## **PlatformIO**

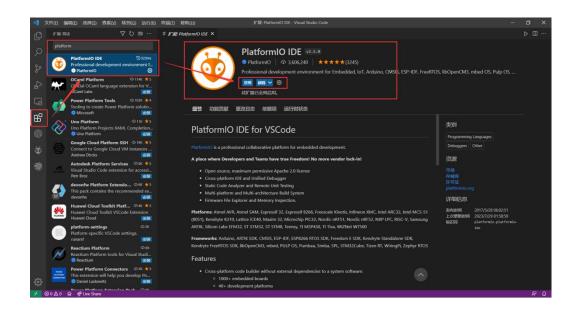
## WZ8048C070 or WZ8048C050

Take the WZ8048C070 as an example

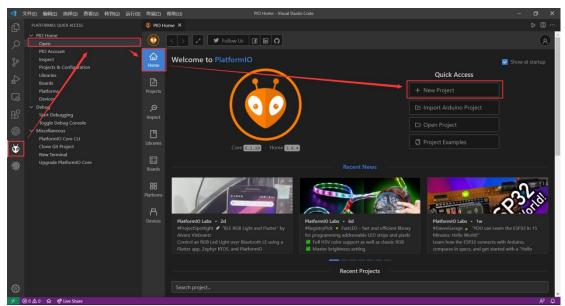
Before proceeding with this tutorial, install Git: git-scm. com First open the VScode to check if the python is installed

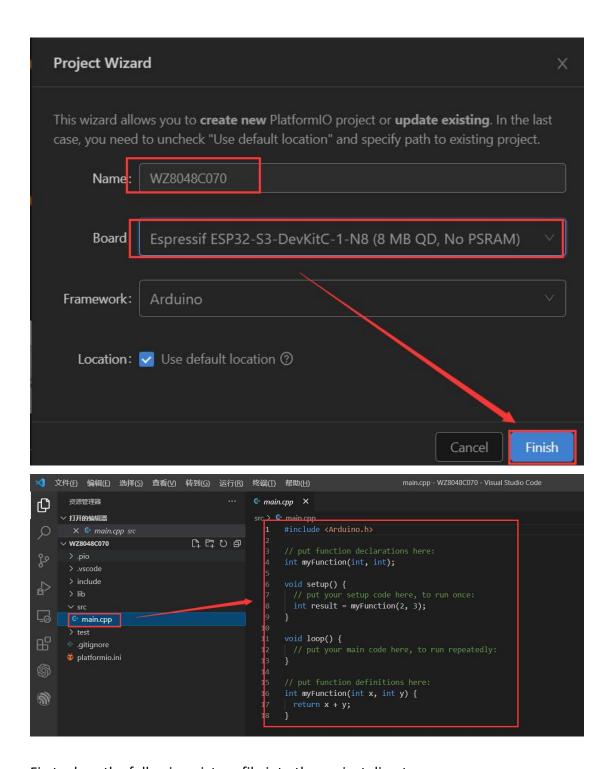


Open the VScode to download the PlatformIO



Create new projects ( Note: PlatformIO does not support Spaces and special characters in file paths )



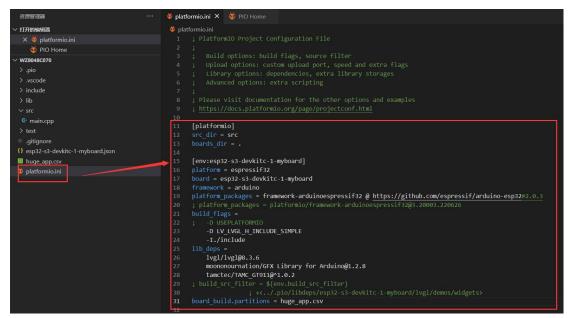


First, place the following picture file into the project directory

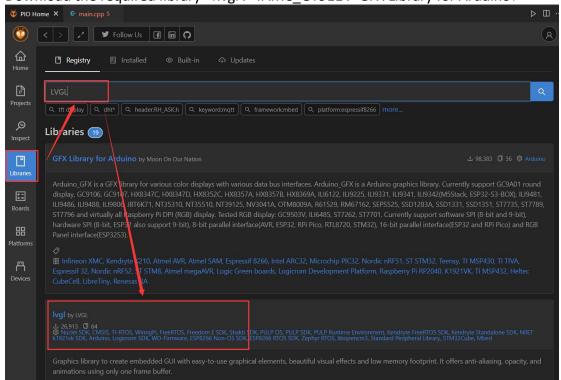


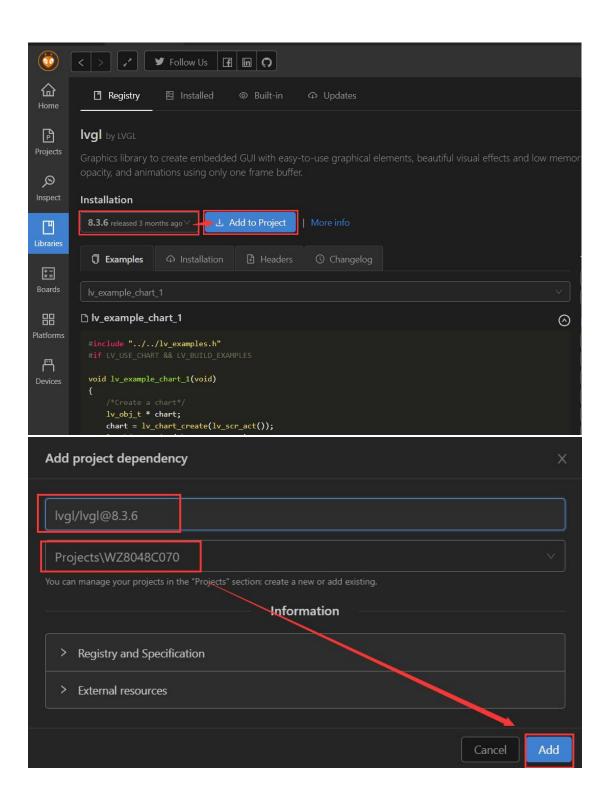
## Add the following code to the platformio.ini file

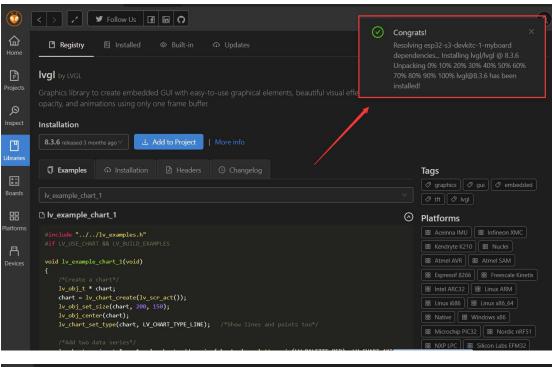
```
[platformio]
src_dir = src
boards_dir = .
[env:esp32-s3-devkitc-1-myboard]
platform = espressif32
board = esp32-s3-devkitc-1-myboard
framework = arduino
platform_packages = framework-arduinoespressif32 @
https://github.com/espressif/arduino-esp32#2.0.3
 platform_packages = platformio/framework-arduinoespressif32@3.20003.220626
   -D USEPLATFORMIO
   -D LV_LVGL_H_INCLUDE_SIMPLE
   -I./include
lib_deps =
   lvgl/lvgl@8.3.6
   moononournation/GFX Library for Arduino@1.2.8
   tamctec/TAMC_GT911@^1.0.2
board_build.partitions = huge_app.csv
```

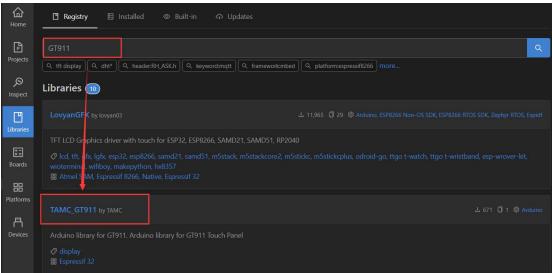


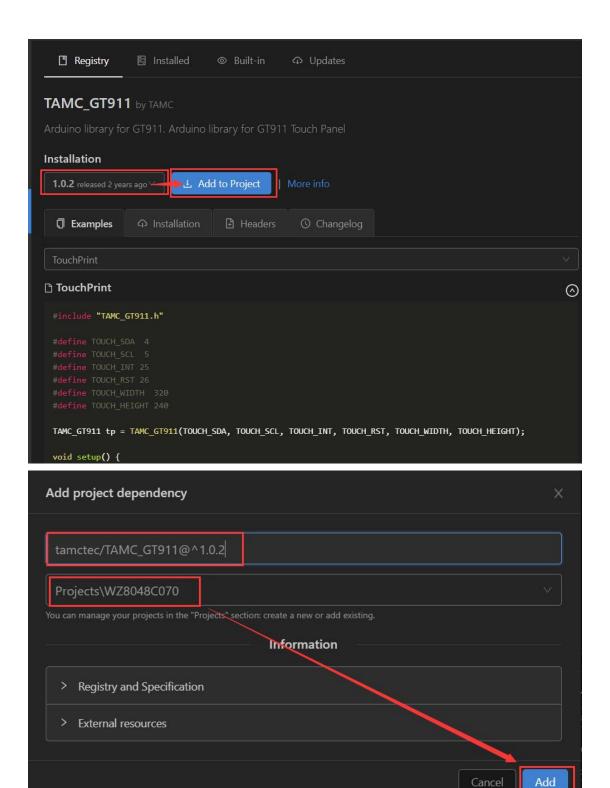
Download the required library (lvgl、TAMC\_GT911、GFX Library for Arduino)

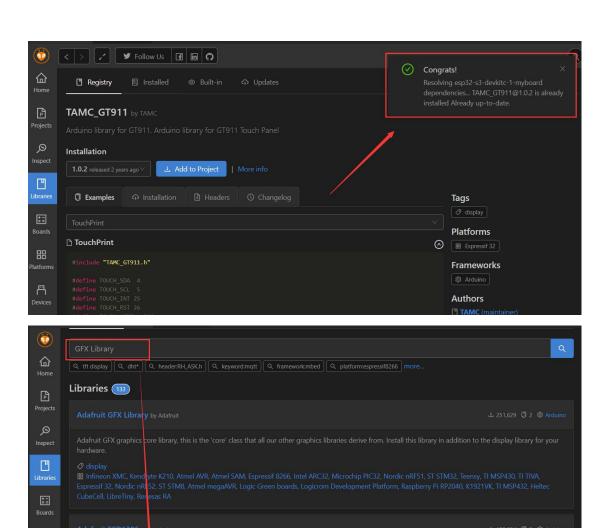








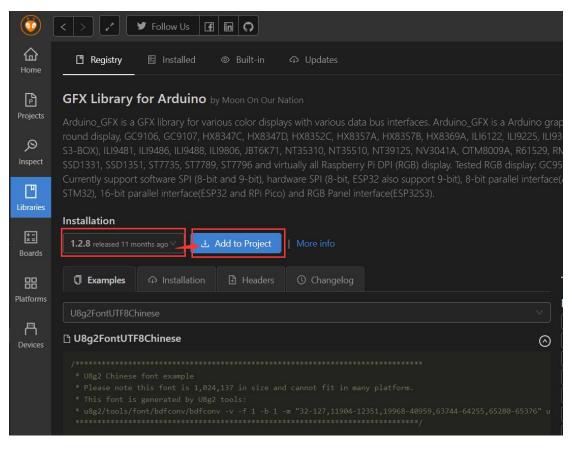


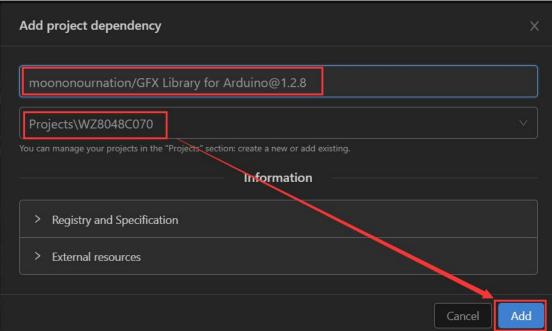


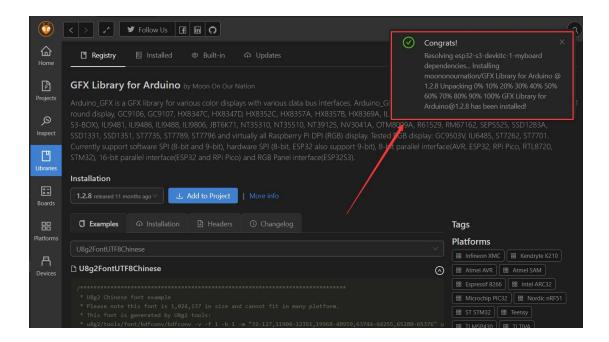
Infineon XMC, Kendry e K210, Atmel AVR, Atmel SAM, Espressif 8266, Intel ARC32, Microchip PIC32, Nordic nRF51, ST STM32, Teensy, TI MSP430, TI TIVA, Espressif 32, Nordic nRF51, ST STM8, Atmel megaAVR, Logic Green boards, Logicrom Development Platform, Raspberry Pi RP2040, K1921VK, TI MSP432, Heltec CubeCell, LibreTiny, Rene as RA

Arduino\_GFX is a GFX library for various color displays with various data bus interfaces. Arduino\_GFX is a Arduino graphics library. Currently support GC9A01 round display, GC9106, GC9107, HX8347C, HX8347D, HX8352C, HX8357A, HX8357B, HX8369A, ILI6122, ILI9225, ILI9331, ILI9341, ILI9342(M5Stack, ESP32-S3-BOX), ILI9481,

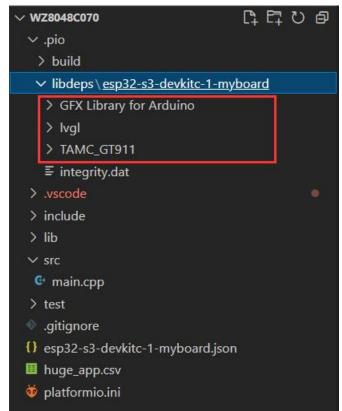
SSD1306 oled driver library for monochrome 128x64 and 128x32 displays



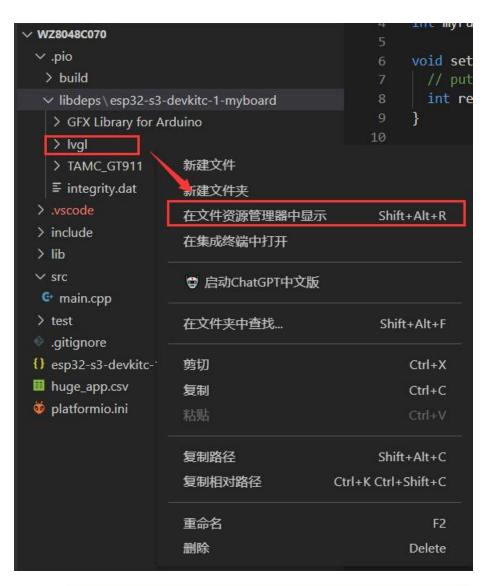


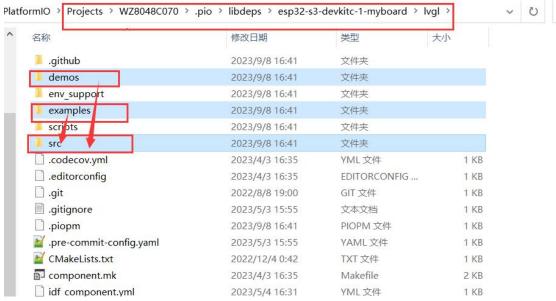


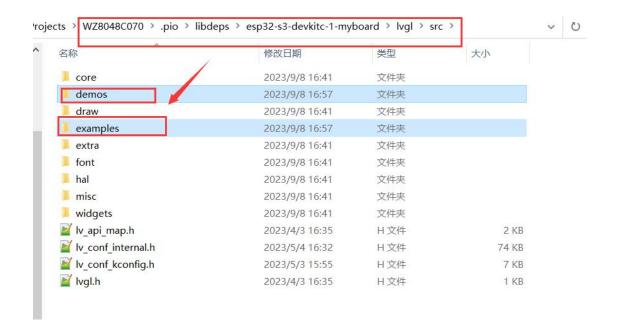
We can see that the library has been added successfully!



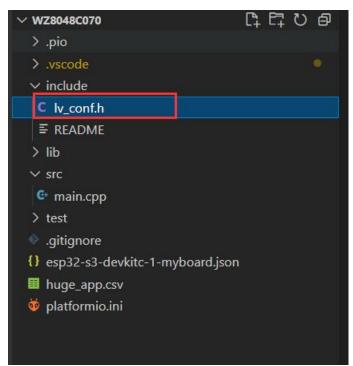
Next, we want to configure the lvgl library, right-click to open the folder directory, and put the demo and examples folders into the src folder!



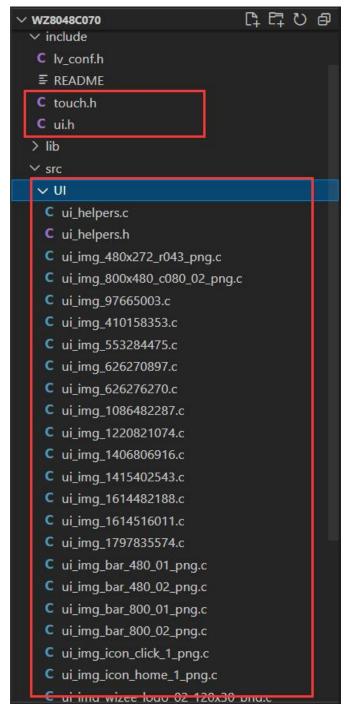




## Place the lv\_conf.h file under the /include directory



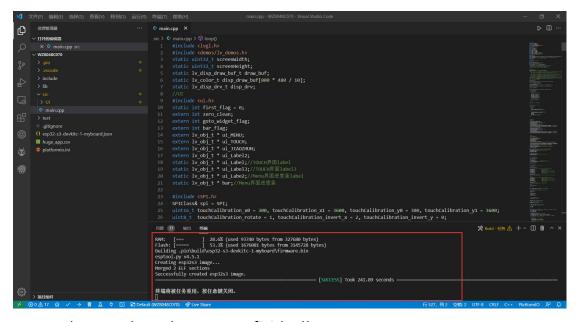
Next, let's configure our own UI files (the UI files are generated from the SquareLine Studio)



In the UI folder that will be generated. The c file is placed in the /src folder, and in the generated UI folder. Place the h file in the /include folder

At this time, we will complete all the configuration, write the code and start compiling the program

```
X @ main.cpp src
                                                                   #include <demos/lv_demos.h>
static uint32_t screenWidth;
static uint32_t screenHeight;
WZ8048C070
                                                                   static lv_disp_draw_buf_t draw_buf;
static lv_color_t disp_draw_buf[800 * 480 / 10];
 > lib
                                                                   static lv_disp_drv_t disp_drv;
                                                                   static int first_flag = 0;
                                                                   extern int goto_widget_flag;
                                                                   extern int bar_flag;
extern lv_obj_t * ui_MENU;
extern lv_obj_t * ui_TOUCH;
extern lv_obj_t * ui_JIAOZHUN;
blatformio.ini
                                                                   extern Iv_obj_t * ui_JAOZHUN;
extern lv_obj_t * ui_Label2;
static lv_obj_t * ui_Label;//TOUCH界面label
                                                                   static lv_obj_t * ui_Label3;//TOUCH界面label3
                                                                   static lv_obj_t * ui_Labe2;//Menu界面进度条label
                                                                   static lv_obj_t * bar;//Menu界面进度条
                                                                   SPIClass& spi = SPI;
                                                                   uint16_t touchCalibration_x0 = 300, touchCalibration_x1 = 3600, touchCalibratio
                                                                               touchCalibration_rotate = 1, touchCalibration_invert_x = 2, touchCalib
                                                                    #include <Ticker.h>
                                                                   int i = 0;
#include <Arduino_GFX_Library.h>
#define TFT_BL 2
                                                                         defined(DISPLAY_DEV_KIT)
                                                                   Arvino_GFX *lcd = create_default_Arduino_GFX();
#Lse /* !defined(DISPLAY_DEV_KIT) */
> 项目组件
```



Next we began to burn the program, finished!

