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# **Program mBot in Arduino IDE**

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January 19, 2022 04:43

To program mCore with C/C++, you need Arduino IDE (click <u>here</u> to learn about Arduino). You may install Arduino IDE referring to the steps below:

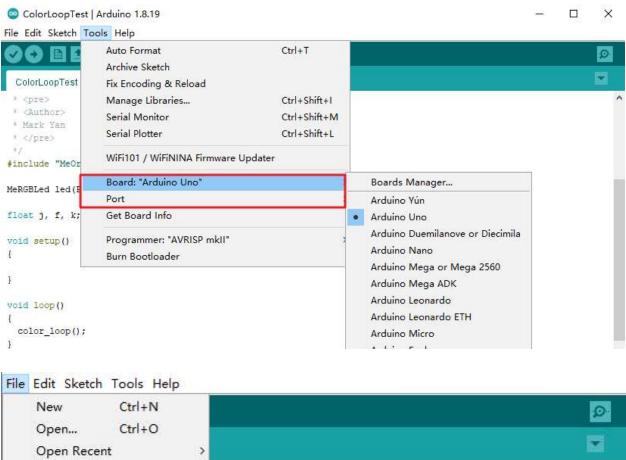
- 1. <u>Download</u> and install the corresponding Arduino IDE.
- 2. Download and install the CH340 driver required by mCore(restart your computer after the installation is done).

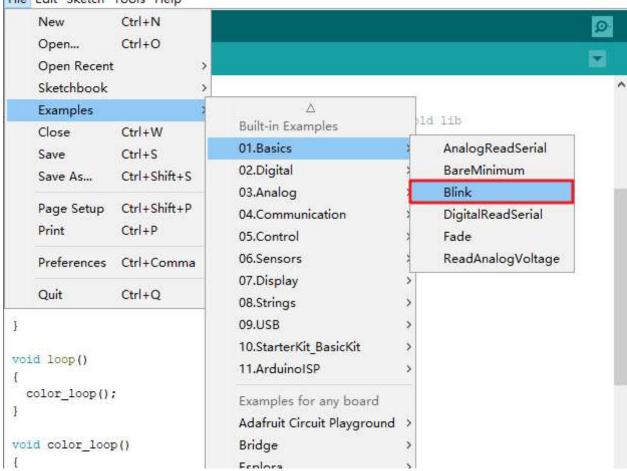
**CH340 for Windows** 

CH340 for MacOS

- 3. Open Arduino IDE, refer to <u>the documentation</u> to download and configure the makeblock-library files.
- 4. Then we start to debug the communication between arduino IDE and mCore with sample code **Blink**. Connect your mCore to computer with an official USB cable, and open the example Blink, then select the right board(it should be Arduino Uno) and <u>COM port</u>.
- Make sure the mCore is powered on and disconnected from other software.

Support





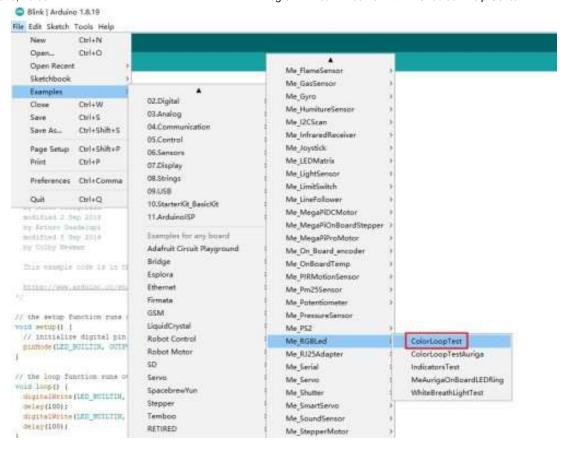
5. For a more obvious result, you may modify the program (modify the parameter from 1000 to 100), and then upload the program.

```
File Edit Sketch Tools Help
                    Upload
 Blink
                              Step2
  modified 8 May 2014
  by Scott Fitzgerald
  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
void setup() {
  // initialize digital pin LED_BUILTIN as an output.
  pinMode (LED_BUILTIN, OUTPUT);
// the loop function runs over and over again forever
void loop() (
  digitalWrite(LED_BUILTIN, HIGH); // turn the LED on (HIGH is the voltage level)
                                     // wait for a second
  delay(1000);
  digitalWrite(LED BUILTIN, LOW);
                                    // turn the LED off by making the voltage LOW
  delay(1000);
                                     // wait for a second
```

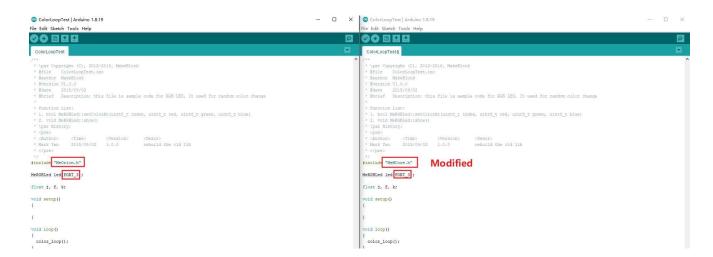
6. When the uploading is done, the L light on mCore is expected to be blinking as below gif shows.



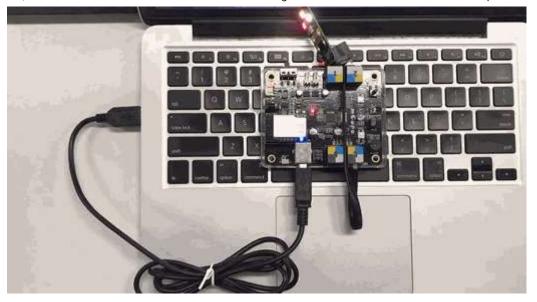
- 7. After confirming the communication is OK, we start programming the electronic modules in Arduino IDE.
- Here we take RGB LED module as an example, firstly we open the example ColorLoopTest.



• Connect the RGB LED module to mCore, make the following modifications: "MeOrion.h" to "MeMCore.h", port to the actual one.



• Then upload the program. After the program is uploaded successfully, program effect is expected as below.



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