Installation of ESPixelStick Firmware.

# Please insure you have set the jumper to the voltage you will be using for your input before powering

If this is the first time you have ever used a arduino/esp device, your system will require a install of the system driver to communicate between your computer and the ESPartstick.

#### CH340 driver

Extract the zip file and launch the CH341SER.EXE

Select INF	CH341SER.INF
INSTALL	WCH.CN  USB-SERIAL CH340
UNINSTALL	
HELP	1

Next, install the espixelstick firmware into your new art stick.

Download the following ESPixelStick firmware installer: Stable version Feb 4, 2020 <u>EspixelStick</u> <u>Firmware</u> Extract the ESPixelStick\_Firmware zip file into its

extract the ESPixelStick\_Firmware zip file into its own directory.

The compressed file needs to be decompressed. Winrar is a great tool for this. https://rarlab.com/download.htm

Plug the EspArtStick in from your computer using a standard USB to micro USB cable.



#### Launch ESPSFlashTool by double-clicking on

## **NOTE:** if ESPSFlashTool does not launch, you will need the Java runtime <u>Java RunTime</u>

PC > Downloads > ESPixelStick\_TRAVIS-20190418202840 >

Name	Date modified	Туре	Size
bin	7/11/2019 2:30 PM	File folder	
🔄 firmware	7/11/2019 2:30 PM	File folder	
🔄 lib	7/11/2019 2:30 PM	File folder	
spiffs	7/11/2019 2:30 PM	File folder	
e Changelog	7/11/2019 2:30 PM	HTML File	19 KB
ESPixelStick	7/11/2019 2:30 PM	HTML File	23 KB
🕌 ESPSFlashTool	7/11/2019 2:30 PM	Executable Jar File	52 KB
E README	7/11/2019 2:30 PM	HTML File	17 KB
README.md	7/11/2019 2:30 PM	MD File	2 KB

Enter the SSID and Passphrase for your WiFi access point.

	ck Flash Tool	7		×
SSID				-
Passphrase				
Hostname				
Device ID	ESPixelStick			
Firmware	Pixel (WS2811 / GECE) vDEV (Travis-CI Build)			
Serial Port	COM3 - USB-SERIAL CH340 (COM3)			1
	<u>↑</u> Upload	Ge	uild E	FU
Status				
Serial Output				

Device ID is just a plain text identifier to help you tell your PixelSticks apart. It can also be changed via the web

interface once programmed. Typically, locations or element names make good ID's (i.e. – Lower Windows, Mini

Tree 1, Matrix, etc.)

Select Device Mode to choose if you want this to be a Pixel or Serial device. Most use Pixels. S

Sele	ct y	'our	Serial Port.
------	------	------	--------------

Im ESPICEISC	ick Flash Tool	2200		×
SSID Passphrase				
Device ID	ESPixelStick			
Firmware	Pixel (WS2811 / GECE) vDEV (Travis-Cl Build)			۲
Serial Port	COM3 - USB-SERIAL CH340 (COM3)			۲
	<u>↑</u> Upload	Ge	Build E	FU
Status				
Sarial Output				
Serial Output				

Click Upload to program your ESPixelStick. Once the upload is complete, the ESPixelStick will relay is configuration status to the Serial Output window.

	ck Flash Tool	-		×
SSID				_
Passphrase				
Hostname				
Device ID	ESPixelStick			
Firmware	Pixel (WS2811 / GECE) vDEV (Travis-CI Build)			
Serial Port	COM3 - USB-SERIAL CH340 (COM3)			1
[	1 Upload	G B	uild E	FU
Status				
•				7.0
Serial Output				
Serial Output ISDDIDSDID ESPixelStick SDK:2.2.1(d File system i Total bytes ir /config.json6 /www/esps.j; /www.lindex.h /www.lesps.c No mqtt setti No effect set - Configurati- - Listening for	★C★C★d⊡c(□□□□□□;□#□★#□□gn□\$go□□□□ v3.1-dev (Apr 18 2019) d48f3)/Core:2.5.0-91-g2c36cfe0=20500091/twIP:ST/ initialised 1/1e system: 58985 (29 s.g242348 ttml.gz4145 css.g210163 ings found tings found. on loaded. or 510 channels, from Universe 1 to 1	copool;dr	dpo'ooc	0 <b>♦</b> 0
Serial Output ISDDIDSDID ESPixelStick SDK:2.2.1(cf File system i Total bytes ir Iconfig.json6 Awwwiesps.c No mgt setti No effect set - Configurati- - Listening for Connecting 1 Connecting 1		copool;dr	dp0'000	0♠0 ASE

#### You can now connect to the ESPArtStick with your web browser for further configuration.

Go to the Wireless tab and turn off DHCP to set your own IP address.

ESPixelStick	Home	Wireless Setup	Device Setup	Effects	Diagnostics
Network Con	ifigurati	on			
	SSID				
Pas	ssword				
Hos	stname	esps-4c5611			
Client T	ïmeout	15			
		Use DHCP			
	IP	192.168.1.25			
N	etmask	255.255.255.0			
G	ateway	192.168.1.1			
		AP Fallback			
		Save Changes			

Set the number of pixels used on your EspArtStick

Change the channel to 510. 512 will result in color shifts

Brightness Levels are 1 = 100% and 0.5 is 50%

WS2811 (Bullet Nodes) are RGB and WS2812 (neopixel or strips) GRB

### Used for when you create a matrix and the number of zip zgas used

Device ID	ESPixelStick			
Universe	1			
Start Channel	1			
Universe Boundary	510			
	Enable Multicast			
el Configuration				
Pixel Count	170	Group Size	1	
	THROPHY ADDITION	Color Order	RGB	
Pixel Type	VVS2811 800KHZ			
Pixel Type Zigzag Count	0			
Pixel Type Zigzag Count Gamma Value	0 2.2	Brightness	3	1
Pixel Type Zigzag Count Gamma Value	0 2.2 Show Gamma Curve	Brightness	1	
Pixel Type Zigzag Count Gamma Value Refresh Rate	0 2.2   Show Gamma Curve 6ms / 185Hz	Brightness	1	
Pixel Type Zigzag Count Gamma Value Refresh Rate QTT Configuration	0 2.2 Show Gamma Curve 6ms / 185Hz	Brightness	1	