



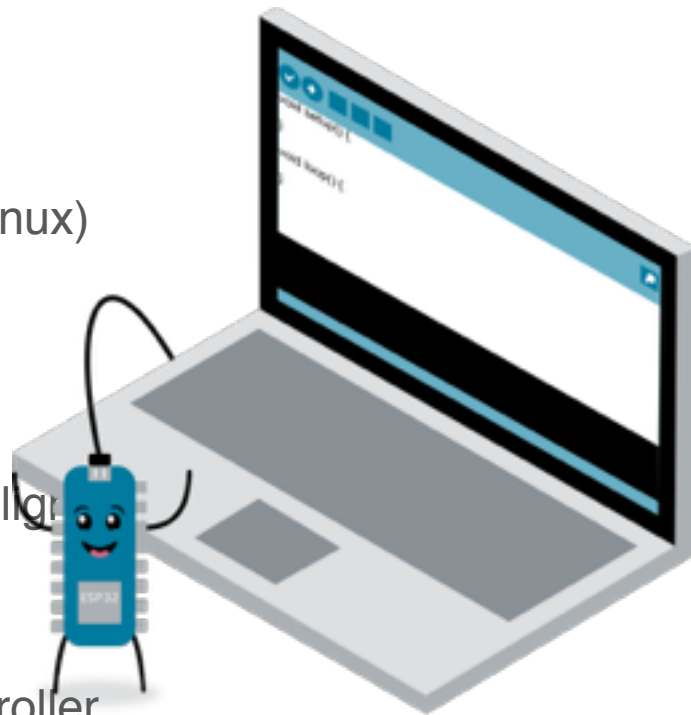
Das richtige Werkzeug

Woche 1 | Lektion 2

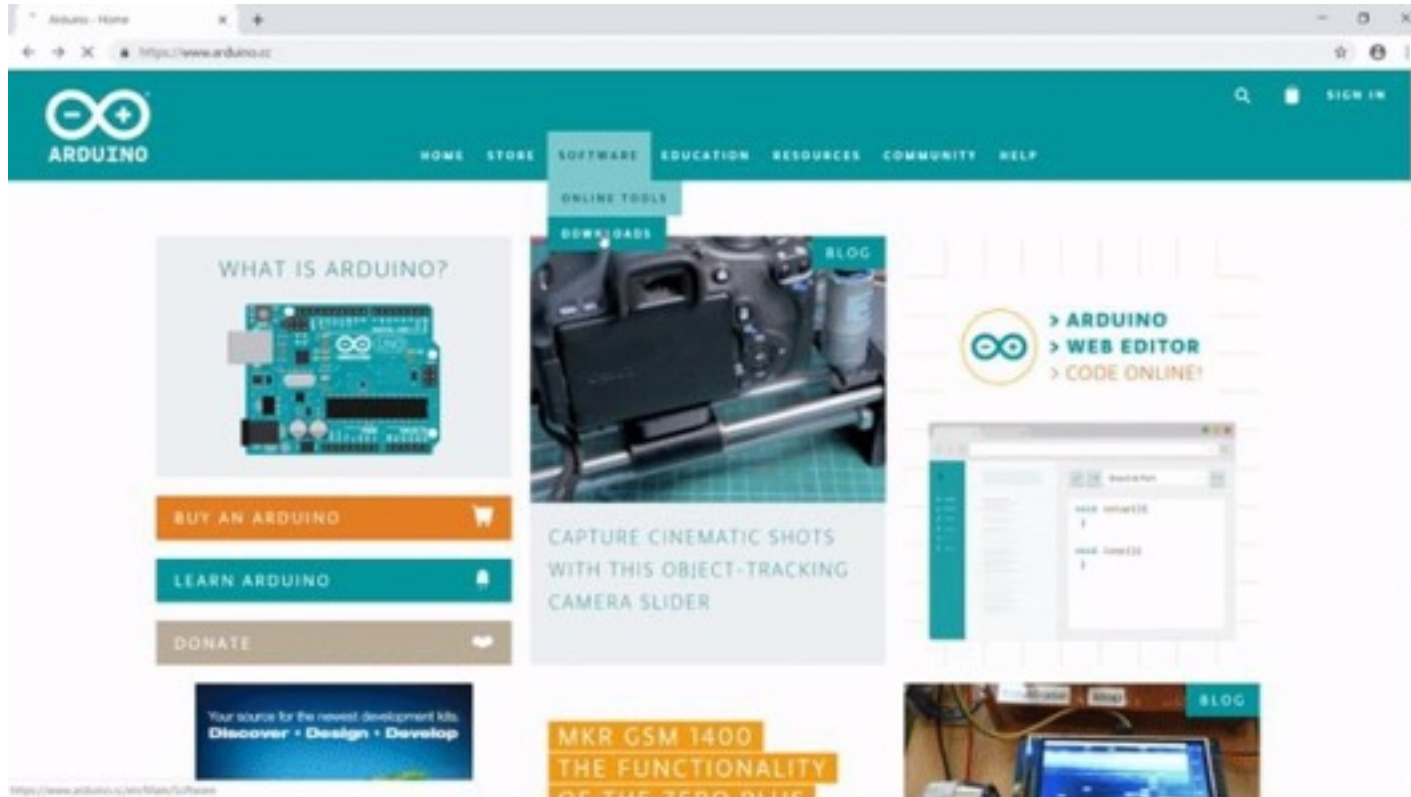
- programming environment
- open source software
- Platform independent (Windows, macOS and Linux)

What's the matter with you?

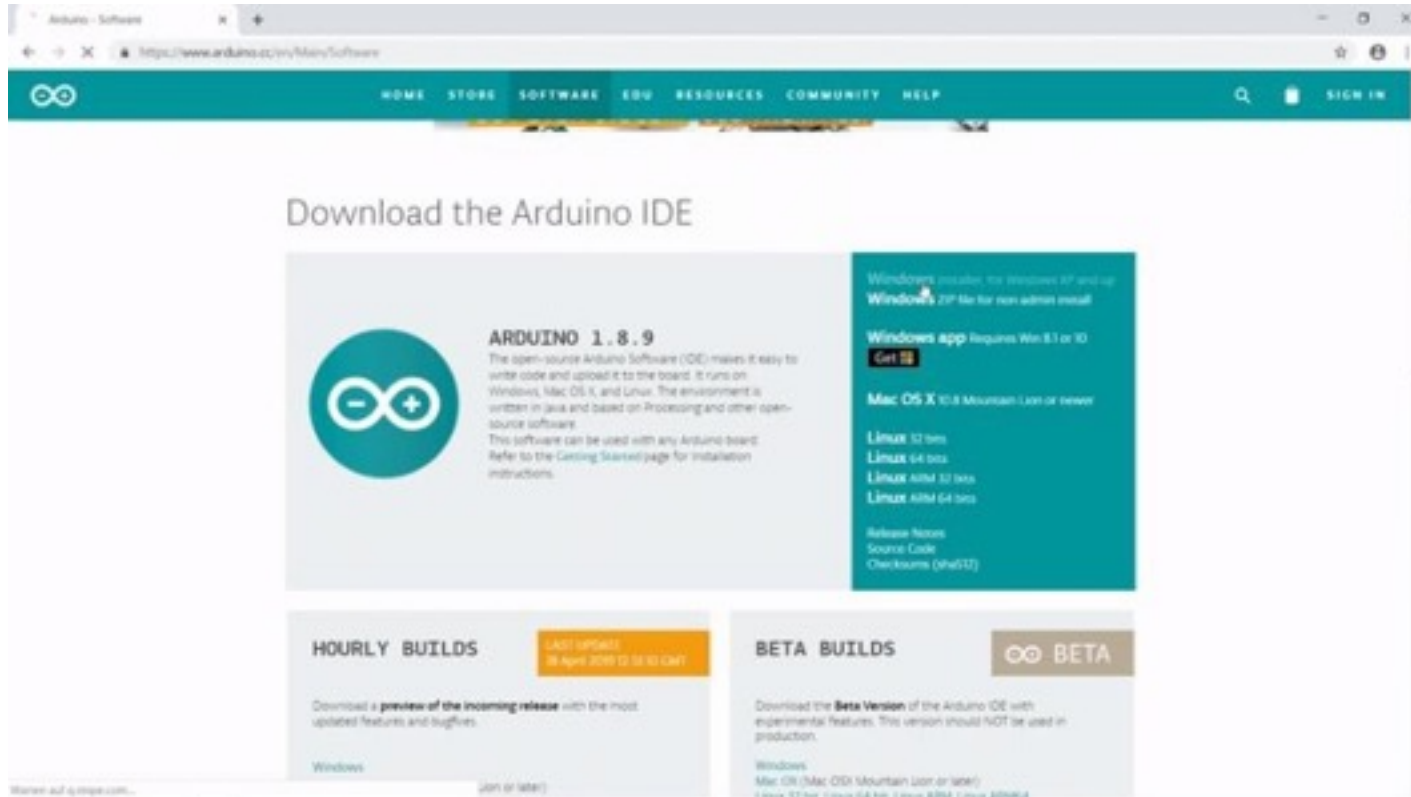
- Better readability of the code due to syntax highlighting
- Conversion of the code into machine language for the microcontroller
- Write code and easily upload it to the microcontroller via buttons



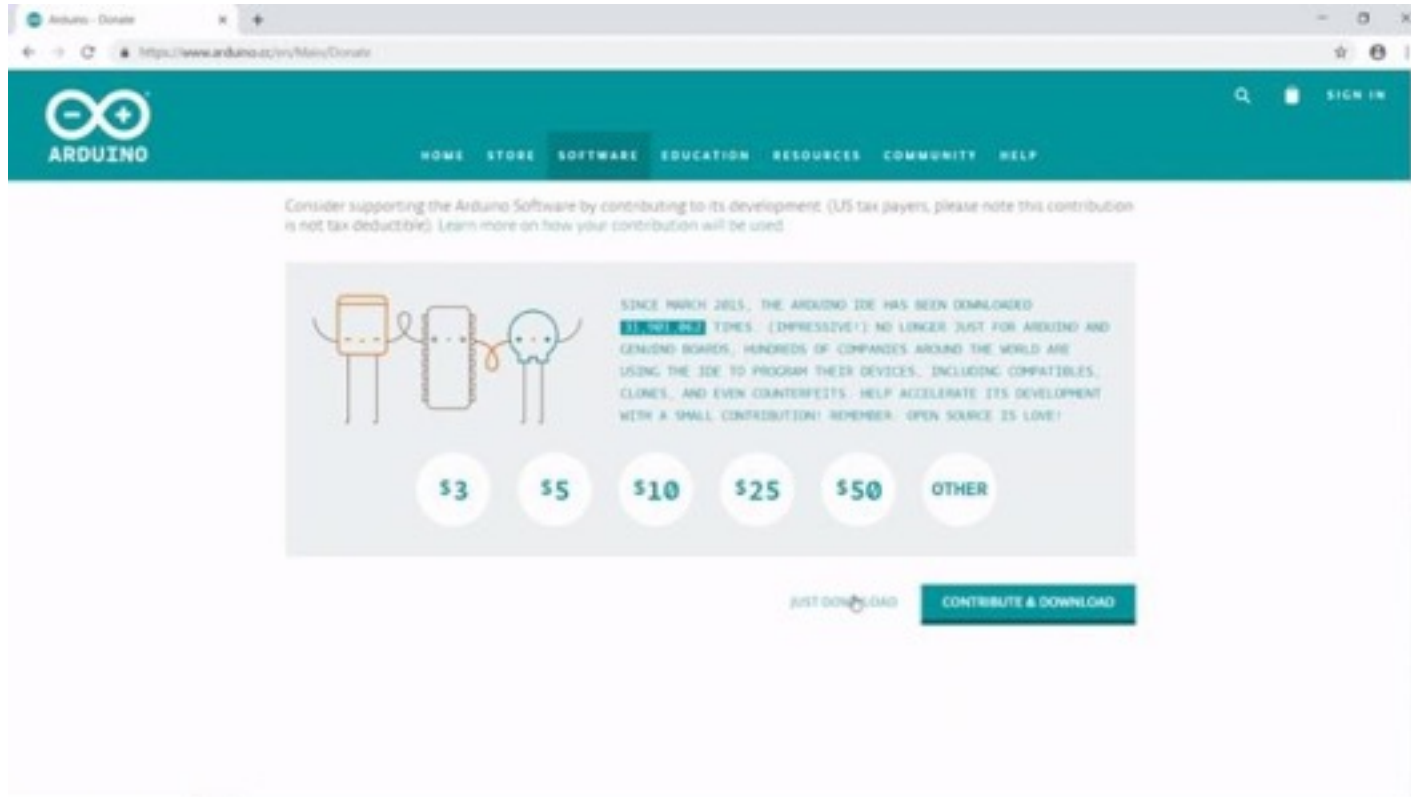
- <https://www.arduino.cc/en/main/software>



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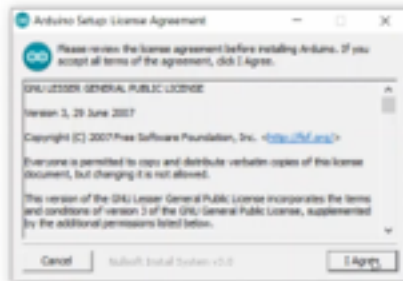
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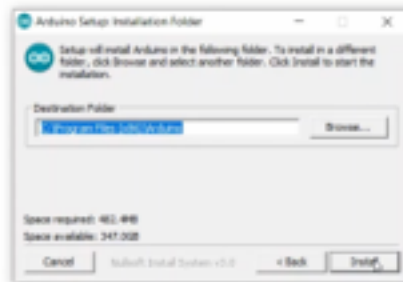
- Installation process on Windows



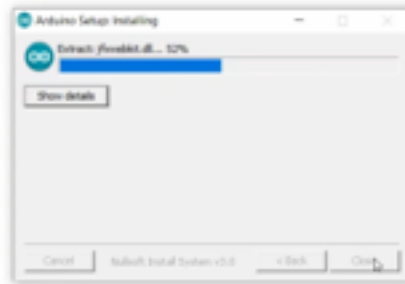
- Installation process on Windows



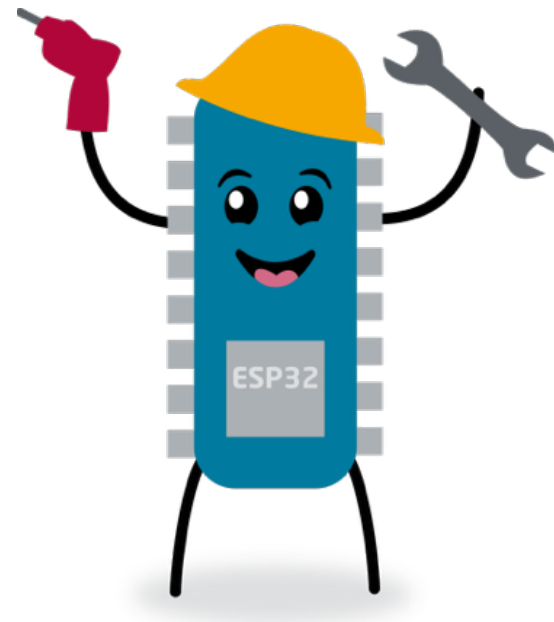
- Installation process on Windows



- Installation process on Windows



- Board definitions defined in the following file:
 - https://dl.espressif.com/dl/package_esp32_index.json



Neu	Strg+N
Öffnen...	Strg+O
Letzte öffnen	
Sketchbook	
Beispiele	
Schließen	Strg+W
Speichern	Strg+S
Speichern unter...	Strg+Umschalt+S
Seite einrichten	Strg+Umschalt+P
Drucken	Strg+P
Voreinstellungen	Strg+Komma
Beenden	Strg+Q

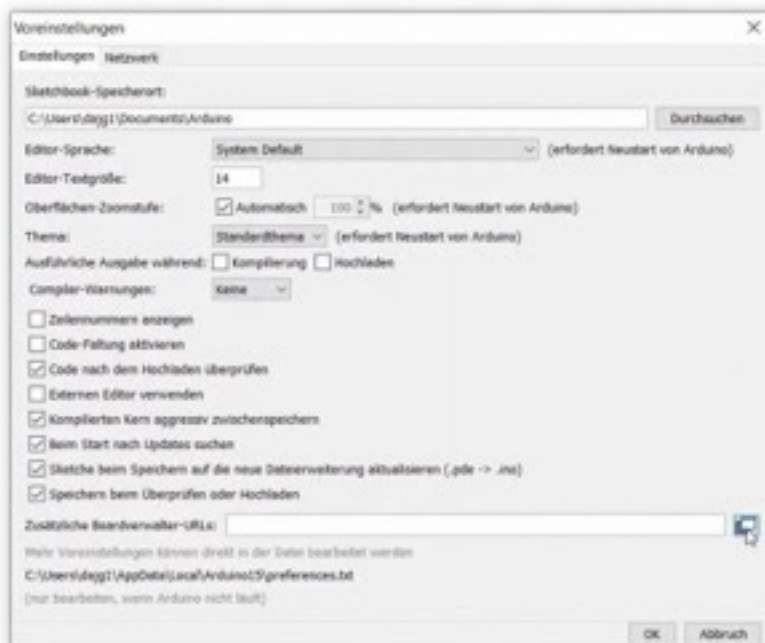
, to run once:

, to run repeatedly:



sketch_apr24a

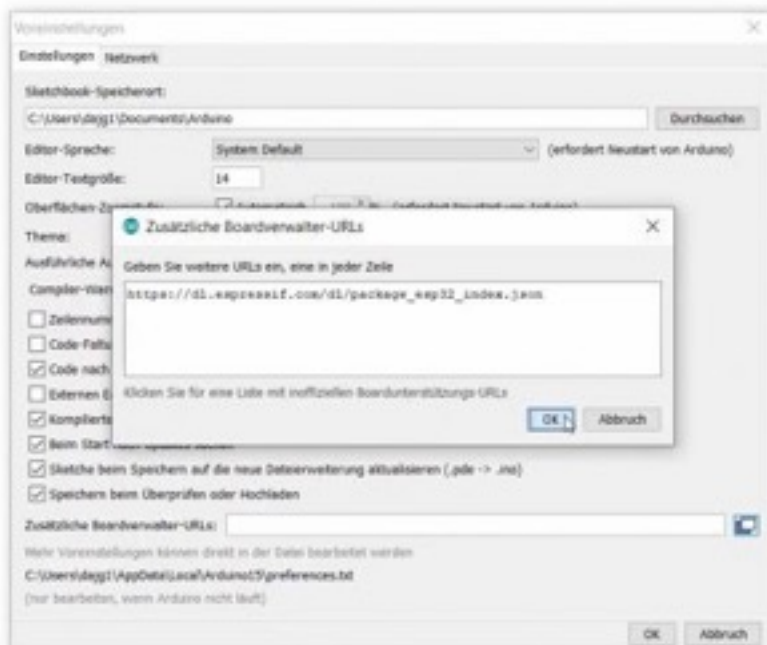
```
void setup() {  
  // put your setup code here, to run once:  
  
}  
  
void loop() {  
  // put your main code here, to run repeatedly:  
  
}
```





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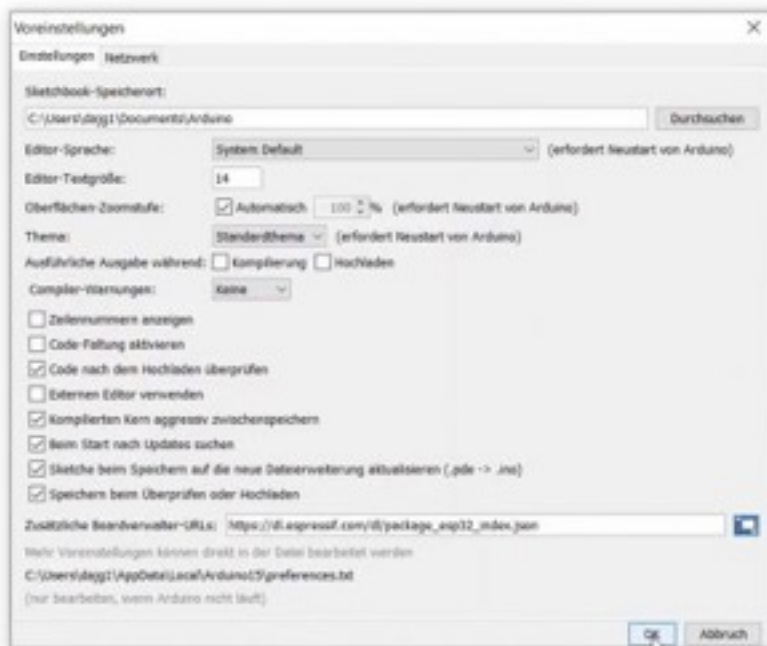
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Automatische Formatierung Strg+T
Sketch archivieren
Kodierung korrigieren & neu laden
Bibliotheken verwalten... Strg+Umschalt+I
Serialer Monitor Strg+Umschalt+M
Serialer Plotter Strg+Umschalt+L
WiFi101 / WiFiNINA Firmware Updater
Board: "Arduino/Genuino Uno"
Port: "COM6"
Boardinformationen holen
Programmer: "USBtinyISP"
Bootloader brennen

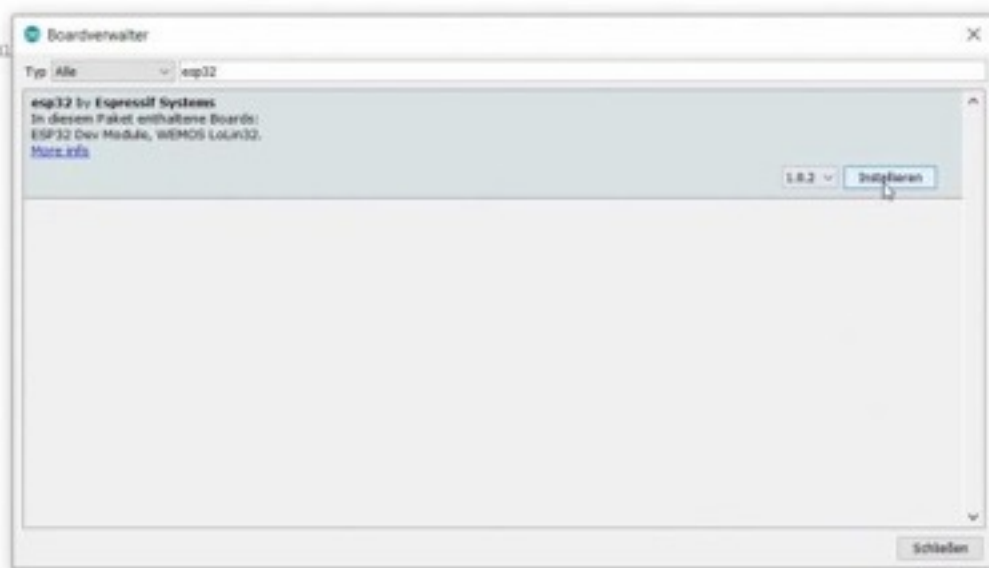
Boardverwalter...

- Arduino AVR-Boards
- Arduino Yún
- Arduino/Genuino Uno
- Arduino Duemilanove or Diecimila
- Arduino Nano
- Arduino/Genuino Mega or Mega 2560
- Arduino Mega ADK
- Arduino Leonardo
- Arduino Leonardo ETH
- Arduino/Genuino Micro
- Arduino Explora
- Arduino Mini
- Arduino Ethernet
- Arduino Fio
- Arduino BT
- LilyPad Arduino USB
- LilyPad Arduino
- Arduino Pro or Pro Mini
- Arduino NG or older
- Arduino Robot Control
- Arduino Robot Motor
- Arduino Gemma
- Adafruit Circuit Playground
- Arduino Yún Mini
- Arduino Industrial 101
- Linino One
- Arduino Uno WiFi



sketch_apr24a

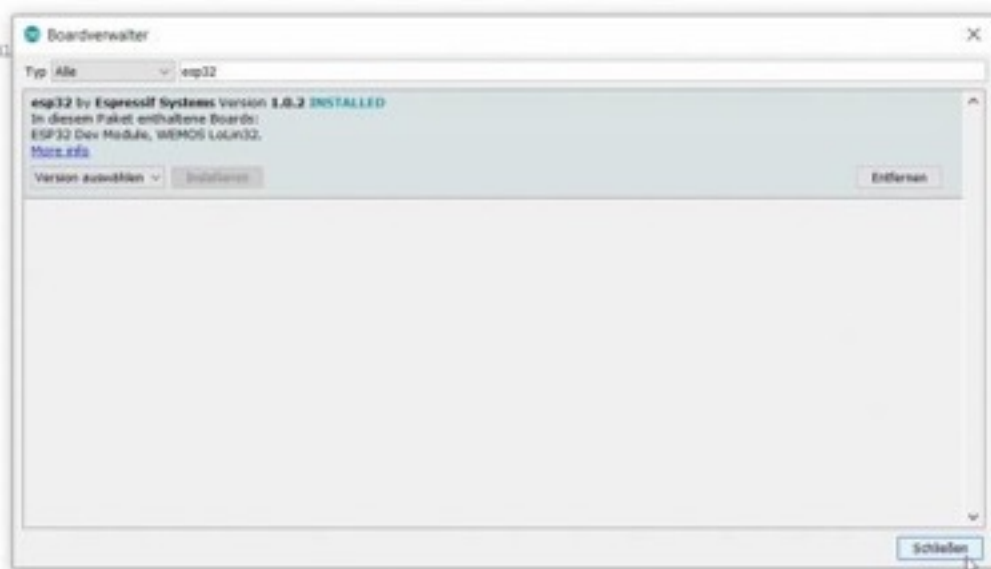
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Serialer Monitor Strg+Umschalt+M
Serialer Plotter Strg+Umschalt+L
WiFi101 / WIFININA Firmware Updater

Board: "Arduino/Genuino Uno"

Port: "COM6"

Boardinformationen holen

Programmer: "USBtinyISP"

Bootloader brennen

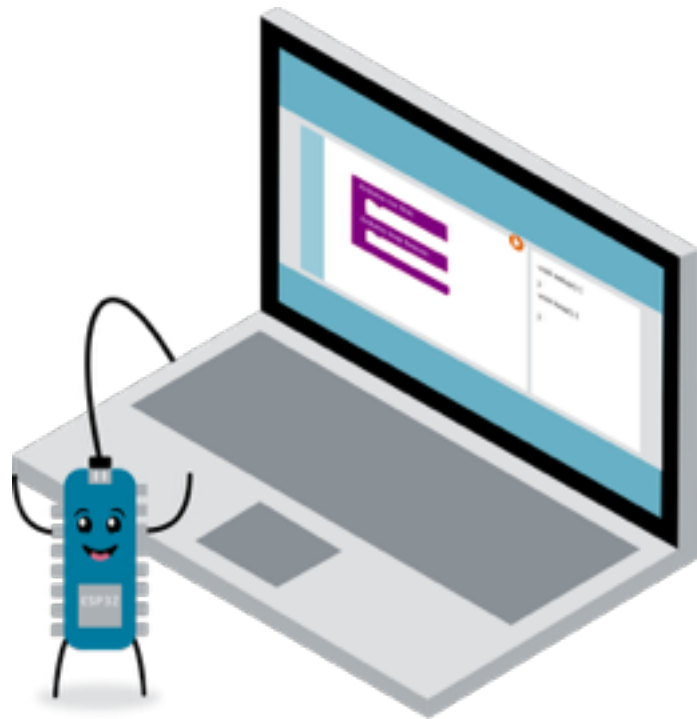
Boardverwalter...

Arduino Ethernet
Arduino Fio
Arduino BT
LilyPad Arduino USB
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Arduino Gemma
Adafruit Circuit Playground
Arduino Yún Mini
Arduino Industrial 101
Lilino One
Arduino Uno WiFi
ESP32 Arduino
ESP32 Dev Module
ESP32 Wrover Module
ESP32 Pico Kit
Turtle IoT Node
TTGO LoRa32-OLED V1
XinaBox CW02
SparkFun ESP32 Thing
u-blox NINA-W10 series (ESP32)
Widora AIR
Electronic SweetPeas - ESP320
Nano32
LOLIN D32
LOLIN D32 PRO
WEMOS LOLIN32
Dongsen Tech Pocket 32
"WeMos" WiFi&Bluetooth Battery

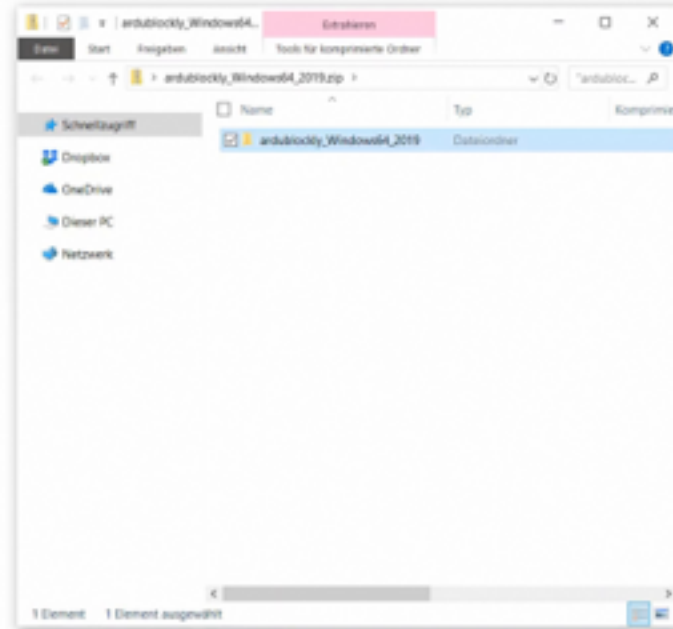
- Programming environment, which is block-based and generates code for the Arduino IDE

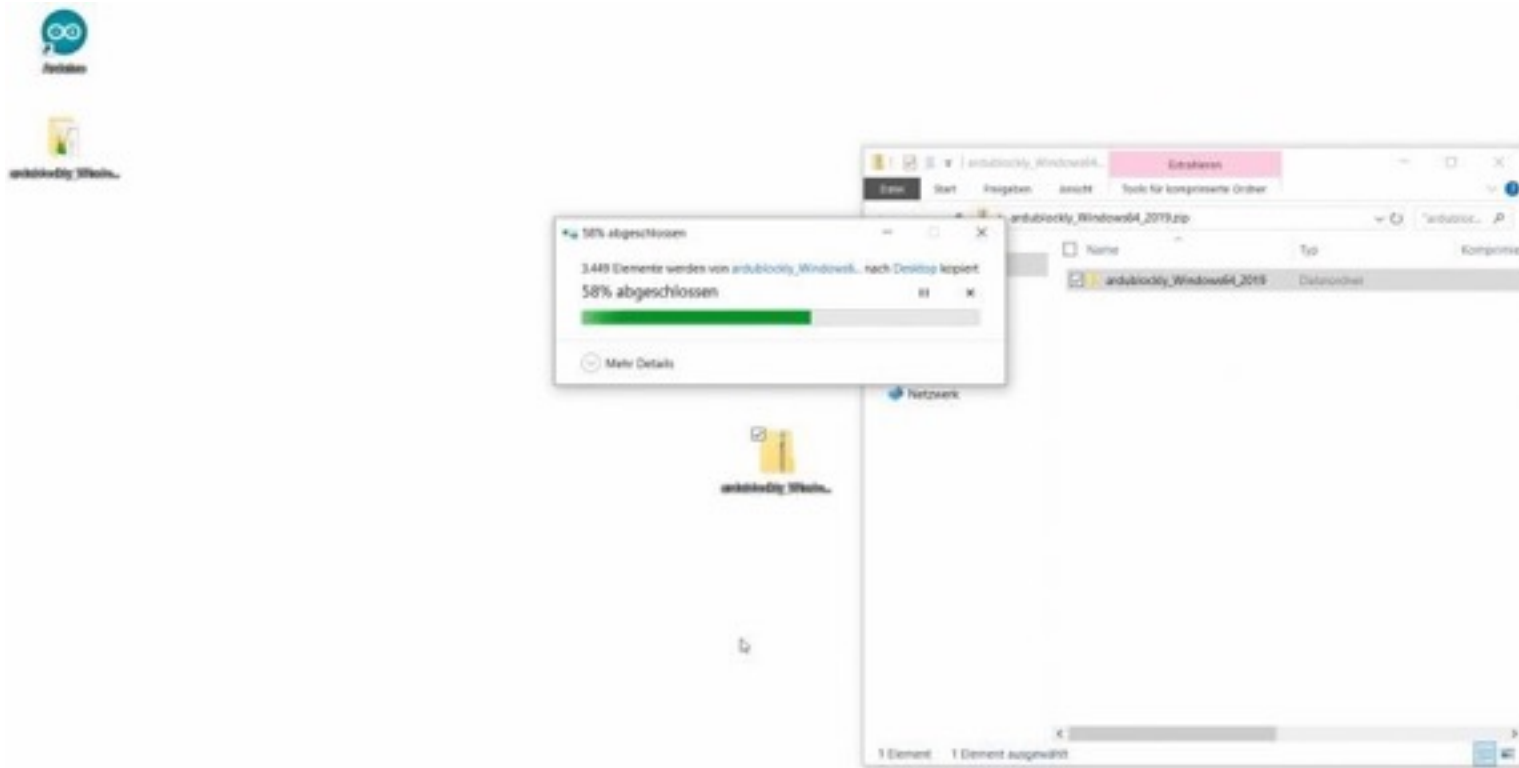
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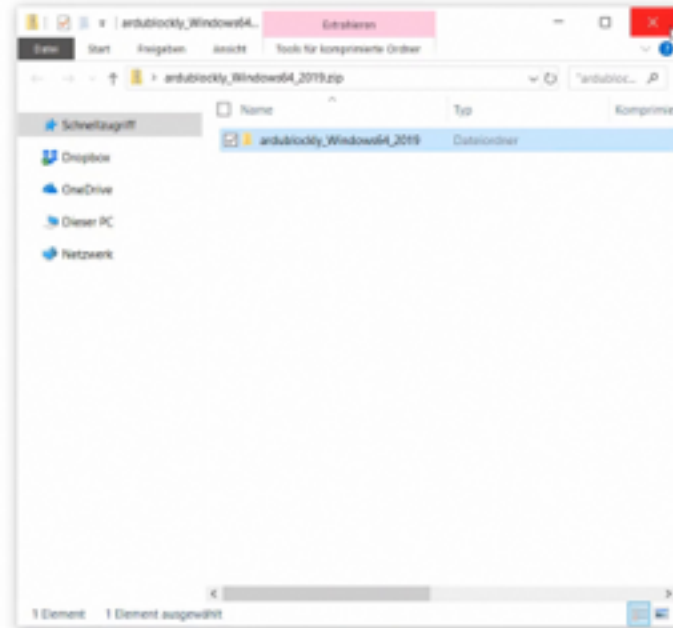
- Simplified introduction to programming
- Fewer programming errors
- Switching to programming with a non-visual programming language easier





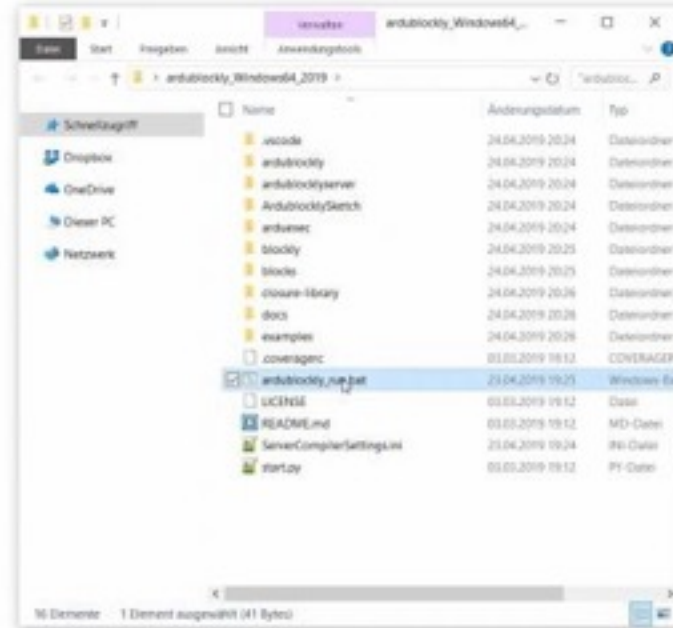


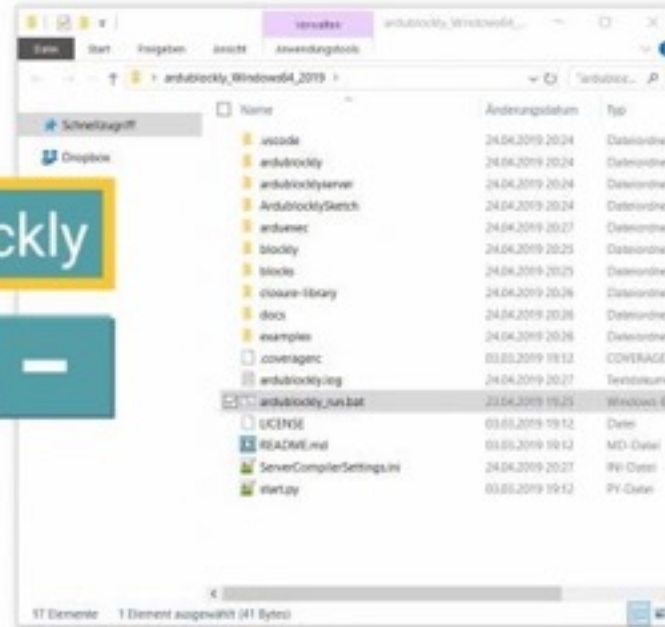
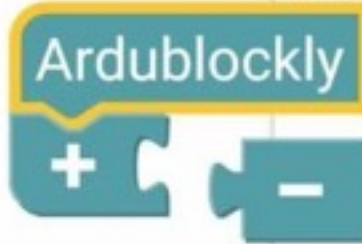




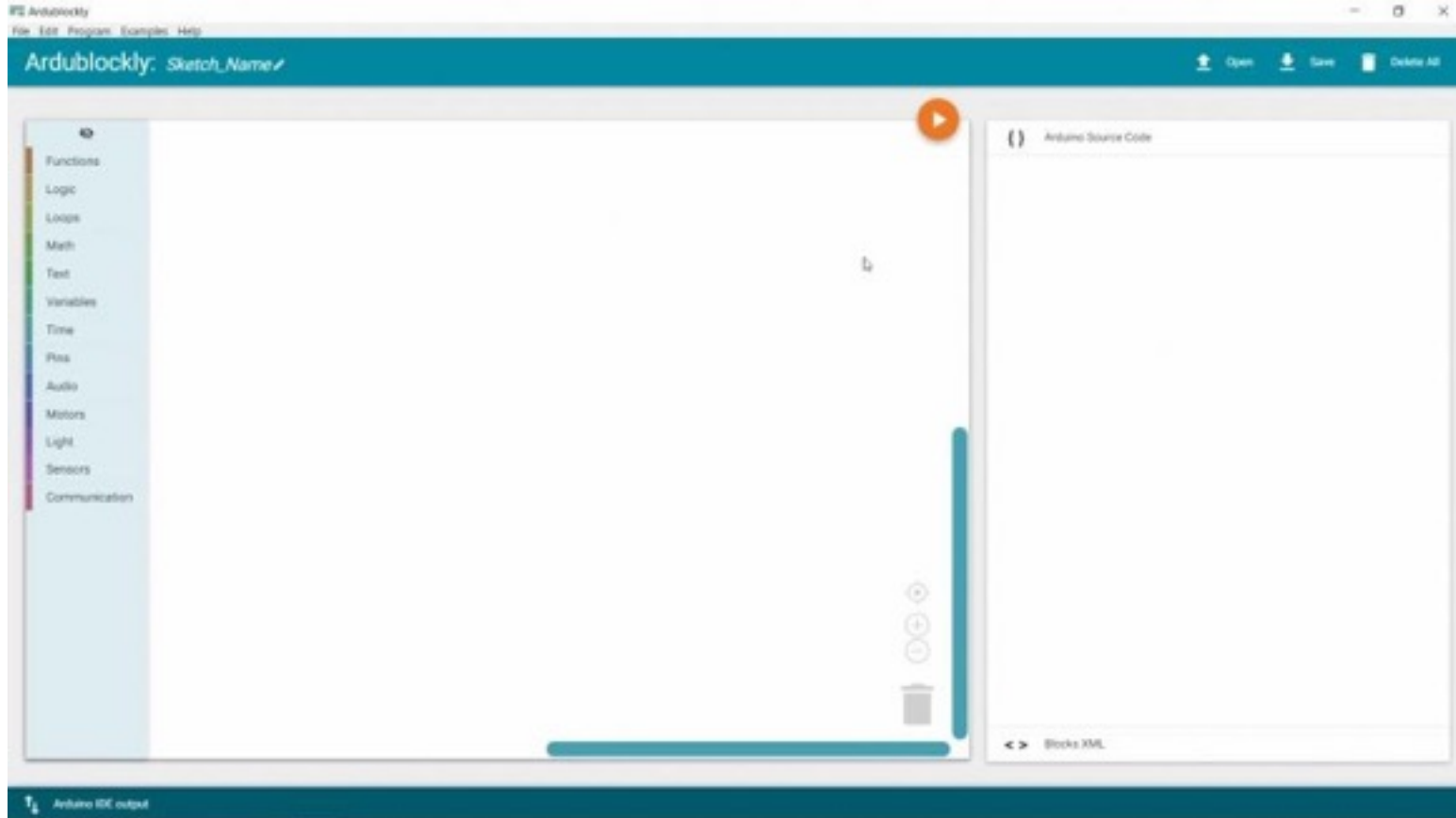




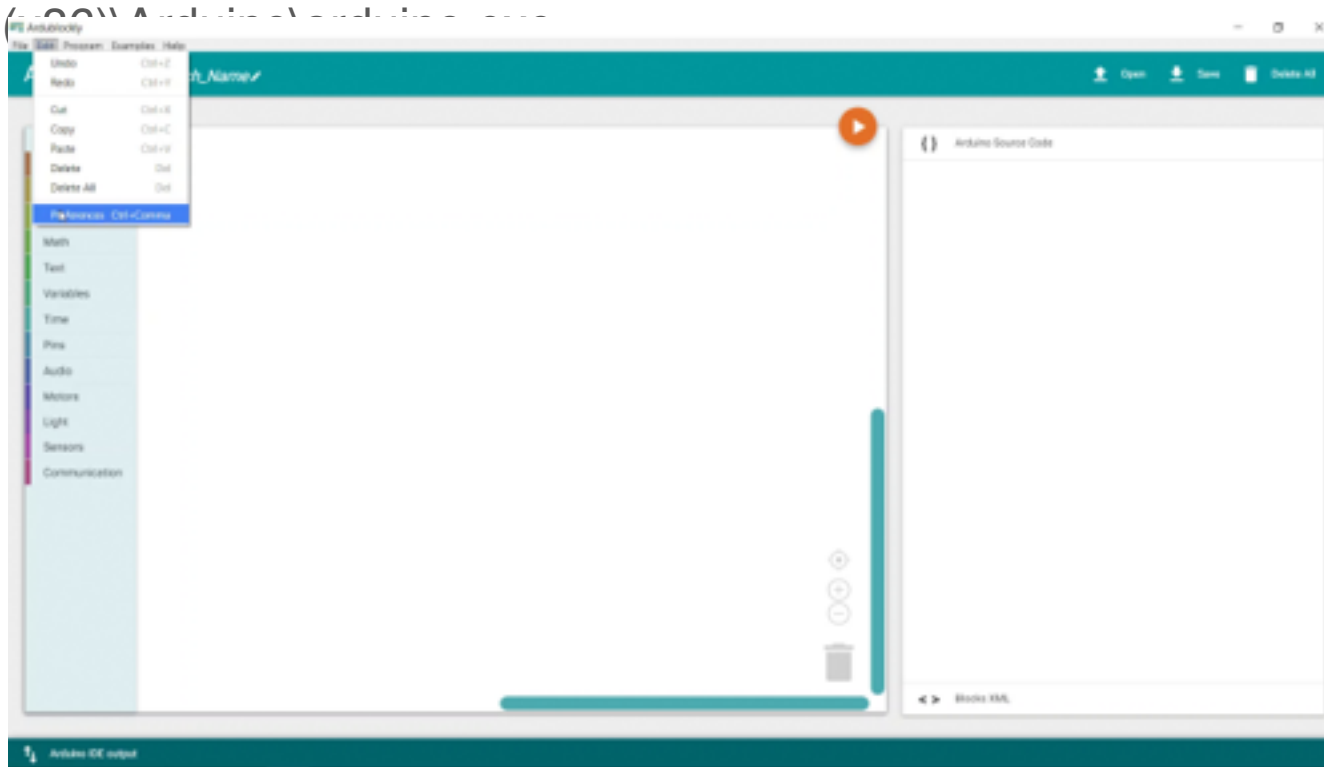




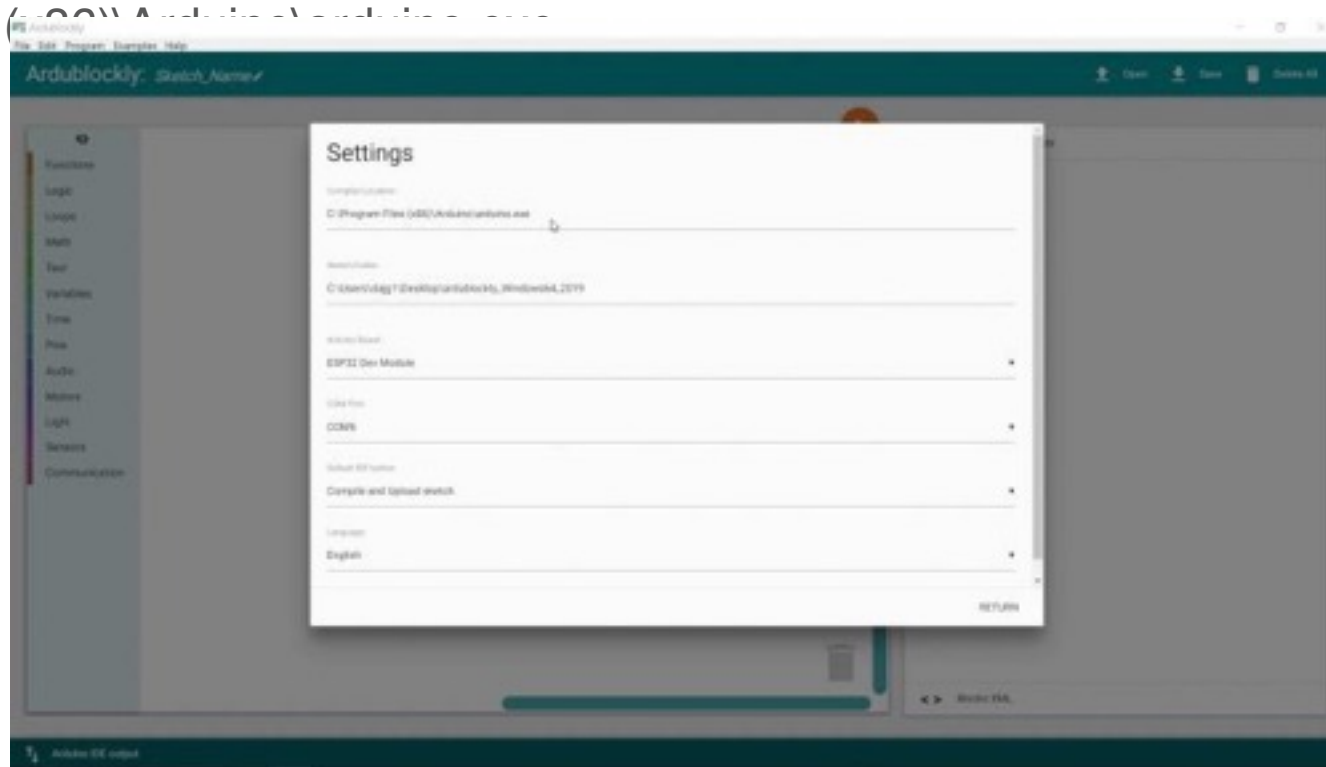
Installation - Ardublockly



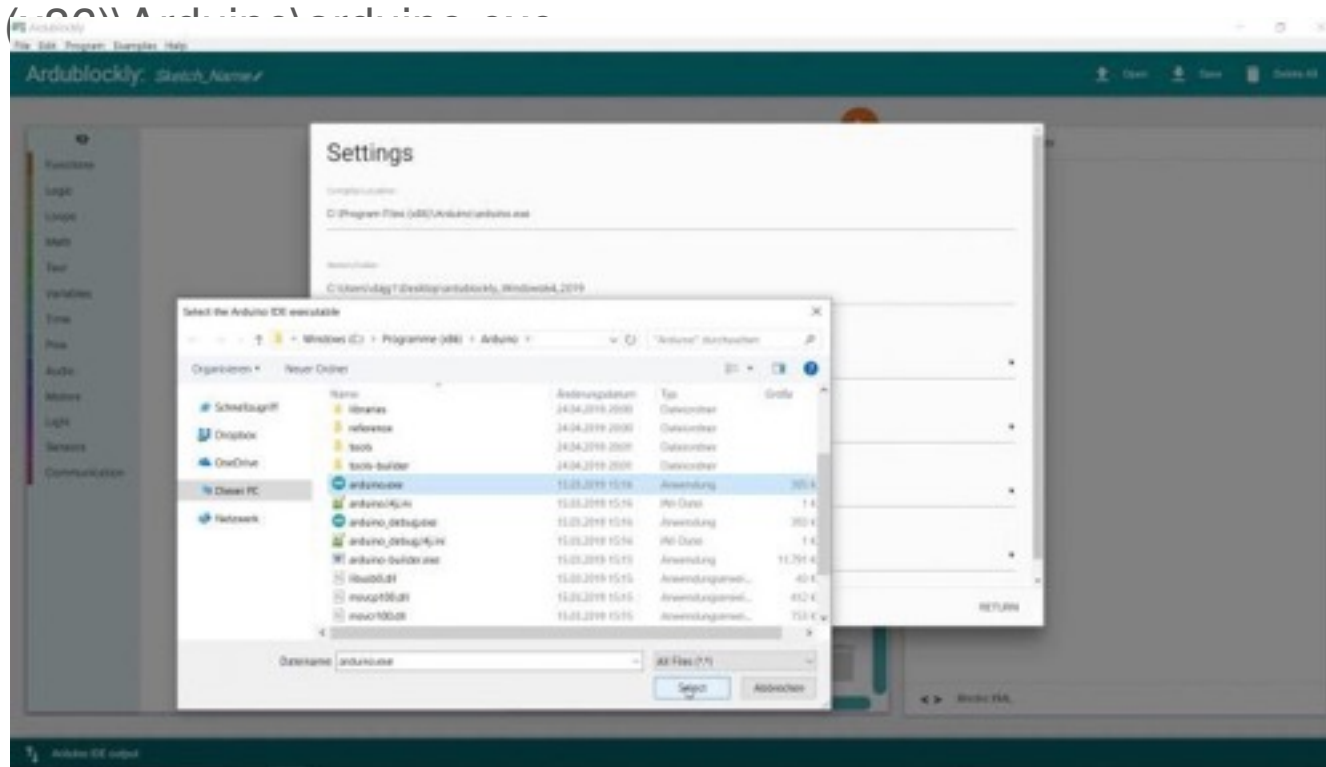
- C:\Program Files



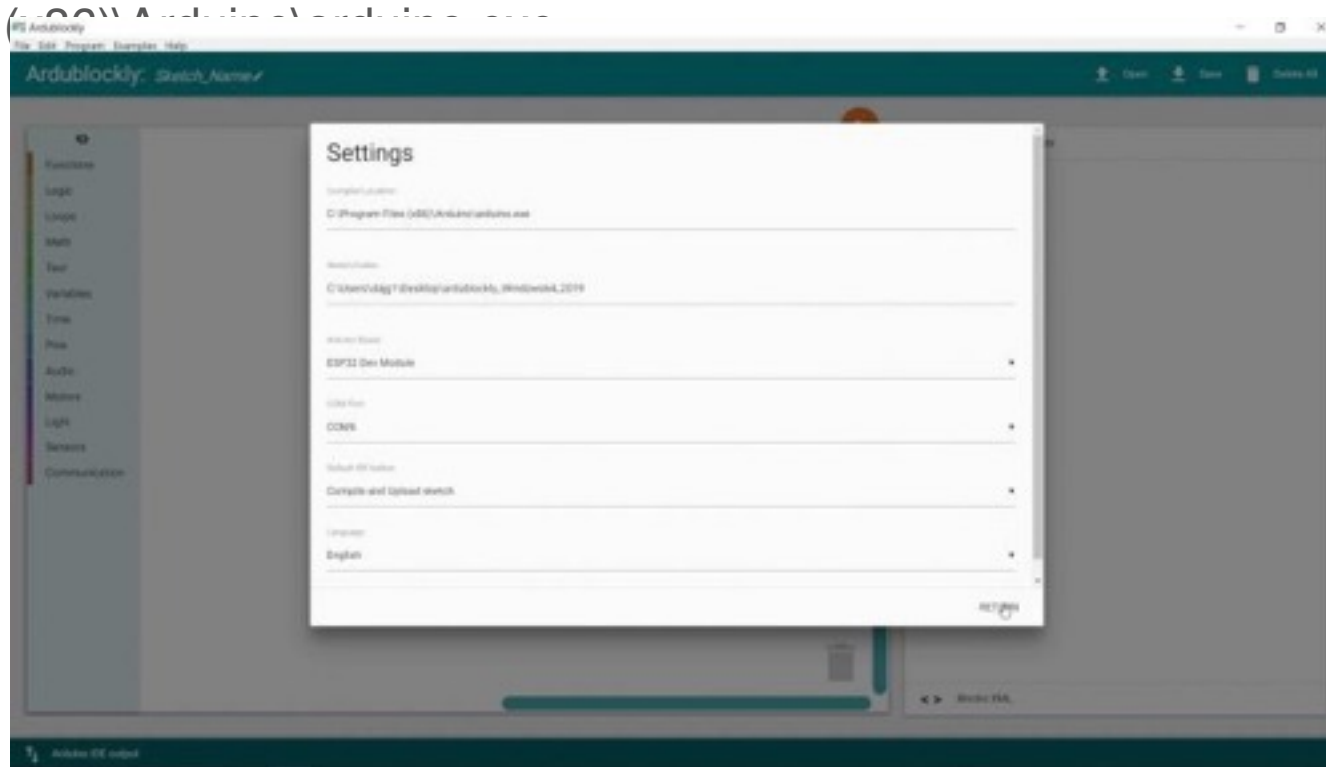
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test run

