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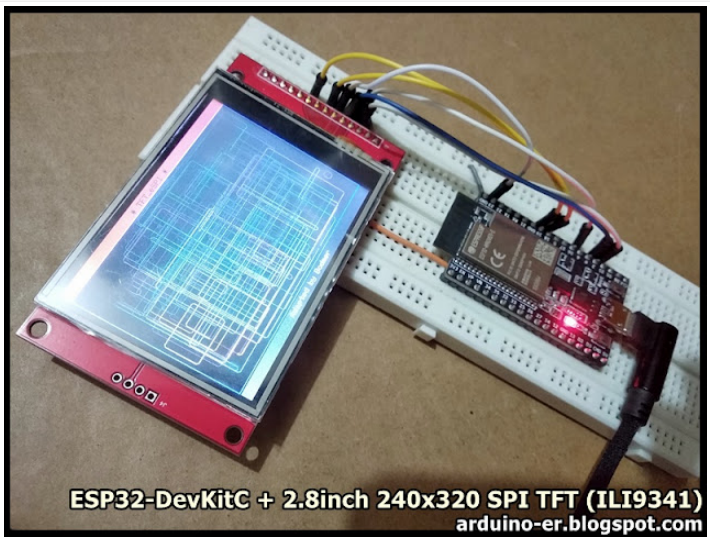
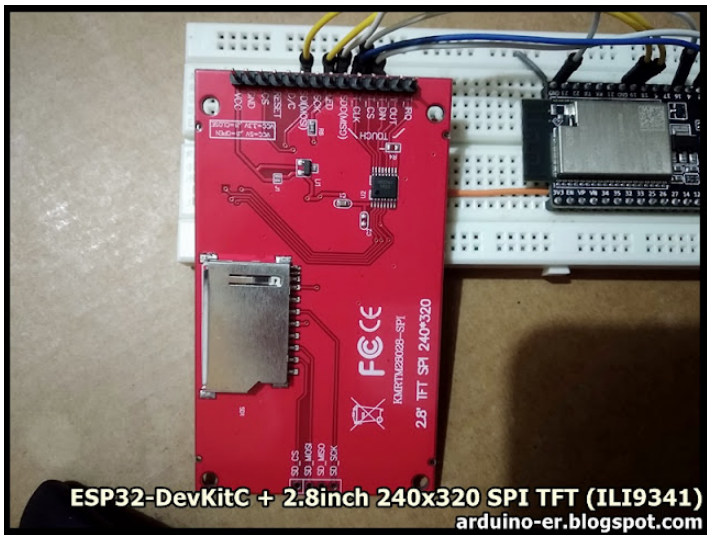
Saturday, June 27, 2020

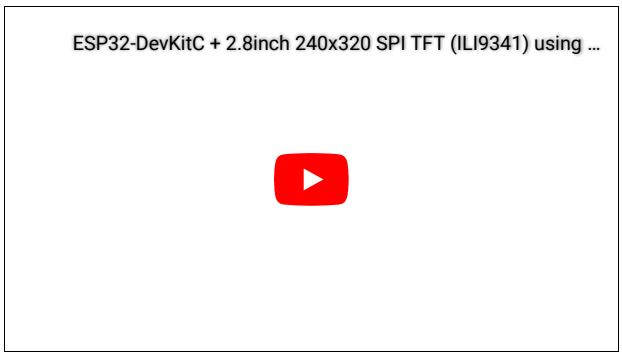
ESP32-DevKitC + 2.8inch 240x320 SPI TFT (ILI9341) using TFT_eSPI library

This post show how to use ESP32-DevKitC to drive a 2.8inch 240x320 SPI TFT (wih ILI9314 using serial interface), using TFT_eSPI library.

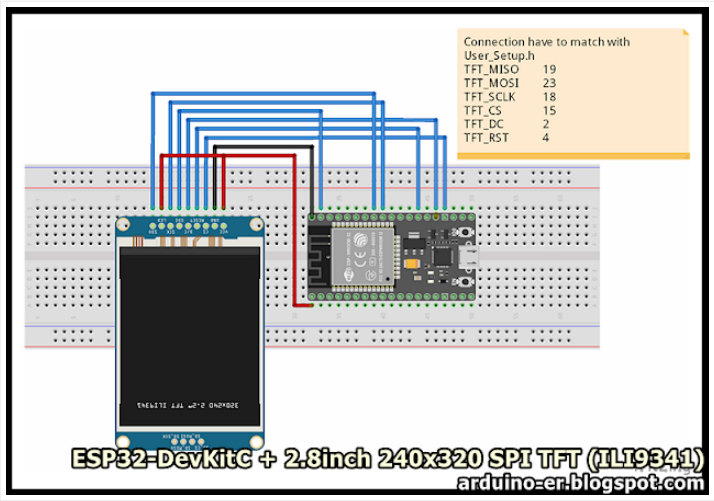




Program ESP32-CAM using FTDI adapter



Connection:



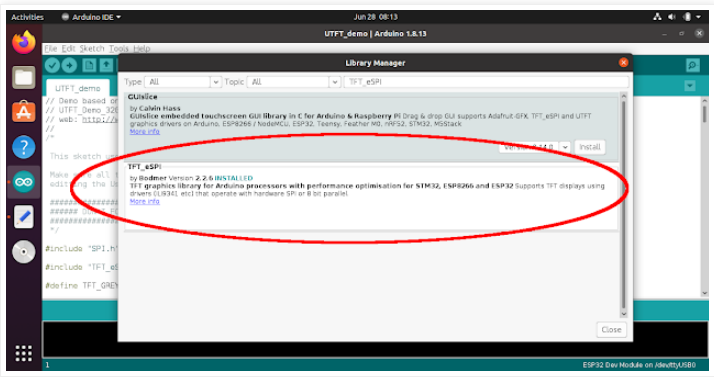
I connect ESP32-DevKitC and Display board follow the default setting of TFT_eSPI library.

```
TFT_MISO 19
TFT_MOSI 23
TFT_SCLK 18
TFT_CS   15
TFT_DC    2
TFT_RST   4
```

I found the Fritzing parts here:
ESP32S-HiLetgo Dev Boad with Pinout Template
https://forum.fritzing.org/t/esp32s-hiletgo-dev-boad-with-pinout-template/5357

2.2 320x240 TFT ILI9341.fzpz (it should be logically same as the 2.8" display I use)
https://forum.fritzing.org/t/2-2-ili9342-tft/1813

Setup Library in Arduino IDE:
Menu > Sketch > Include Library > Manager Libraries...
Search and install TFT_eSPI



Then have to edit User_Setup.h to fix your circuit.

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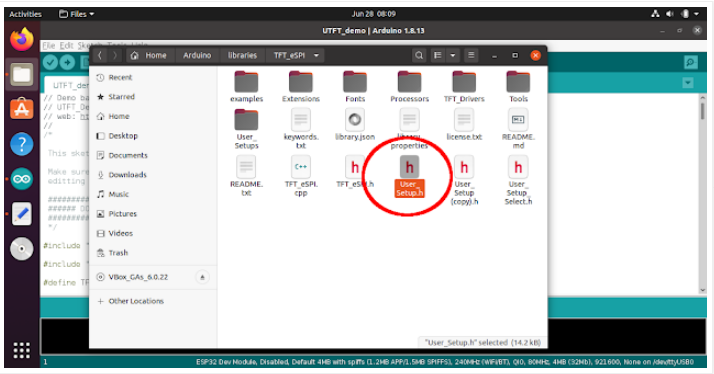
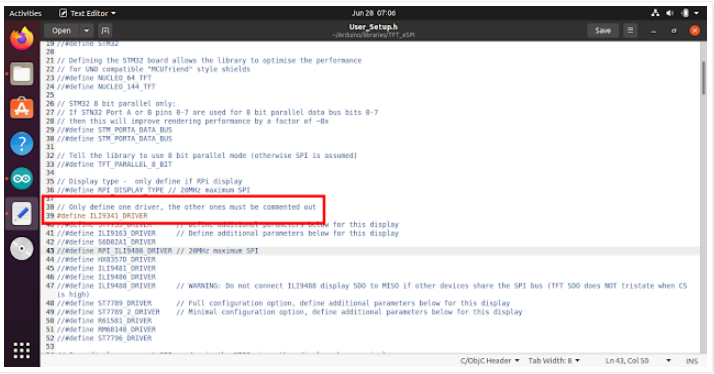
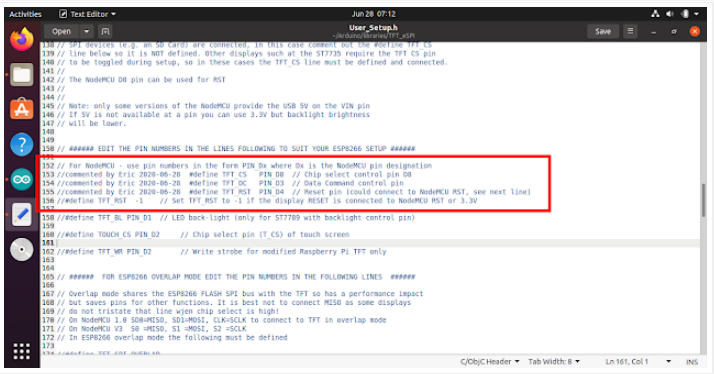


- Confirm ILI9341_DRIVER is defined

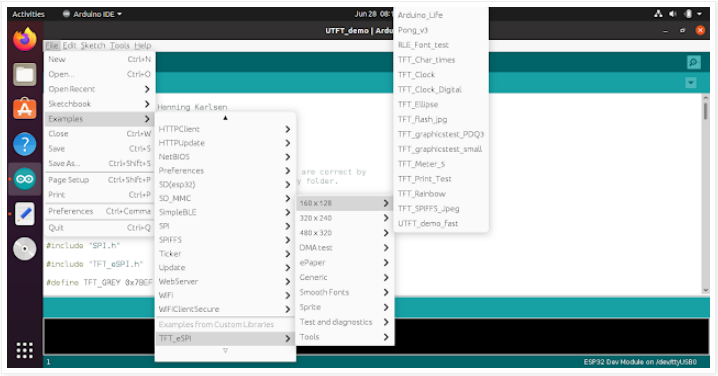


- comment the original define of:
TFT_CS, TFT_DC and TFT_RST.



- un-comment the pin define under "For ESP32 Dev board (only tested with ILI9341 display)"
TFT_MISO, TFT_MOSI 23, TFT_SCLK, TFT_CS, TFT_DC and TFT_RST.

Then, you can try any example under TFT_eSPI.



Using TFT_eSPI, if you load a new copy of TFT_eSPI then it will over-write your setups if they are kept within the TFT_eSPI folder. It's suggested to create a new folder in your Arduino library folder called "TFT_eSPI_Setups". You then place your custom setup.h files in there. After an upgrade simply edit the User_Setup_Select.h file to point to your custom setup file.

check it:
- ESP32 + 1.3 inch 240x240 IPS LCD (ST7789 SPI interface), using TFT_eSPI library
- ESP32 + 2.4" 320X240 Display (SPI ILI9341), using TFT_eSPI, prepare user setup file.

by : Erik

label : ESP32, ILI9341 SPI, TFT_eSPI

2 comments:

Ninja_Cake May 30, 2021 at 3:39 PM

finally a tutorial that works!

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Unknown December 2, 2021 at 8:36 AM

Nice work! :D

Reply

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