Cheatography

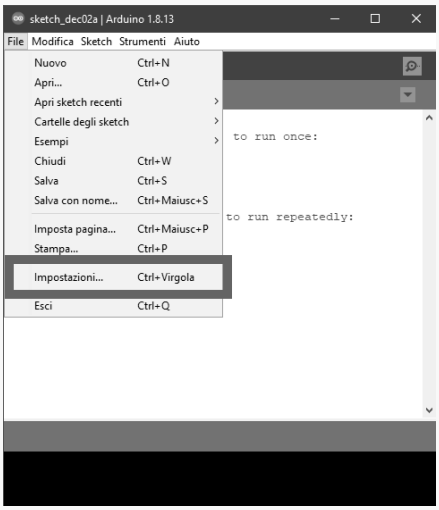
Code BBC Micro:bit from Arduino IDE Cheat Sheet

by Plugga Studios (Plugga) via cheatography.com/129226/cs/25524/

1. Start Arduino IDE

Start your Arduino IDE, then click on the Preferences.

Preferences.

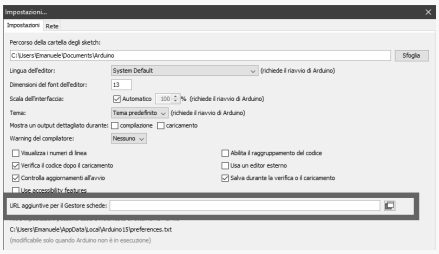


2. Add the URL

Add the URL below into the Additional Board Manager URL text box.

https://sandeepmistry.github.io/arduino-nRF5/package_nRF5_boards_index.json

Additional Board Manager URL



3. Open Tools

Open Tools>Board>Boards Manager from the menu bar, search for nRF5 and install “Nordic Semiconductor nRF5 Boards” by Sandeep Mistry

4. Select Micro:bit

Select Micro:bit Select BBC micro:bit from the Boards menu. Set SoftDevice to S110. And set the Port to the Micro:bit COM port.

5. Upload the code

Upload the code to your Micro:bit. Don't worry about the red warnings below. Open the Serial Monitor and push the button of your Micro:bit. Enjoy!

Code </>

```
/*
Plugga Studios Tutorial for Micro:bit
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*/
const int COL1 = 3; // Column #1 control
const int LED = 26; // 'row 1' led
const int BUTTON_A = 5; // The number of the pushbutton pin
const int BUTTON_B = 11; // The number of the pushbutton pin
long previousMillis = 0;
long currentMillis = 0;
int interval = 500;
boolean ledState = false;
boolean buttonAPressed = false;
boolean buttonBPressed = false;
void setup()
{
  Serial.begin(9600);
  Serial.println("microbit is ready!");
  pinMode(BUTTON_A, INPUT);
  pinMode(BUTTON_B, INPUT);
  // Because the LEDs are multiplexed,
  // we must ground the opposite side of the LED
  pinMode(COL1, OUTPUT);
  digitalWrite(COL1, LOW);
  pinMode(LED, OUTPUT);
}
void loop()
{
  currentMillis = millis();
  if (currentMillis - previousMillis > interval) {
    previousMillis = currentMillis;
    ledState = !ledState;
    digitalWrite(LED, ledState);
  }

  if (digitalRead(BUTTON_A) == LOW &&
      buttonAPressed == false) {
    buttonAPressed = true;
    Serial.println("Button A is pressed.");
  }
  else if (digitalRead(BUTTON_A) == HIGH &&
```

Code </> (cont)

```
      buttonAPressed == true) {
    buttonAPressed = false;
  }
  if (digitalRead(BUTTON_B) == LOW &&
      buttonBPressed == false) {
    buttonBPressed = true;
    Serial.println("Button B is pressed.");
  }
  else if (digitalRead(BUTTON_B) == HIGH &&
      buttonBPressed == true) {
    buttonBPressed = false;
  }
}
```

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