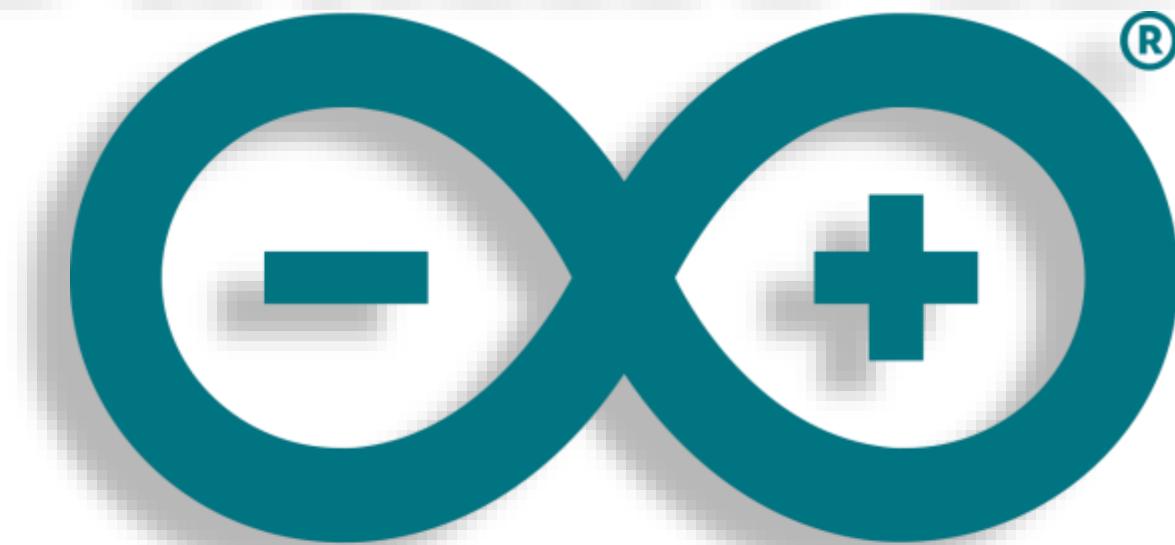


Install Arduino IDE



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

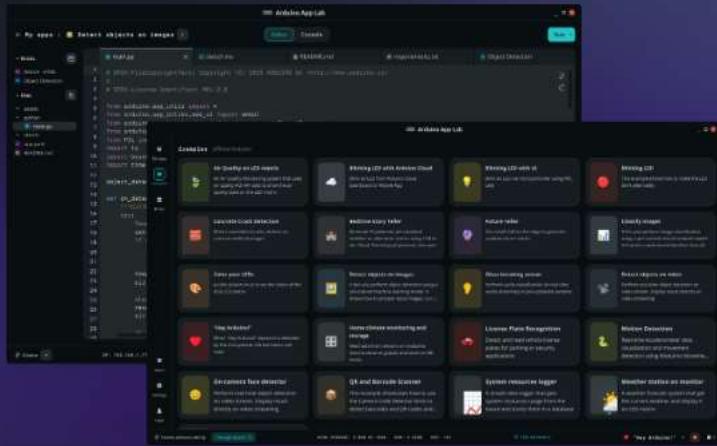
arduino.cc/en/software/

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App Lab: from Sketch to Linux to AI, all in one place

The new, all-in-one development environment designed to redefine how you build applications across embedded systems, Linux, and edge AI.

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Bring Your Projects to Life with Arduino Software



Arduino IDE 2.3.6

Release notes

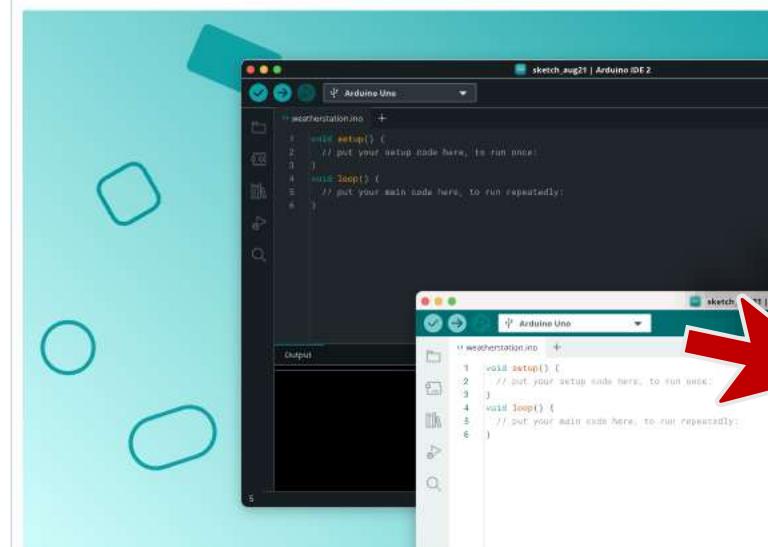
The new major release of the Arduino IDE is faster and even more powerful! In addition to a more modern editor and a more responsive interface it features autocomplete, code navigation, and a live debugger. For more details, check the [Arduino IDE Documentation](#).

Windows Win 10 or newer (64-bit)



DOWNLOAD

Bring Your Projects to Life with Arduino Software



Arduino IDE 2.3.6

[Release notes](#)

The new major release of the Arduino IDE is faster and even more powerful! In addition to a more modern editor and a more responsive interface it features autocomplete, code navigation, and even a live debugger. For more details, check the [Arduino IDE 2.0 documentation](#).

[DOWNLOAD](#)

Windows Win 10 or newer (64-bit)

Windows Win 10 or newer (64-bit)

Windows MSI installer

Windows ZIP file

Linux AppImage (64-bit X86-64)

Linux ZIP file (64-bit X86-64)

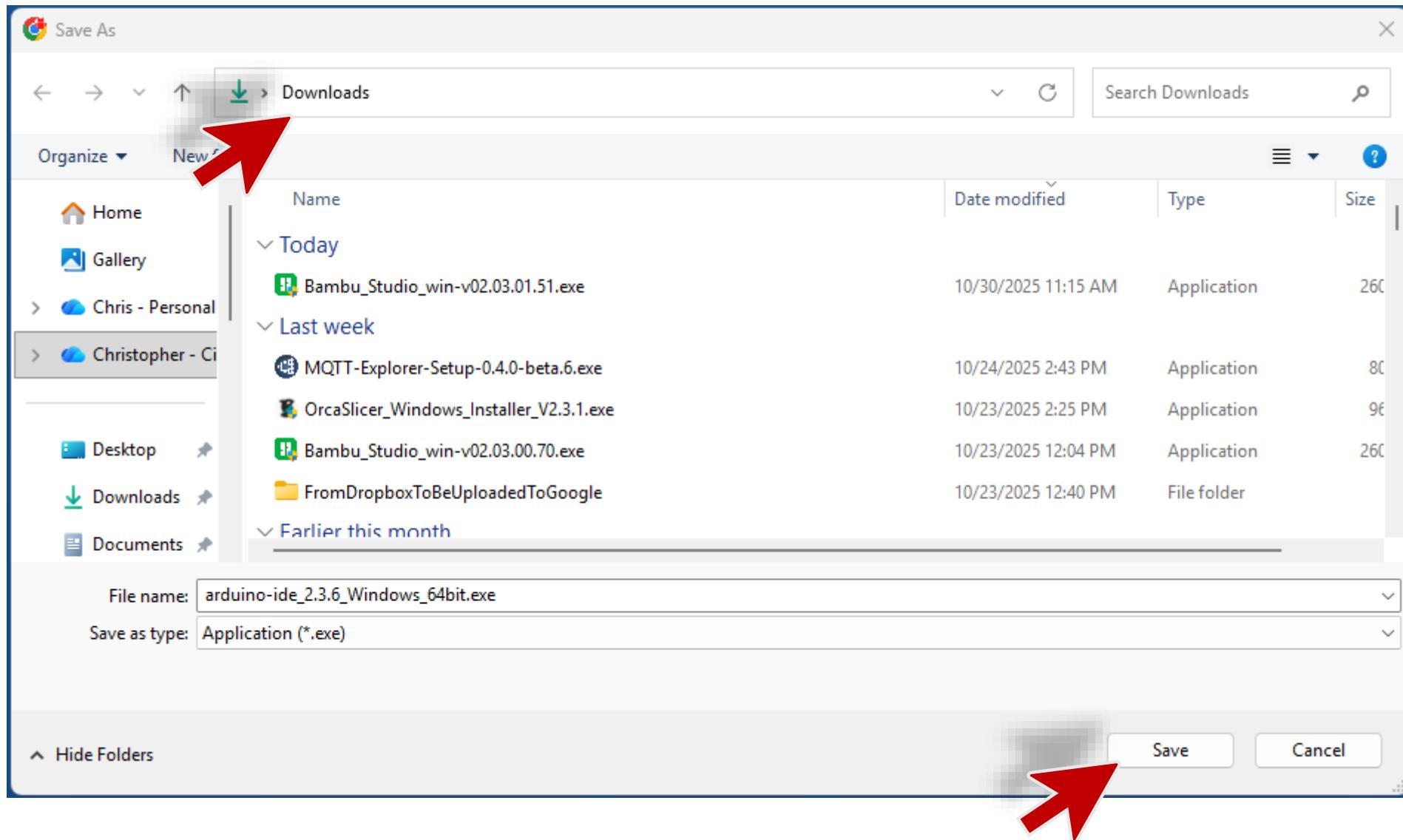
macOS Intel 10.15 Catalina or newer (64-bit)

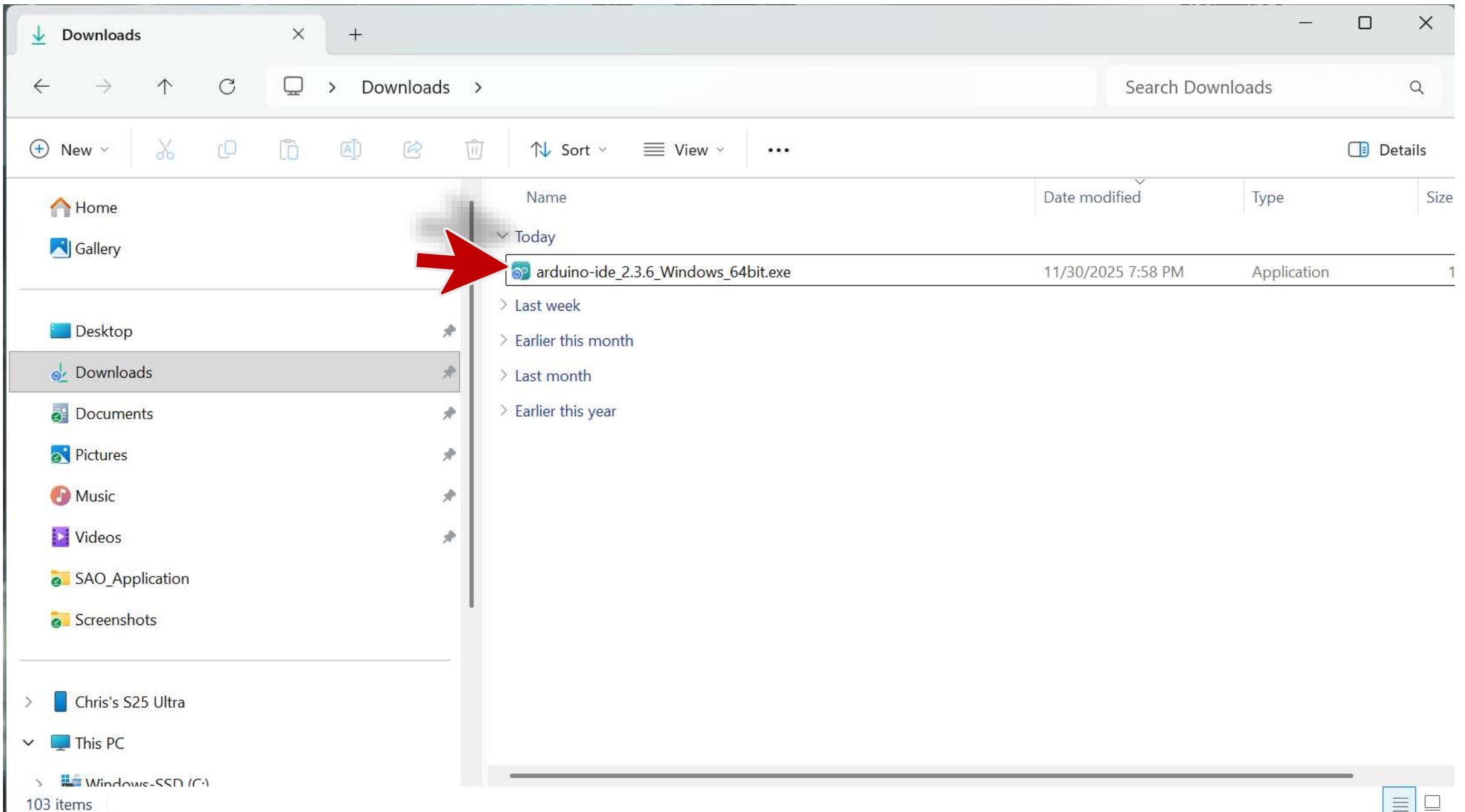
macOS Apple Silicon 11 Big Sur or newer (64-bit)

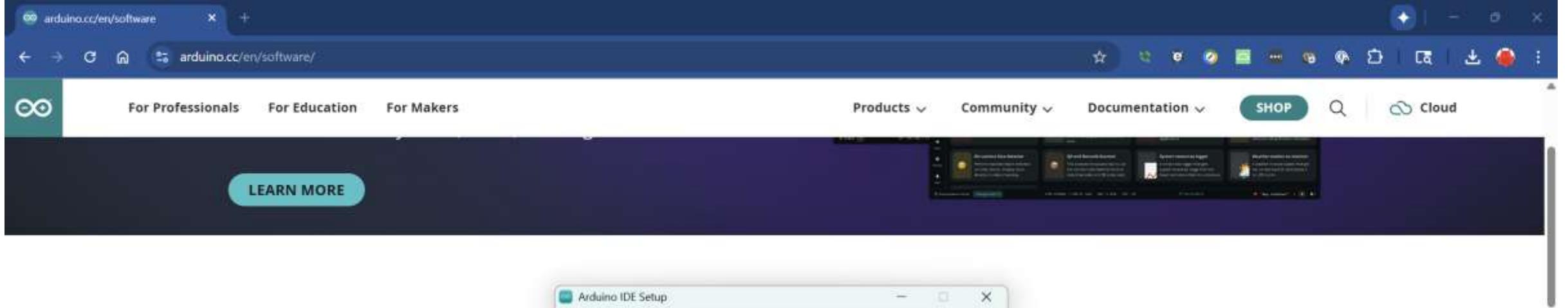
</> **Legacy IDE (1.8.19)**

Download a legacy version of the Arduino IDE.









Bring Your Projects

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If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install Arduino IDE.

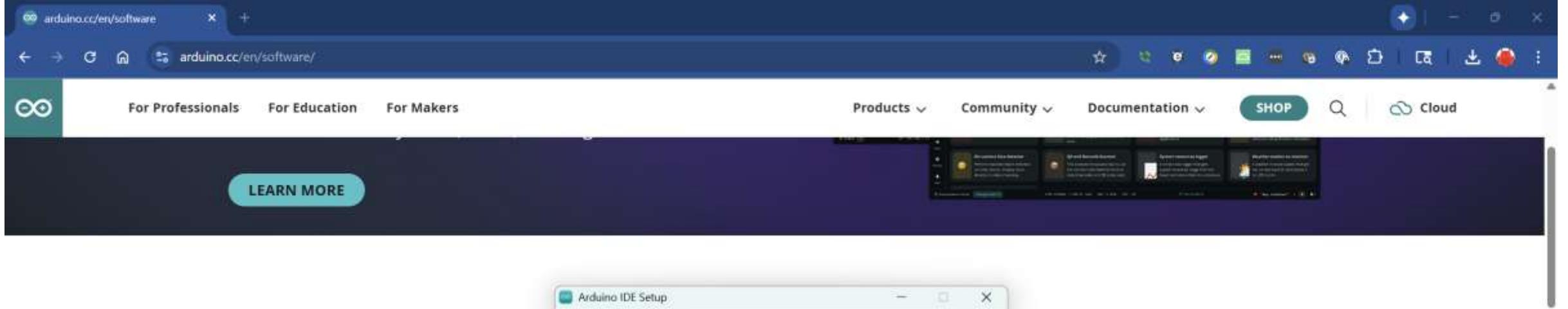
I Agree **Cancel**

Nightly Builds

Download a preview of the incoming release with the most updated features and bugfixes.

The Arduino IDE 2.0 is open source and its source code is hosted on [GitHub](#).

DOWNLOAD



Bring Your Projects

The Arduino IDE is faster and even more modern editor and a more responsive environment, code navigation, and even a live preview. Check the [Arduino IDE 2.0 documentation](#).

Nightly Builds

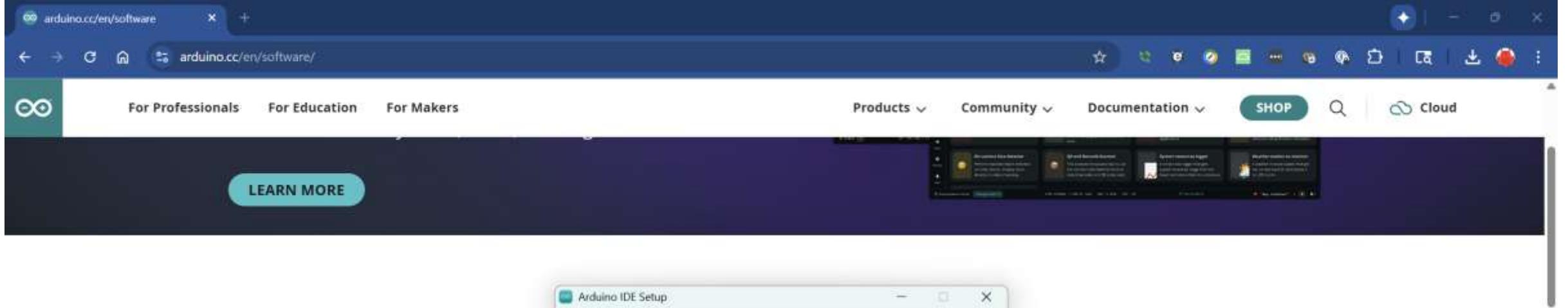
Download a preview of the incoming release with the most updated features and bugfixes.

The Arduino IDE 2.0 is open source and its source code is hosted on [GitHub](#).

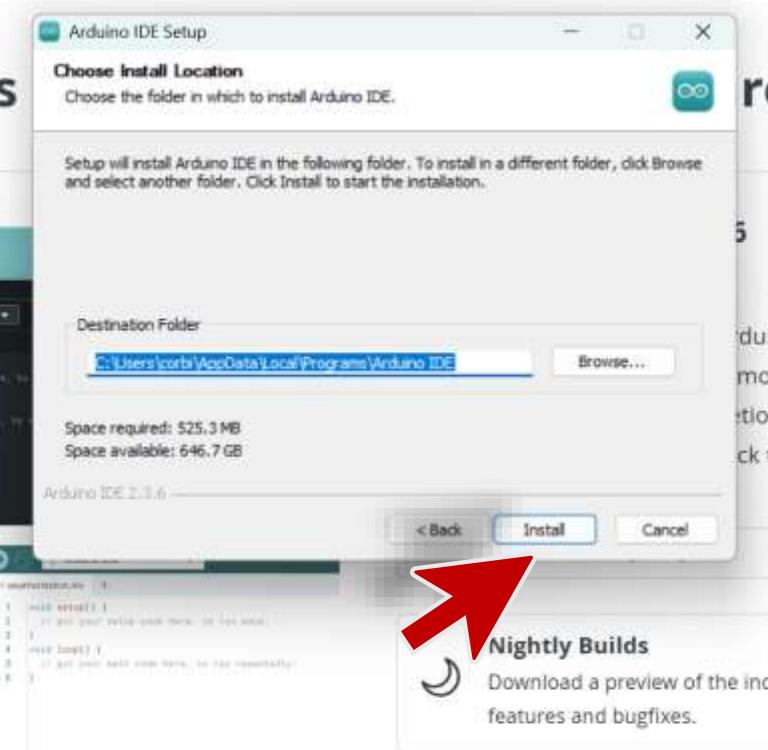
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Legacy IDE (1.8.19)

Download a legacy version of the Arduino IDE.



Bring Your Projects



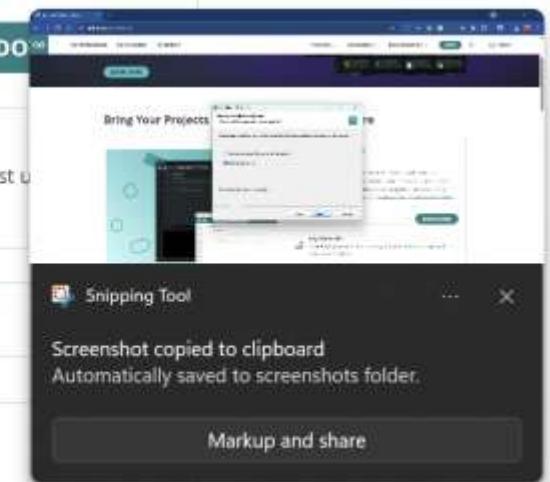
Nightly Builds

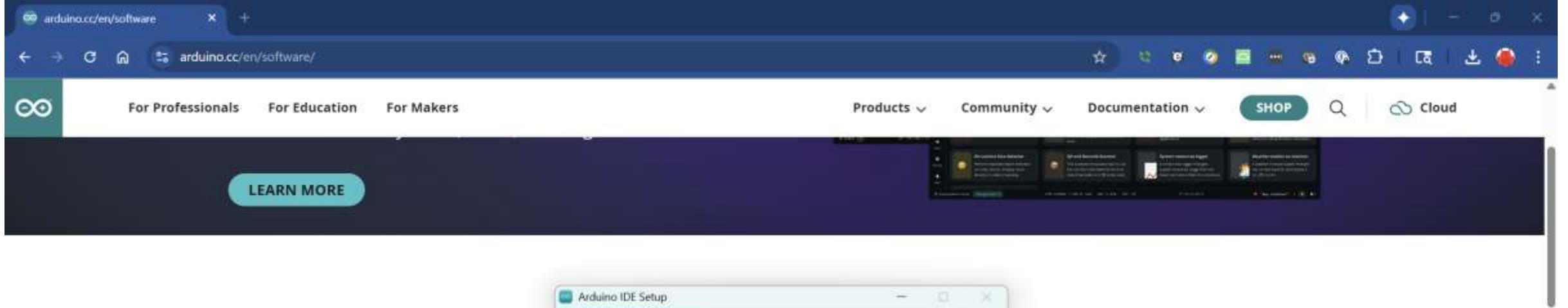
Download a preview of the incoming release with the most up-to-date features and bugfixes.

The Arduino IDE 2.0 is open source and its source code is hosted on [GitHub](#).

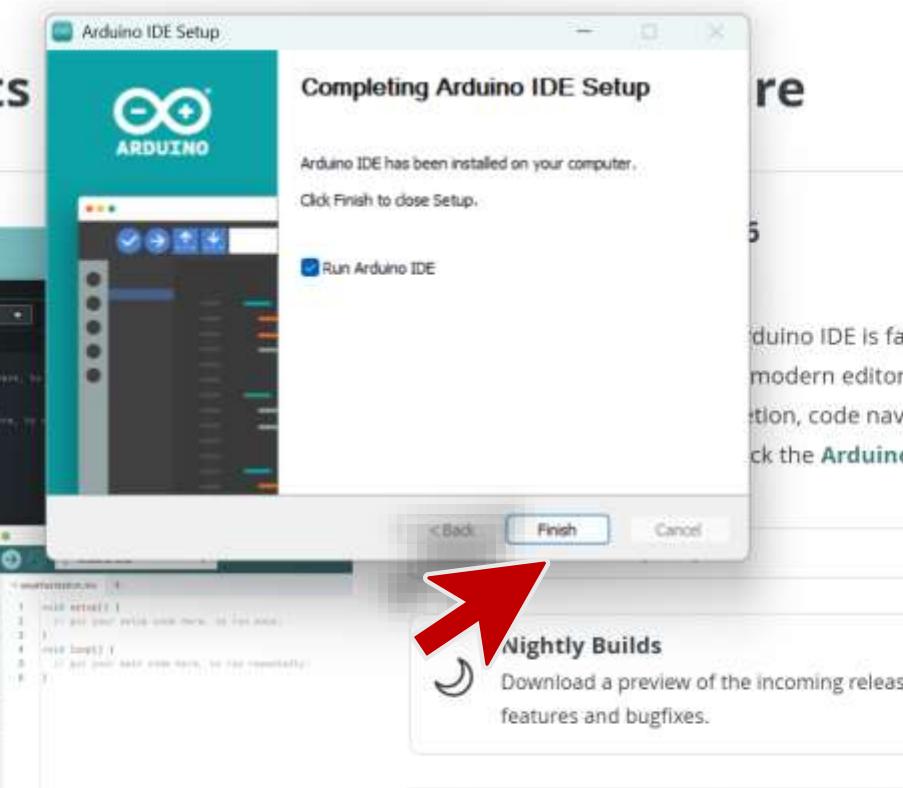
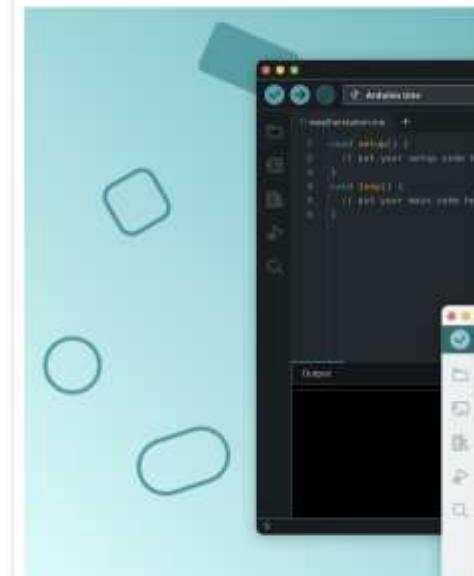
Legacy IDE (1.8.19)

Download a legacy version of the Arduino IDE.





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The Arduino IDE 2.0 is open source and its source code is hosted on [GitHub](#).

</> **Legacy IDE (1.8.19)**

Download a legacy version of the Arduino IDE.

Set Up Arduino IDE

Install ESP Boards

*Likely redundant with newer IDE



ESP32 Dev Board



...

etch_nov2a.ino

```
1 void setup() {  
2     // put your setup code here, to run once:  
3  
4 }  
5  
6 void loop() {  
7     // put your main code here, to run repeatedly:  
8  
9 }  
10
```



File Edit Sketch Tools Help

New Sketch Ctrl+N

New Cloud Sketch Alt+Ctrl+N

Open... Ctrl+O

Open Recent >

Sketchbook >

Examples >

Close Ctrl+W

Save Ctrl+S

Save As... Ctrl+Shift+S

Preferences... Ctrl+Comma

Advanced >

Quit Ctrl+Q

ESP32S3



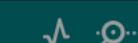
...

{

setup code here, to run once:

main code here, to run repeatedly:





sketch_nov2a.ino

```
1 void setup() {  
2     // put your setup code here, to run once:  
3 }  
4  
5 void loop() {  
6     // put your main code here, to  
7 }  
8  
9 }  
10
```

Preferences

Settings

Network

Sketchbook location:

c:\Users\corbi\Documents\Arduino

BROWSE

 Show files inside Sketches

Editor font size:

14

Interface scale:

 Automatic 100 %

Theme:

Light

Language:

English (Reload required)

Show verbose output during

 compile upload

Compiler warnings

None

 Verify code after upload Auto save Editor Quick SuggestionsAdditional boards manager URLs: [ubusercontent.com/espressif/arduino-esp32/gh-pages/package_esp32_index.json](https://raw.githubusercontent.com/espressif/arduino-esp32/gh-pages/package_esp32_index.json)

CANCEL

OK

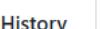
https://raw.githubusercontent.com/espressif/arduino-esp32/gh-pages/package_esp32_index.json

 Files main    Go to file 

-  Boron_Code
-  Modified_appGlobals.h
-  Particle_Event_Template
-  Particle_HTTP_Template
-  README.md
-  XIAO_MAC_Tool

SENATIA_2025_Projects / README.md 

corbitt799 Fix grammatical error in README.md

39fa4eb · 3 hours ago [Preview](#)[Code](#)[Blame](#)

63 lines (37 loc) · 1.89 KB

SE NATIA 2025 Conference Projects

This repository contains setup details and useful links for our 2025 projects.

Please DO NOT try to work ahead of class. We will reference sections of this site when appropriate.

ESP32 Camera Setup with Arduino IDE

Arduino IDE Download

Download the latest Arduino IDE from the official Arduino website:

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

ESP32 Board Manager URL

Add the following Board Manager URL in Arduino IDE for ESP32 board support:

https://raw.githubusercontent.com/espressif/arduino-esp32/gh-pages/package_esp32_index.json

ESP32-CAM_MJPEG2SD





BOARDS MANAGER

Filter your search...



Arduino AVR Boards by Arduino

Boards included in this package:
Arduino Yún, Arduino UNO, Arduino
UNO Mini, Arduino UNO WiFi,...

[More info](#)

1.8.6

INSTALL

Arduino ESP32 Boards by Arduino

Boards included in this package:
Arduino Nano ESP32

[More info](#)

2.0.18-

INSTALL

Arduino Mbed OS Edge Boards by Arduino

Boards included in this package:
Arduino Edge Control

[More info](#)

4.4.1

INSTALL

Arduino Mbed OS Giga Boards by Arduino





BOARDS MANAGER

esp

e:
All

Arduino AVR Boards by

Arduino

Boards included in this package:

Arduino Yún, Arduino UNO, Arduino
UNO Mini, Arduino UNO WiFi, Arduin...[More info](#)

1.8.6

[INSTALL](#)

Arduino ESP32 Boards by

Arduino

Boards included in this package:

Arduino Nano ESP32

[More info](#)

2.0.18-

[INSTALL](#)

esp32 by Espressif Systems

Boards included in this package:

ESP32 Dev Board, ESP32-C3 Dev
Board, ESP32-C6 Dev Board, ESP32-...[More info](#)

3.3.2

[INSTALL](#)

sketch_nov2a.ino

```
1 void setup() {  
2     // put your setup code here, to run once:  
3  
4 }  
5  
6 void loop() {  
7     // put your main code here, to run repeatedly:  
8 }  
9  
10
```





BOARDS MANAGER

sketch_nov2a.ino

```
1 void setup() {  
2     // put your setup code here, to run once:  
3  
4 }  
5  
6 void loop() {  
7     // put your main code here, to run repeatedly:  
8 }  
9  
10
```

Arduino AVR Boards by Arduino

Boards included in this package:
Arduino Yún, Arduino UNO, Arduino Uno Mini, Arduino UNO WiFi, Arduin...
[More info](#)

1.8.6

INSTALL

Arduino ESP32 Boards by Arduino

Boards included in this package:
Arduino Nano ESP32
[More info](#)

2.0.18-

INSTALL

esp32 by Espressif Systems

Boards included in this package:
ESP32 Dev Board, ESP32-C3 Dev Board, ESP32-C6 Dev Board, ESP3...
[More info](#)

3.3.2

INSTALL

Output

```
esp32:13c932 esp:c11_gdb@10.5_20230315  
esp32:openocd-esp32@v0.12.0-esp32-20250707  
esp32:esptool_py@5.1.0  
Configuring tool.  
esp32:s3-gcc@2021r2-p5 installed  
Installing esp32:xtensa-esp-elf-gdb@11.2_20220823  
esp32:mklittlefs@4.0.2-db0513a  
esp32:esp32@3.3.2  
Installing esp32:esp32-arduino-libs@idf-release_v5.5-07e9bf49-v1  
Configuring tool.  
esp32:xtensa-esp-elf-gdb@11.2_20220823 installed  
Installing platform arduino:esp32@2.0.18-arduino.5
```

Processing esp32:3.3.2: Installing esp32:esp32-arduino-libs@idf-release_v5.5-07e9bf49-v1

Processing Arduino ESP32 Boards:2.0.18-arduino.5: Configuring tool.

Select Board

BOARDS MANAGER

esp

Type: All

Arduino AVR Boards by Arduino

Boards included in this package:
Arduino Yún, Arduino UNO, Arduino Uno Mini, Arduino UNO WiFi, Arduin...

More info

1.8.6 INSTALL

Arduino ESP32 Boards by Arduino

2.0.18-arduino.5 installed

Boards included in this package:
Arduino Nano ESP32

More info

2.0.18-REMOVE

esp32 by Espressif Systems

3.3.2 installed

Boards included in this package: Fri3d Badge 2024 (ESP32-S3-WROOM-1) Deneyap Kart v2, Connaxio's Esp...

More info

3.3.2 REMOVE

```
sketch_nov2a.ino
1 void setup() {
2     // put your setup code here, to run once:
3
4 }
5
6 void loop() {
7     // put your main code here, to run repeatedly:
8
9 }
10
```

Remove Option Confirms Installation

```
Installing esp32:openocd-esp32@v0.12.0-esp32-20250707
Configuring tool.
esp32:openocd-esp32@v0.12.0-esp32-20250707 installed
Installing esp32:esptool_py@5.1.0
Configuring tool.
esp32:esptool_py@5.1.0 installed
Installing esp32:mklittlefs@4.0.2-db0513a
Configuring tool.
esp32:mklittlefs@4.0.2-db0513a installed
Installing platform esp32:esp32@3.3.2
Configuring platform.
Platform esp32:esp32@3.3.2 installed
```

Show hidden icons

Ln 1, Col 1 X No board selected

Set Up Arduino IDE

Install
RTSP Server

 Select Board

LIBRARY MANAGER

Filter your search...

Type: All Topic: All

AIPIc_Opta by Arduino

Arduino IDE PLC runtime library for Arduino Opta. This is the runtime library and plugins for supporting...

More info

1.2.0  

AIPIc_PMC by Arduino

Arduino IDE PLC runtime library for Arduino Portenta Machine Control
This is the runtime library and...

More info

1.0.6  

Arduino Cloud Provider Examples by Arduino

Examples of how to connect various Arduino boards to cloud providers
More info

1.2.1  

Arduino Low Power by Arduino

sketch_nov2a.ino

```
1 void setup() {
2     // put your setup code here, to run once:
3
4 }
5
6 void loop() {
7     // put your main code here, to run repeatedly:
8 }
9
10
```

Output

```
Installing esp32:openocd-esp32@v0.12.0-esp32-20250707
Configuring tool.
esp32:openocd-esp32@v0.12.0-esp32-20250707 installed
Installing esp32:esptool_py@5.1.0
Configuring tool.
esp32:esptool_py@5.1.0 installed
Installing esp32:mklittlefs@4.0.2-db0513a
Configuring tool.
esp32:mklittlefs@4.0.2-db0513a installed
Installing platform esp32:esp32@3.3.2
Configuring platform.
Platform esp32:esp32@3.3.2 installed
```

LIBRARY MANAGER

rtsp

Category: All
Version: All

ESP32-RTSPServer by KookyMarvin @RjSachse

An RTSP server library for streaming video, audio, and subtitles. This library allows you to easily create an RTSP server.

[More info](#)

1.3.5

Sensirion UART SPS30 by Sensirion

Library for the SPS30 sensor by Sensirion. Enables you to use the SPS30 sensor via UART using the...

[More info](#)

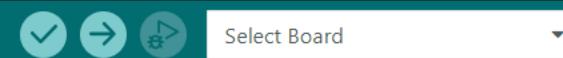
1.0.1

sketch_nov2a.ino

```
1 void setup() {
2     // put your setup code here, to run once:
3
4 }
5
6 void loop() {
7     // put your main code here, to run repeatedly:
8 }
9
10
```

Output

```
Installing esp32:openocd-esp32@v0.12.0-esp32-20250707
Configuring tool.
esp32:openocd-esp32@v0.12.0-esp32-20250707 installed
Installing esp32:esptool_py@5.1.0
Configuring tool.
esp32:esptool_py@5.1.0 installed
Installing esp32:mklittlefs@4.0.2-db0513a
Configuring tool.
esp32:mklittlefs@4.0.2-db0513a installed
Installing platform esp32:esp32@3.3.2
Configuring platform.
Platform esp32:esp32@3.3.2 installed
```



```
sketch_nov2a.ino
1 void setup() {
2     // put your setup code here, to run once:
3
4 }
5
6 void loop() {
7     // put your main code here, to run repeatedly:
8
9 }
```

Remove Option Confirms Installation

Sensirion UART SPS30 by Sensirion

Library for the SPS30 sensor by Sensirion. Enables you to use the SPS30 sensor via UART using the...

More info

1.0.1

INSTALL

```
Output
Downloading ESP32-RTSPServer@1.3.5
ESP32-RTSPServer@1.3.5
Installing ESP32-RTSPServer@1.3.5
Installed ESP32-RTSPServer@1.3.5
```