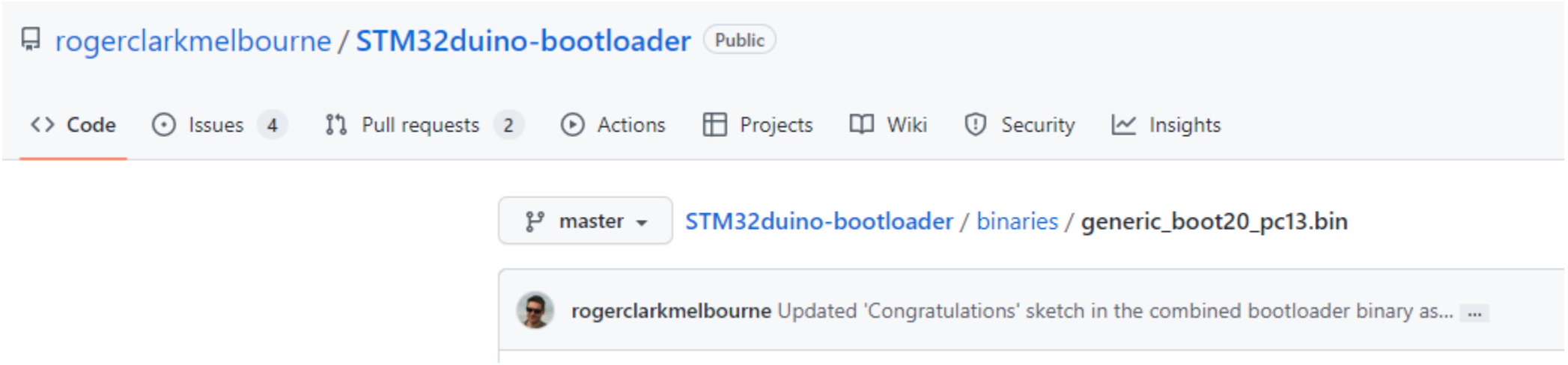
This is a UPDATED document is based on the following document:

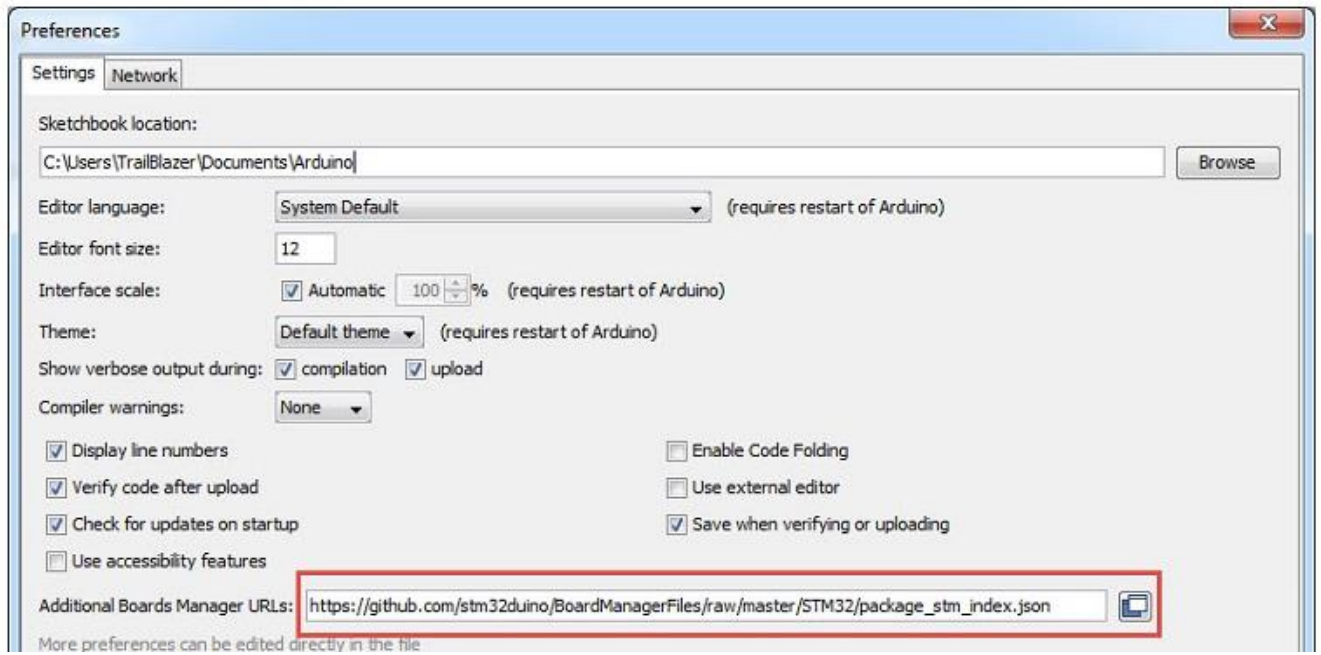
https://www.electronicshub.org/how-to-upload-stm32f103c8t6-usb-bootloader/

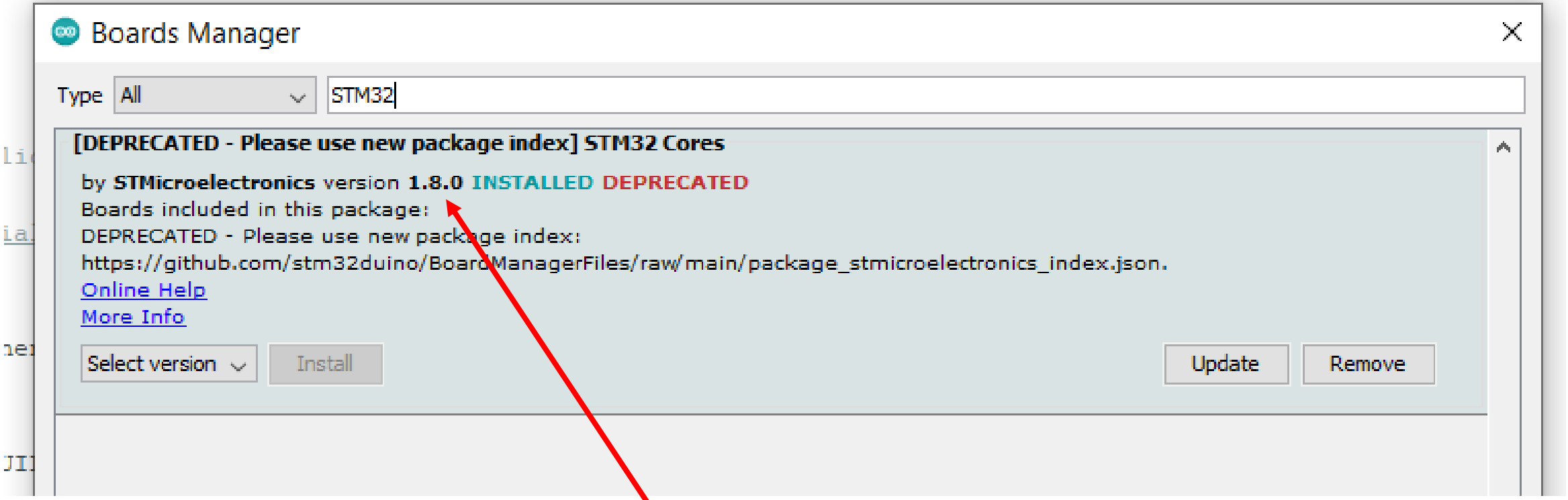


Configuring Arduino IDE to Program STM32F103C8T6 Blue Pill

I am sure you already have Arduino IDE installed on your PC (or Laptop). If not, then install it first. After than open your Arduino IDE and select File -> Preferences. You will find a tab called “Additional Boards Manager URLs”. Copy the following link and paste it there.

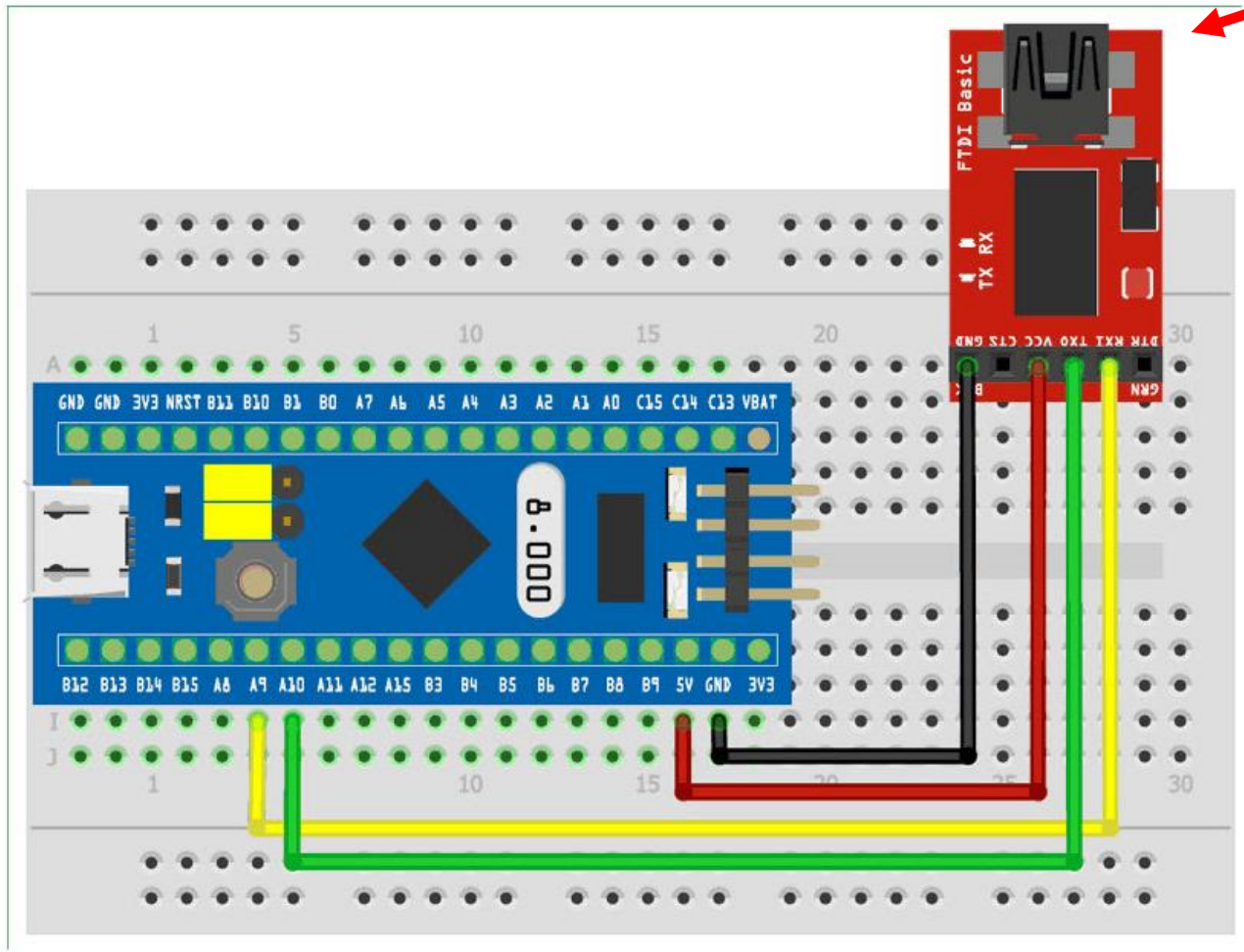
” https://github.com/stm32duino/BoardManagerFiles/raw/master/STM32/package_stm_index.json “





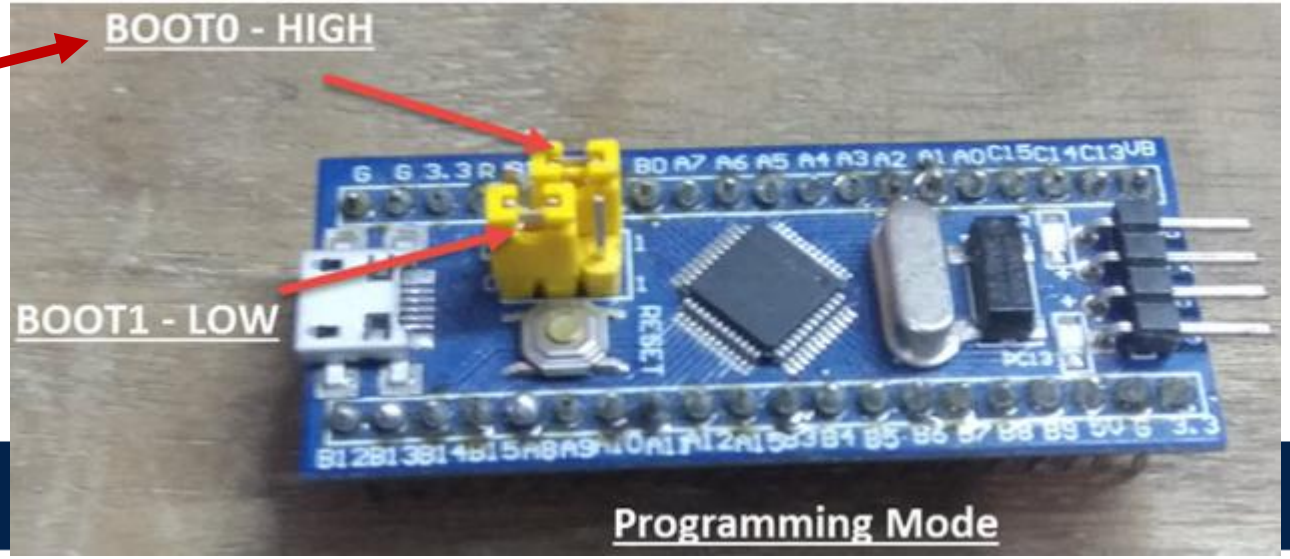
Install this !!!

e.g. COM5



https://www.electronicshub.org/how-to-upload-stm32f103c8t6-usb-bootloader/

Change Jumper to this position !!



STM32 CubeProgrammer

Erasing & Programming

Connected

Download

File path C:\Users\theun\Downloads\generic_boot20_pc Browse

Start addr... 0x08000000

Skip flash erase before programming

Verify programming

Run after programming

Start Programm...

Automatic Mode

Full chip erase

Erase flash memory | Erase external memory

Erase selected sectors | Full chip erase

Select	Index	Start Address	Size
	0	0x08000000	1K
	1	0x08000400	1K
	2	0x08000800	1K
	3	0x08000C00	1K
	4	0x08001000	1K
	5	0x08001400	1K
	6	0x08001800	1K

UART Disconnect

UART configuration

Port COM5

Baudrate 115200

Parity Even

Data bits 8

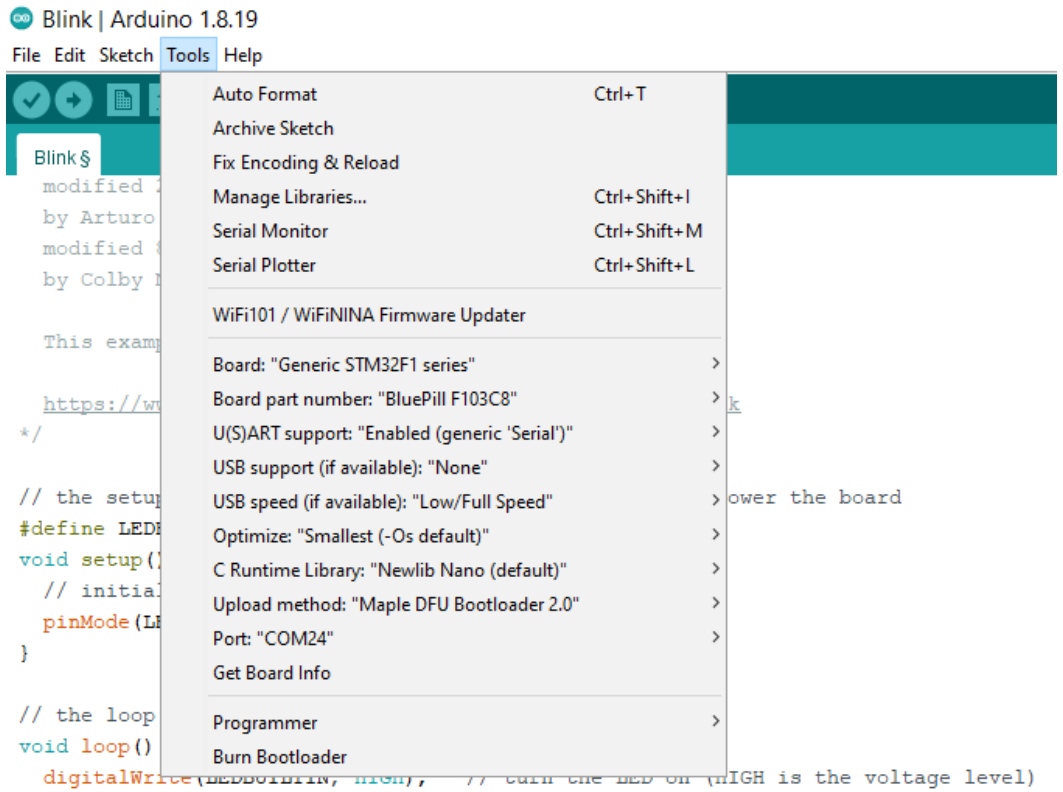
Stop bits 1.0

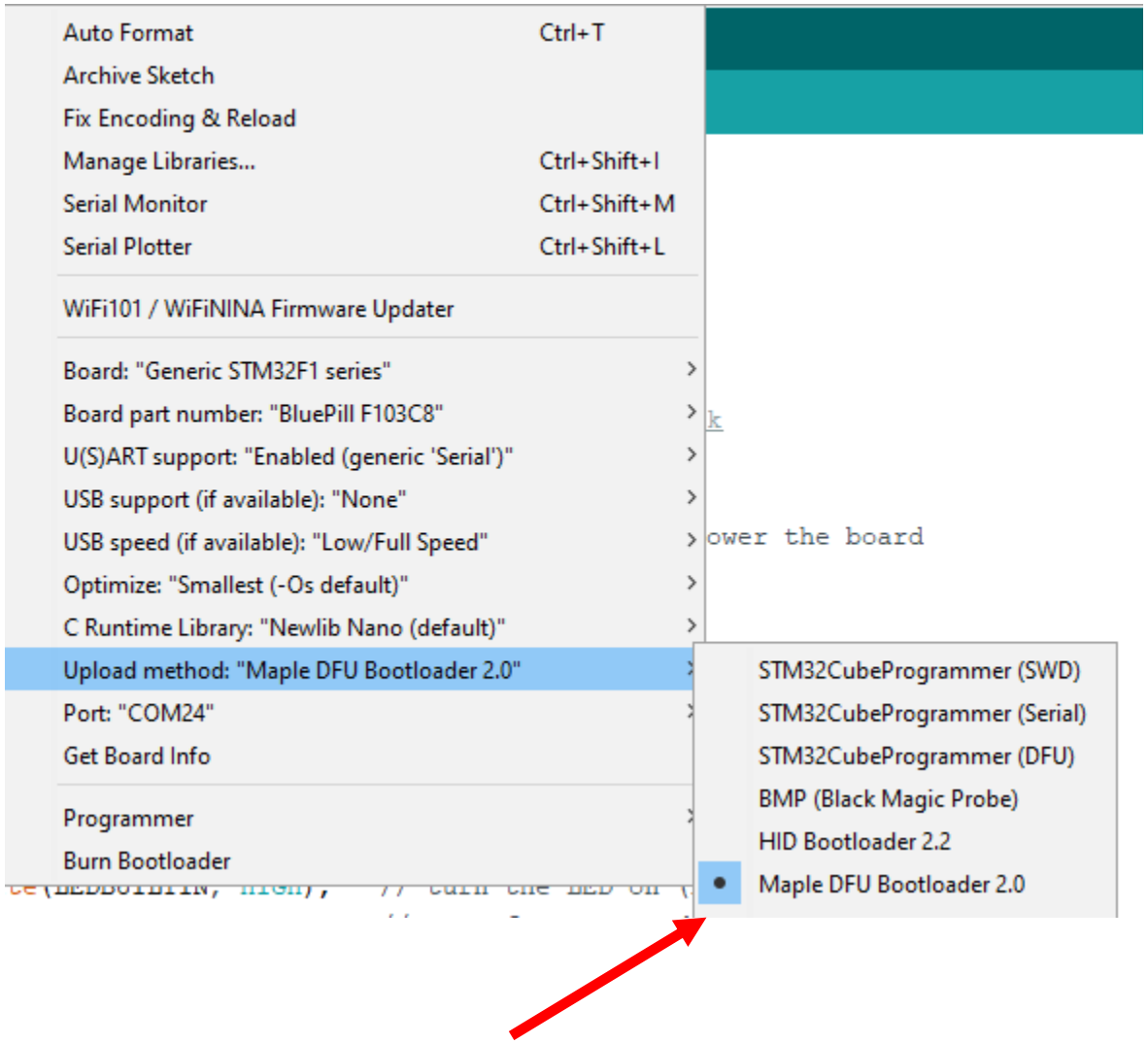
Flow control Off

RTS 0

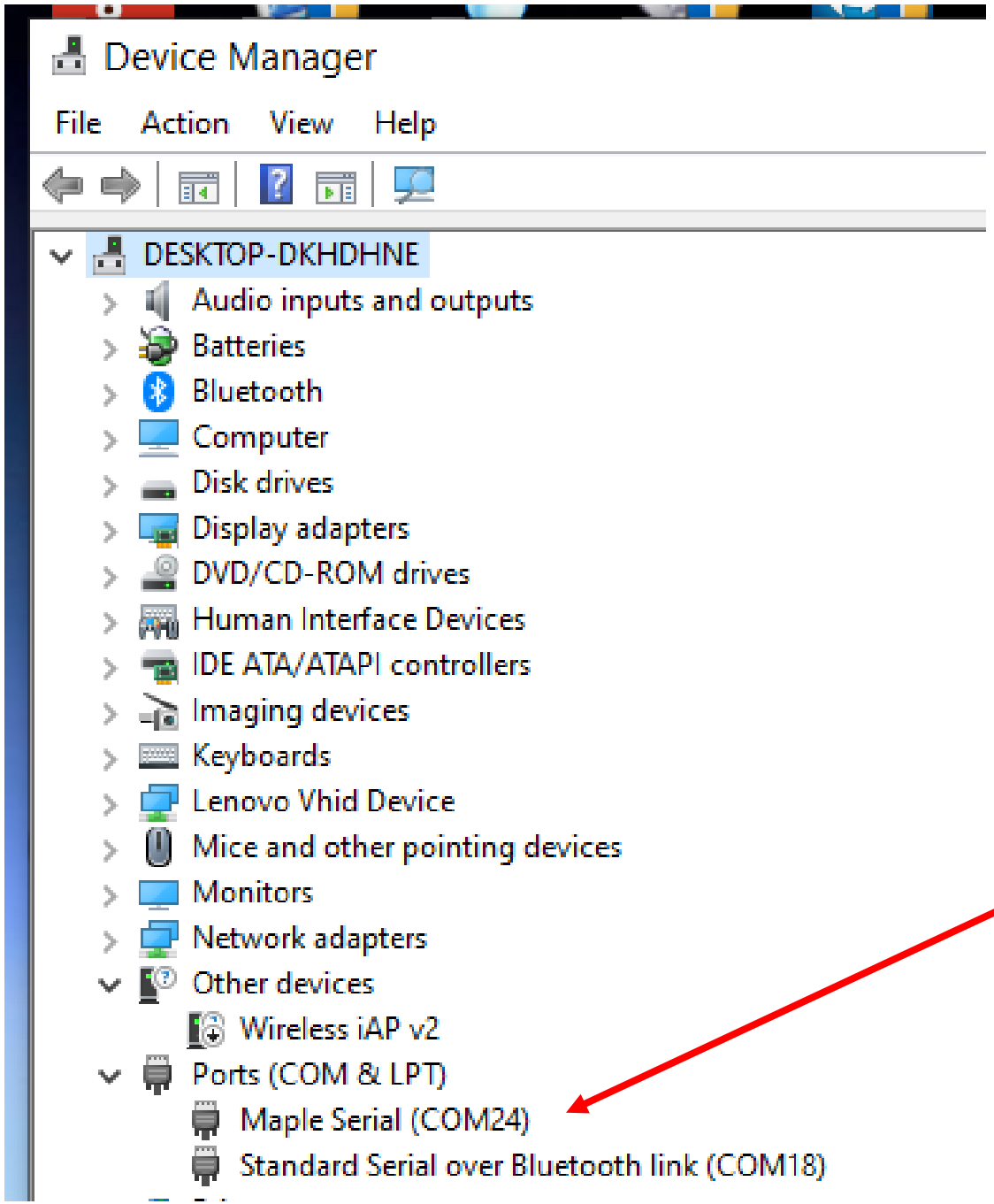
DTR 0

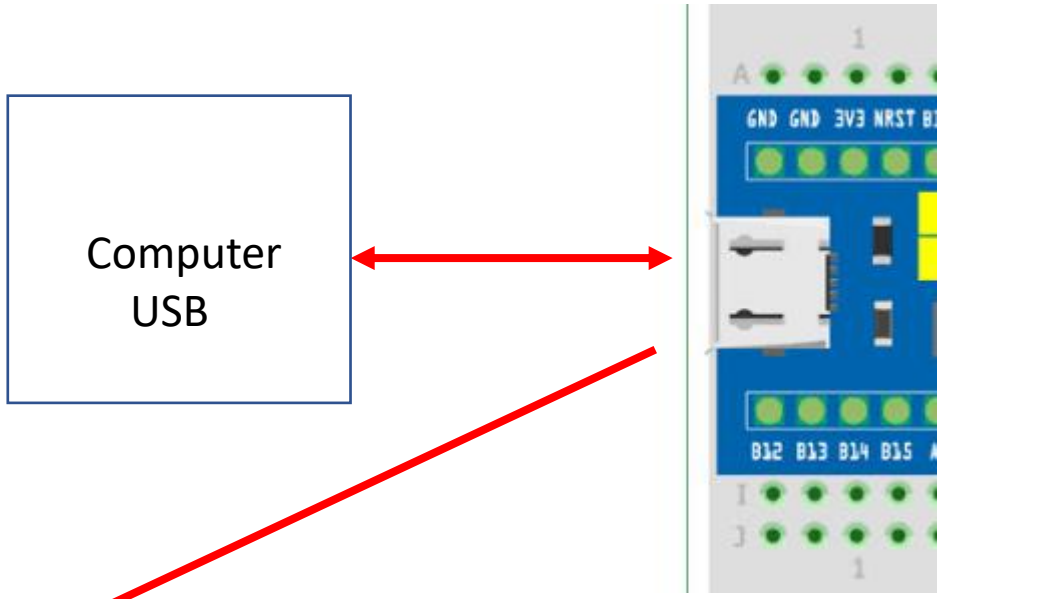
e.g. COM5





Select the Maple DFU Bootloader 2.0.

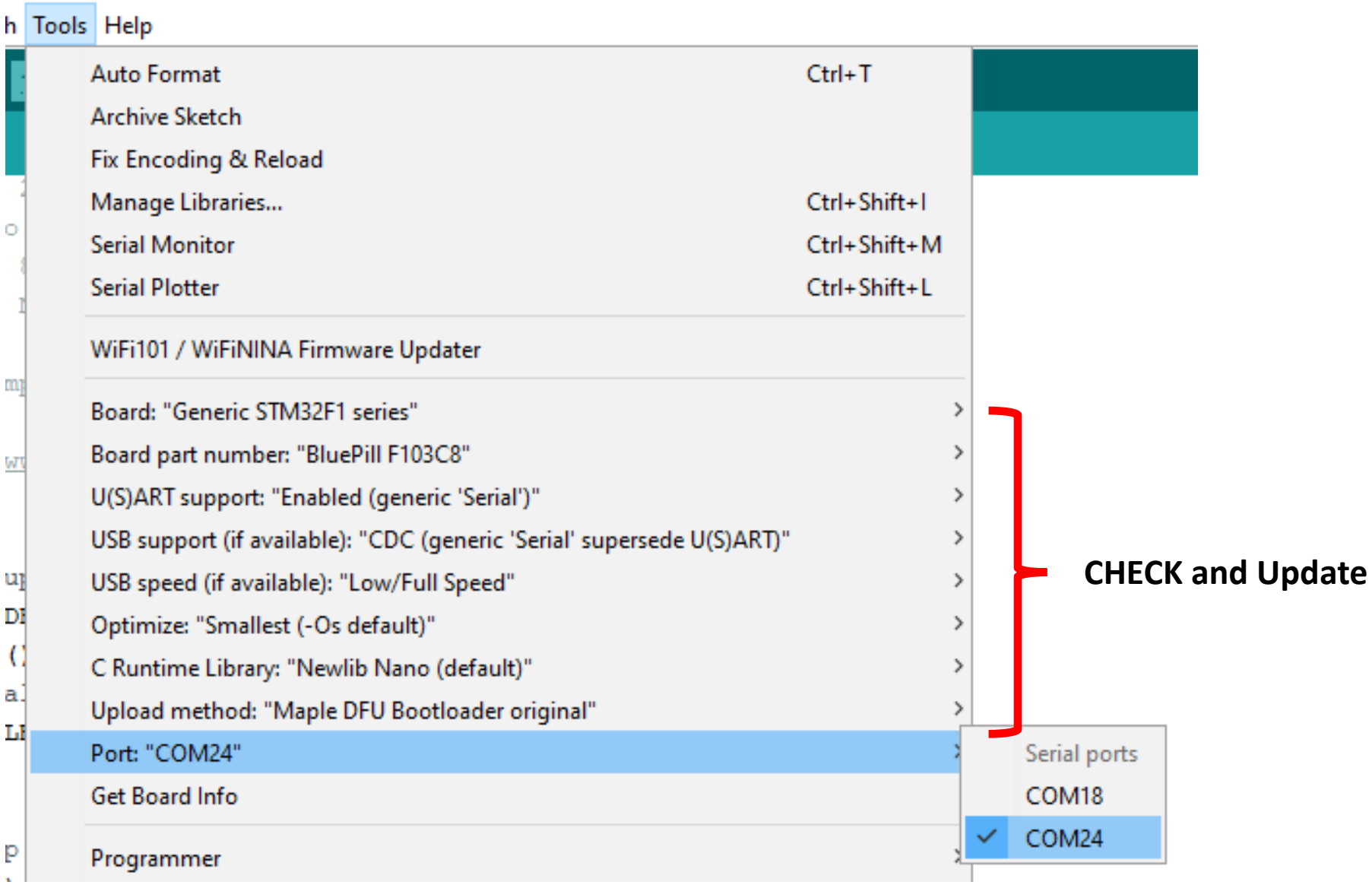




STM32F103C8T6 Board

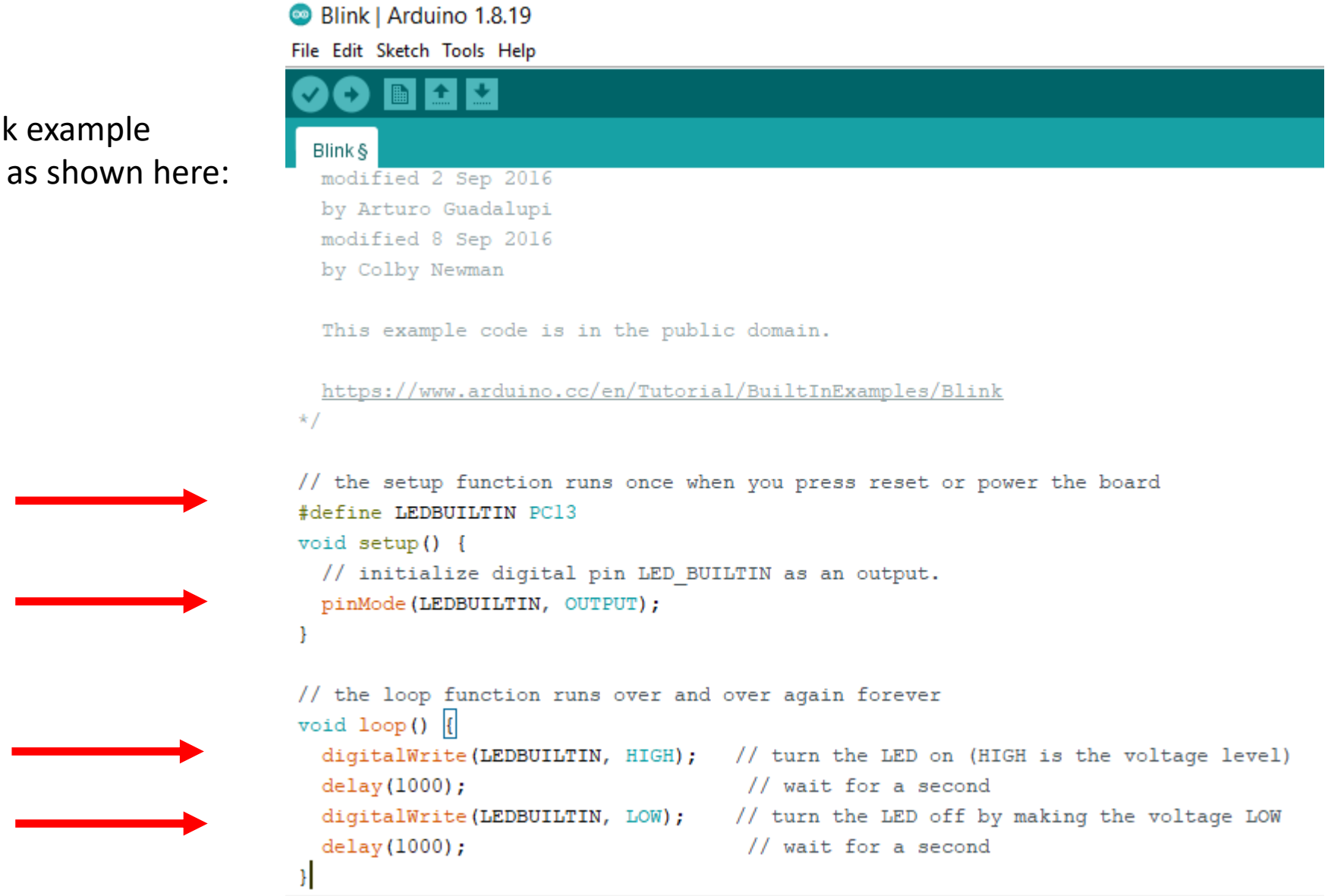
NB: the First Time when the Board is connected to the computer it shows:

e.g: Maple Serial (COM 24)



NB: the first time with IDE use the MAPLE Port,
e.g: COM 24 -- Ref to device manager for port

1. Use the Blink example
and Update it as shown here:



2. Upload the sketch to the STM32 Board and Check to see that the LED blink above pattern.
PS: You will now get a notification sound and will loose COM 24

1. Use the Blink example
and Update it again as shown here:




Blink | Arduino 1.8.19

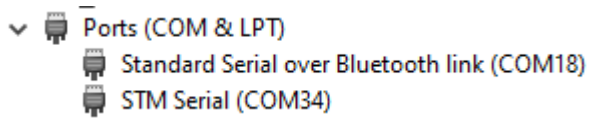
File Edit Sketch Tools Help

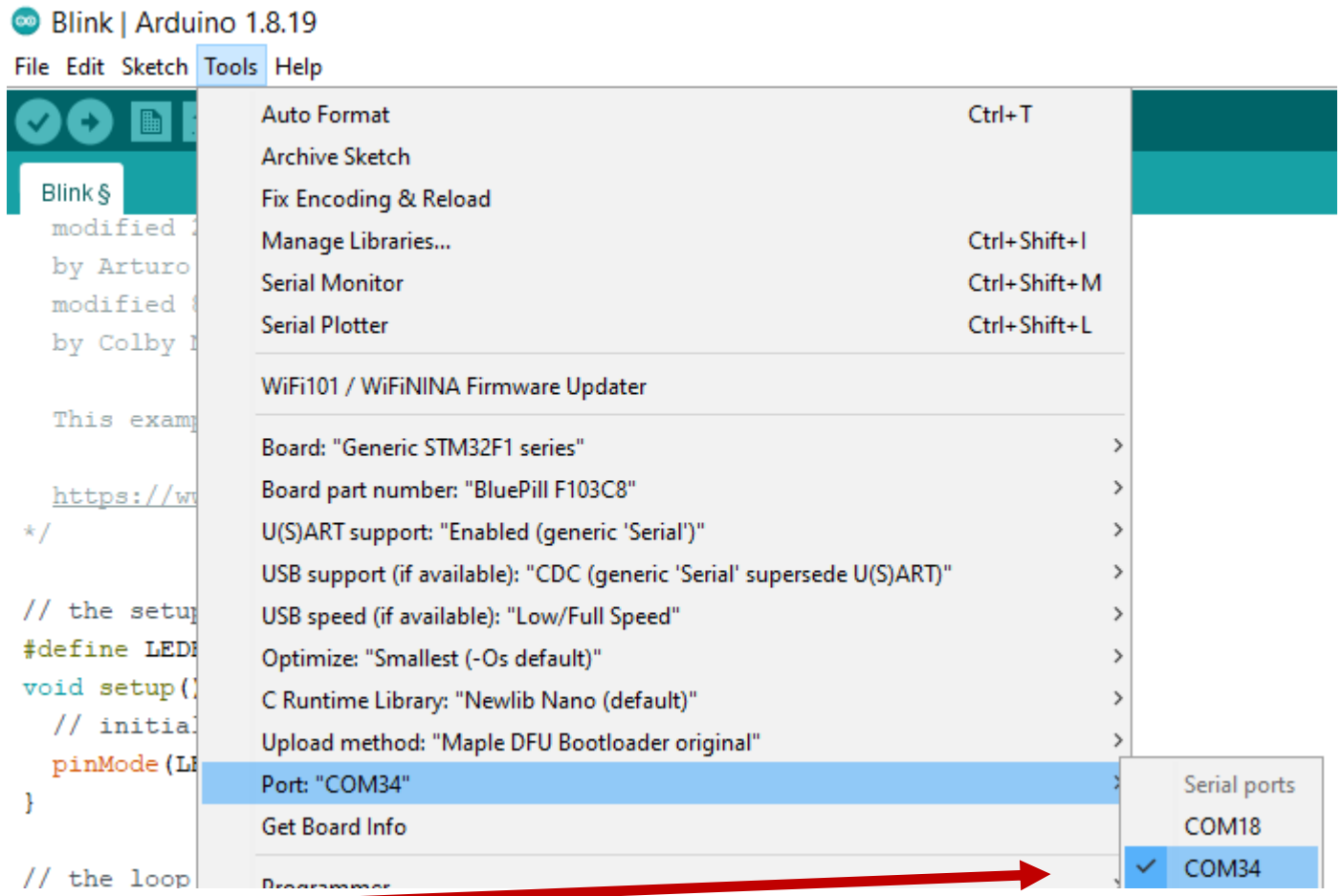
Blink §

```
  modified 2 Sep 2016
  by Arturo Guadalupi
  modified 8 Sep 2016
  by Colby Newman

  This example code is in the public domain.

  https://www.arduino.cc/en/Tutorial/BuiltInExamples/Blink
*/

// the setup function runs once when you press reset or power the board
#define LEDBUILTIN PC13
void setup() {
  // initialize digital pin LED_BUILTIN as an output.
  pinMode(LEDBUILTIN, OUTPUT);
}

// the loop function runs over and over again forever
void loop() {
  digitalWrite(LEDBUILTIN, HIGH);   // turn the LED on (HIGH is the voltage level)
  delay(2000);                       // wait for a second
  digitalWrite(LEDBUILTIN, LOW);    // turn the LED off by making the voltage LOW
  delay(100);                       // wait for a second
}
```

1. Check with Device Manager which New Port is available, it should named STM Serial (Com xx):
   e.g: STM Serial (Com34)

Device Manager





2. Select the new Com Port

3. Upload the newly modified sketch and all other sketches to the STM32 Board in the future using this Port.