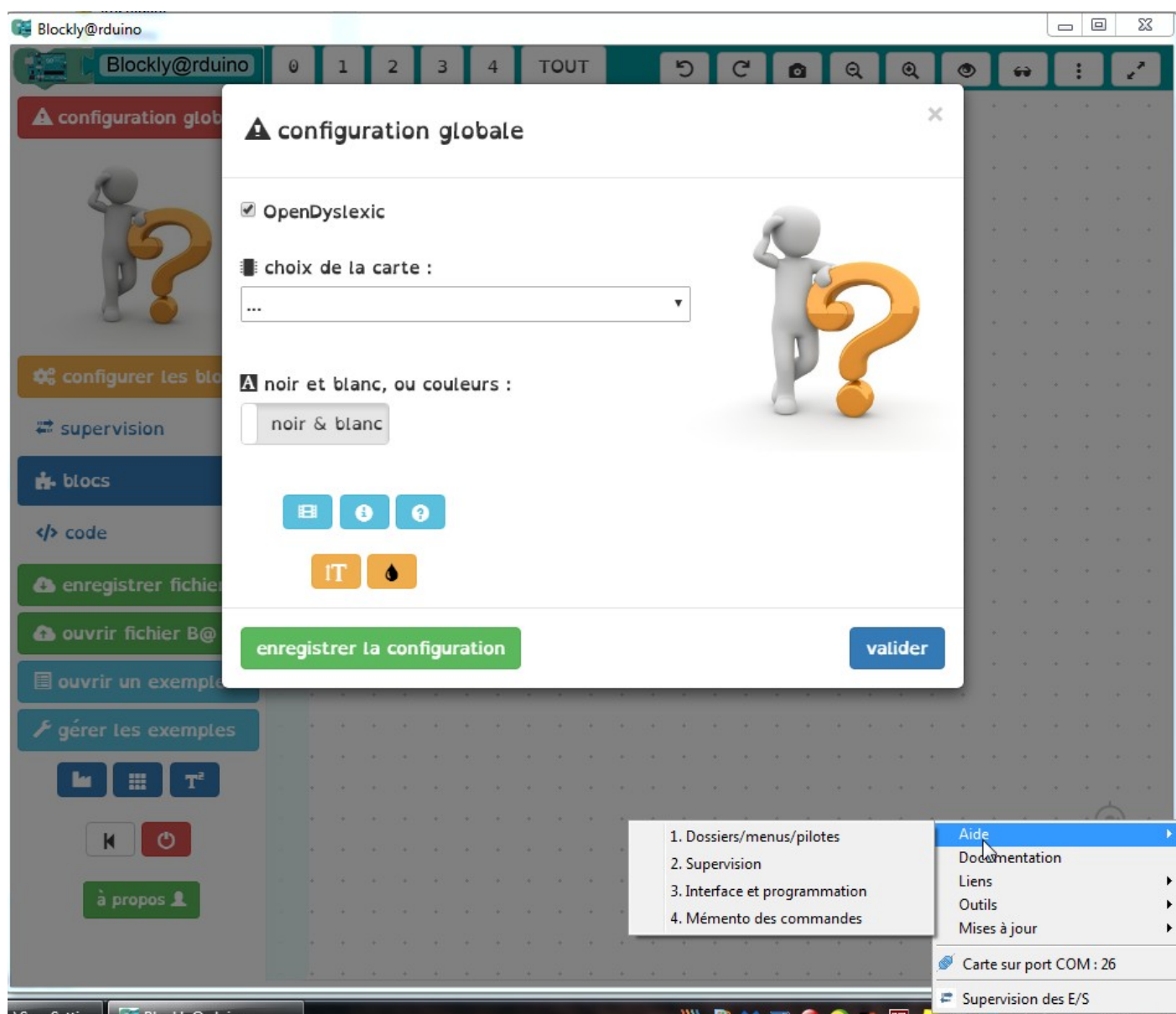
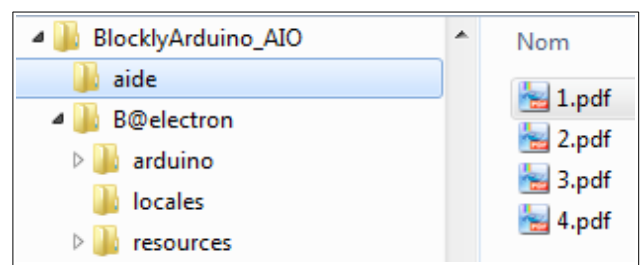
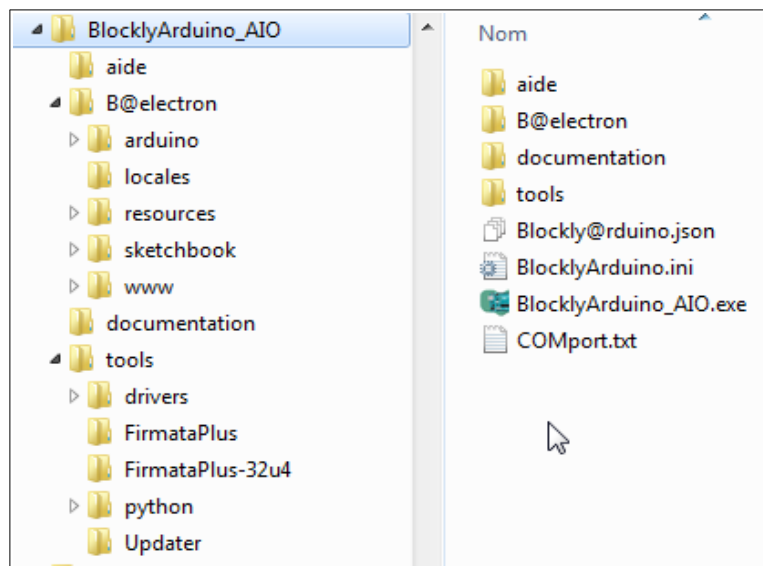


Blockly@rduino 'All In One'.....	1
Documentation.....	1
Dossiers / folders.....	2
Barre des tâches / Tray icon.....	3
Bibliothèques / Libraries.....	3
FirmataPlus.....	4
Configuration.....	5
Outils / Tools.....	6
Interface.....	7
Téléversement / upload.....	8
CLI.....	9
STM32, ESP8266, ESP32, Wemos D1 Mini, Webduino, etc.....	10

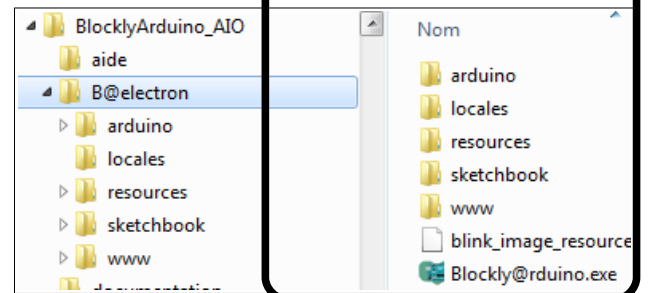




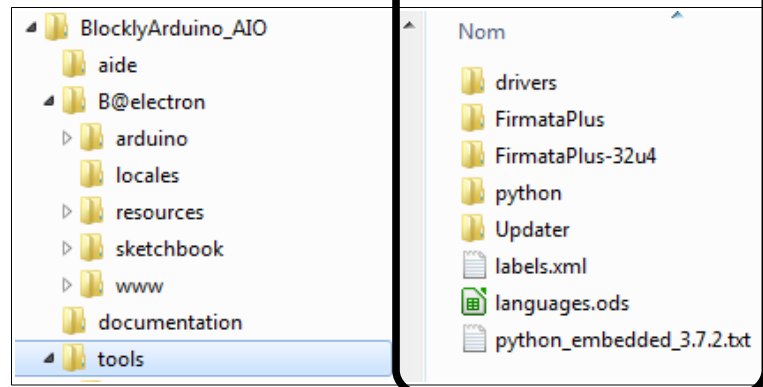
DOSSIERS / FOLDERS



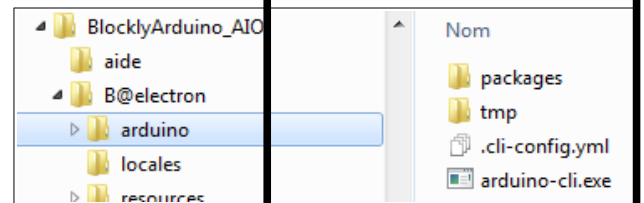
Blockly@arduino portable



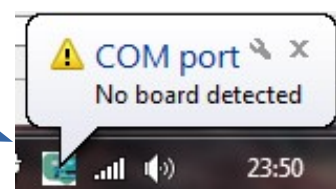
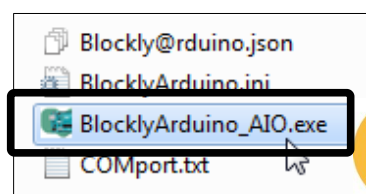
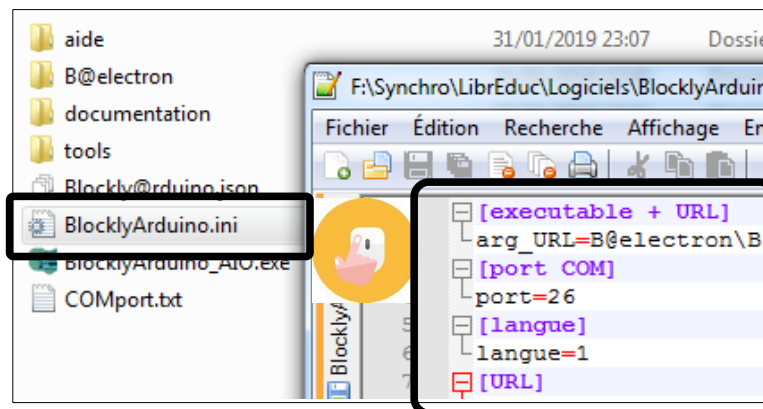
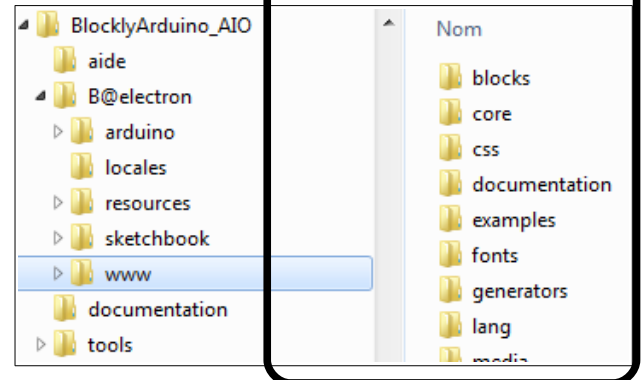
Communication



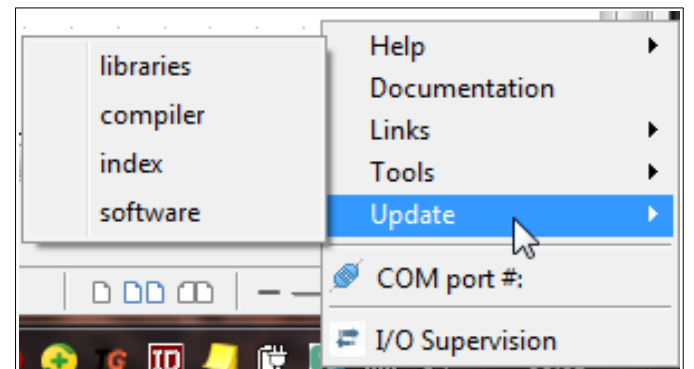
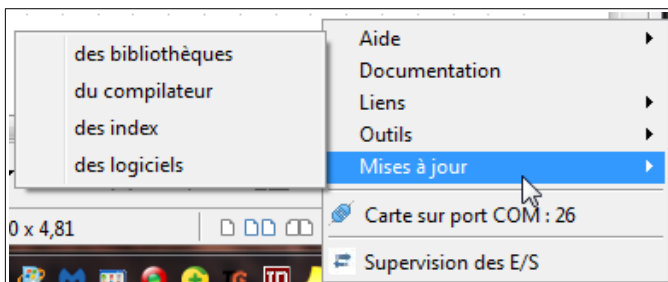
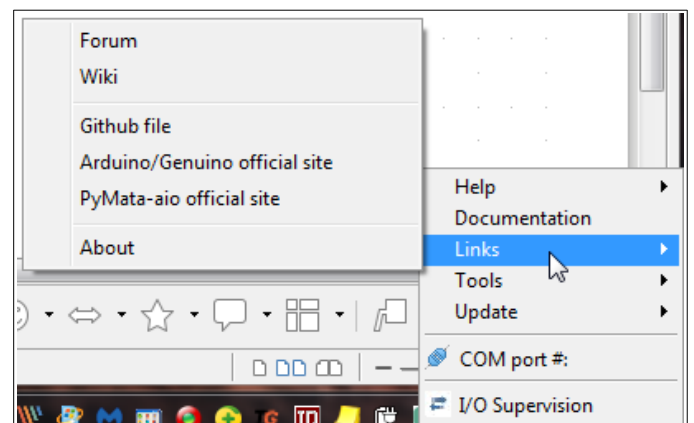
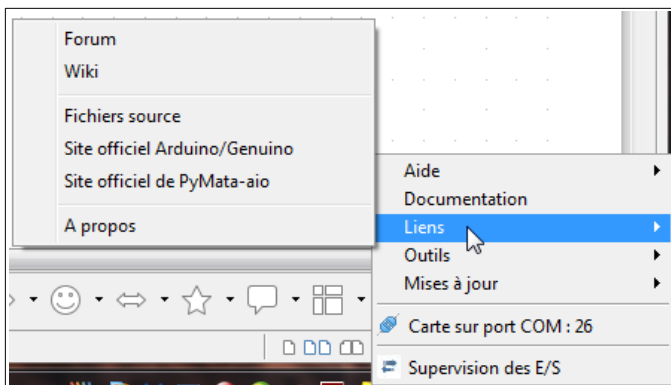
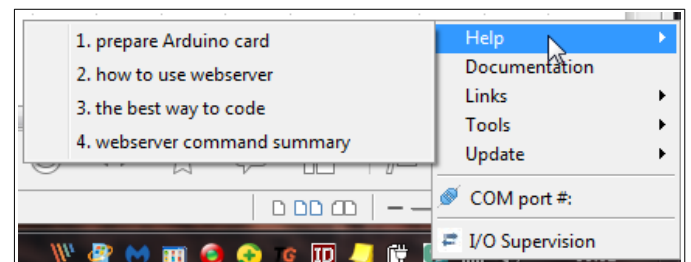
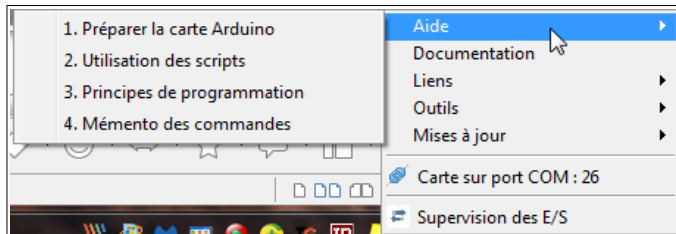
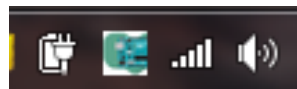
Arduino Command Line



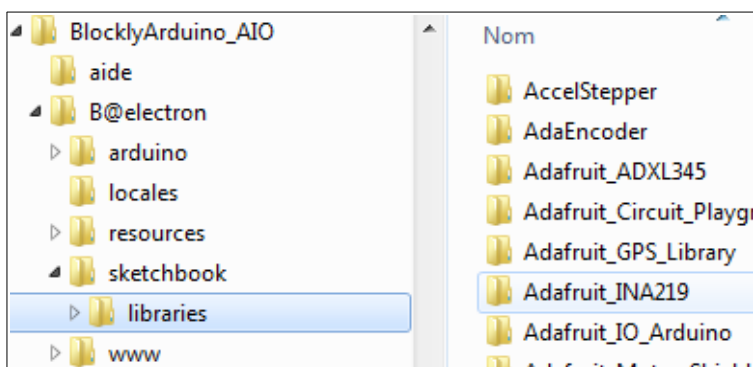
Blockly@arduino



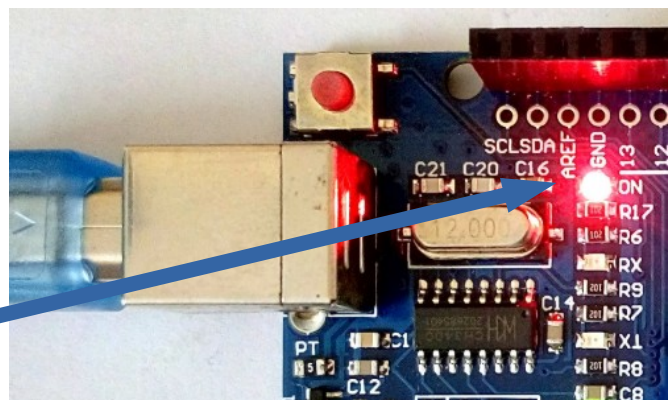
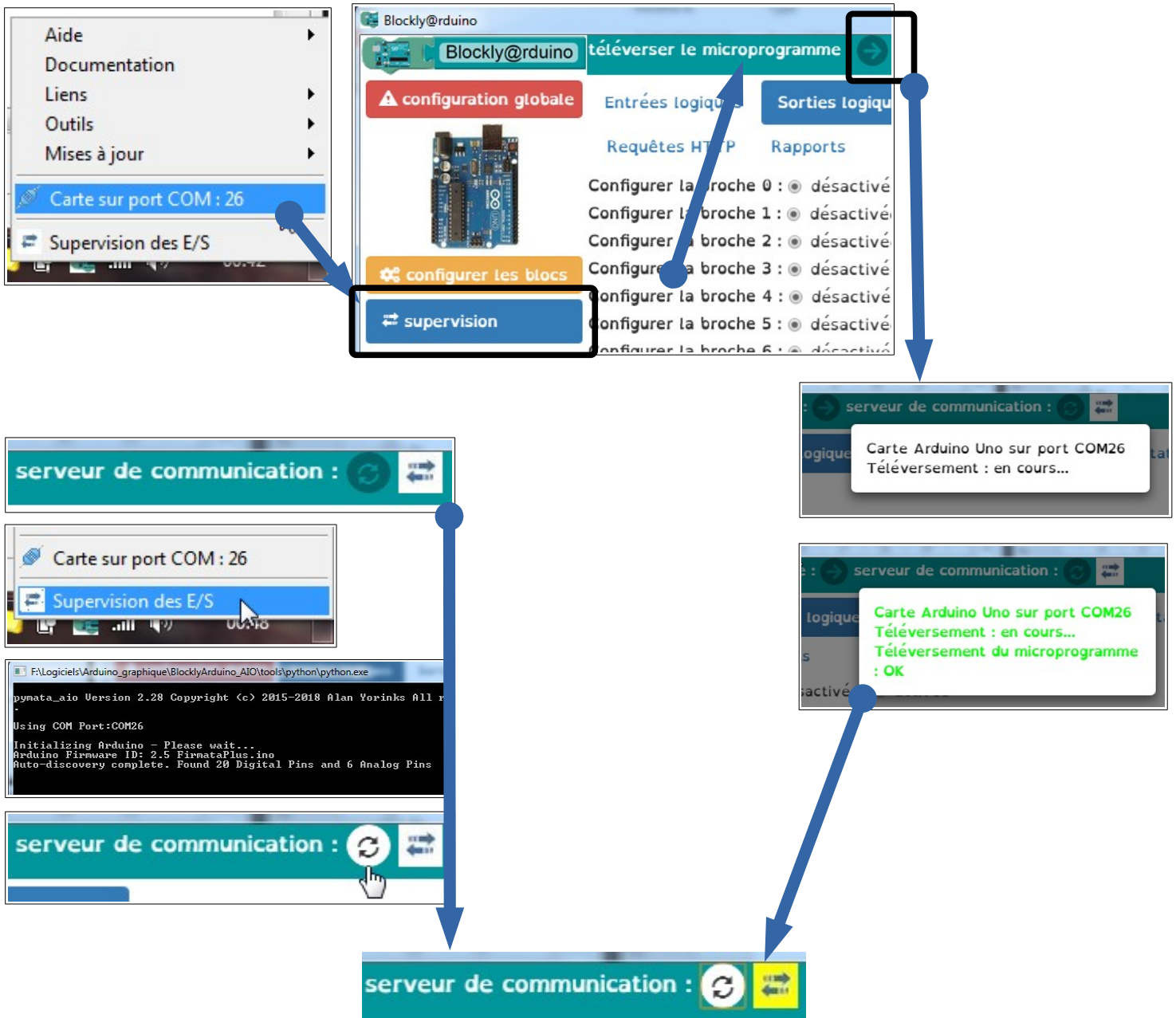
BARRE DES TÂCHES / TRAY ICON



BIBLIOTHÈQUES / LIBRARIES



FIRMATAPLUS



CONFIGURATION



The image shows the Blockly@arduino configuration interface, which is divided into three main sections:

- Configuration globale:** This section allows users to configure the global settings. It includes a sidebar with a list of blocks, a main area with a dropdown menu for "choix de la carte" (select the board) set to "Arduino/Genuino UNO", and a section for "noir et blanc, ou couleurs" (black and white, or colors) with a "noir & blanc" button. A "valider" (validate) button is present at the bottom right.
- choix des catégories de blocs:** This section allows users to select the categories of blocks to use. It includes a dropdown menu for "choix des catégories de blocs" set to "Arduino pour experts", a list of categories (logique, boucles, maths, variables, etc.), and a "valider" button at the bottom right.
- Main workspace:** This section shows the main workspace for coding. It includes a sidebar with a list of blocks, a main area with a grid of blocks, and a "valider" button at the bottom right.

OUTILS / TOOLS

enregistrer fichier B@

ouvrir fichier B@

ouvrir un exemple

gérer les exemples



choisir un exemple

Github

le tout premier exercice : faire clignoter une diode

Robot mBot suiveur de ligne

Robot mBot éviteur obstacles



conversion binaire <=> texte ASCII

TEST

01010101

texte -> binaire

binaire -> texte

L'usine à blocs

Connexion

Champ

Type

Couleur

mon_bloc

entrée

champ aligné à droite

titre toto

variable machin VAR1

case à cocher VAR2

bloc externe

accroches haut&bas

couleur (240°)

Prévisualisation : LTR

toto machin

Blocks :

```
Blockly.Blocks['mon_bloc'] = { init: function() {
  this.appendDummyInput()
  .setAlign(Blockly.ALIGN_RIGHT)
  .appendField("toto")
  .appendField(new Blockly.FieldVariable("machin"), "VAR1")
  .appendField(new Blockly.FieldCheckbox("TRUE"), "VAR2");
  this.setInputsInline(false);
  this.setPreviousStatement(true);
  this.setNextStatement(true);
}};
```

Generators :

```
Blockly.Arduino['mon_bloc'] = function(block) {
  var variable_var1 = Blockly.Arduino.variableDB_getName(block.get
  var checkbox_var2 = block.getFieldValue("VAR2") == 'TRUE';
  Blockly.Arduino.includes_[] = 'placer ici le code de ma bibliothe
  Blockly.Arduino.variables_[] = 'placer ici le code de mes variabl
  Blockly.Arduino.definitions_[] = 'placer ici le code de mes insta
  Blockly.Arduino.userFunctions_[] = 'placer ici le code de mes fon
  Blockly.Arduino.setups_[] = 'placer ici le code du setup()'
  var code = 'placer ici le code du loop()';
```

conversion couleur <=> code

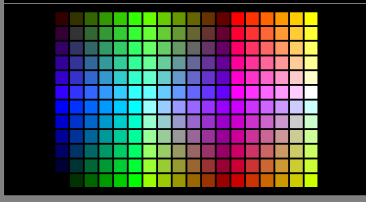
Canal RGB	Hexadécimal	Décimal RGB
Red	80	128
Green	80	128
Blue	80	128
Tout	Montrer	Montrer

Entrez un nombre hexadécimal (00 - FF) dans chacune des 3 cases hexadécimales ou un nombre décimal (0 - 255) dans chacune des 3 cases décimales RGB et cliquez sur leur bouton Montrer respectifs pour convertir les valeurs et afficher la couleur en arrière-plan.

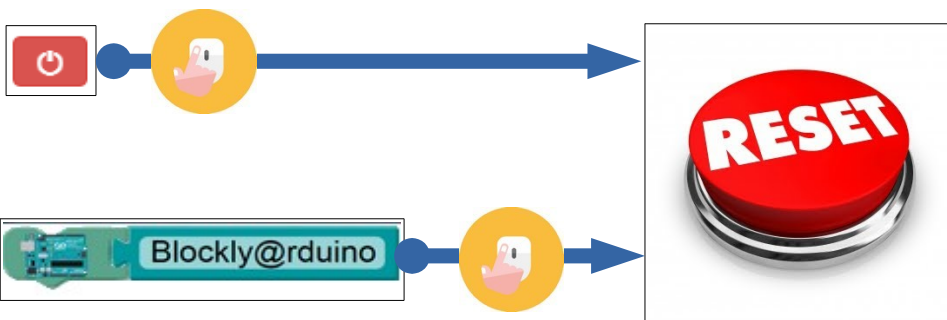
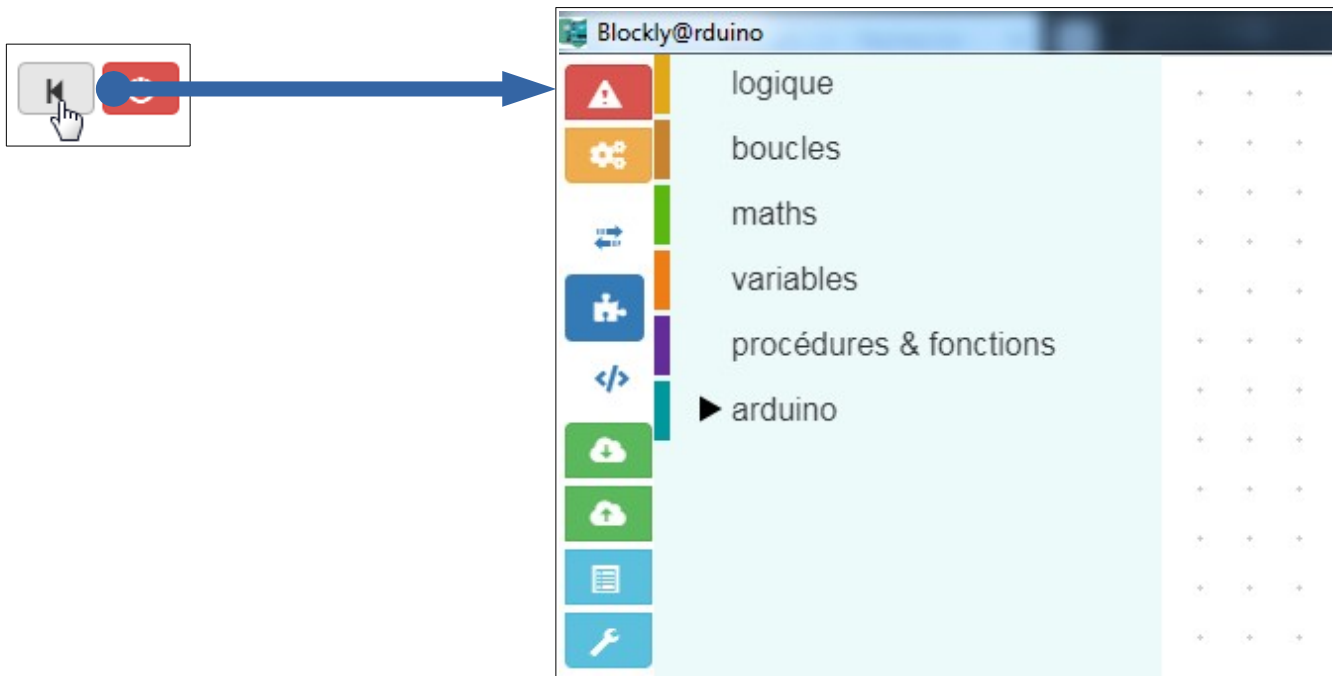
Code Hex : # 808080 Montrer

Couleur nommée : gray

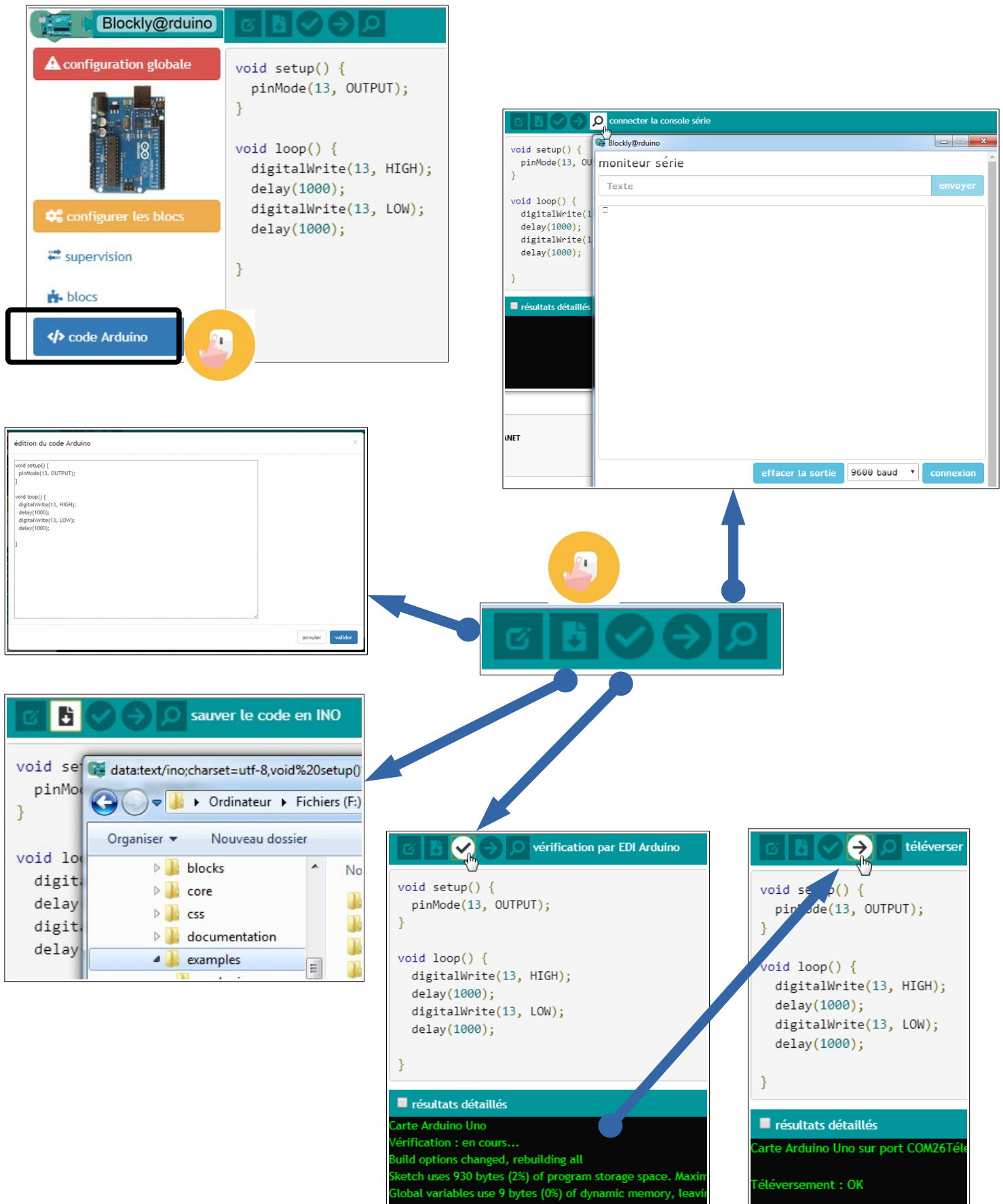
Entrez un code hexadécimal (000000 - FFFFFF) dans la case précédée de # pour voir la couleur et ses valeurs en nombres décimaux RGB. Vous pouvez aussi cliquer sur le nom officiel d'une couleur dans la liste déroulante ci-dessus ou la grille de couleurs ci-dessous :



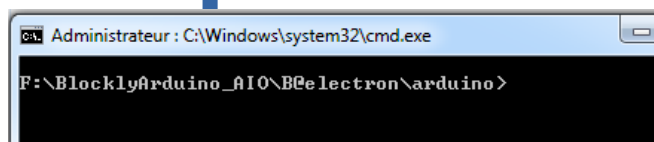
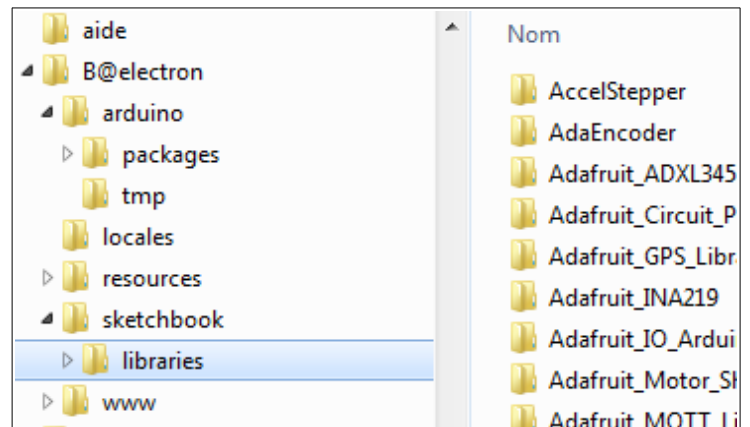
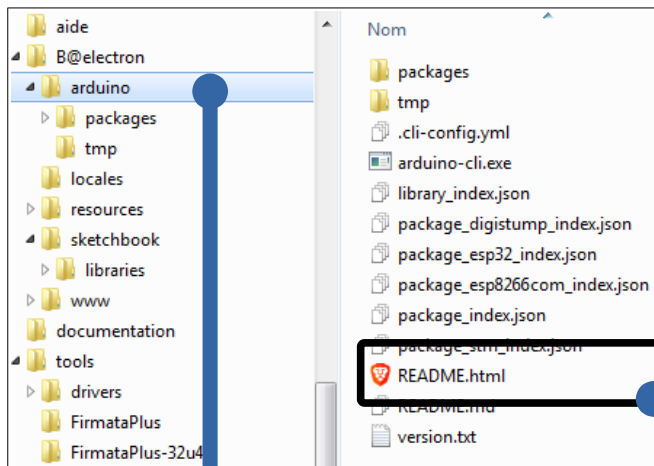

INTERFACE



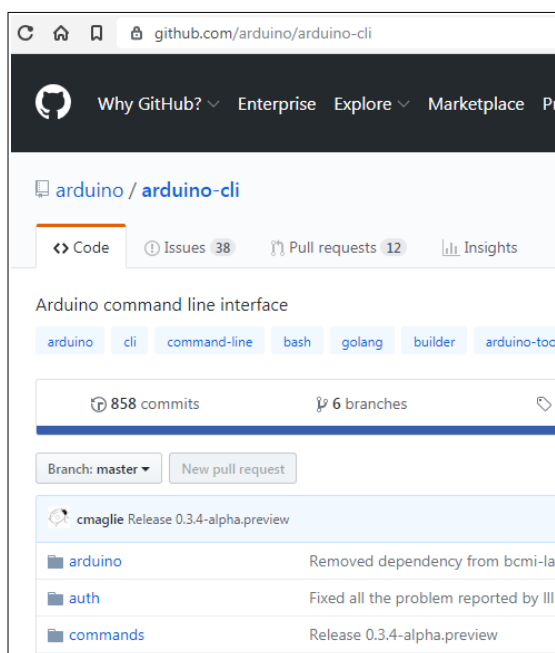
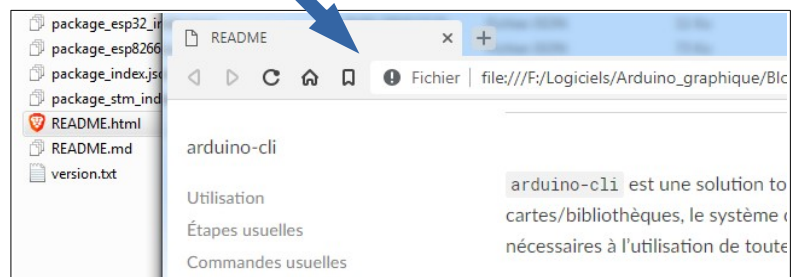
TÉLÉVERSEMENT / UPLOAD



CLI



```
arduino-cli core update-index
arduino-cli board list
arduino-cli core list
arduino-cli compile --fqbn arduino: ...
arduino-cli upload -p COMx --fqbn arduino: ...
arduino-cli lib install "WiFi101"
arduino-cli lib upgrade
```



<https://github.com/arduino/arduino-cli>



STM32, ESP8266, ESP32, WEMOS D1 MINI, WEEDUINO, ETC

```
# arduino-cli core update-index
Updating index: package_index.json downloaded
Updating index: package_esp8266com_index.json downloaded
Updating index: package_stm_index.json downloaded
Updating index: package_esp32_index.json downloaded
Updating index: package_digistump_index.json downloaded

# arduino-cli core search arduino
Searching for platforms matching 'arduino'

ID                Version      Name
Intel:arc32       2.0.4       Intel Curie Boards
arduino:avr       1.6.23      Arduino AVR Boards
arduino:megaavr   1.6.24      Arduino megaAVR Boards
arduino:nrf52     1.0.2       Arduino nRF52 Boards
arduino:sam       1.6.11      Arduino SAM Boards (32-bits ARM Cortex-M3)
arduino:samd      1.6.20      Arduino SAMD Boards (32-bits ARM Cortex-M0+)
arduino:samd_beta 1.6.25      Arduino SAMD Beta Boards (32-bits ARM Cortex-M0+)
arduino:stm32f4   1.0.1       Arduino STM32F4 Boards
esp8266:esp8266   2.5.0       esp8266
littleBits:avr    1.0.0       littleBits Arduino AVR Modules

# arduino-cli core install esp8266:esp8266
Downloading esp8266:esptool@2.5.0-3-20ed2b9...
esp8266:esptool@2.5.0-3-20ed2b9 downloaded
Downloading esp8266:xtensa-lx106-elf-gcc@2.5.0-3-20ed2b9...
esp8266:xtensa-lx106-elf-gcc@2.5.0-3-20ed2b9 downloaded
Downloading esp8266:mkspiffs@2.5.0-3-20ed2b9...
esp8266:mkspiffs@2.5.0-3-20ed2b9 downloaded
Downloading esp8266:esp8266@2.5.0-beta3...
esp8266:esp8266@2.5.0-beta3 downloaded
Installing esp8266:esptool@2.5.0-3-20ed2b9...
esp8266:esptool@2.5.0-3-20ed2b9 installed
Installing esp8266:xtensa-lx106-elf-gcc@2.5.0-3-20ed2b9...
esp8266:xtensa-lx106-elf-gcc@2.5.0-3-20ed2b9 installed
Installing esp8266:mkspiffs@2.5.0-3-20ed2b9...
esp8266:mkspiffs@2.5.0-3-20ed2b9 installed
Installing esp8266:esp8266@2.5.0-beta3...
esp8266:esp8266@2.5.0-beta3 installed

#
```