ESP32 trINKet Install Instructions for Windows 10

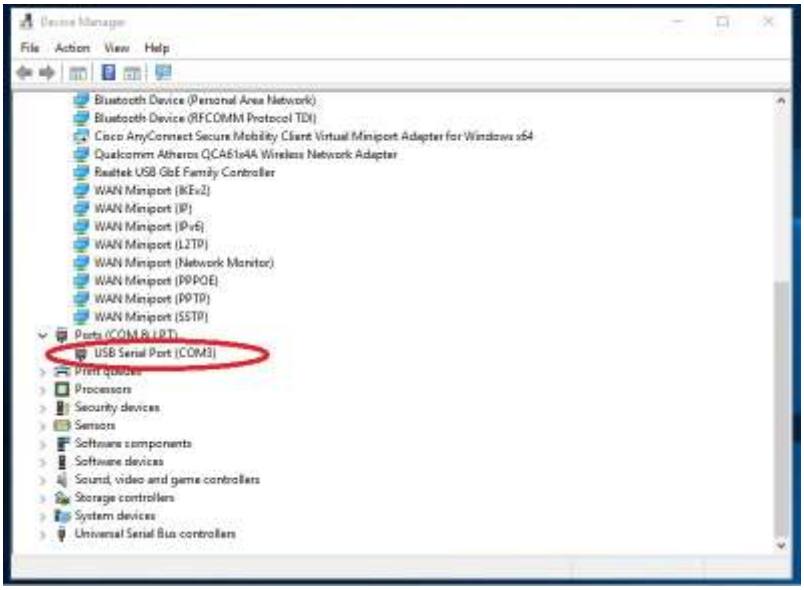
-install the latest Arduino IDE

-in File/Preferences enter:
http://arduino.esp8266.com/versions/2.3.0/package_esp8266com_index.json

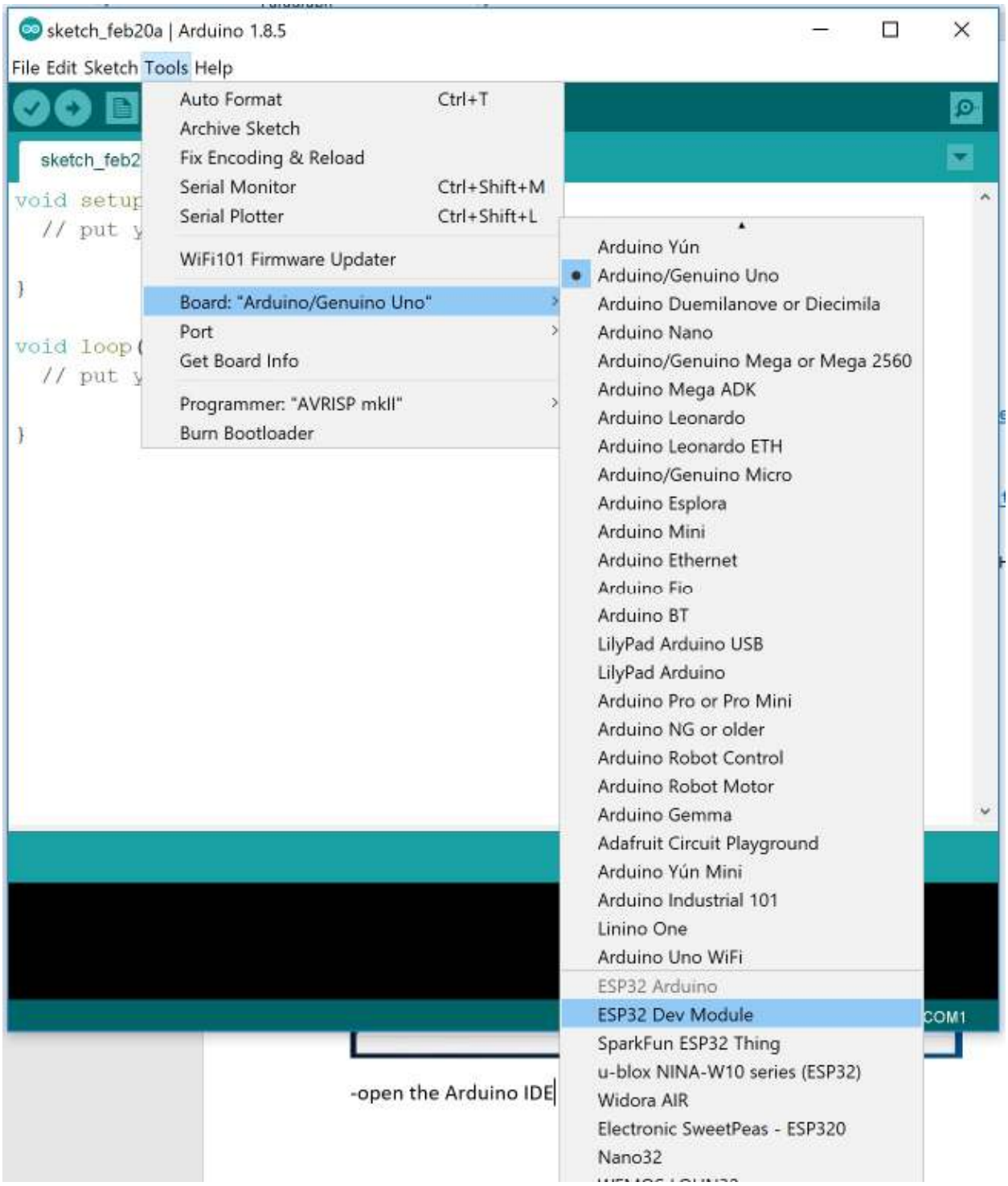
-close the Arduino IDE

-install the ESP32 Dev Module files under Install Instrctions: https://github.com/espressif/arduino-esp32/

-plug in the ESP32 Programmer board and verify at Control Panel/Hardware & Sound/Device Manager that a USB Serial Port device appears under Ports.



-open the Arduino IDE and select the new Board


sketch_feb20a | Arduino 1.8.5
File Edit Sketch Tools Help
Auto Format Ctrl+T
Archive Sketch
Fix Encoding & Reload
Serial Monitor Ctrl+Shift+M
Serial Plotter Ctrl+Shift+L
WiFi101 Firmware Updater
Board: "Arduino/Genuino Uno"
Port
Get Board Info
Programmer: "AVRISP mkII"
Burn Bootloader
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 Esplora
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
ESP32 Arduino
ESP32 Dev Module
SparkFun ESP32 Thing
u-blox NINA-W10 series (ESP32)
Widora AIR
Electronic SweetPeas - ESP320
Nano32
-open the Arduino IDE

Install the gxEPD library from: https://github.com/ZinggJM/GxEPD

Open my GxEPD_Sleep sketch from: https://github.com/mike-rankin/ESP_trINKet

-plug the ESP32 programmer onto a USB cable, select the new com port. Open the GxEPD_Sleep sketch and power up the trinket board, plug in the programmer and Verify the sketch compiles before clicking Upload.

-you may also have to install the Adafruit_GFX and ClosedCube_HDC1080 library by going to Sketch/Include Library and entering: ClosedCube_HDC1080

-had trouble on my new laptop when trying to Upload the sketch: serial.serialutil.SerialException: could not open port 'COM3': WindowsError(5, 'Access is denied.')

- to fix went to `Control Panel/Hardware & Sound/Device Manager/Ports and disabled the new COM Port. Unplugged and plugged in the programmer and then successfully Uploaded the sketch.`

Custom SplashScreen Instructions

-I've provided the Digi-Key example images

-open the Original_DK_Logo.jpg in microsoft paint. If click Resize and see the pixel size is 313 x 161 which is too large.

-click Resize, Pixels, de-select Maintain aspect ratio

-enter Horizontal=212 and Vertical=104

-open Resized_DK_Logo.jpg, Resize and you can see the pixel size is correct.

-File, Open, Resized_DK_Logo.jpg and Save As Black.bmp and as a Monochrome Bitmap

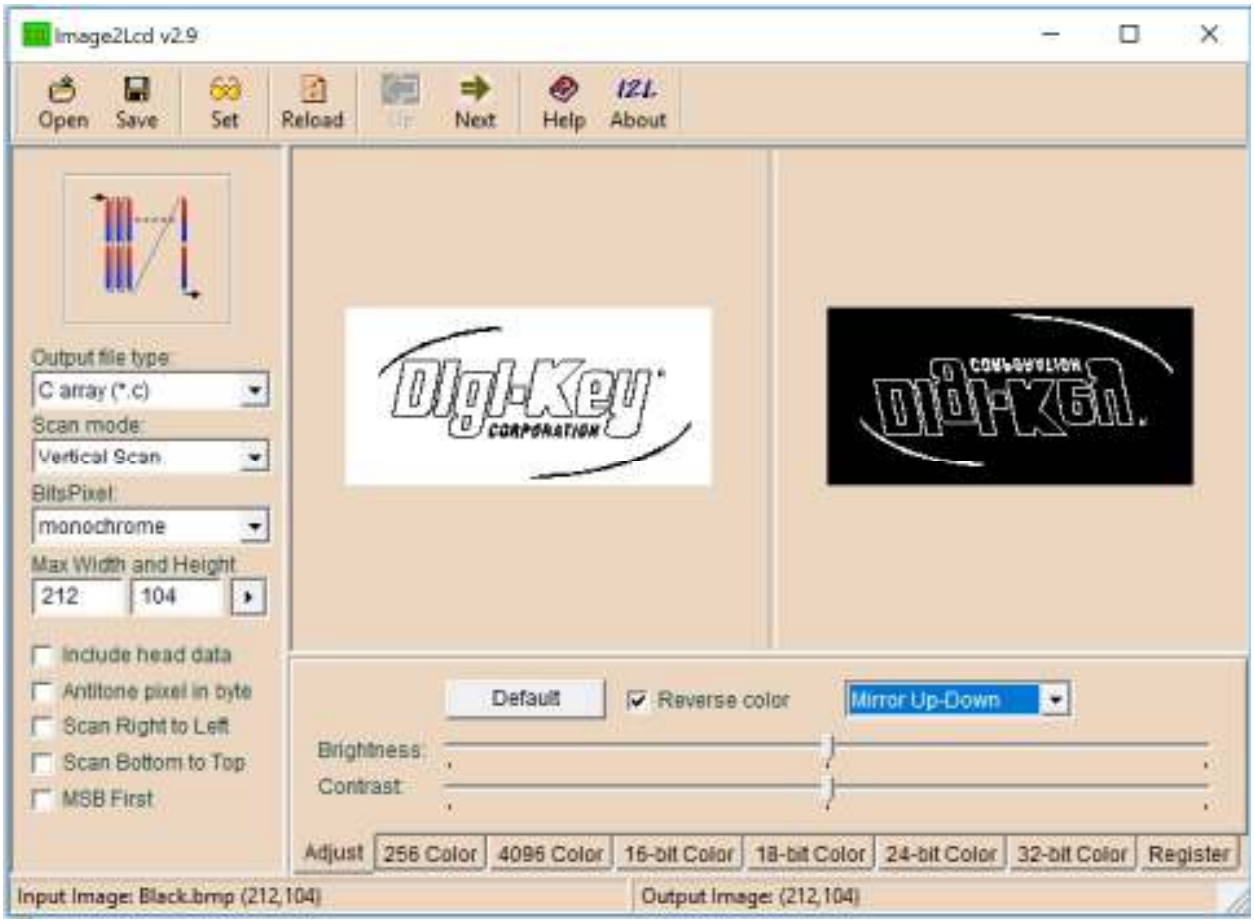
Use Paint to erase all the red pixels that you remember seeing and save again as Black.bmp

Sometimes when you zoom in and make a pixel white it stays black. Save the image to 256 Monochrome and it works properly

-File, Open Resized_DK_Logo.jpg and Save As Red.bmp and as a Monochrome Bitmap

Use Paint to erase all the black pixels that you remember seeing and save again as Red.bmp

Open Image2Lcd



Scan mode: Vertical Scan

BitsPixel: monochrome

Max Width and Height: 212 104

Open the Black image, click Reverse Color, Mirror Up-Down, Save as Black.h, copy the hex code to your Documents/Arduino/Libraries/GxEPD/GxGDEW0213Z16/BitmapWaveshare.h file

under const unsigned char BitmapWaveshare_black[] PROGMEM = {

Do the same with the Red

Now upload the sketch to the board.