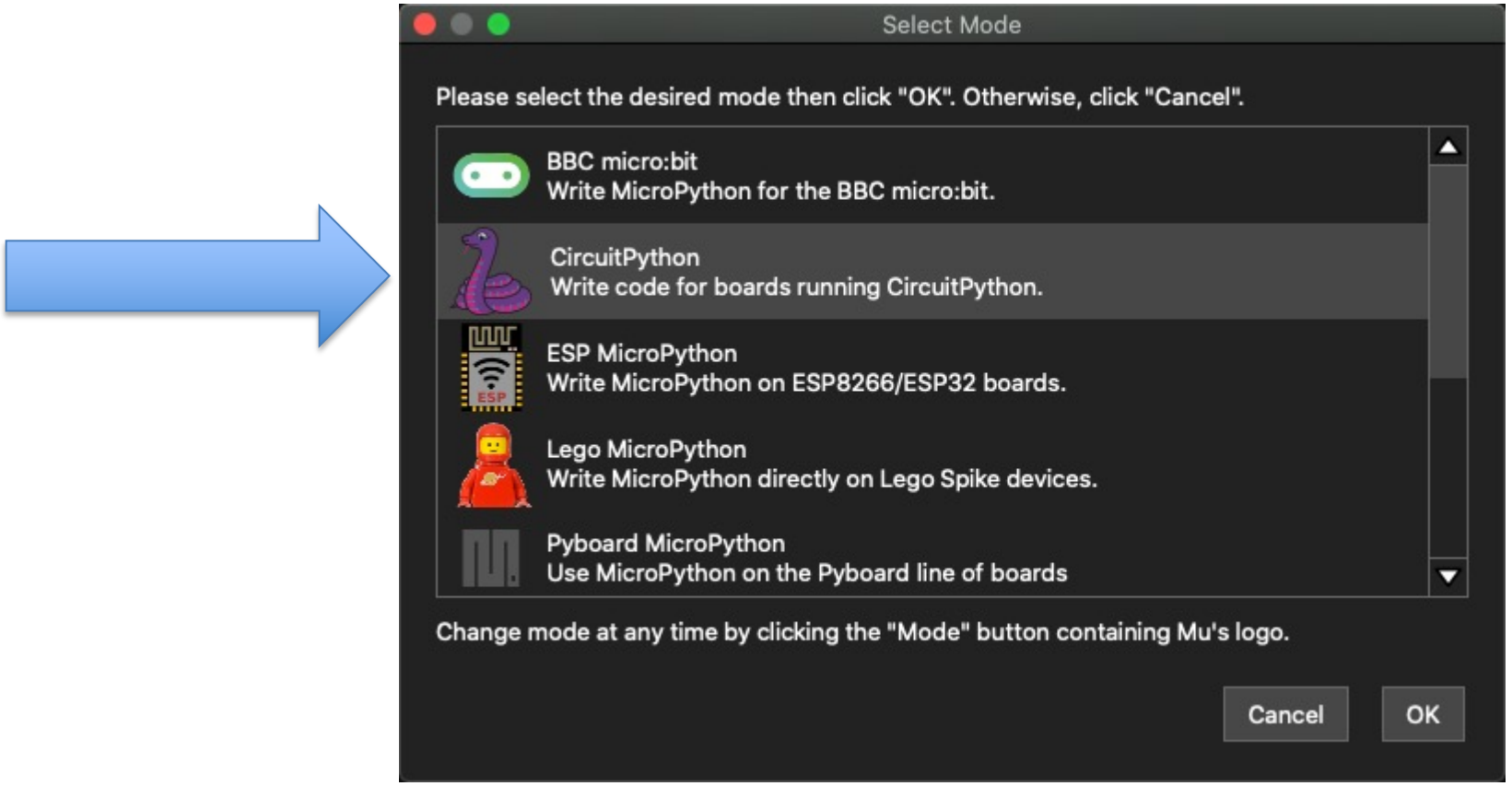
- Steps:
  - Connect Bluefruit with a USB cable you know works with Data
  - Double click middle button of Bluefruit to enter DFU mode (Device Firmware Update mode)
  - Browse to the USB drive (CPLAYBTBOOT)
  - Copy the file with the .UF2 extension from the repo (or download link below) to the CPLAYBTBOOT root directory (Wait for light sequence to change)
  - After updating, your Bluefruit storage will be renamed to CIRCUITPY and you will have a few files in there (code.py, which is a "Hello World" sketch).
- Alternatively, download latest uf2 file from here: (v7.1.0)
  - https://circuitpython.org/board/circuitplayground_bluefruit/

Circuit Python Libraries (V7)

- Copy the lib directory from the repo to the CIRCUITPY root folder (bluefruit storage). The folder structure should look like the image on the right.
- Optional: Download full Circuit Python Libraries (v7) : https://circuitpython.org/libraries



After installing, open Mu, and select “CircuitPython”



Creating your first program

code.py

```
1  import time
2  from adafruit_circuitplayground import cp
3  cp.pixels.brightness = 0.3
4
5  while True:
6      cp.pixels[0] = (255, 0, 0)
7      time.sleep(0.5)
8      cp.pixels[0] = (0,0,0)
9      time.sleep(0.5)
10
```

Save as “code.py” into root folder of CIRCUITPY USB Drive and watch the magic happen.

Copy/Rename any of the files prefixed with .py files to “code.py” in the root folder to run that code.