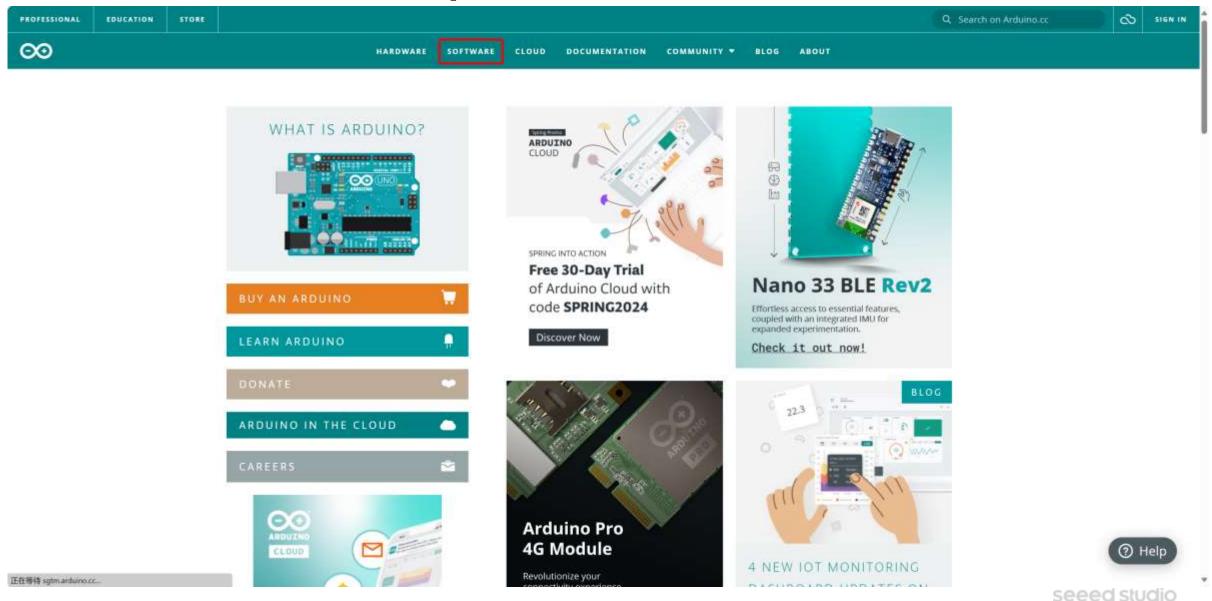
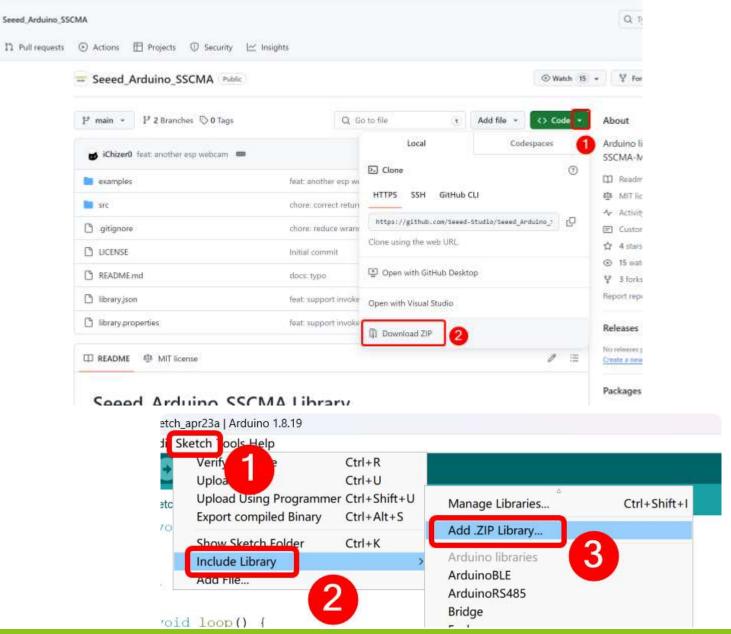
### https://www.arduino.cc/

# **Arduino Environment Preparation**



## **Arduino Environment Preparation**



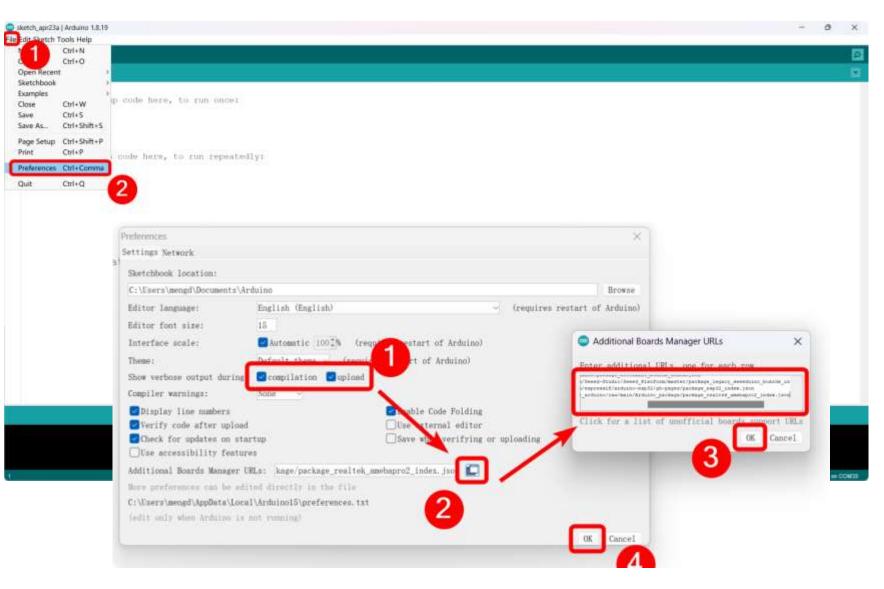
Open your web browser and navigate to the GitHub repository:

https://github.com/Seeed\_Studio/Seeed\_Arduino\_SSCMA

- 2. Click on the green "Code" button and select "Download ZIP" to download the library as a ZIP file.
- 3. Save the ZIP file to a location on your computer where you can easily find it.
- 4. Open the Arduino IDE.
- 5. Go to Sketch > Include Library > Add .ZIP Library.
- 6. In the file browser window that appears, navigate to the location where you saved the downloaded ZIP file.
- 7. Select the ZIP file and click "Open" to add the library to your Arduino IDE.
- 8. The Seeed\_Arduino\_SSCMA library should now be installed and ready to use.
- 9. To verify the installation, go to Sketch > Include Library and check if "Seeed\_Arduino\_SSCMA" appears in the list of installed libraries.

seeed studio

# **Arduino Environment Preparation**

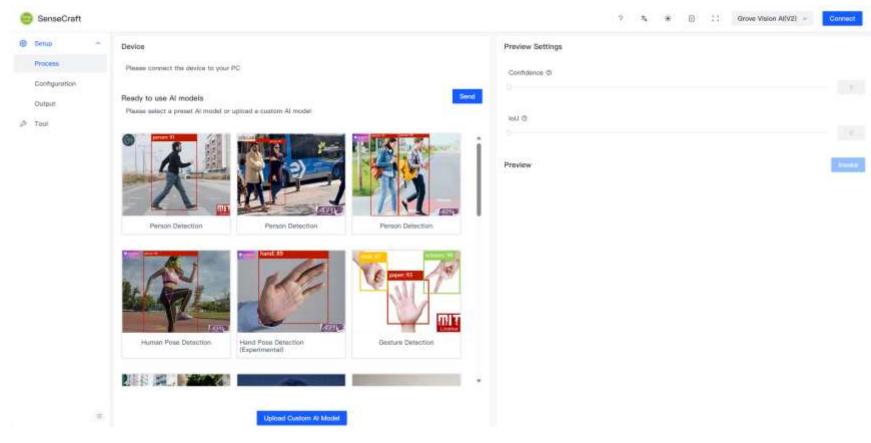


- 1. Open the Arduino IDE.
- 2. Go to File > Preferences.
- 3. In the "Additional Boards Manager URLs" field, enter the following URL:

https://raw.githubusercontent.co m/espressif/arduino-esp32/ghpages/package\_esp32\_index.json

4. Click "OK" to close the Preferences window.

# **Equipment Introduction & Demonstration**

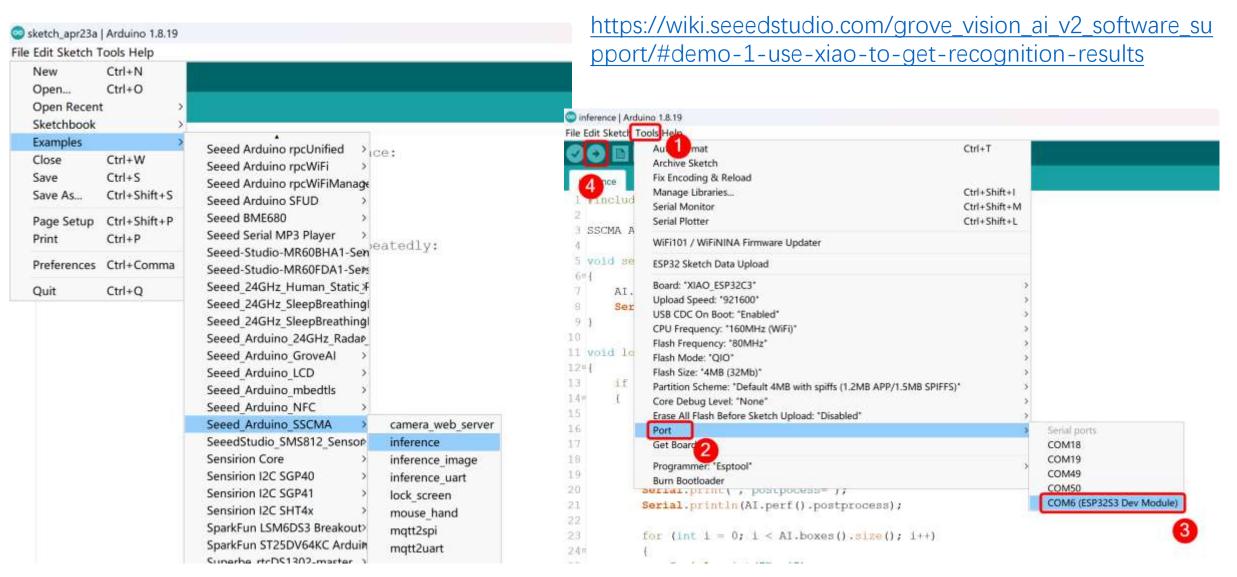


https://seeed-studio.github.io/SenseCraft-Web-Toolkit/#/setup/process

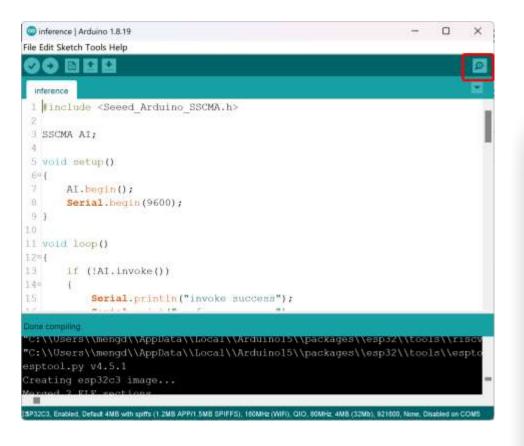
#### SenseCraft Model Assistant

SenseCraft Al empowers users to effortlessly deploy a vast library of publicly available AI models onto their edge devices such as Recomputer (Jetson), XIAO S3, and more, and provides a seamless and user-friendly experience, allowing you to deploy public AI models directly onto your edge devices with just a few clicks. Say goodbye to complex configurations and coding – with SenseCraft Al, you can effortlessly unlock the power of Al on your devices. SenseCraft Al also allows you to upload and share your own trained Al models with the community. By publishing your models, you contribute to a growing library of shared knowledge, fostering collaboration and innovation among Al enthusiasts.

## **MCU + AI Sensors = Unlimited Creative Possibilities**



## MCU + AI Sensors = Unlimited Creative Possibilities



https://wiki.seeedstudio.com/grove\_vision\_ai\_v2\_software\_support/#demo-1-use-xiao-to-get-recognition-results

```
COMS.
                                                                                                             Send
17:02:56.750 -> perf: prepocess=10, inference=45, postpocess=1
17:02:56.841 -> invoke success
17:02:56.841 -> perf: prepocess=10, inference=45, postpocess=0
17:02:56.978 -> invoke success
17:02:56.978 -> perf: prepocess=10, inference=45, postpocess=1
17:02:57.114 -> invoke success
17:02:57.114 -> perf: prepocess=10, inference=45, postpocess=1
17:02:57.114 -> Box[0] target=1, score=62, x=96, y=135, w=108, h=100
17:02:57.252 -> invoke success
17:02:57.252 -> perf: prepocess=10, inference=45, postpocess=1
17:02:57.252 -> Box[0] target=1, score=68, x=105, y=101, w=107, h=95
17:02:57.342 -> invoke success
17:02:57.342 -> perf: prepocess=10, inference=45, postpocess=1
17:02:57.481 -> invoke success
17:02:57.481 -> perf: prepocess=10, inference=46, postpocess=0
17:02:57.481 -> Box[0] target=1, score=67, x=120, y=91, w=95, h=100
17:02:57.618 -> invoke success
17:02:57.618 -> perf: prepocess=10, inference=45, postpocess=1
17:02:57.618 -> Box(0) target=1, score=77, x=118, y=95, w=95, h=85
17:02:57.709 -> invoke success
17:02:57.709 -> perf: prepocess=10, inference=46, postpocess=0
17:02:57.709 -> Box[0] target=1, score=68, x=111, y=96, w=95, h=85
17:02:57.847 -> invoke success
17:02:57.847 -> perf: prepocess=10, inference=45, postpocess=1
17:02:57.847 -> Box[0] target=1, score=68, x=107, y=105, w=95, h=85
17:02:57.983 -> invoke success
17:02:57.983 -> perf: prepocess=10, inference=45, postpocess=1
Autoscroll Show timestamp
                                                                       Newline
                                                                                     ~ 9600 baud
                                                                                                  · Clear output
```

## **MCU** + AI Sensors = Unlimited Creative Possibilities

https://wiki.seeedstudio.com/grove\_vision\_ai\_v2\_demo/#step-2-xiao-connects-to-the-computer-and-uploads-the-programme-for-xiao-1





# Vision Challenge Add a smart eye to your XIAO

- · 20+ pre-trained models and no code deployment
- · Home assistant supported
- Multi-modal with 400+ Grove extensions
- Yolo v5 & v8 33 fps a gaming-like smooth experience
- Used as a sub-processor dedicated for AI tasks like skeleton

detection





FREE products & \$300+ prizes