

Make Arduino Applications for ODROID-GO

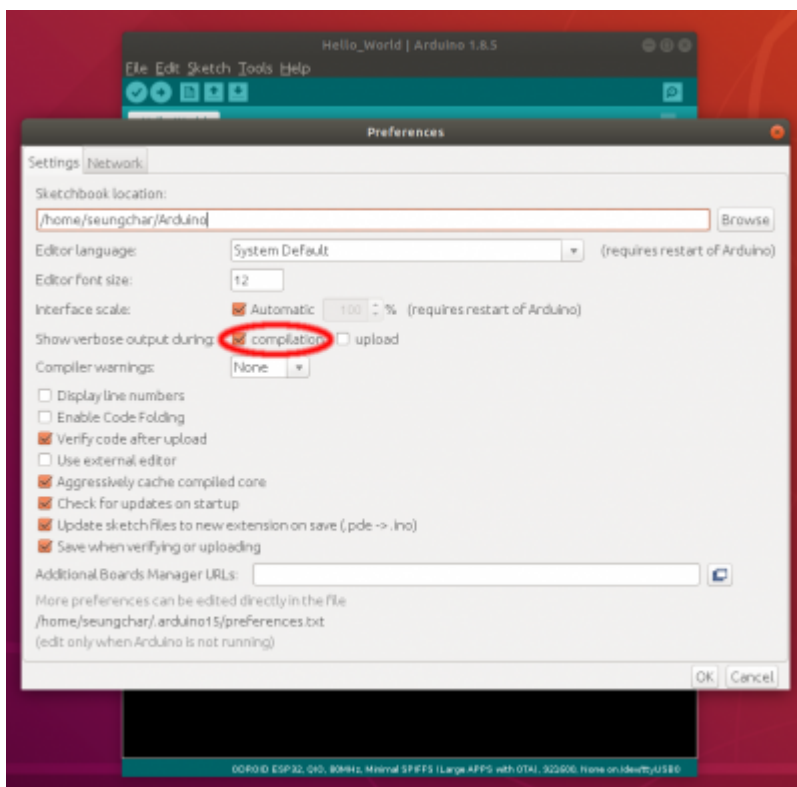
If you do not have Arduino IDE for ESP32, [please proceed to this link first](#).

Get mkfw tool and build it

```
git clone https://github.com/othercrashoverride/odroid-go-firmware.git -b factory
cd odroid-go-firmware/tools/mkfw
make
```

Configure Arduino IDE to show verbose output

After you run Arduino IDE, select compilation, File → Preferences → Show verbose output during.



Copy Arduino binary

You can see the path of Arduino binary you compiled on the log.
Copy the binary into mkfw folder.



Including a data folder into the .fw

We will take a Weather-Station as an example.

https://github.com/hardkernel/ODROID-GO/tree/master/examples/Applications/Weather_Station

First, we will make a data folder into a binary.

And the two binary files(data folder and firmware) will be a .fw file with mkfs.

Make a data folder into ".bin" file

Get the mkspiffs at [this](#) and then, run the command.

```
mkspiffs -c ./data -b 4096 -p 256 -s 0x100000 spiffs.bin
```

For detail on command,

<https://docs.espressif.com/projects/esp-idf/en/latest/api-reference/storage/spiffs.html#tools>

Make two binaries(spiffs.bin, Weather_Station.ino.bin) into .fw file

```
./mkfw test tile.raw 0 16 1048576 app Weather_Station.ino.bin 1 130 1048576  
"spiffs" spiffs.bin  
cp firmware.fw Weather_Station.fw
```

The SPIFFS partition information is derived from here:

https://github.com/espressif/esp-idf/blob/master/components/spi_flash/include/esp_partition.h

Copy the firmware.fw to your SD card "odroid/firmware/" folder

From:

<http://wiki.odroid.com/> - **ODROID Wiki**

Permanent link:

http://wiki.odroid.com/odroid_go/arduino_app

Last update: **2018/09/11 03:17**

