



# SK61/GK61 Extended Manual



## Comments by Epomaker

If you think any part of this manual needs correction, adjustment or updating, sent the team a message at [support@epomaker.com](mailto:support@epomaker.com). You can also send a message there if you have any issues with your keyboard.

## Warranty Information

Epomaker's Warranty covers any factory defects that might affect the proper functionality of your purchase. It doesn't cover any damage that may occur from normal wear and tear. If your product is defective we will send you a replacement unit. Replacement units might require you to send the defective unit back to Epomaker.

We provide a 1 year warranty for our products when bought from our website (Epomaker.com). Your item will not be covered by your 1 year warranty if the inspection shows any sign of modification or changes unsupported by the original product, these include: Changing internal components, Assembling and reassembling the product, Replacing Batteries, etc.

We will ONLY cover the item if it is bought from our stores, you do not have a warranty with us if you bought the item from another reseller or likewise. You are required to contact them to resolve issues.

## Where To Buy

### Website

<http://epomaker.com/>

### Amazon US

<https://www.amazon.com/s?me=A31XCF3C216O31&marketplaceID=ATVPDKIKX0DER>

### Amazon UK

<https://www.amazon.co.uk/s?k=EPOMAKER>

### Amazon DE

<https://www.amazon.de/s?k=EPOMAKER>

### Aliexpress

<https://www.aliexpress.com/store/5877346>

# Table of Contents

Comments by Epomaker	2
Warranty Information	2
Where To Buy	2
<b>Unboxing</b>	<b>5</b>
What's included in the Box	5
Epomaker Manual (SK61/GK61):	6
Keyboard Information	8
Keyboard Keycap Dimensions	9
Changing Modes/Layers	9
<b>Setting Up Keyboard/Bluetooth</b>	<b>10</b>
Windows 10 Bluetooth	10
iOS Bluetooth Setup	12
MacOS Bluetooth	14
Linux Bluetooth Pairing	16
<b>Downloading Software for your Epomaker SK61/GK61</b>	<b>17</b>
Windows Download	17
MacOS and Linux Download (GUI):	19
<b>Lighting Section</b>	<b>24</b>
Creating an Lighting (.LE) Files	24
Edit Driver Layer Colours	27
Add Onboard Lighting Effects	29
Uploading Lighting "LE" Files	30
Downloading Lighting "LE" Files	31
Creating Frame Based Lighting Effects	32
<b>Layout Section</b>	<b>40</b>
Changing Keyboard Language Settings	40
Windows	40
MacOS	42
Remapping A Single Key	45
Remapping A Key Combination	47
Creating a New Macro Category	49
Creating a Macro	50
Recording a Macro	52
Editing a Macro	53
Assigning A Macro To A Key	54
<b>Frequently Asked Questions</b>	<b>56</b>

I see “Not Support Device”	56
Combination of the FN key + Another key	57
My Mac Delete key is not working	57
My GK6X Plus Driver is in Chinese	59
I can't seem to press anything on my MacOS screen	59
My Keyboard is not showing up in my Bluetooth	59
How do I check my battery and what does the indicator mean?	60
My Left-Alt is stuck at an orange-yellow colour	60



# Unboxing



## What's included in the Box

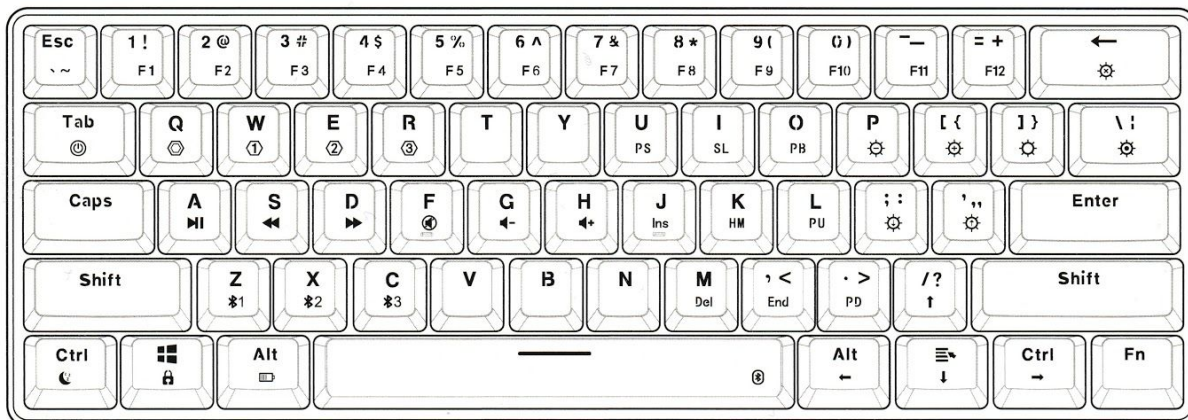
Note: This might change depending on availability

1. Epomaker SK61/GK61
2. Epomaker Keycap Set
3. Epomaker SK61/GK61 Manual
4. USB A to USB C Braided Cable (1.5m / 4.9ft)
5. Keycap and Switch Puller
6. 3 MacOS keys

Epomaker Manual (SK61/GK61):

# GK61 Series RGB USB/Bluetooth 2 mode

Item:GK61/GK61S/GK61X/GK61XS/SK61/SK61S



\* NOTE: Press Fn with the function keys

\* One of the blue LED is flashing, The keyboard is connecting the BT equipment.

Bluetooth ON/OFF switch, Link to USB mode.

## FN function description (Double-click FN to light FN's white LED, FN function is held, click FN again to escape from holding status).

### Backlight settings(Can not modify)

Key	Function
FN +	Backlight ON/OFF
FN + P	Backlight brightness -
FN +	Backlight brightness +
FN +	Backlight mode 1-5 (Can modify)
FN + \	Backlight mode 6-9
FN + :	Backlight Effect Speed -
FN + *	Backlight Effect Speed +

### BT&System settings(BT model only, can not modify)

Key	Function
FN + Space	Bluetooth ON/OFF switch Link to USB mode or the last BT equipment.
FN + Z	Long press: The red&green LED of Z keycap will flash. The #1 bluetooth equipment can be paired. Press: The keyboard will connect the #1 BT equipment or disconnect.
FN + X	Long press: The red&green LED of X keycap will flash. The #2 bluetooth equipment can be paired. Press: The keyboard will connect the #2 BT equipment or disconnect.
FN + C	Long press: The red&green LED of C keycap will flash. The #3 bluetooth equipment can be paired. Press: The keyboard will connect the #3 BT equipment or disconnect.
Note: If the bluetooth pairing is timed out or failed, please re-pair. If the bluetooth pairing is successful on the equipment, but the keyboard can not work still, please delete the keyboard in the bluetooth list of the equipment and pair again.	
FN + Tab	Long press for 3 seconds to lock/unlock the keyboard
FN + Win	Clock/Unlock Win key
FN + L - Alt	ON/OFF Low voltage&charging status indicator Logo LED&back side LED
FN + L - Ctrl	Keyboard's sleep time setting, white LED on: never sleep, 1:5minutes, 2:10minutes,.....9:45minutes to sleep.

### FN + function(Standard mode settings)

Key	Function	Key	Function
FN + 1	F1	FN + 7	F7
FN + 2	F2	FN + 8	F8
FN + 3	F3	FN + 9	F9
FN + 4	F4	FN + 0	F10
FN + 5	F5	FN + -	F11
FN + 6	F6	FN + +	F12
FN + U	PS	FN + J	Ins
FN + I	SL	FN + K	HM
FN + O	PB	FN + L	PU
FN + <	End	FN + M	Del
FN + >	PD	FN + Esc	~
FN + Shift + Esc	~		

### Arrow key(Standard mode settings)

Key	Function	Key	Function
FN + Menu		FN + ?	
FN + R - Alt		FN + R - Ctrl	

### Media key(Standard mode settings)

Key	Function	Key	Function
FN + A		FN + F	
FN + S		FN + G	
FN + D		FN + H	

### Define mode

Key	Function
Standard mode	Standard mode, all buttons can not be user-defined. User can customize your own personality keyboard by the following 4 modes. On-board mode 1/2/3 is strongly recommended. (Note: In the custom mode, except FN key, other keys can be redefined key values, some of the FN + "x" function can be also modified, except the backlight, bluetooth and system control. The FN button can not be moved, but user can define your own FN1/FN2/FN3 at any key on the keyboard in the custom mode).
FN + Q Driver mode	FN + Q is the driver mode layer. "Q" lights white LED, some special function ( For example: You may assign a macro of more than 32 bytes to a key in the driver mode while it's unavailable in those onboard mode layer ) and backlights can be set in this mode. You must keep the driver running and the keyboard connect with the driver. Press FN + Q again, back to standard mode.
FN + W Onboard mode1 Layer1/Fn1	FN + W, onboard mode layer 1. "W" lights white LED, no need to run and connect the driver. This keyboard works in the custom key functions and user can modify the key functions and macro Settings by the driver and these Settings can be downloaded and saved to the keyboard. The reference Setting: the multifunctional reuse Settings of the space bar click for the regular space function, Space + other key combination to achieve the onboard mode layer's call function. Press FN + W again, back to the standard mode.
FN + E Onboard mode2 Layer2/Fn2	FN + E, onboard mode layer 2. "E" lights white LED. The reference Setting: keyboard of MAC OS, the "control,option,command" key will be in the original position, user can modify the Settings by the driver, download and save to the keyboard, no need to run and connect the driver when use the Mac's function settings. Press FN + E again, back to the standard mode.
FN + R Onboard mode3 Layer3/Fn3	FN + R, onboard mode layer 3. "R" lights white LED. The reference Setting: Some special function keys, or combination keys, or macro keys, these settings of this mode can be called by the key FN3 in layer1&layer2. All Settings in this mode can be modified and saved to the keyboard. Press FN+R again, back to the standard mode.

More function and LED backlight settings, please download or update the driver from the following website: <http://www.jkedingzhi.com/downloadlist?driverID=41>



From The community, For The community!  
CE FCC RoHS

**Media Keys****FN + A:** Play/Pause**FN + S:** Previous**FN + D:** Next**FN + F:** Mute**FN + G:** Volume -**FN + H:** Volume +**Bluetooth Settings****FN + Space:** Bluetooth On/Off**FN + Z:** Long Press: First Bluetooth Equipment Pair

Short Press: Connect/Disconnect to First Bluetooth Equipment

**FN + X:** Long Press: Second Bluetooth Equipment Pair

Short Press: Connect/Disconnect to Second Bluetooth Equipment

**FN + C:** Long Press: Third Bluetooth Equipment Pair

Short Press: Connect/Disconnect to First Bluetooth Equipment

**Other Keyboard Settings****FN + Tab:** 3 Seconds Press to Lock/Unlock Keyboard**FN + Win:** Lock/Unlock Windows Key**FN + Left Ctrl:** Keyboard Sleeping Options - 0.. Never Sleep.. 1.5min.. 9:45mins..**FN + Function (Standard Layer)****FN + 1:** F1**FN + 2:** F2**FN + 3:** F3**FN + 4:** F4**FN + 5:** F5**FN + 6:** F6**FN + 7:** F7**FN + 8:** F8**FN + 9:** F9**FN + 0:** F10**FN + -:** F11**FN++:** F12**Numpad Keys****FN + U:** PS**FN + I:** SL**FN + O:** PB**FN + <:** End**FN + >:** PD**FN + J:** Ins**FN + K:** HM

**FN + L:** PU

**FN + M:** Del

### **Backlight Settings**

**FN + Backspace:** Backlight On/Off

**FN + ]:** Backlight Mode 1-5 (Modify)

**FN + {:** Backlight Mode 6-9

**FN + \:** Pause/Play Light Effect

**FN + Down Arrow:** Backlight Brightness -

**FN + Up Arrow:** Backlight Brightness +

**FN + Left Arrow:** Backlight Effect Speed -

**FN + Right Arrow:** Backlight Effect Speed +

### **Keyboard Modes**

**Standard Mode:** Standard Mode

**FN + Q (Driver Mode):** Q White Light LED

**FN + W (Layer 1):** W Light White LED

**FN + E (Layer 2):** E Light White LED

**FN + R (Layer 3):** R Light White LED

## **Keyboard Information**

**Keyboard Model:** Epomaker SK61/GK61 Optical Keyboard

**Keyboard Size:** 295 x 105 x 45mm

**Keyboard Weight:** 0.768kg

**Battery Capacity:** 1900mAh Lithium Polymer Battery

**Keycap Material:** PBT Thermal Sublimation

**Case Material:** ABS Plastic

**Layout:** 61 Keys

**Technology:** Gateron Optical (SK) or Gateron Mechanical (GK)

## Keyboard Keycap Dimensions



The “units” of a keycap refer to a comparison between a one “unit” standard key. This is such that a 2u key will be two units of a 1u key.

## Changing Modes/Layers

The following modes are available on your GK61/SK61

### Standard Layer

In this layer, you have preset configurations for the buttons to be pressed which you can see in the manual above. You can put onboard lighting on here by using the software and accessing it using **FN + ]**

**The default on this layer is the following:** Macice Blue, RGB, Spectral Cycle, Windmill and Rainbow Waves

**Driver Layer (FN + Q): Q light will light up when this mode is selected.** Driver mode layer only works when the keyboard is connected wired, and allows you to modify the backlight colours in real-time. You can assign larger macros while connected through a cable vs storing it on-board.

**Layer 1: Onboard memory layer, The “W” key will light up when this mode is selected.**

This layer will work without having to be connected wired, but you’re limited to what lighting you saved onboard (similar to the “standard layer”).

**Layer 2: Onboard memory layer, The “E” key will light up when this mode is selected.**

MacOS layer. This layer is the same as Layer 1 and 3, but by default has the keys rebounded to match a MacOS keyboard and the Backspace key will be binded to delete. This can be changed in the driver.

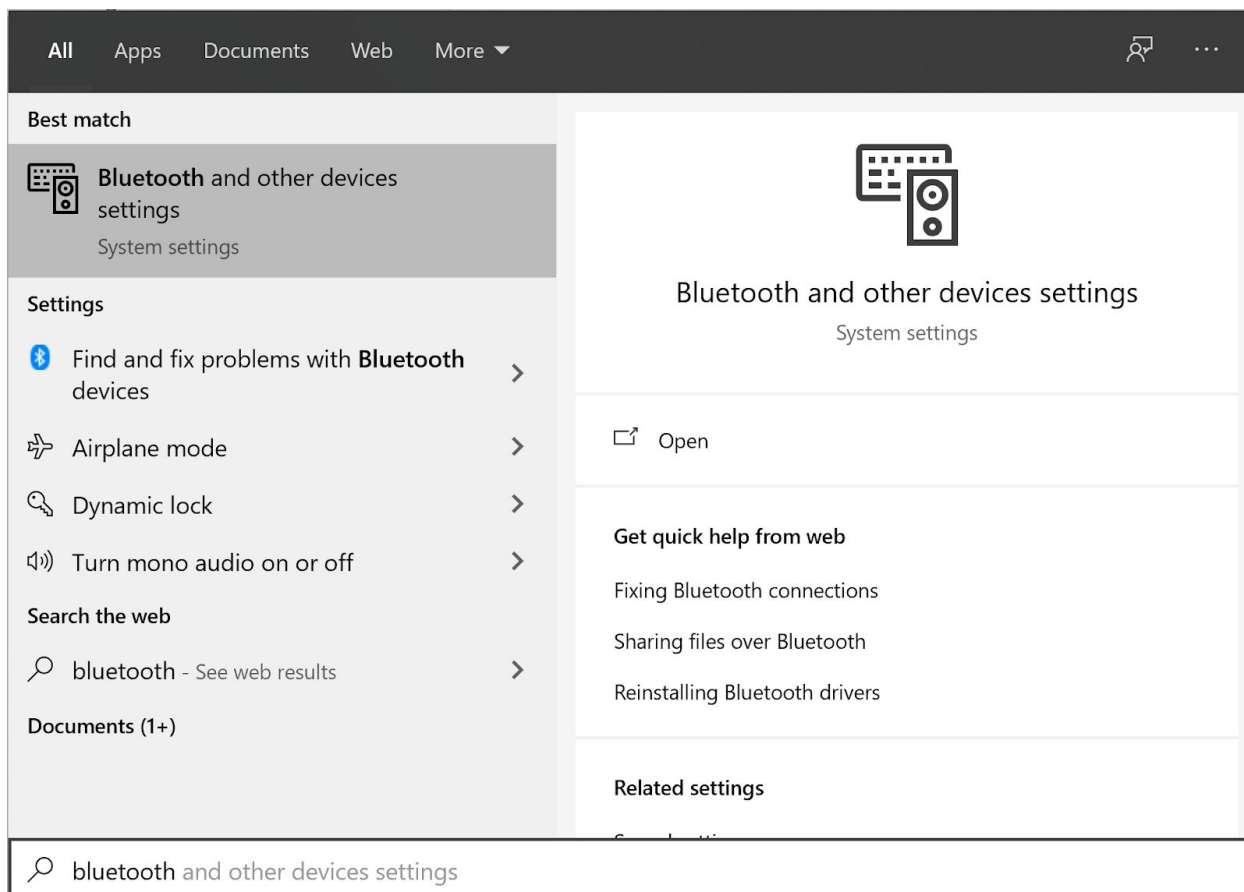
**Layer 3: Onboard memory layer, The “R” key will light up when this mode is selected.**

This layer will work without having to be connected wired, but you’re limited to what lighting you saved onboard (similar to the “standard layer”).

## Setting Up Keyboard/Bluetooth

### Windows 10 Bluetooth

1. First, charge the keyboard via a USB port on your computer until it has decent charge.
2. Power on the keyboard using **FN + Space**. This will put your Epomaker SK61/GK61 in Bluetooth mode.
3. Long Press Either **FN + Z**, **FN + X**, or **FN + C** for about three seconds. The key will start to flash red and green. This means that the keyboard is in pairing mode.



4. Press the windows key, and type “Bluetooth” into the search.
5. Select “Bluetooth and other device settings”

# Bluetooth & other devices



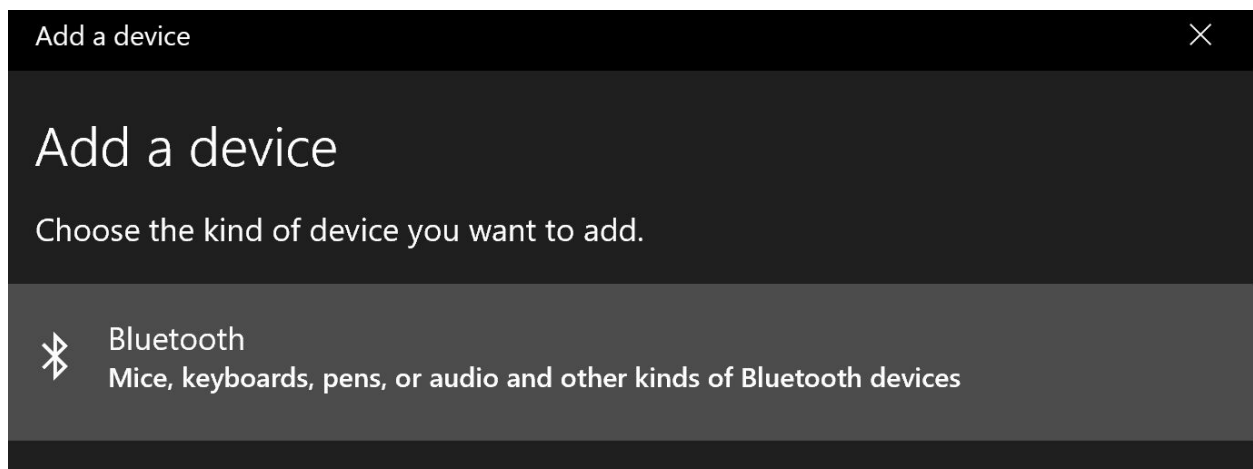
Add Bluetooth or other device

Bluetooth

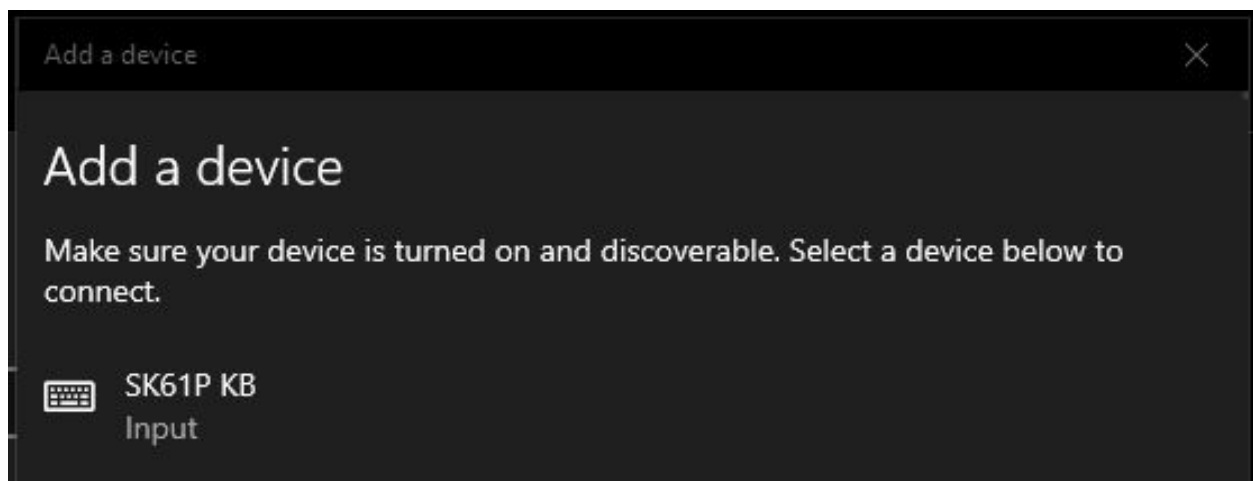


On

6. Select "Add Bluetooth or other device"

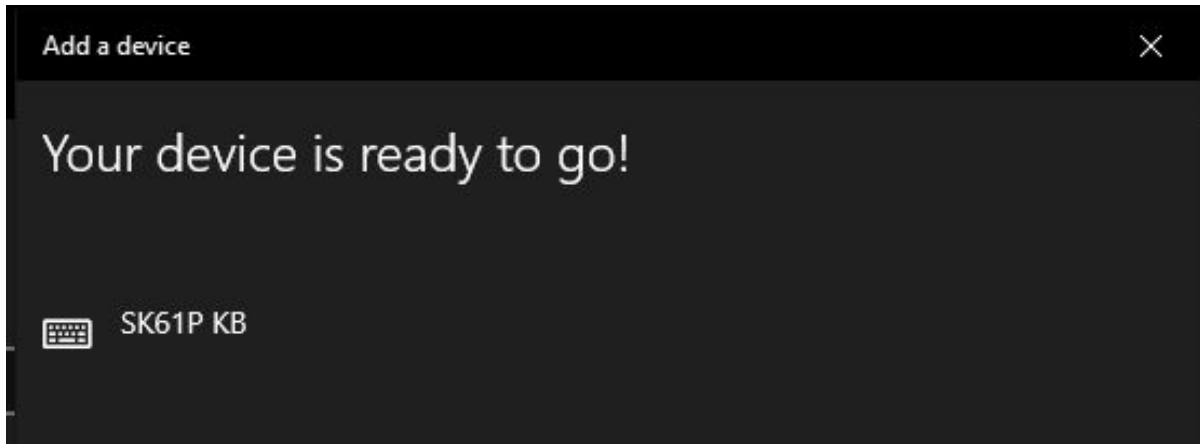


7. Select "Bluetooth" from the add devices section.



8. Select the "SK61/GK61 KB" From the selection

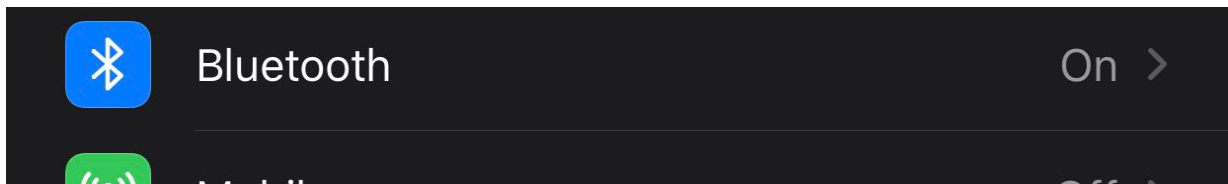




Your device will then be paired on that specific button. To disconnect/reconnect the keyboard, press the same button until the button turns white.

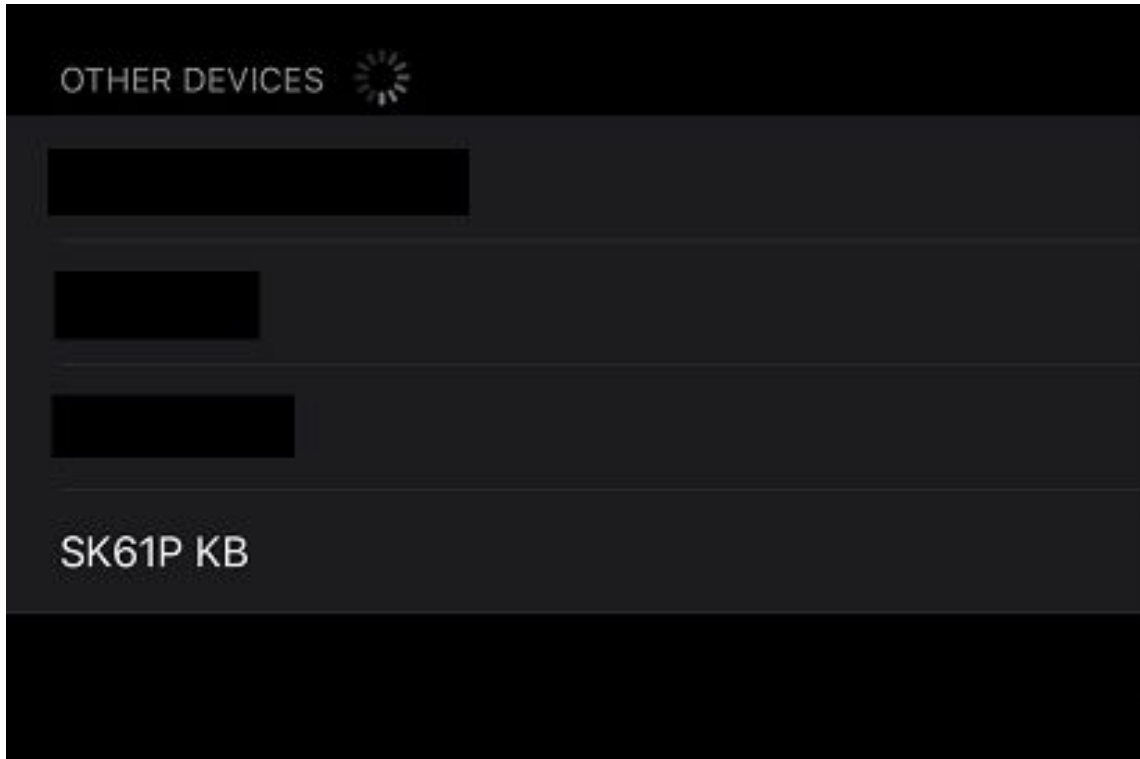
## iOS Bluetooth Setup

1. First, charge the keyboard via a USB port on your computer until it has decent charge.
2. Power on the keyboard using **FN + Space**. This will put your Epomaker in bluetooth mode.
3. Long Press Either **FN + Z**, **FN + X**, or **FN + C** for about three seconds. The key will start to flash red and green. This means that the keyboard is in pairing mode.
4. Press the “Settings” Application from the home section on your iDevice.

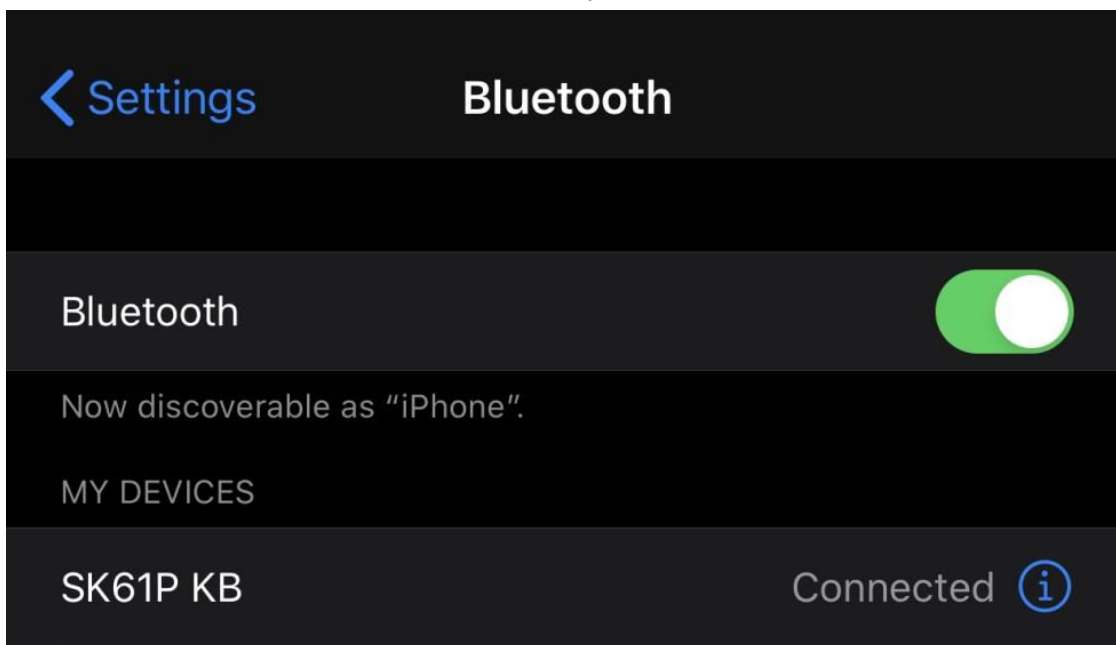


5. Select “Bluetooth” from the Settings. Make sure it is on.





6. Make sure that your device is considered discoverable.
7. Press "SK61/GK61 KB" to connect to your Epomaker SK61/GK61.



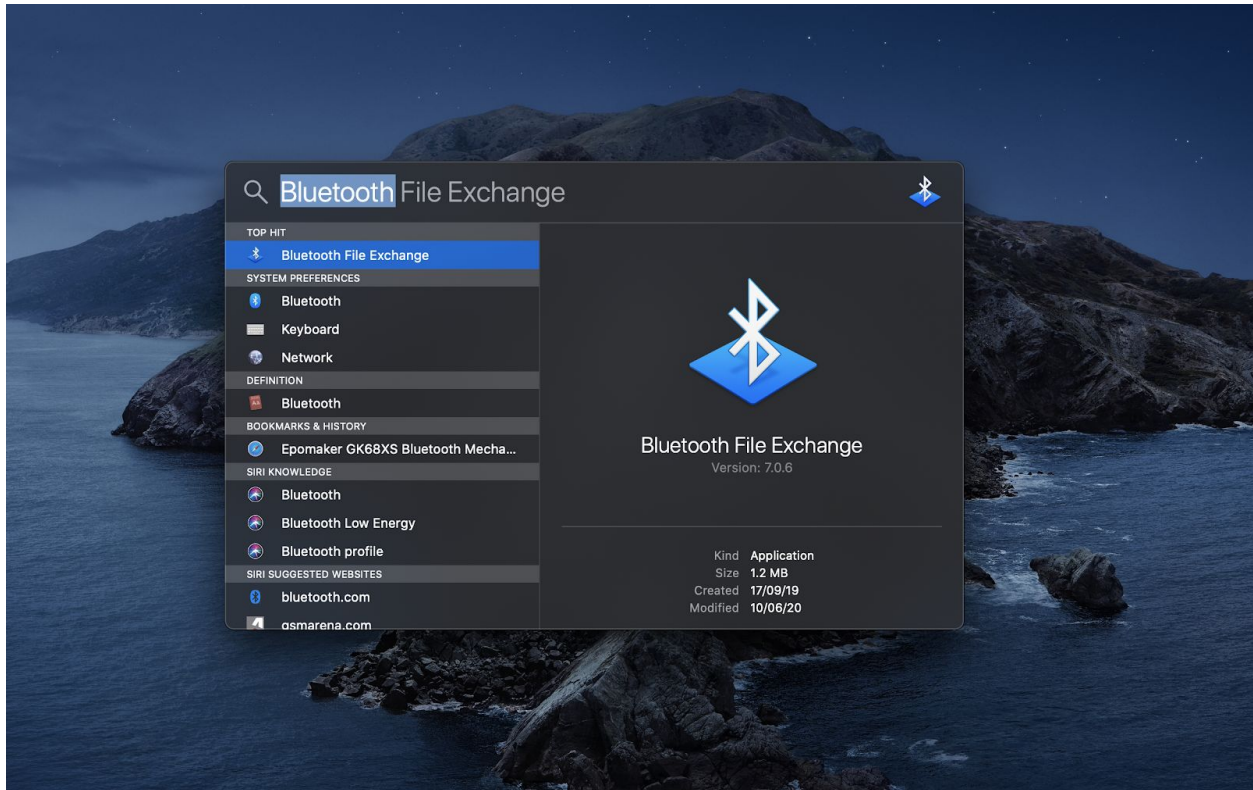
8. When your device is connected to your iPhone, it should show as "Connected".

Note: If you want to disconnect the device, you can press the information icon on the side, and then select "Disconnect" or "Forget this device". Your device will then be paired on that specific

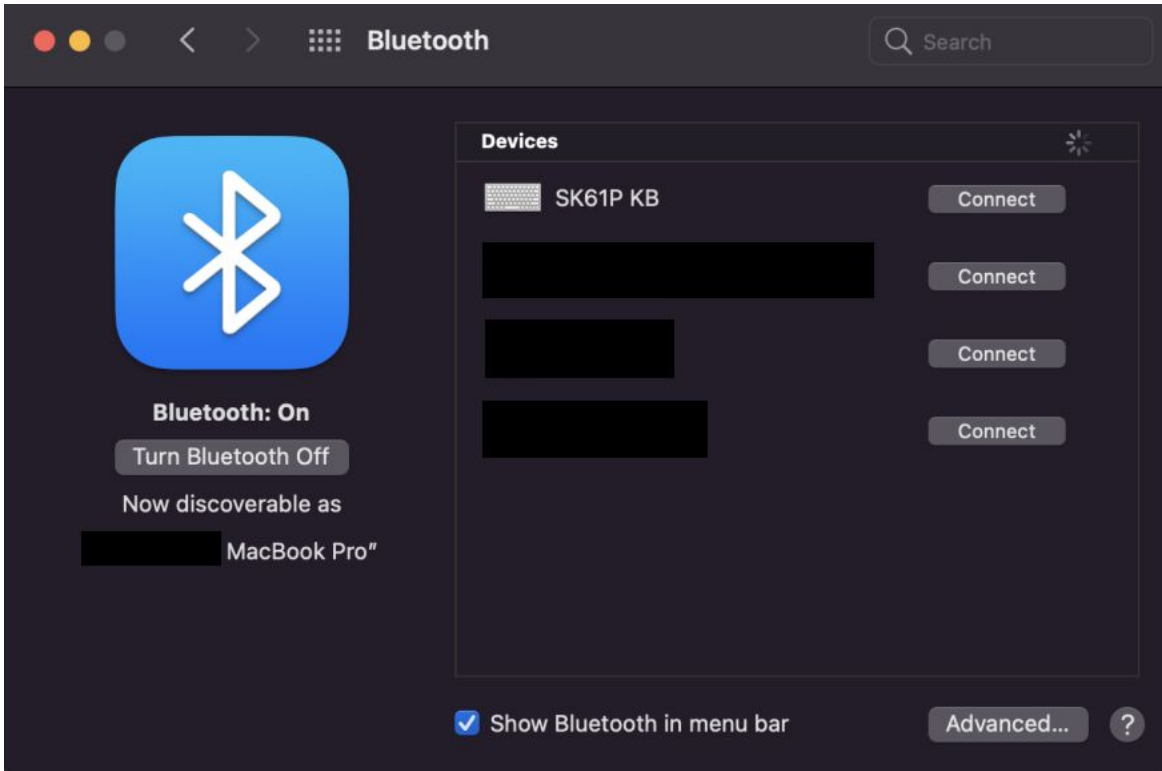
button. To disconnect/reconnect the keyboard, press the same button until the button turns white.

## MacOS Bluetooth

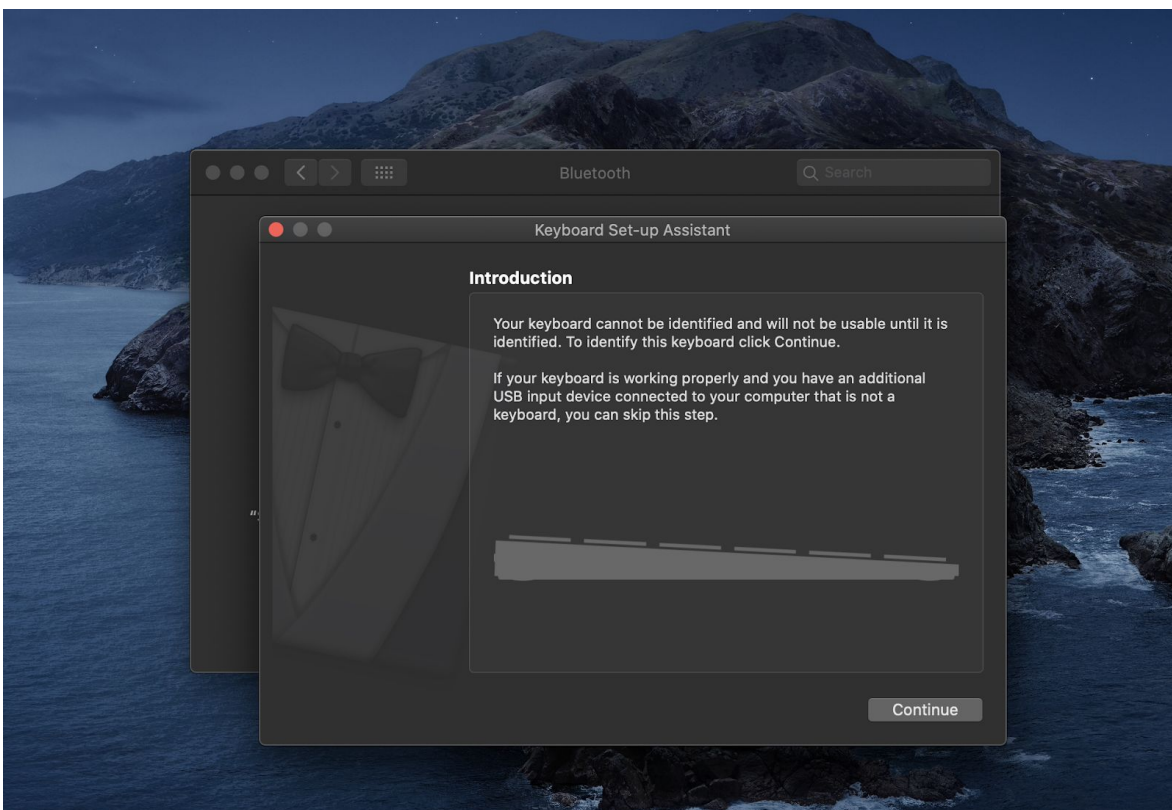
Note: make sure your device is discoverable and turned on.



1. Press Command + Space to open Search
2. Type "Bluetooth" into the Spacebar, select "Bluetooth" (Don't select Bluetooth File Exchange).
3. Hold the desired pairing button you would like on your keyboard. You can connect up to three devices, so either hold **FN + Z**, **FN + X**, or **FN + C** until the LED starts flashing green/red.



4. You should see “SK61 KB” on the Bluetooth devices. Press “Connect”



5. You should see a keyboard symbol that is connected, and the Keyboard assistant pop up.

6. Go through the keyboard setup, and make sure that you follow the instructions carefully. Your device, afterwards, should have the proper layout and functionality.

## Linux Bluetooth Pairing

Bluetooth pairing really depends on the Distro you are using and what desktop environment you are using. You can find guides on how to pair your bluetooth for a few of the popular distributions here:

**Ubuntu 20.04:** <https://help.ubuntu.com/stable/ubuntu-help/bluetooth-connect-device.html.en>

**Arch:** [https://wiki.archlinux.org/index.php/Bluetooth\\_keyboard](https://wiki.archlinux.org/index.php/Bluetooth_keyboard)

**Fedora:** <https://fedoraproject.org/wiki/Documentation/Bluetooth>

# Downloading Software for your Epomaker SK61/GK61

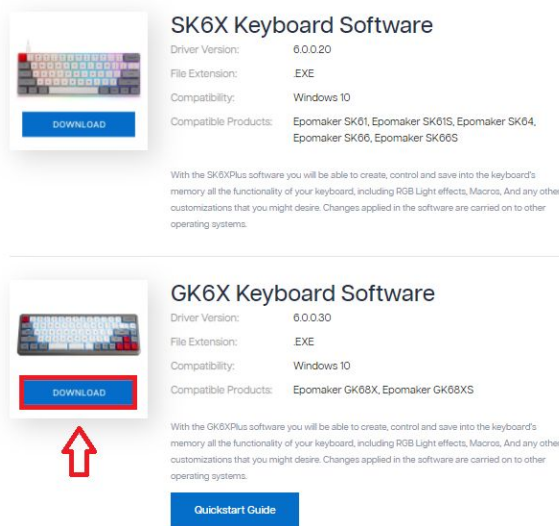
The keyboard has support for MacOS, Windows and Linux.

Make sure when you're installing the software that you have a ZIP manager. We suggest using the open sourced 7Zip. Download it here: <https://www.7-zip.org/download.html> or The Unarchiver on MacOS: <https://theunarchiver.com/>.

## Windows Download

1. Visit the download page at <https://epomaker.com/pages/software-downloads>.

### Software Downloads



**SK6X Keyboard Software**  
Driver Version: 6.0.0.20  
File Extension: .EXE  
Compatibility: Windows 10  
Compatible Products: Epomaker SK61, Epomaker SK61S, Epomaker SK64, Epomaker SK66, Epomaker SK66S

With the SK6XPlus software you will be able to create, control and save into the keyboard's memory all the functionality of your keyboard, including RGB Light effects, Macros, And any other customizations that you might desire. Changes applied in the software are carried on to other operating systems.

**GK6X Keyboard Software**  
Driver Version: 6.0.0.30  
File Extension: .EXE  
Compatibility: Windows 10  
Compatible Products: Epomaker GK68X, Epomaker GK68XS

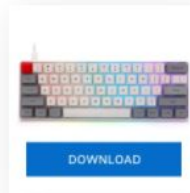
With the GK6XPlus software you will be able to create, control and save into the keyboard's memory all the functionality of your keyboard, including RGB Light effects, Macros, And any other customizations that you might desire. Changes applied in the software are carried on to other operating systems.

[Quickstart Guide](#)

2. Click the download button under the section "GK6X Keyboard Software".

- Shipping & Handling
- Return Policy
- Warranty & Support
- Software Downloads
- Product Guides

## Software Downloads



### SK6X Keyboard Software

Driver Version: 6.0.0.20  
 File Extension: .EXE  
 Compatibility: Windows 10  
 Compatible Products: Epomaker SK61, Epomaker SK61S, Epomaker SK64, Epomaker SK66, Epomaker SK66S

With the SK6XPlus software you will be able to create, control and save into the keyboard's memory all the functionality of your keyboard, including RGB Light effects, Macros, And any other customizations that you might desire. Changes applied in the software are carried on to other operating systems.

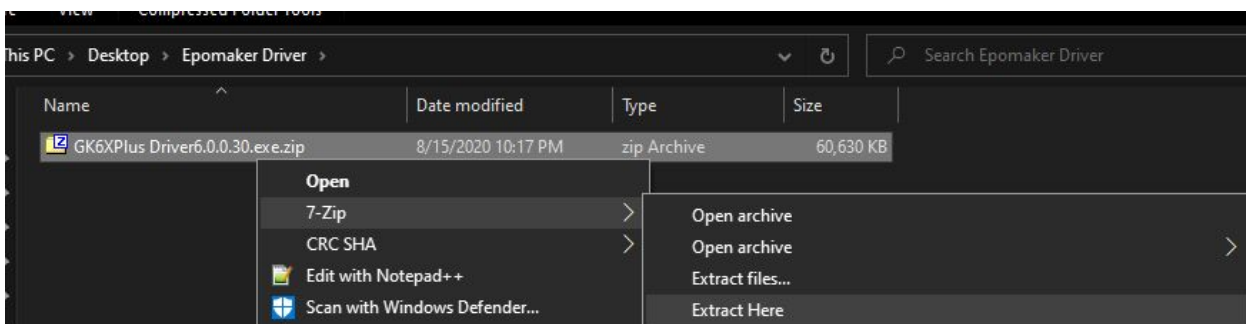


### GK6X Keyboard Software

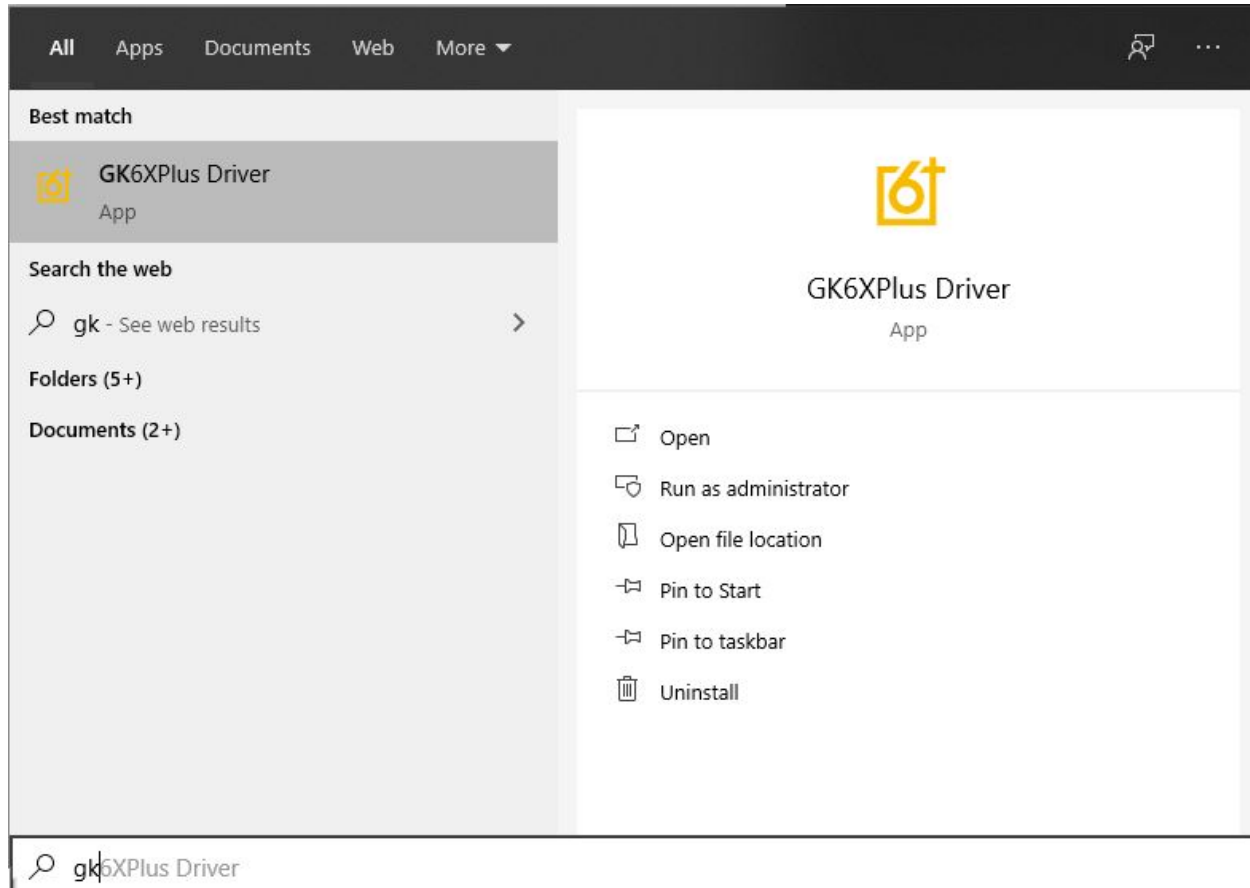
Driver Version: 6.0.0.30  
 File Extension: .EXE  
 Compatibility: Windows 10  
 Compatible Products: Epomaker GK68X, Epomaker GK68XS

With the GK6XPlus software you will be able to create, control and save into the keyboard's memory all the functionality of your keyboard, including RGB Light effects, Macros, And any other customizations that you might desire. Changes applied in the software are carried on to other operating systems.

[Quickstart Guide](#)



3. Extract the file to a temporary folder. Click the file and run.
4. Run through the installer and install to the location you would like - the default location will be the C:/ drive.



5. Launch the software by searching “GK68Plus Driver” in the search bar.

## MacOS and Linux Download (GUI):

<https://github.com/pixeltris/GK6X>

In order for the keyboard to interface with the software, you’re going to need to have the keyboard in wired mode if you want to change the driver layer.

Make sure you are using the cable that came with the keyboard, the keyboard can only communicate with the software via USB-A to USB-C. If you’re using MacOS, you can use a dongle to overcome this.

1. Head to <https://www.mono-project.com/download/stable/> to download Mono, which is required for running the Mac version.

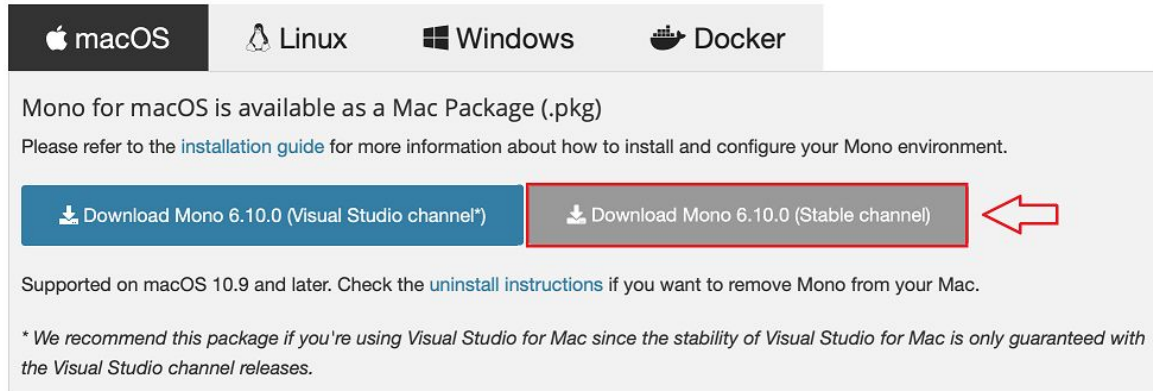


## Download

Release channels: [Nightly](#) - [Preview](#) - **Stable** - [Visual Studio](#)

The latest Stable Mono release is: 6.10.0 Stable (6.10.0.104)

Please choose your operating system to view the available packages. Source code is available on [GitHub](#) (viewing only) or as a [Tarball](#).



Mono for macOS is available as a Mac Package (.pkg)

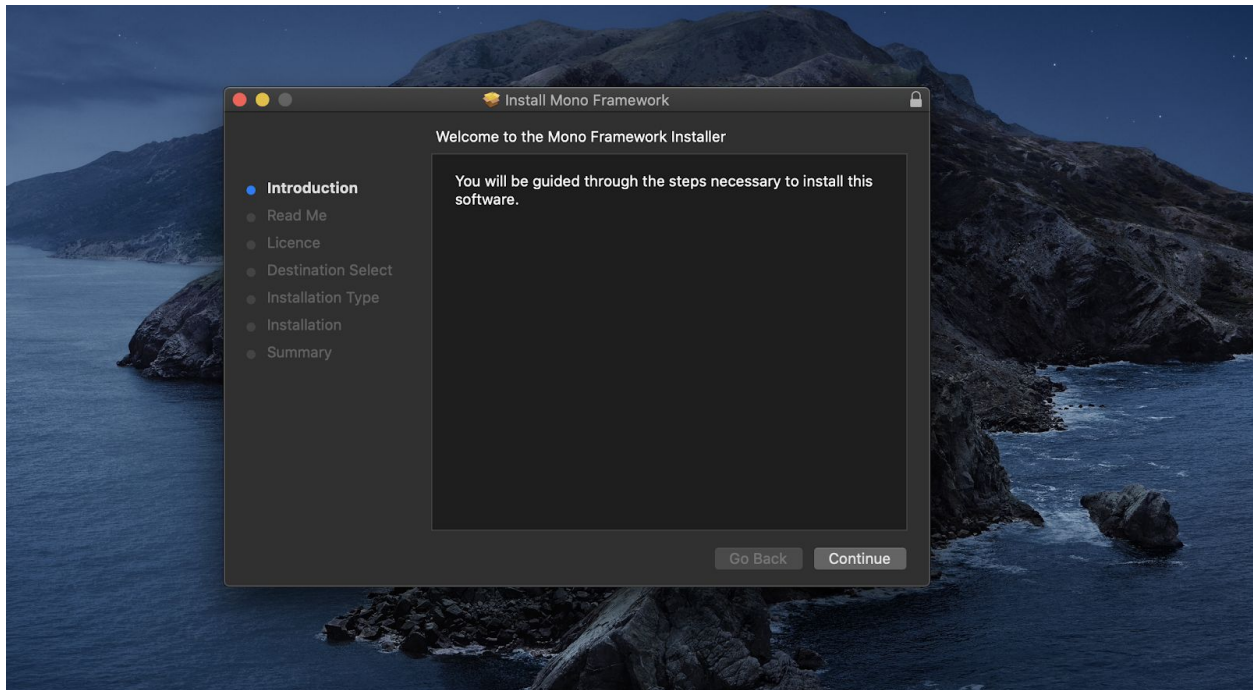
Please refer to the [installation guide](#) for more information about how to install and configure your Mono environment.

[Download Mono 6.10.0 \(Visual Studio channel\\*\)](#) [Download Mono 6.10.0 \(Stable channel\)](#)

Supported on macOS 10.9 and later. Check the [uninstall instructions](#) if you want to remove Mono from your Mac.

*\* We recommend this package if you're using Visual Studio for Mac since the stability of Visual Studio for Mac is only guaranteed with the Visual Studio channel releases.*

### 2. Click to download the “Stable channel”



3. Click the file in your download folder, you should see an installer launch, run through the installer and install mono.
4. Head to <https://github.com/pixeltris/GK6X/releases>, here you should download the latest release with the filename “GKL6X-XX-GUI.zip” With “XX” being the most recent release.



Latest release

## GK6X-v1.9

GK6X-v1.9  
ec8878b




Compare ▾

pixeltris released this 9 days ago

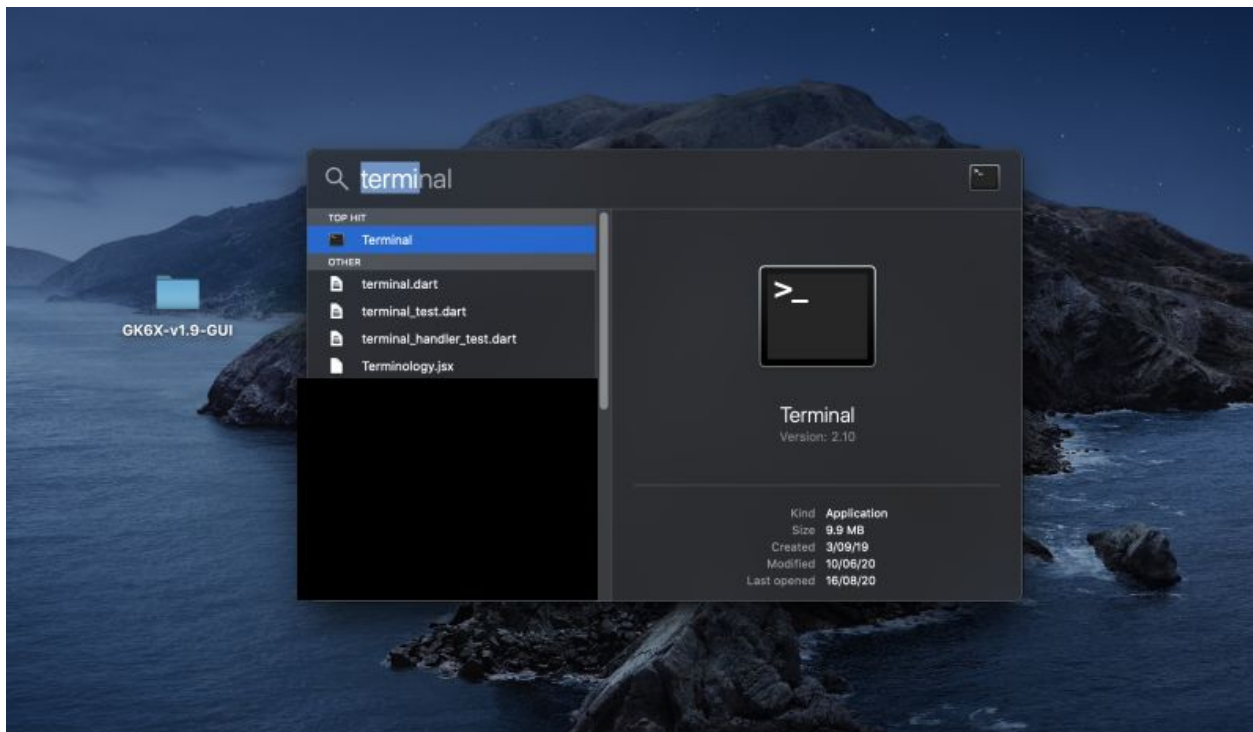
- Updated data files to V6.0.0.32

NOTE: There's a regression in the GUI component (also appears in the official software). Some keyboards can't set lighting on layers 1-3. To fix this edit `/driver/device/YOUR_MODEL_ID/config.json` and change `"hasModeLe": false`, to `"hasModeLe": true`.

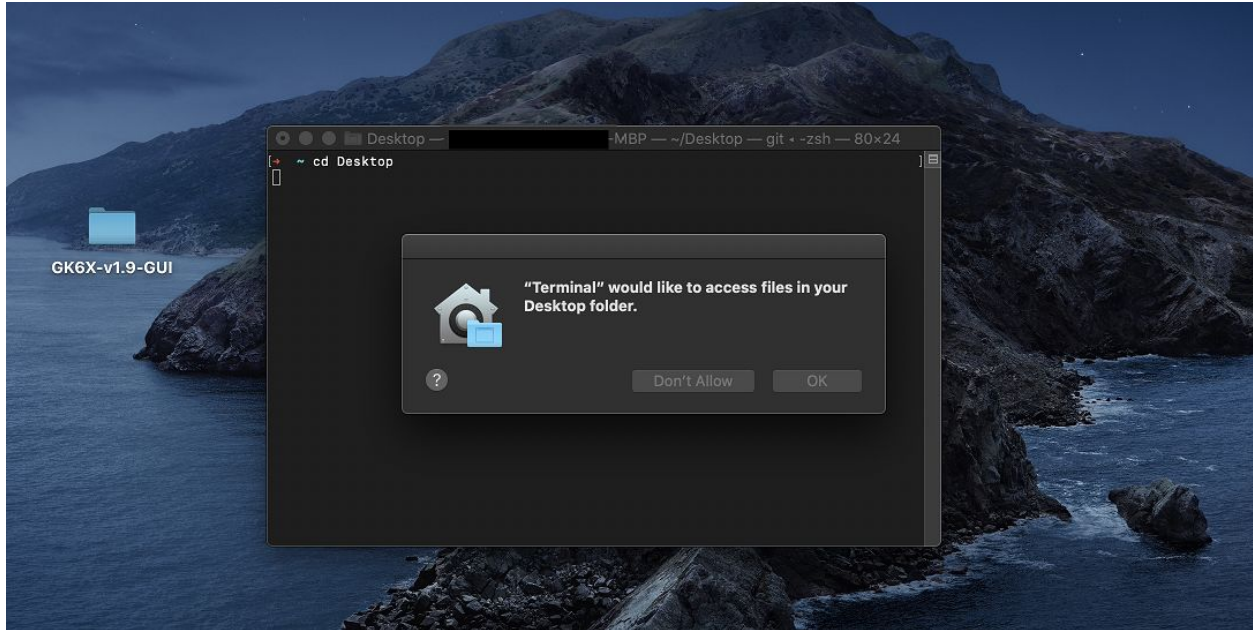
Assets 4

 GK6X-v1.9-GUI.zip	53.6 MB
 GK6X-v1.9.zip	1.46 MB
 Source code (zip)	
 Source code (tar.gz)	

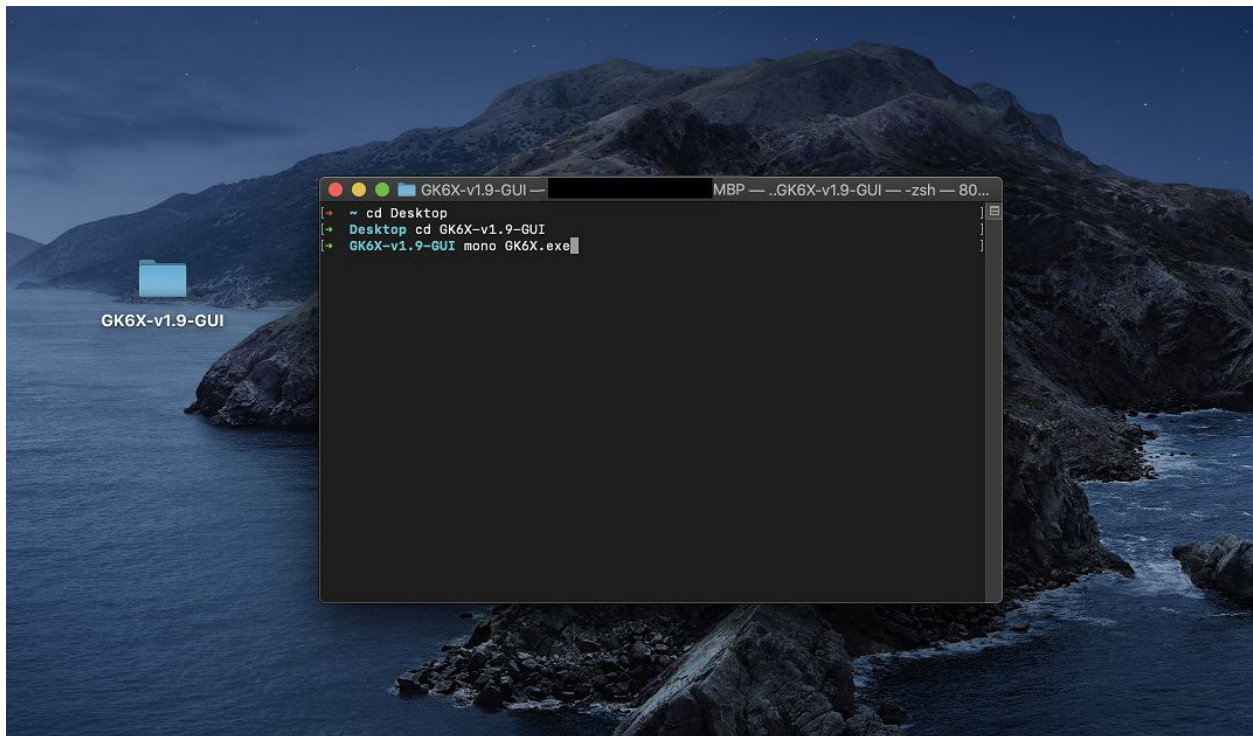
- Click the file to begin the download, and put this file somewhere where you can access it regularly via CLI. In this case, we will put it on the desktop.



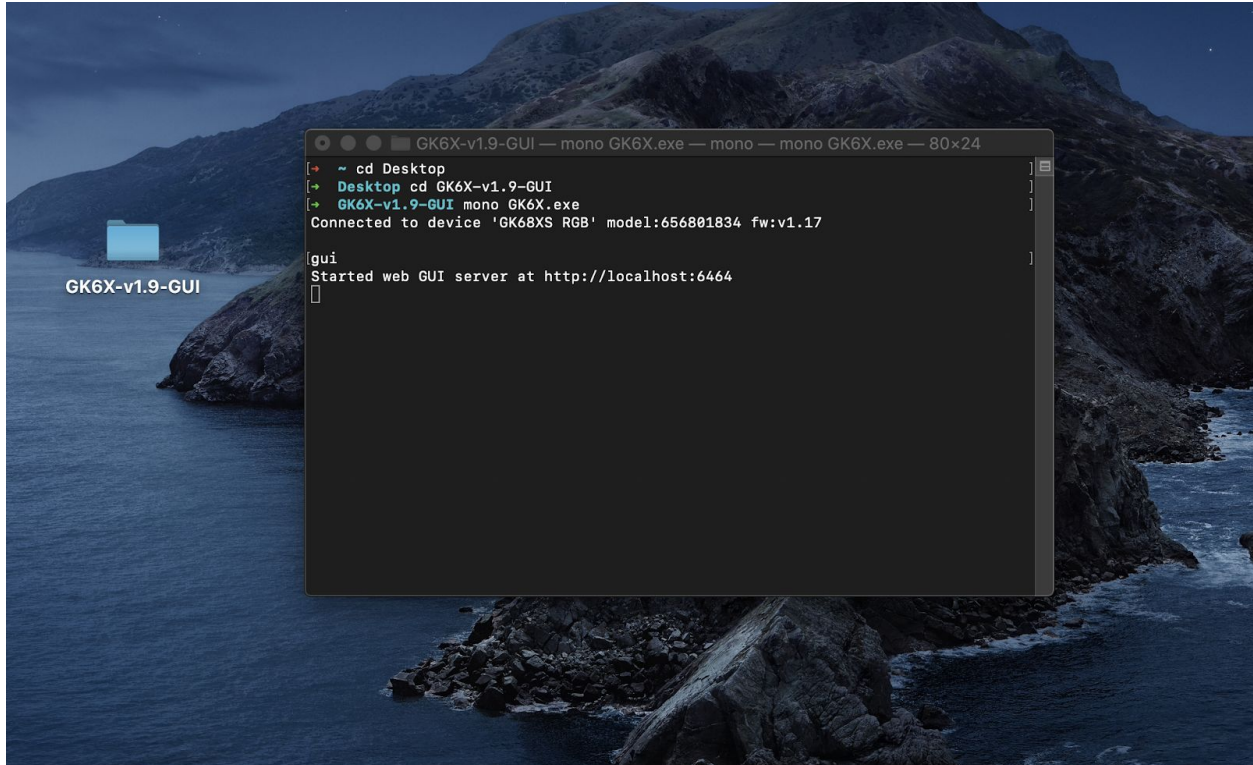
- Press Command + Space and type "Terminal" into the search bar. Press "Terminal". This is where we will do our commands.



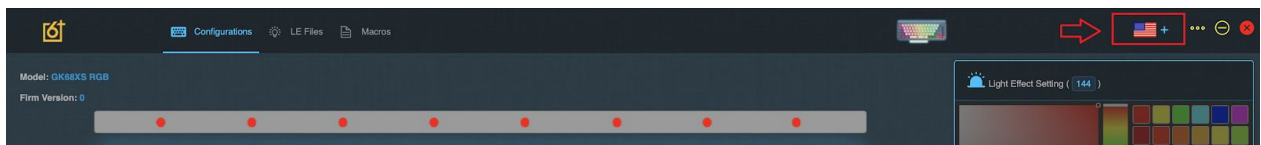
7. You want to make the current directory you put your driver folder you placed it in, in this case, we placed the GK68X folder on the desktop, so we type the command **cd Desktop**



8. When you are in the folder that has the folder for the driver inside, you want to then **cd** into that folder, you can do this by typing **cd GKX-XX.exe** (You can use "tab" to auto-complete).
9. When you are inside your driver folder, type **mono GK6X.exe**. You should then be shown that your keyboard is connected. (Make sure you're using the cable that came with the keyboard and that it is plugged in).



10. When you see that your device is successfully connected, you can then type **gui** to launch the program.



11. The language might launch in Chinese by default. You can change this above by clicking the flag and changing the option to English.



# Software Tutorials

This section will show you how to use your SK61/GK61 for changing colours, macros and binds. In order for your keyboard to be detected by the software, it needs to be connected with the given USB-A to USB-C cable that came with the keyboard. Direct USB-C to USB-C connections will NOT work.

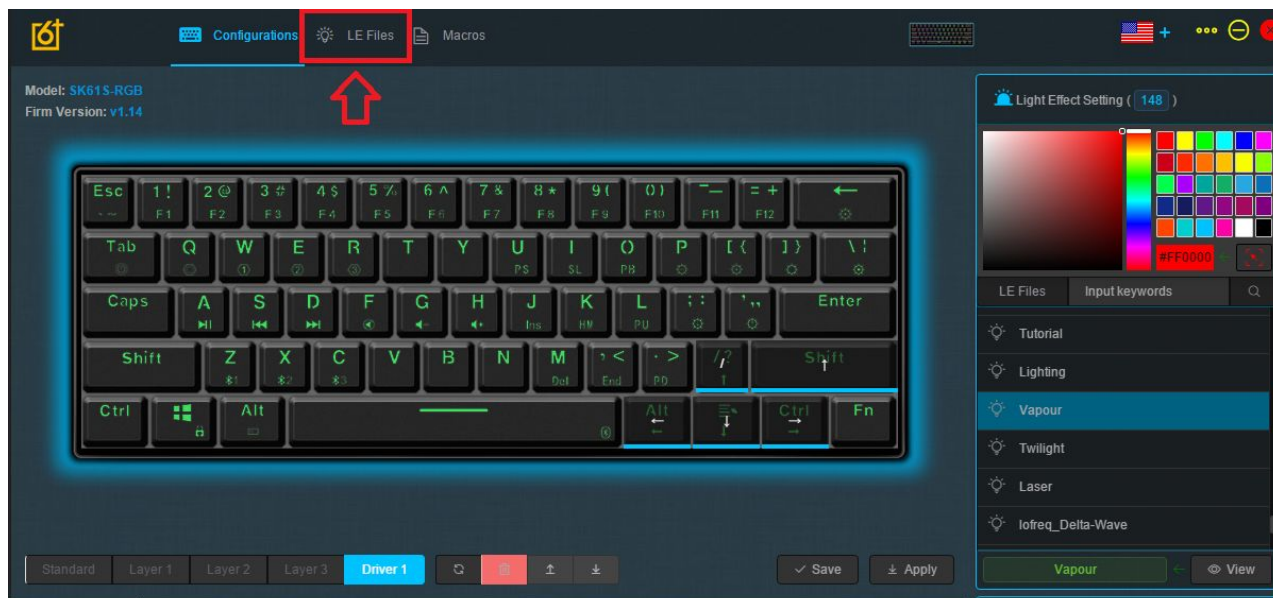
## Lighting Section

This section was created for how to adjust the different lighting, create them and add them to onboard memory. It will also teach you how to upload and download the lighting effects so you can share them with your friends.

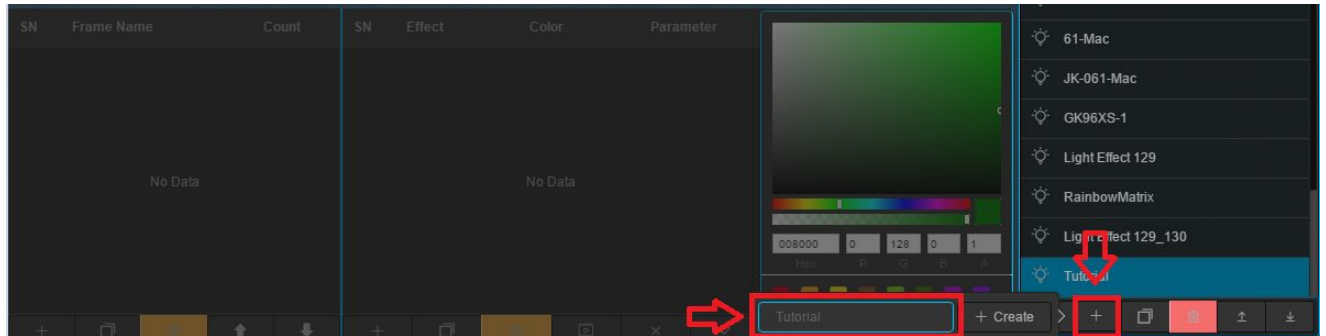
### Creating an Lighting (.LE) Files

I am going to show you how to create a lighting file that you can use, share with other users. You can use these lighting effects on either the onboard memory of your Epomaker, or by using it in driver mode.

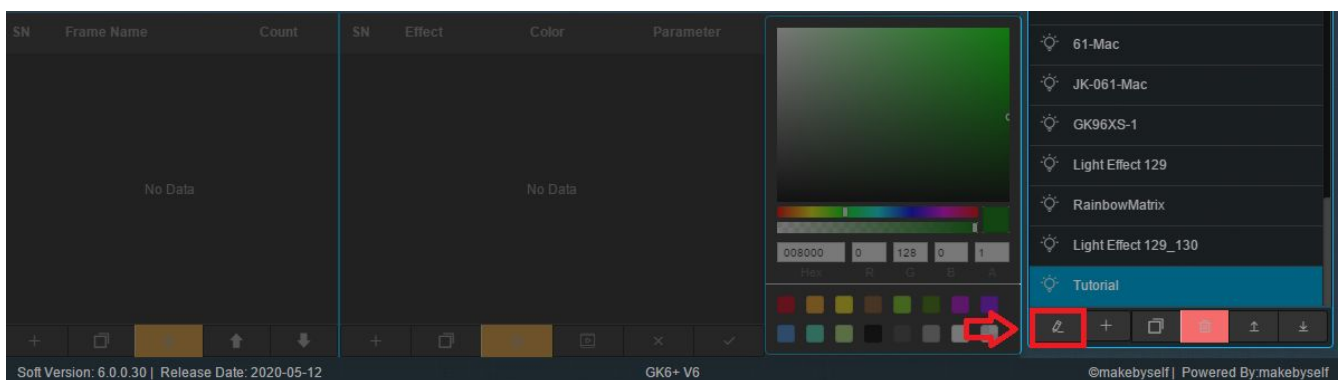
1. Launch the software with the keyboard connected in wired mode. The keyboard must use the cable given, or a USB-C to USB-A cable. The USB-A connection gives the ability for the driver to interface and detect the software. You can use a dongle to connect your keyboard to a USB-C connection on a Mac.



2. Launch the software and select “LE Files”, this is the section for creating lighting files. We will go back to the “Configuration” Section later when we want to apply the lighting.

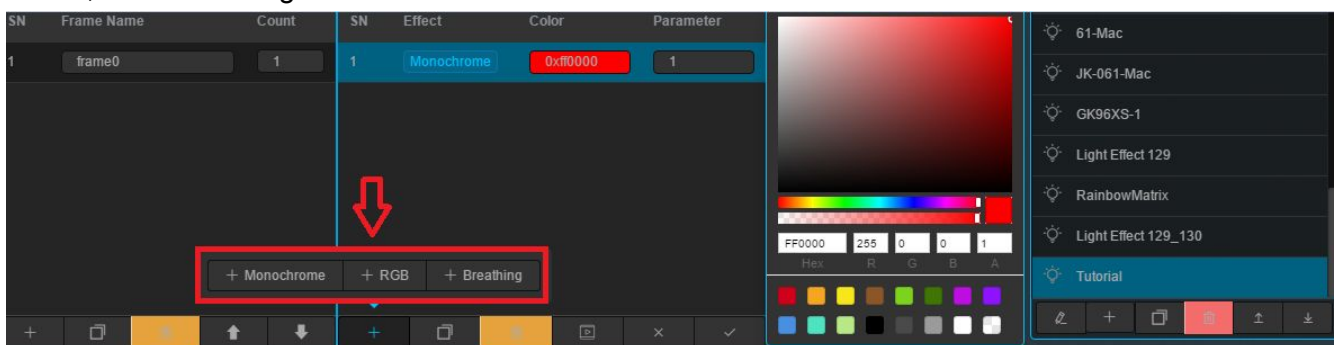


3. Click the “+” Button to add a lighting effect to the LE File Management Module.
4. Enter the name that you want to call the lighting profile that you want to create.



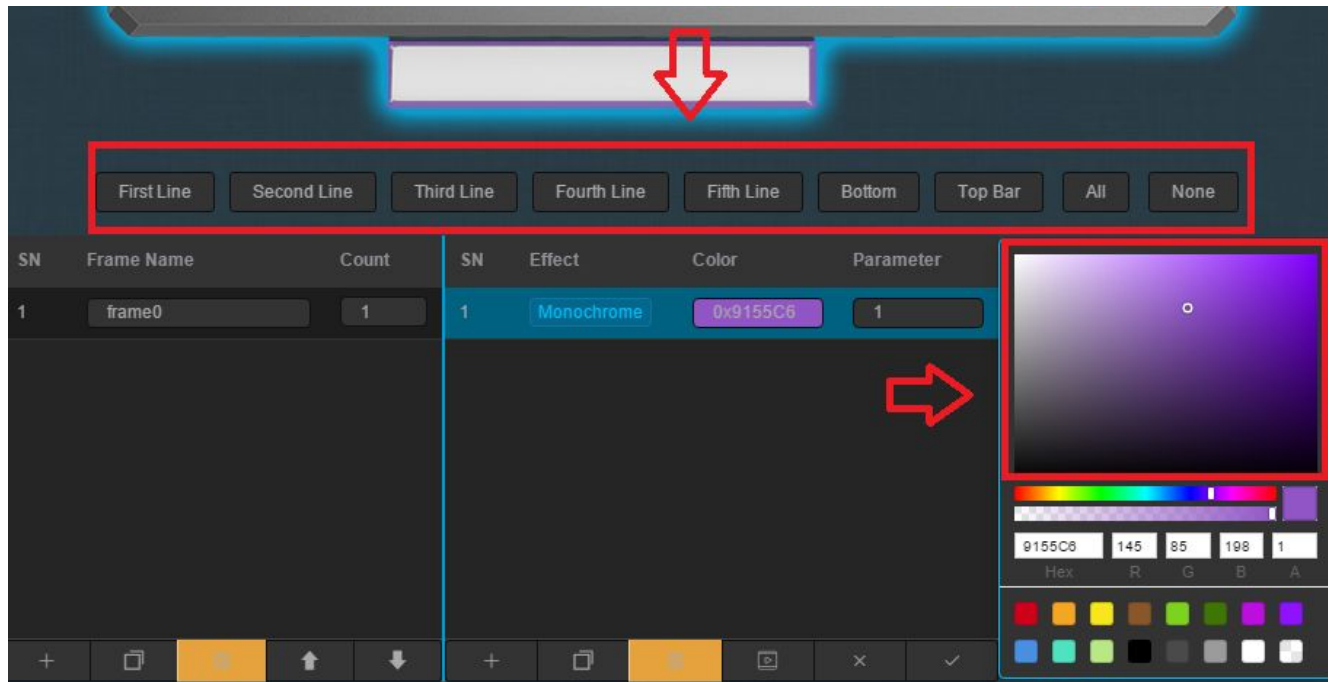
5. Click the Edit icon on the given lighting effect name you just made to start editing the RGB and effect.

You should be welcomed by the editor. Here you can add a lighting option by clicking the “+” Button, or delete using the trash can.

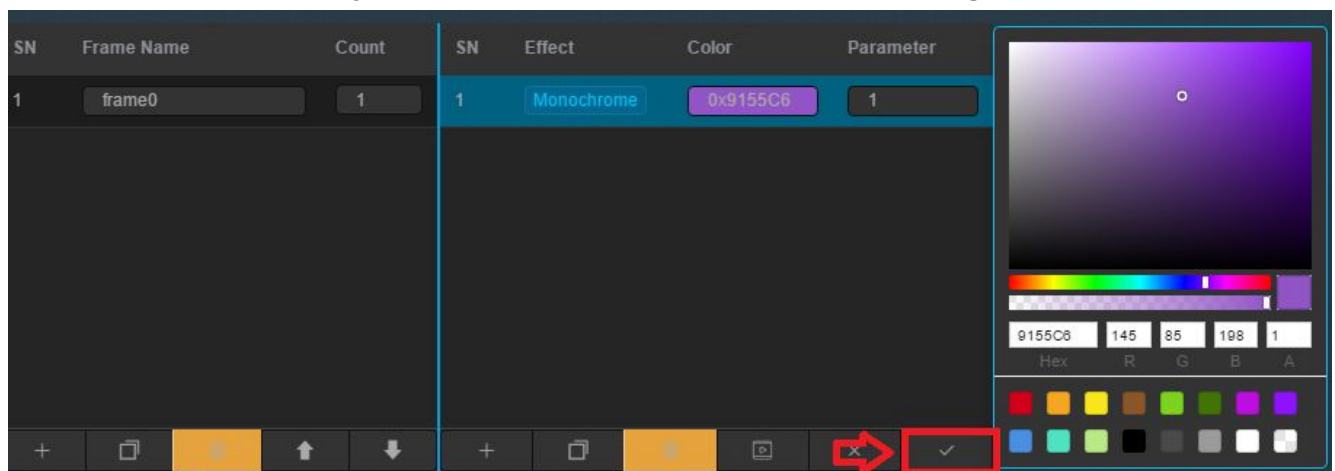


Clicking the “+” Button in the Effects section will result in the following options:

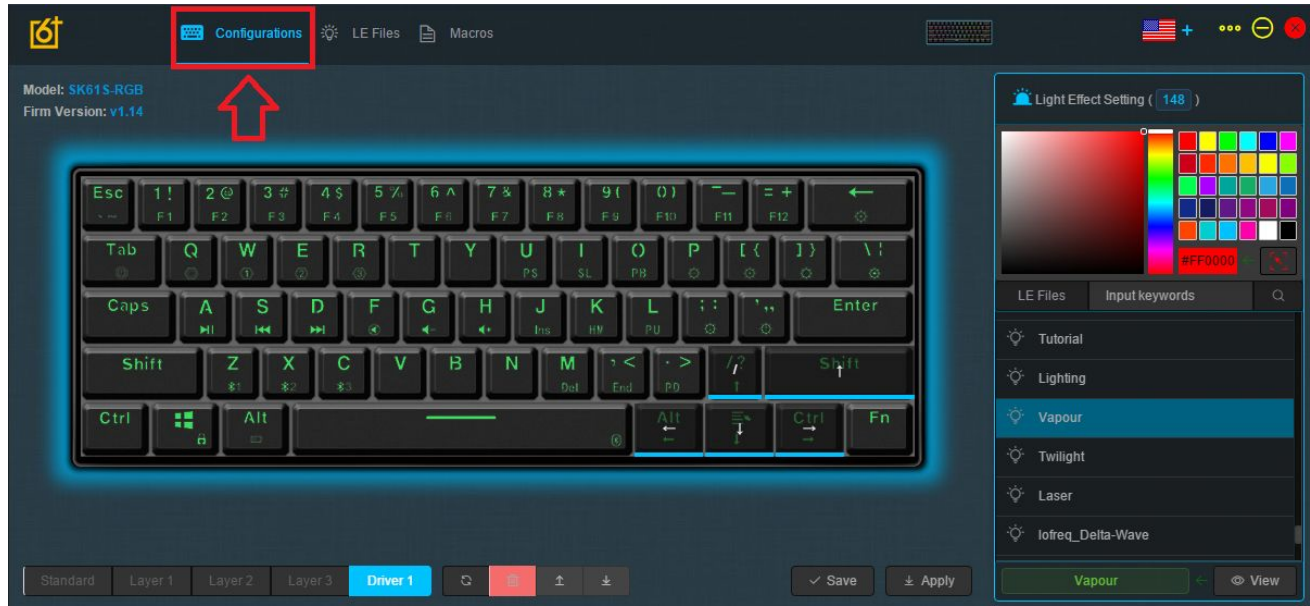
- Monochrome, which is a static colour.
- RGB, which is for a colour shift
- Breathing, for the lights to turn on and off.



6. Select a setting and then change the colour using the colour wheel. Select the keys on the keyboard you want the colour to use, or select from the buttons All, Top Bar, Bottom, Fifth Line. Then press the Effect to confirm the location you want the colour on. Make sure you do it in that order. In this case, I will make my keyboard a lavender purple and I want it to cover all the buttons. **So I make my colour selection by pressing the effect, Press the “All” Keys, and then press the Monochrome effect again.**



7. Click the tick icon near the colour wheel to confirm what colour settings you want.

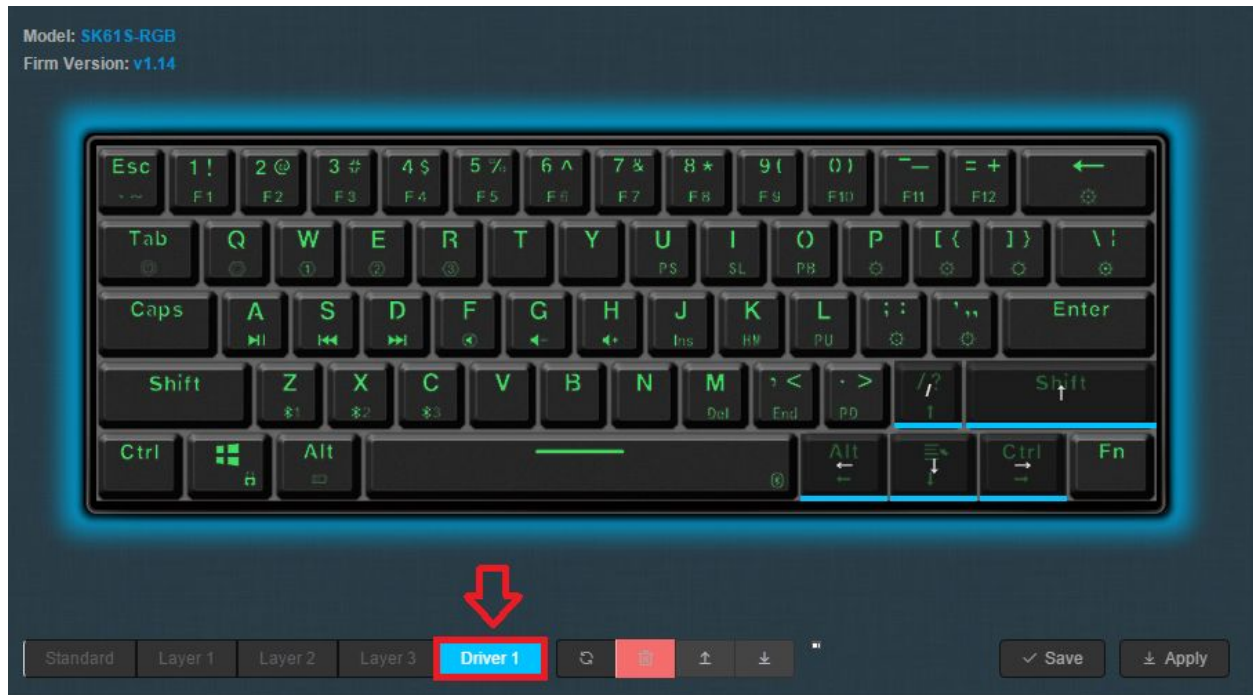


8. Go back to the configurations tab, and then select your LE File you created.
9. Click View, then Apply and Save.

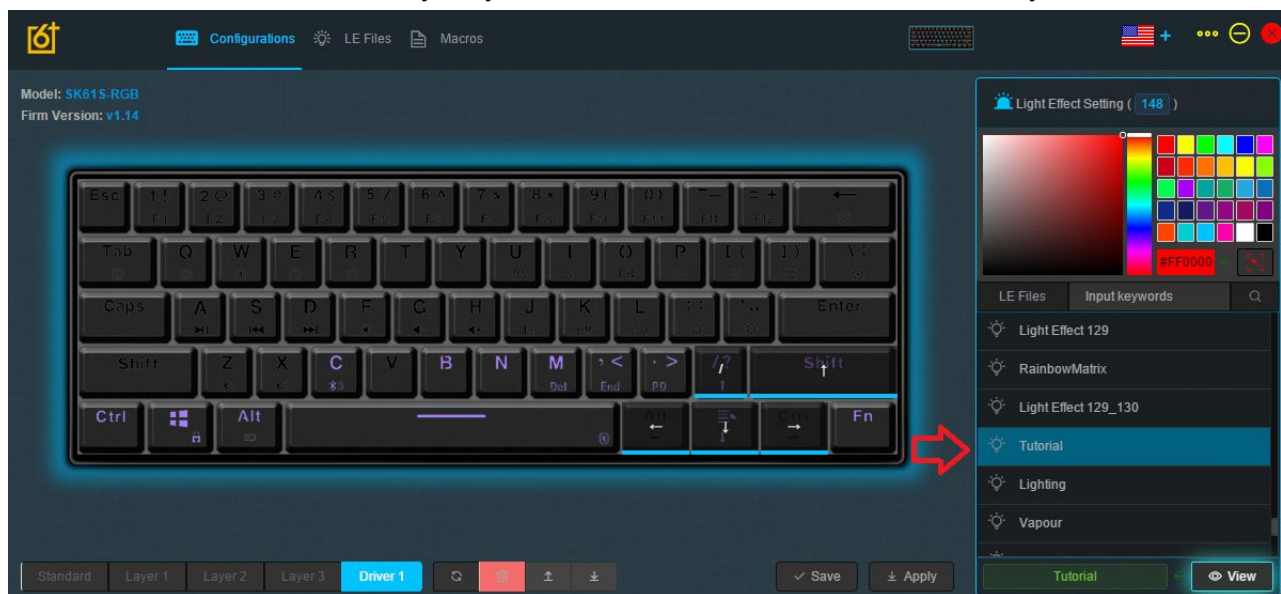
## Edit Driver Layer Colours

The driver layer will only work when the device is in wired mode, so in order to edit the colours in the driver layer you can't use bluetooth.

1. Launch the software with the keyboard connected in wired mode. The keyboard must use the cable given, or a USB-C to USB-A cable. The USB-A connection gives the driver to detect the software. You can use a dongle to connect your keyboard to a USB-A connection on a Mac.



2. Click Driver 1 from the layers you can see above to access the Driver layer.



3. Click the side panel above, you will see different lighting effect options which you can press. Press any or create your own. You can see how to do this in “Creating a Lighting (.LE) File” above.

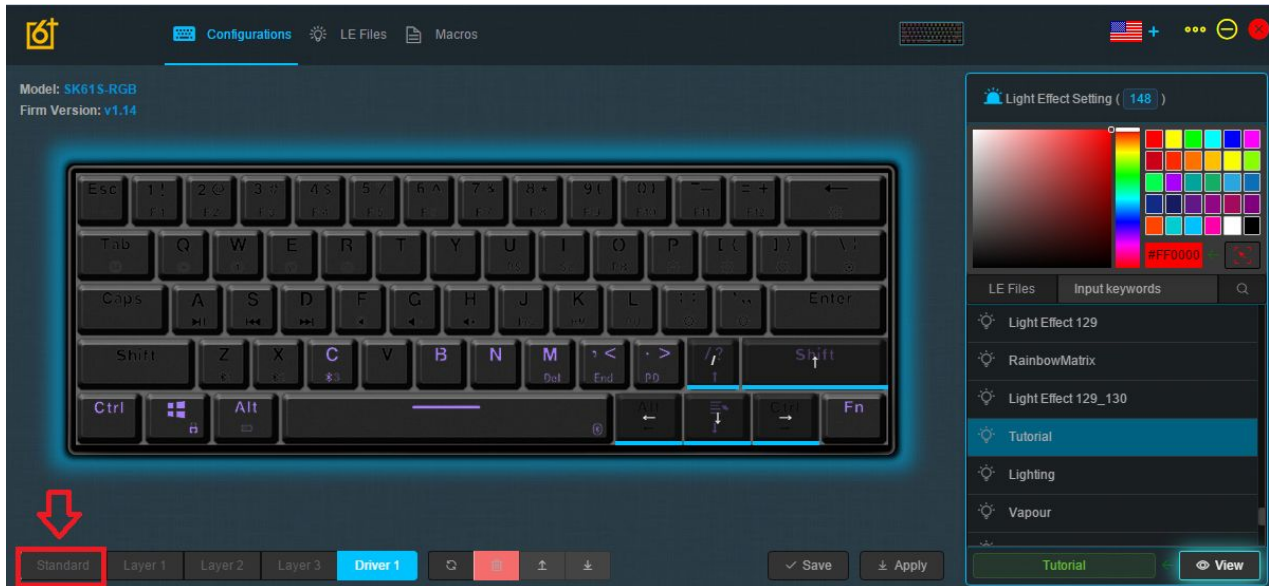
4. Click View, Apply and Save.



## Add Onboard Lighting Effects

We're going to be adjusting the on-board lighting effects. You can access these effects by using **FN + ]** Until you reach the effect you created.

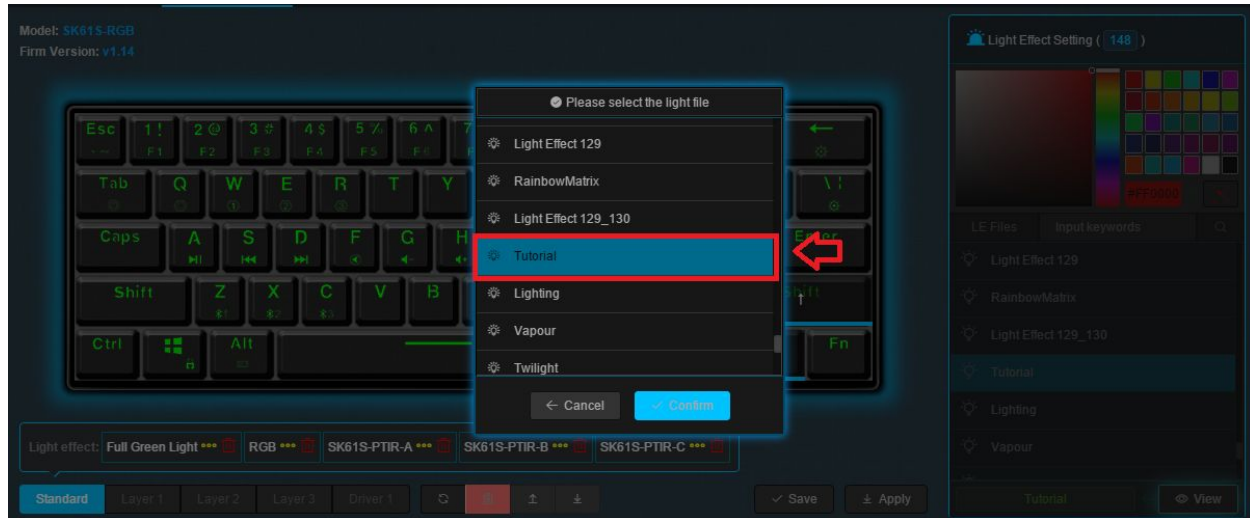
1. Launch the software with the keyboard connected in wired mode. The keyboard must use the cable given, or a USB-C to USB-A cable. The USB-A connection gives the ability for the driver to interface and detect the software. You can use a dongle to connect your keyboard to a USB-C connection on a Mac.



1. When the software is installed, please launch it and press the “Standard Layer”.



2. Press on any of the Lighting effects you would like to change and select the lighting profile you would like to add.



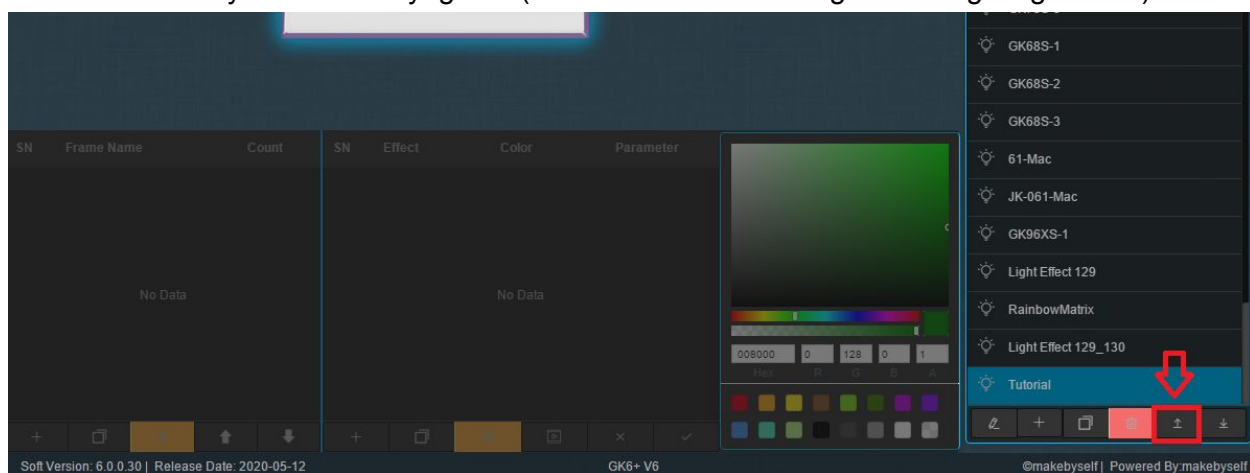
3. Click confirm to put that specific lighting configuration onto the on-board memory.
4. Click save, and then apply. Make sure you do this or it will not be on-board. The board backlight should turn for a second, and turn back on.
5. Click the **FN + ]** until you find the desired effect you selected.

Want more effects for your Epomaker keyboard? You can make one yourself, or join our Discord that has many created by the awesome community: <https://discord.gg/YE8PbqF>. Feel free to submit your own, too!

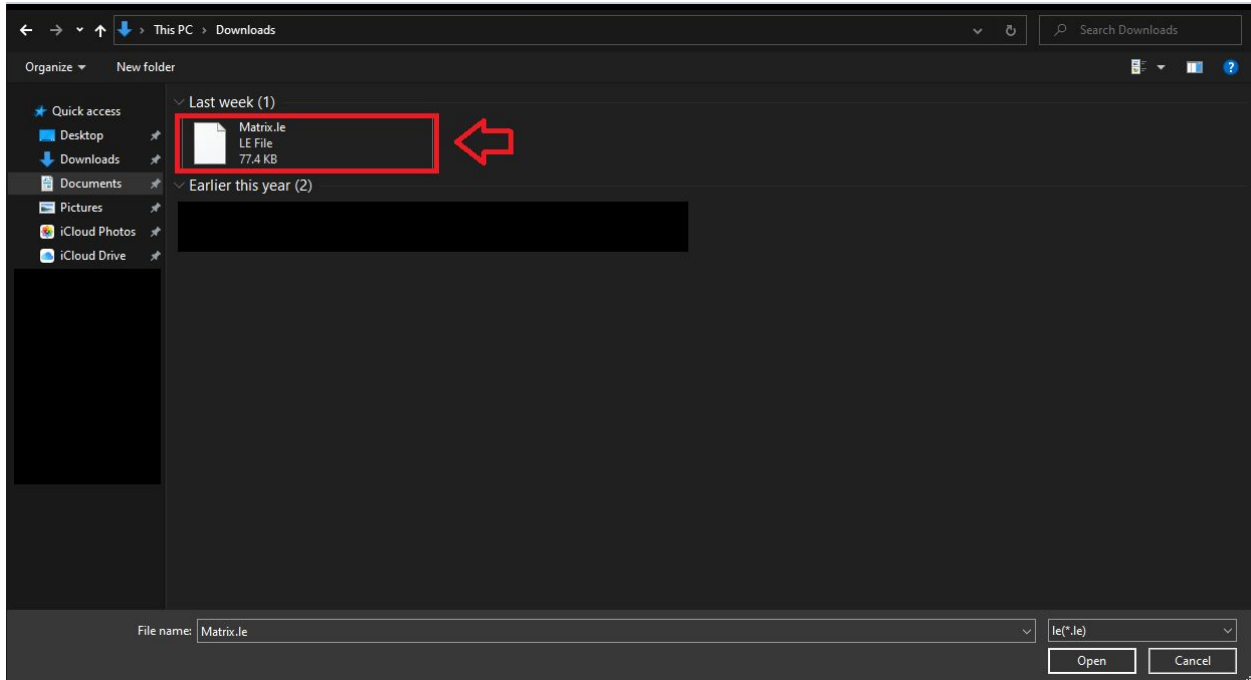
## Uploading Lighting “LE” Files

Uploading and downloading the files allows you to try other peoples configurations and also send it to other people.

1. Download the LE file you’re going to use. In this case we used Matrix.le created by community member Saiyagene. (Head to the Discord to get more lighting effects).



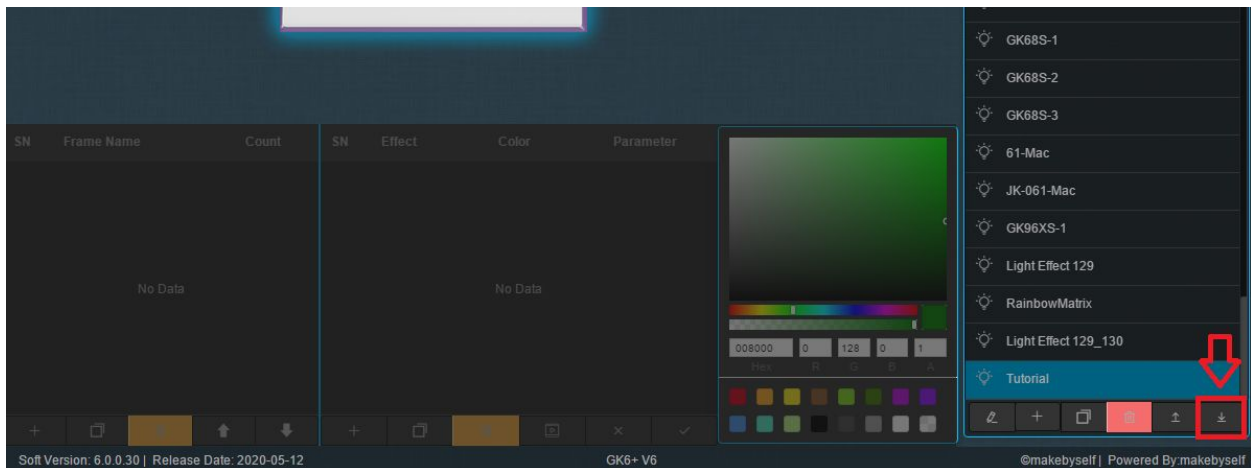
2. Select the upload button from the LE File Management module.



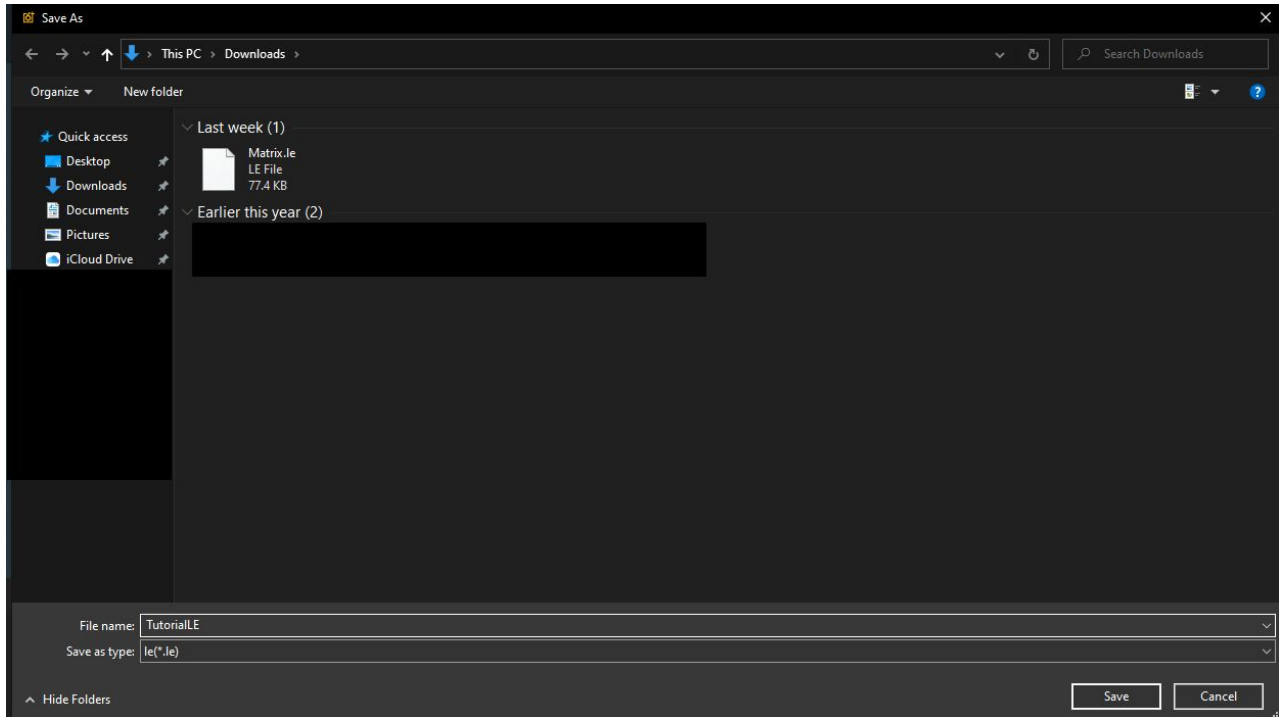
3. Find the location where you saved your file, and select the file and press open. You should then see the file in the LE File Management Module.

## Downloading Lighting “LE” Files

Uploading and downloading the files allows you to try other peoples configurations and also send it to other people.



1. Press the file you would like to download from the LE File Management Module and elect the download button as shown above.



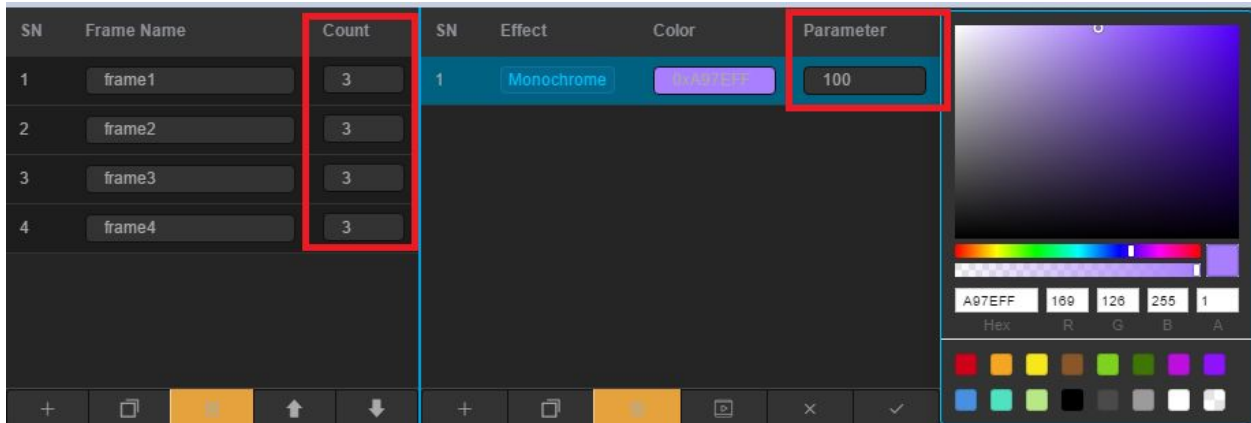
2. Enter your desired location and the filename.
3. Click Save. The file will now be saved in that location and can be shared.

## Creating Frame Based Lighting Effects

These lighting effects will change with time. This gives you the option to change the different colours depending on the time. In this case, we're going to be turning this purple colour on and off between the different rows. This is a bit more of an advanced feature, so it might take a bit of getting used to.



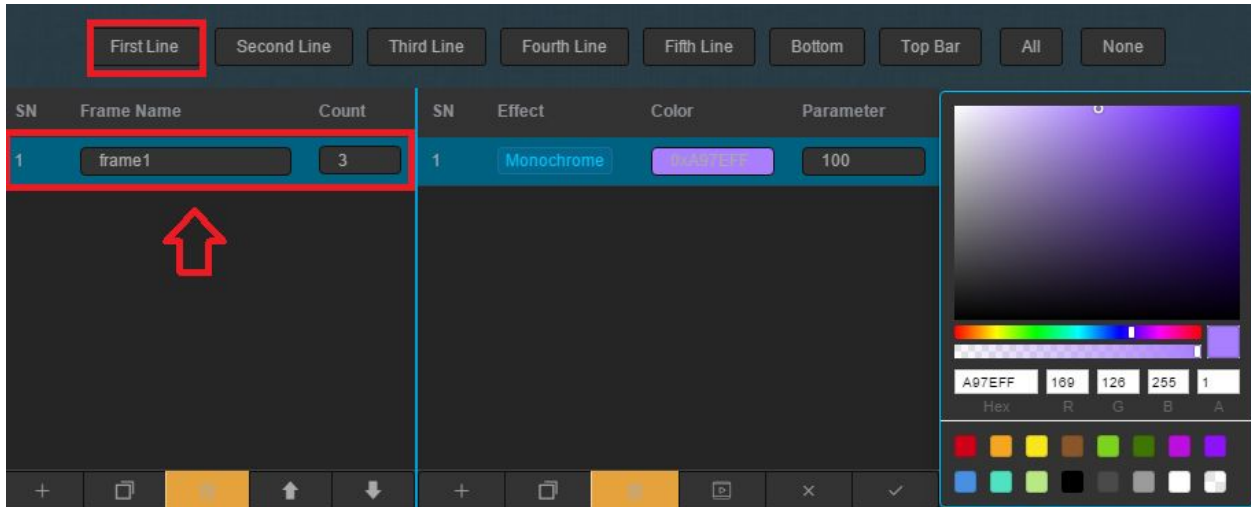
1. Select the “LE Files” Tab. This is the location for editing all your lighting effects.



The frames will be the timing that different layers of effects will happen on the keyboard. The parameter will adjust the length and duration of your lighting effect. So the higher the value is for the parameter, the longer it will take for the keyboard to change the colour. For example, with the breathing effect, the light change will be slower, and for flashing the flash will be slower at higher values.

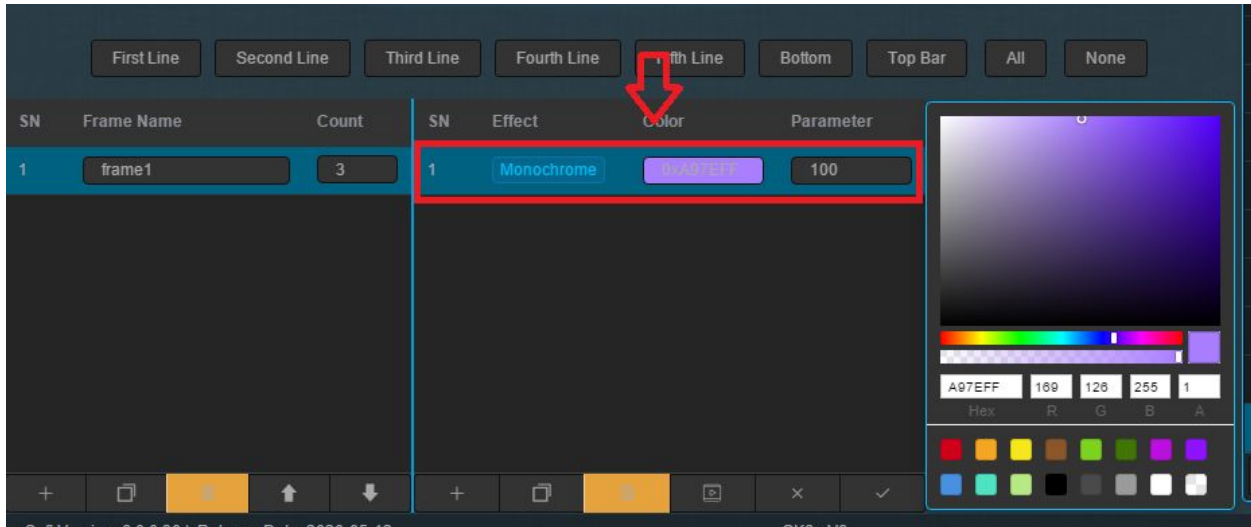






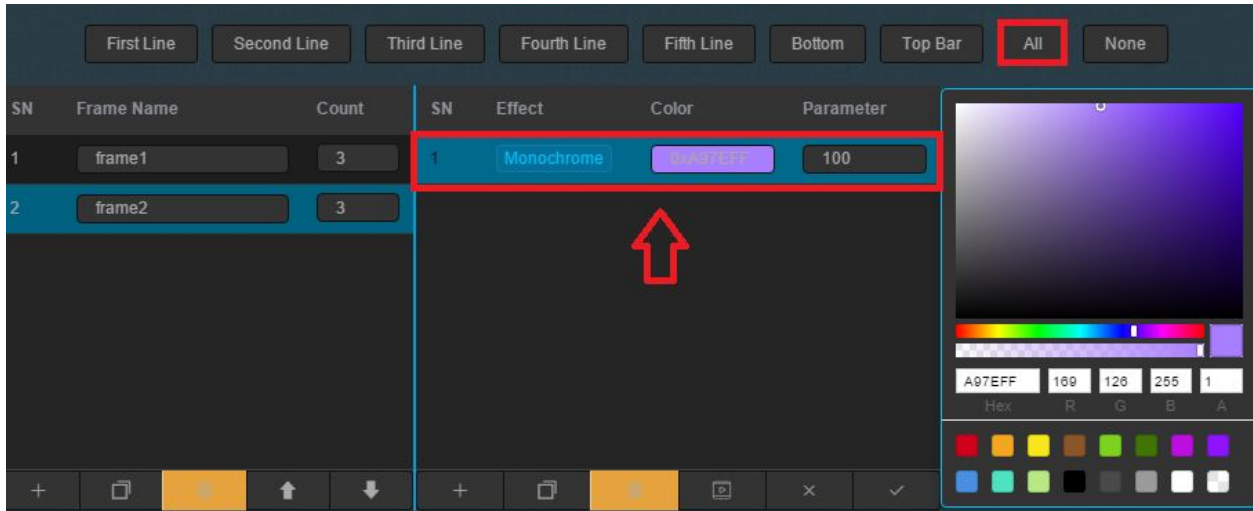
2. We will first start by selecting our first frame, and setting the count. The count is for how long the colour will stay on the board. We then will select “First Line” as we want the colour to show on the first row.



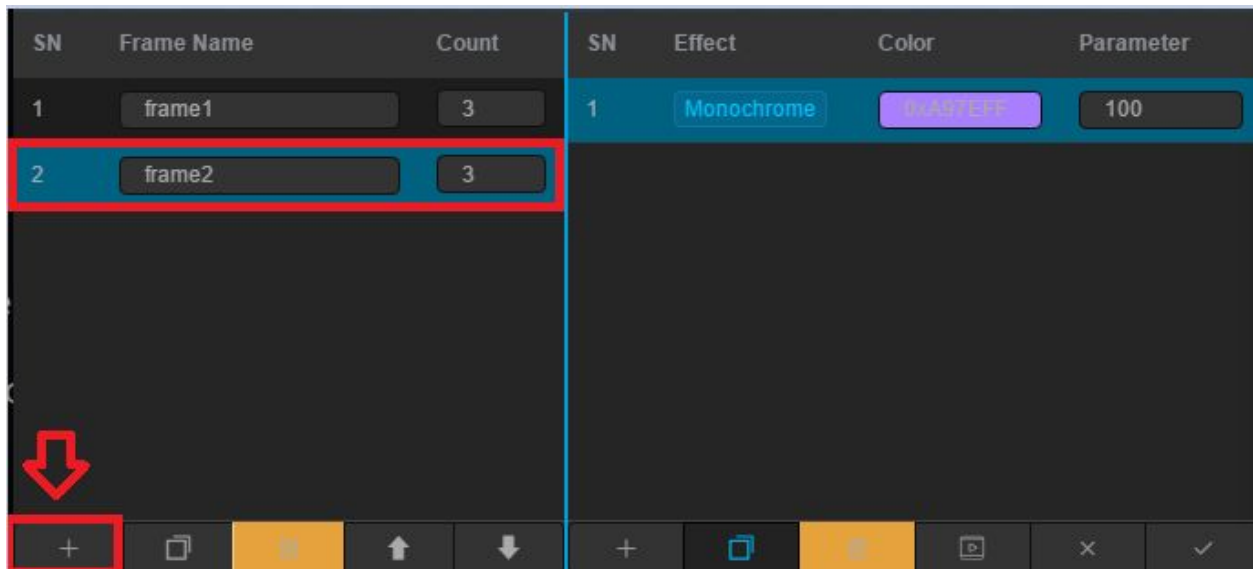


3. We will then select the colour we want to add to that row. In this case, we will be using a single purple colour. But you can add multiple colours to your liking and layer them.



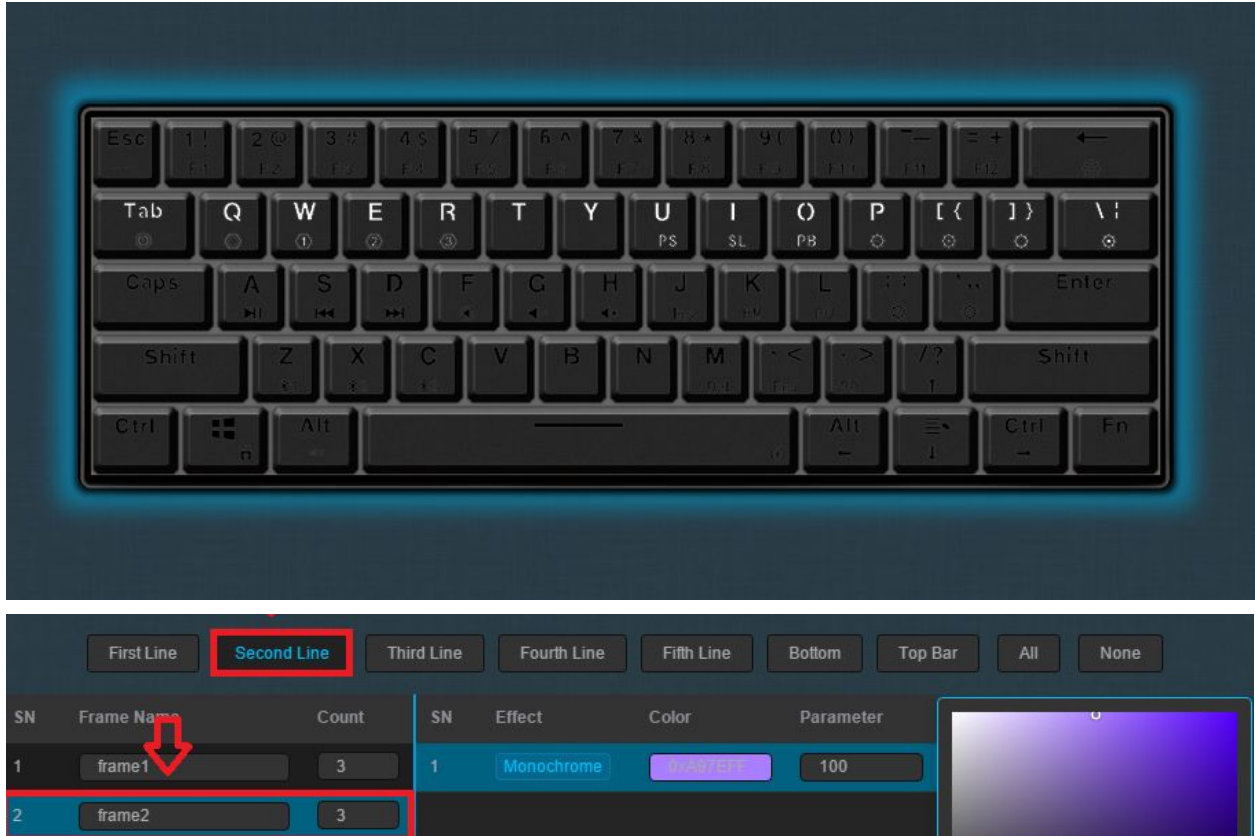


4. If you're using a single colour, select your colour and then assign that colour to all the keys. We are going to be using frames to determine when those keys or specific rows turn on and off, but it will be the same colour.

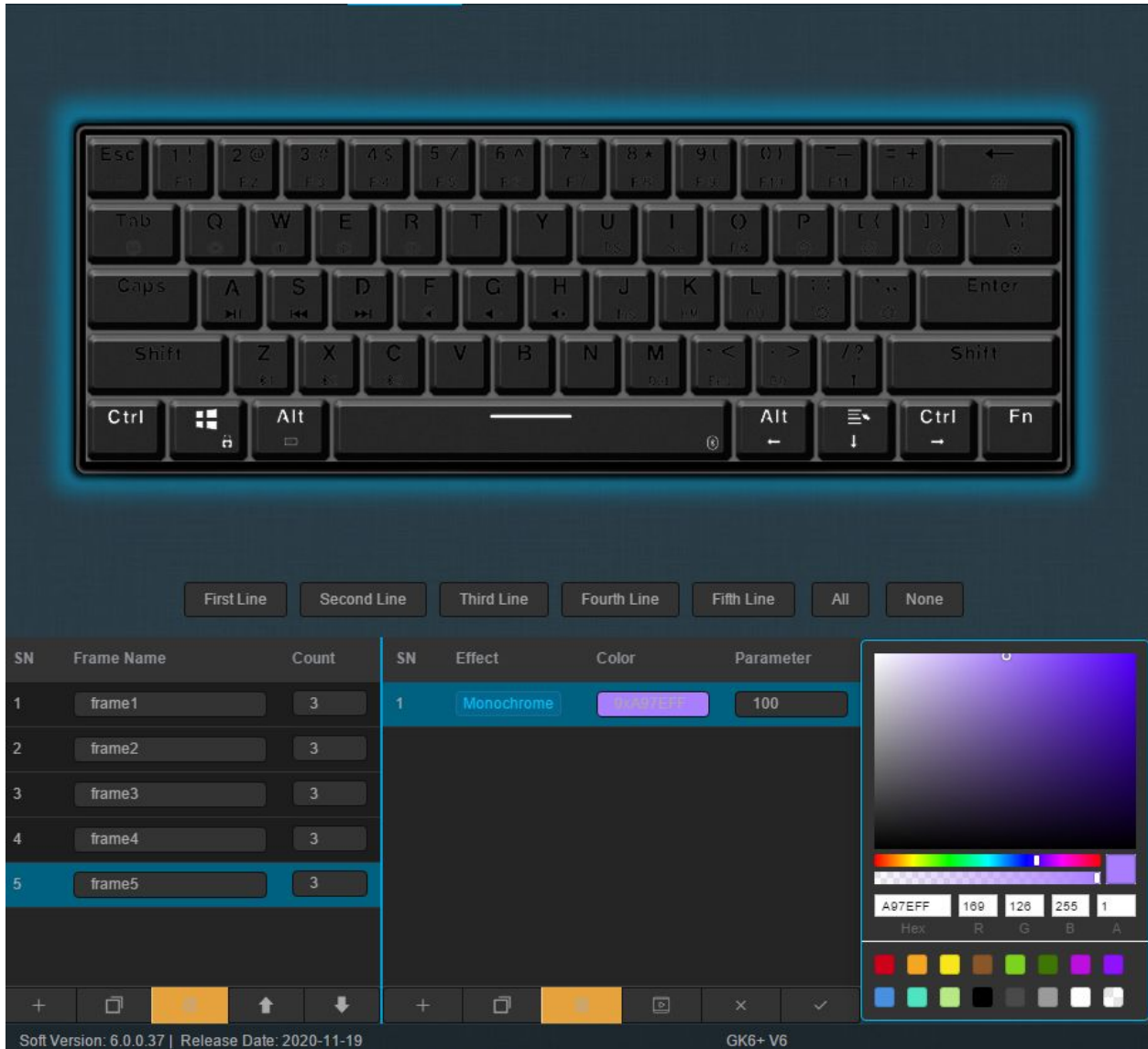


5. We create our next frame and then rename it, we want to then select how long the frame is going to last by using the "count" variable.

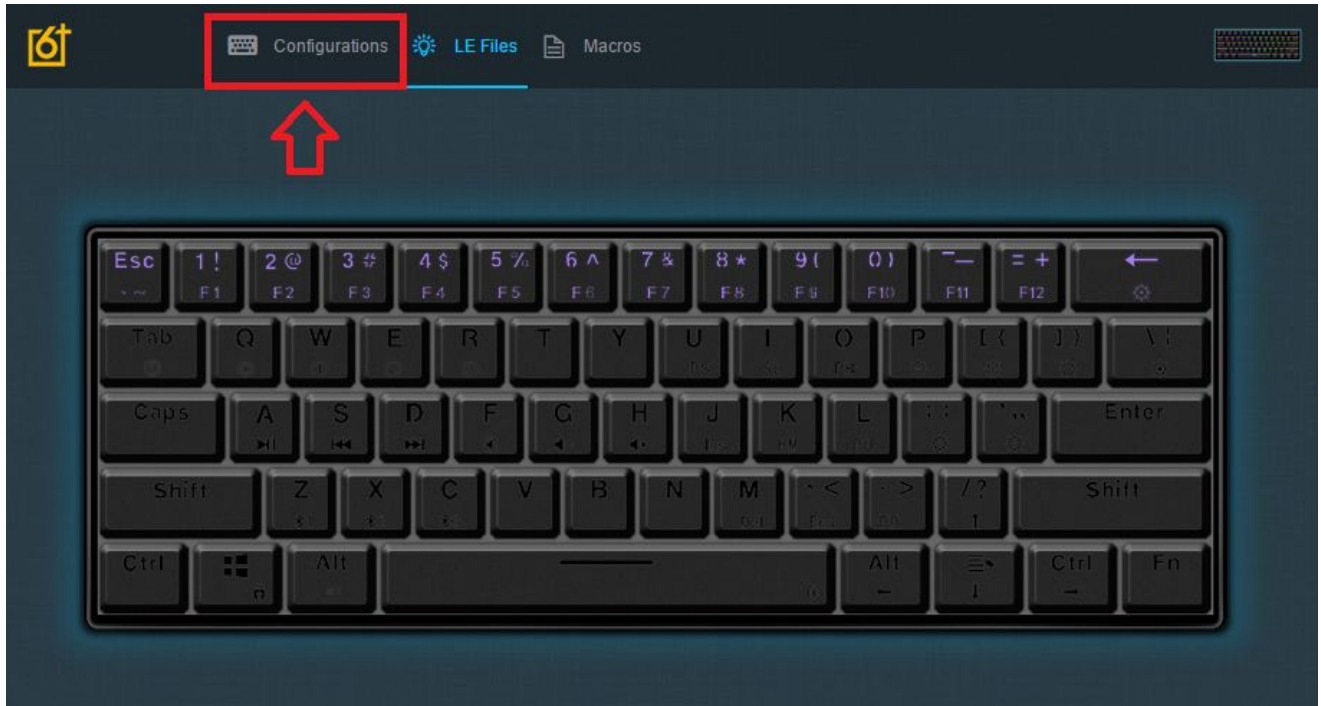




6. Select what the next frame is going to do, since we're going to be lighting up the rows on the keyboard sequentially, we're then going to make a new frame, rename it, then select the fourth line, make a new frame, assign it to the fifth line and so on.



7. By the end you should have the frames you want, you want to click the tick button to save the configuration to your lighting file. This can then be used on your keyboard.



8. Go back to the configuration file to enable your new lighting effect on your keyboard.

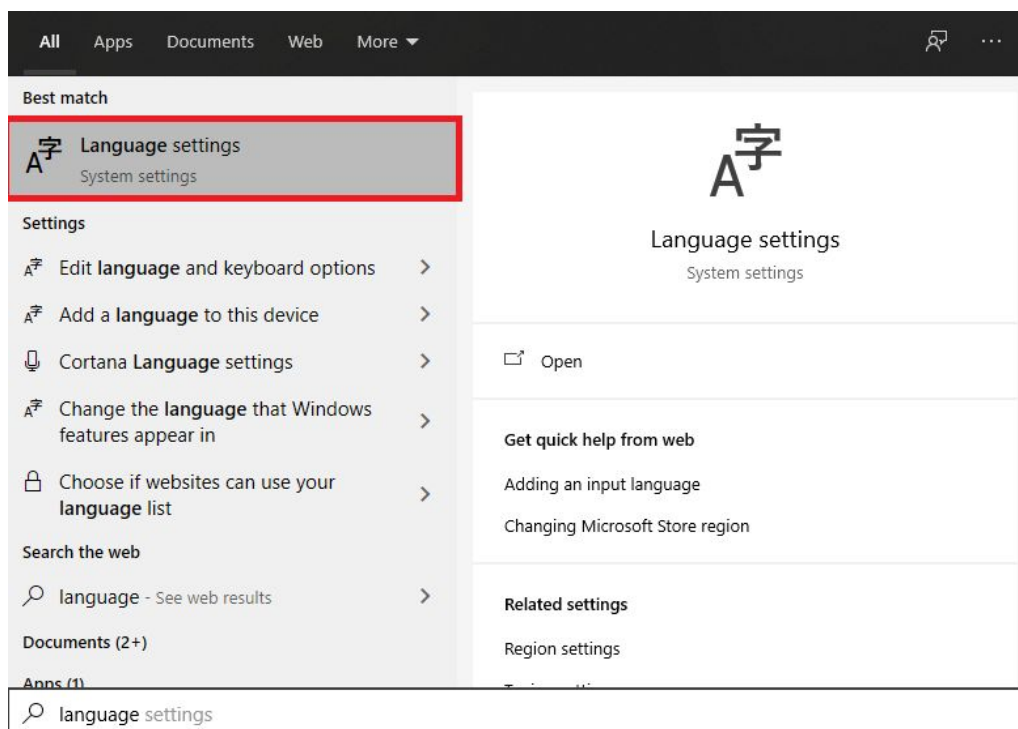
# Layout Section

The layout section is here to help people understand how to remap keys, edit their language settings and also set up a Mac layout, restore to default settings, and also understand what the different layers are and how they work.

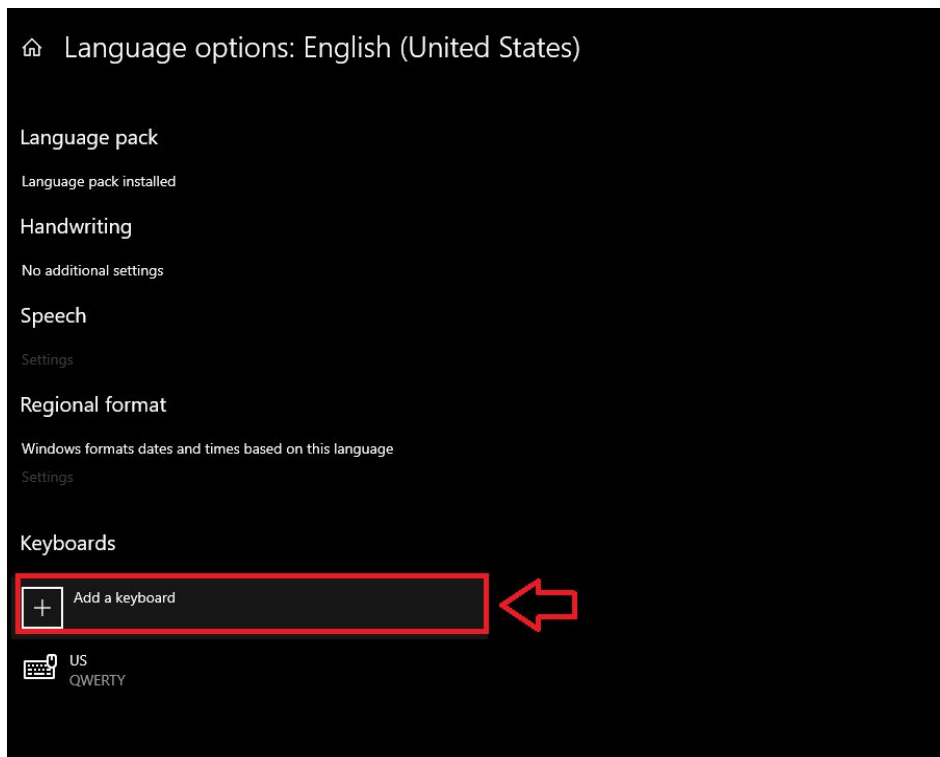
## Changing Keyboard Language Settings

This will help people who use different layouts than the typical US layout. You will need to order separate language keycaps that support your layout, however.

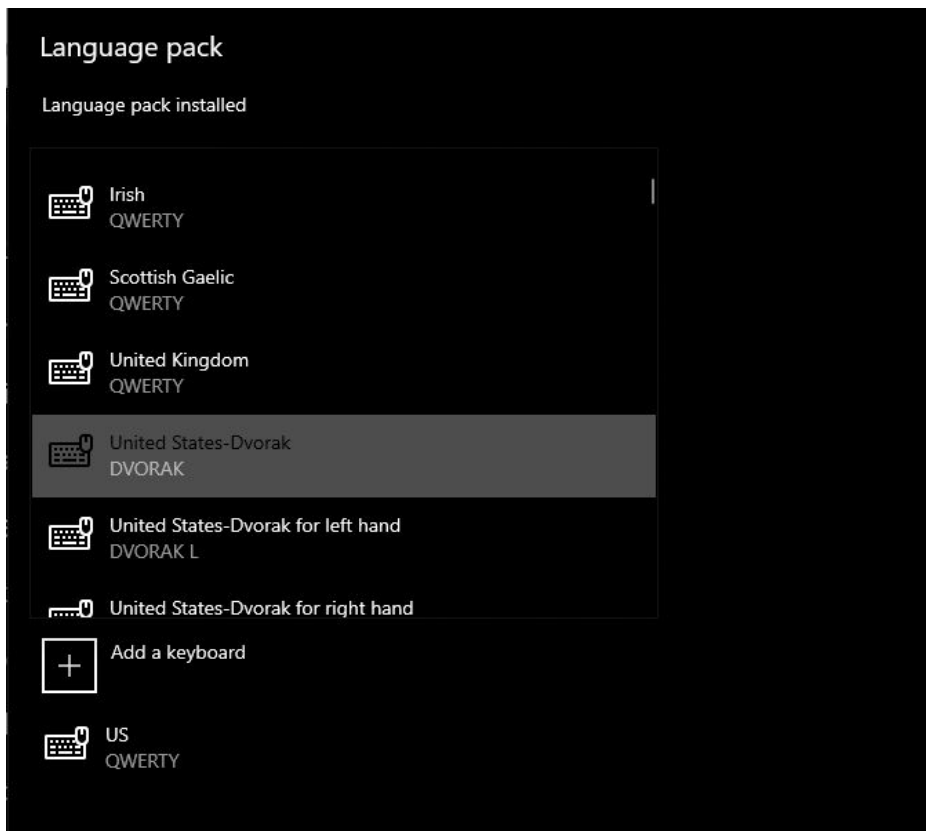
### Windows



1. Start by pressing your Windows key and searching “Language Settings”
2. Select your default language and click options. This section is for configuring your keyboard layout. In this case, I will change to the United States-Dvorak



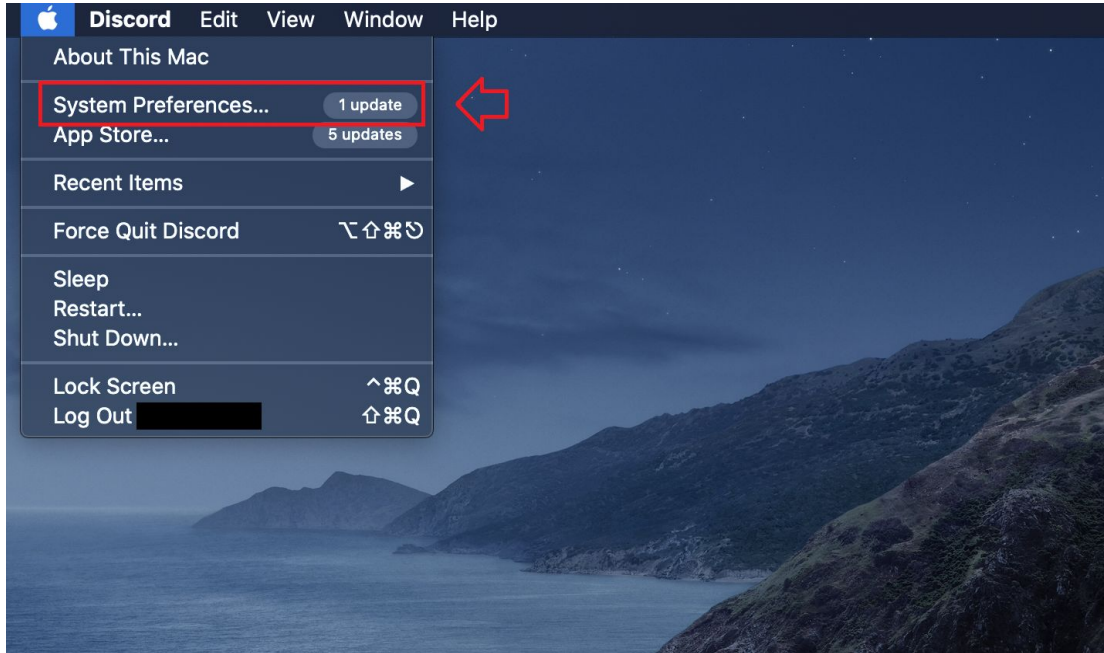
3. Click the “Add a keyboard” button



4. Select your desired keyboard layout from this section. You can then change between these layouts using **Win + Space**.

## MacOS

In this case, we will be adding the Dvorak layout to our MacOS keyboard preferences. This Mac is running MacOS Catalina.

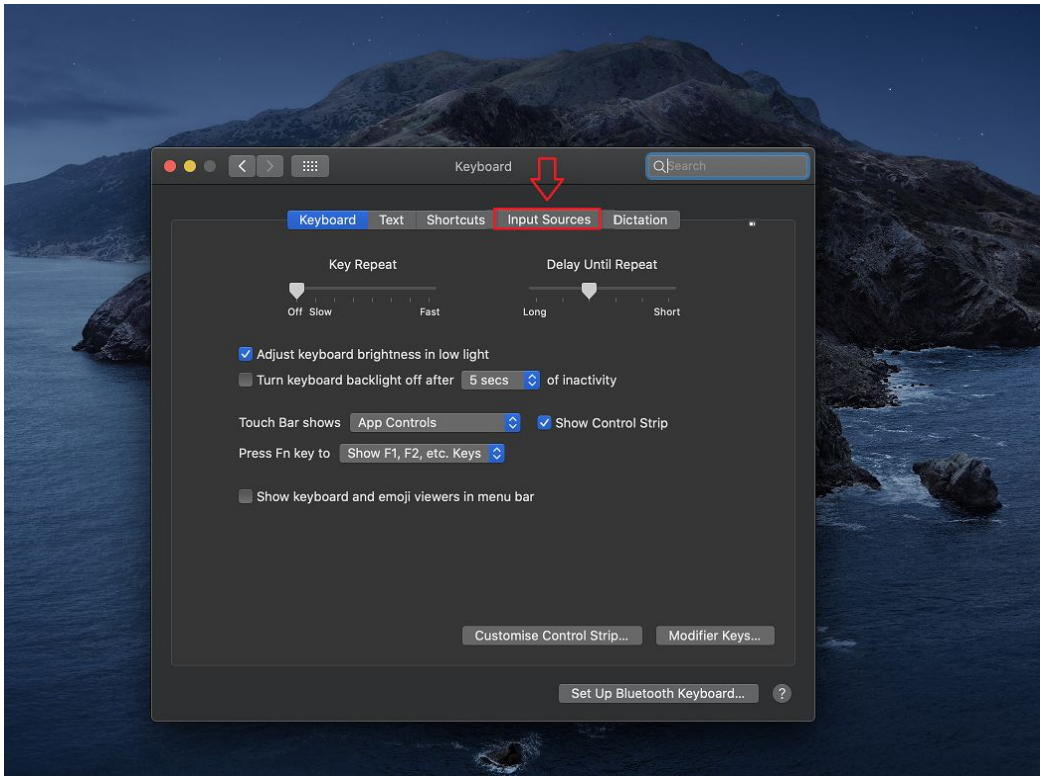


1. Go to the Apple Main Menu, and select “System Preferences”

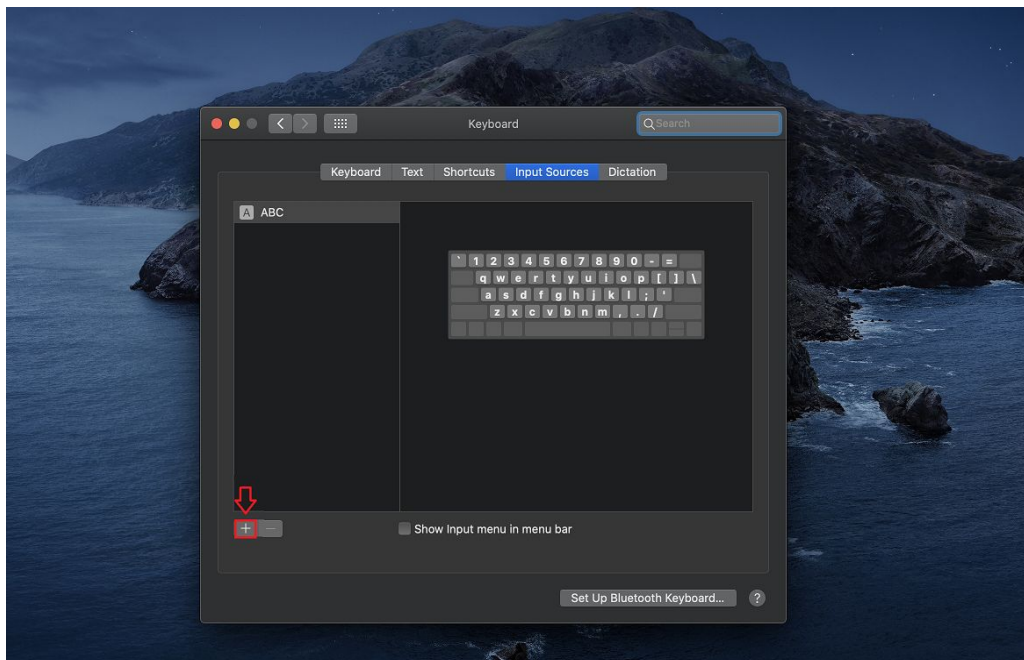




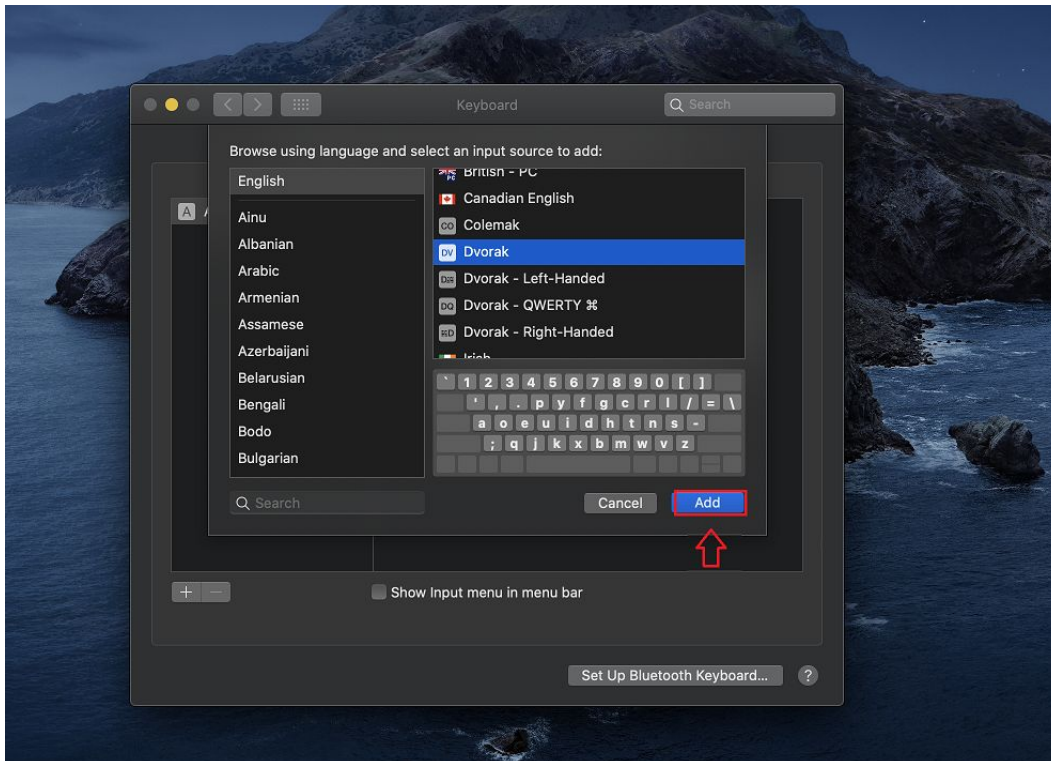
- When you are at the System Preferences screen, select “Keyboard”.



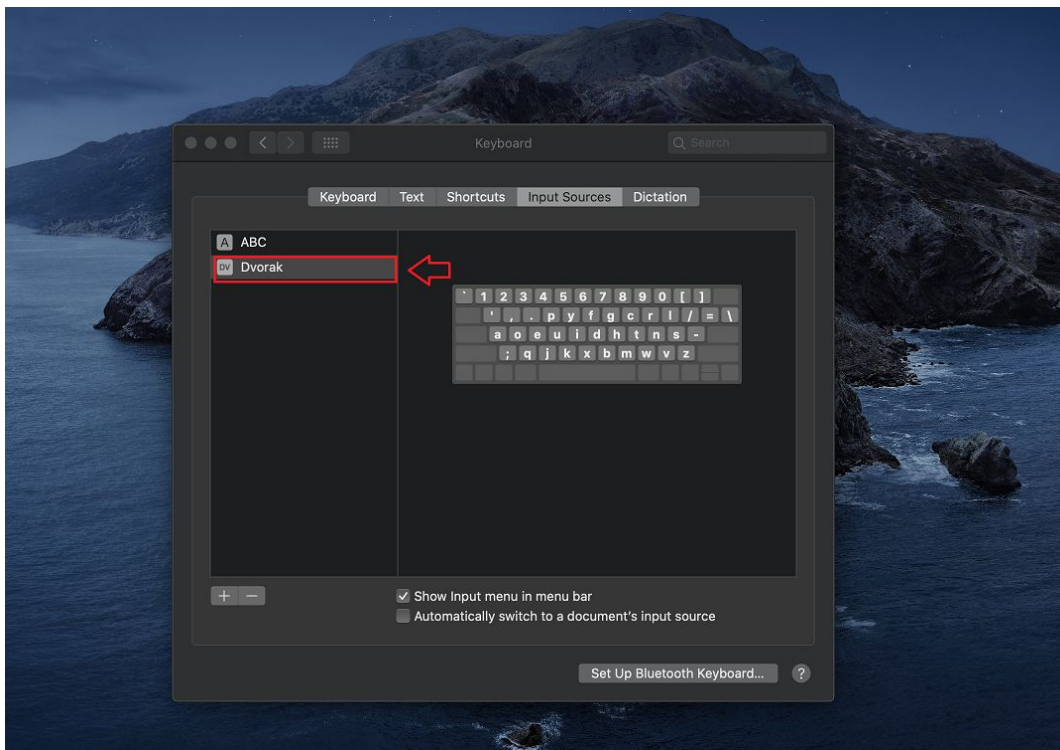
- Select “Input Sources” when you are at the Keyboard settings.



- Select the “+” Symbol to add a keyboard input



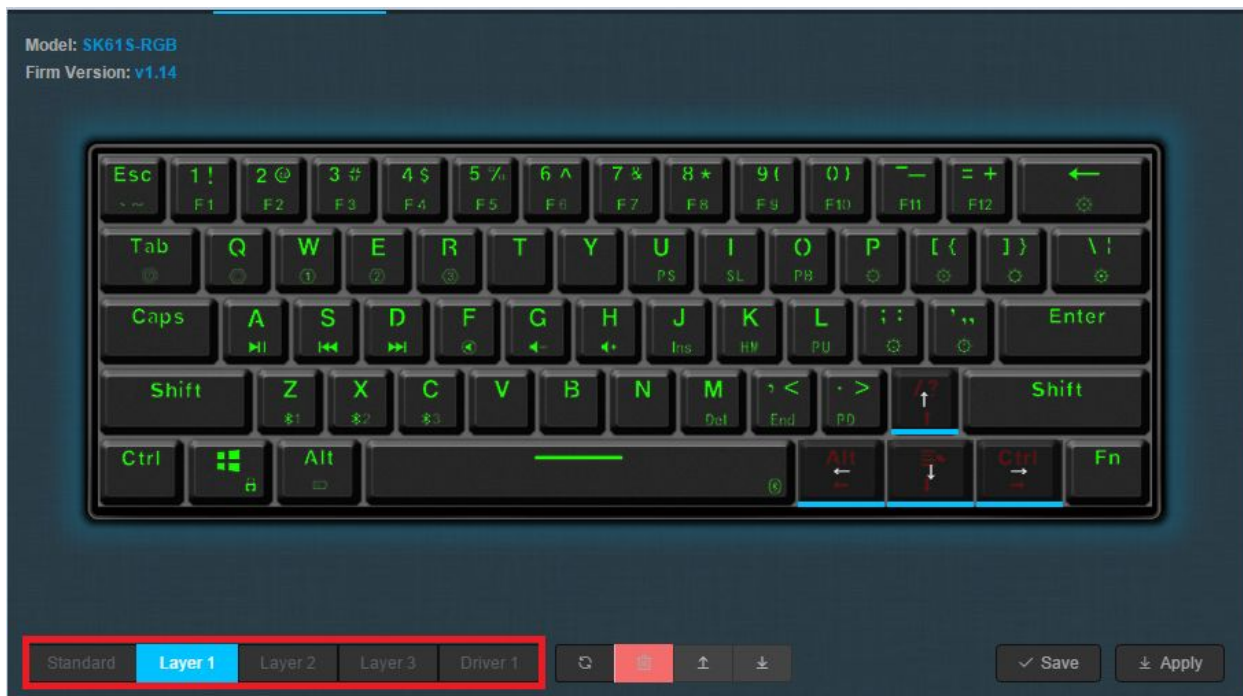
5. Select the “Add” button when you find the keyboard layout you want.



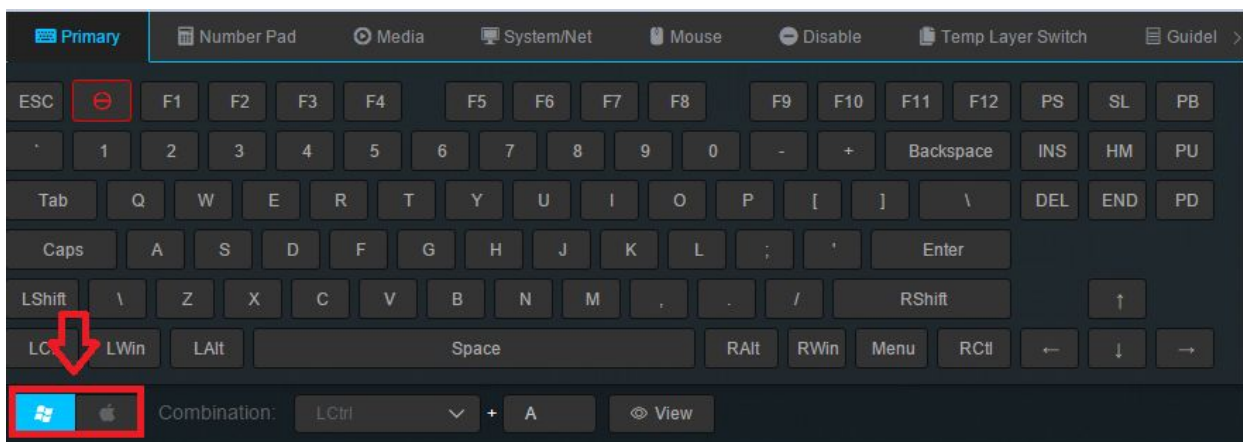
6. Select the keyboard layout you just decided to use - in this case we selected Dvorak.

## Remapping A Single Key

We will be remapping the “S” key to the Backspace key to show how it works.

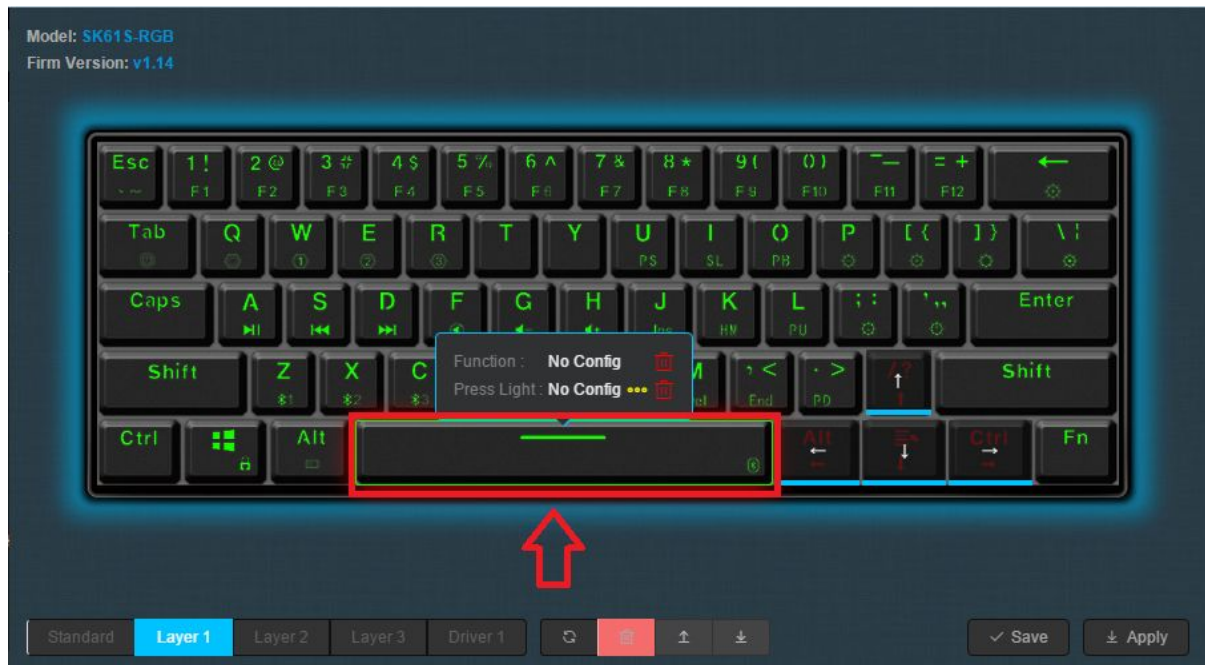


1. Select the layer you would like the button to be mapped to. In driver mode, the layer will only work when the keyboard is in wired mode, but the Driver Layer will not work on MacOS. Layer is for MacOS, however, and is an onboard Layer. Standard layer can not be remapped.

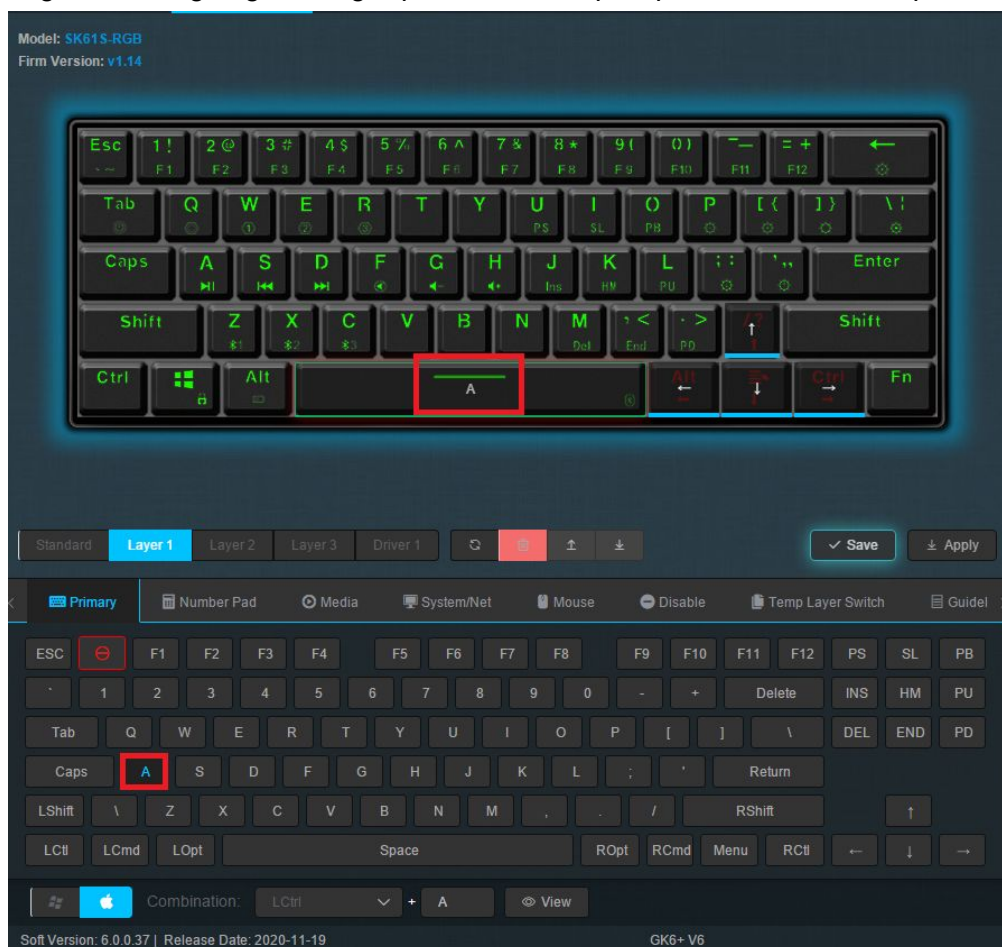


2. Make sure that you're on the proper layout for your Operating System. Press either the Windows or MacOS layout. If you're on Linux, you want to also stick with the Windows layout.





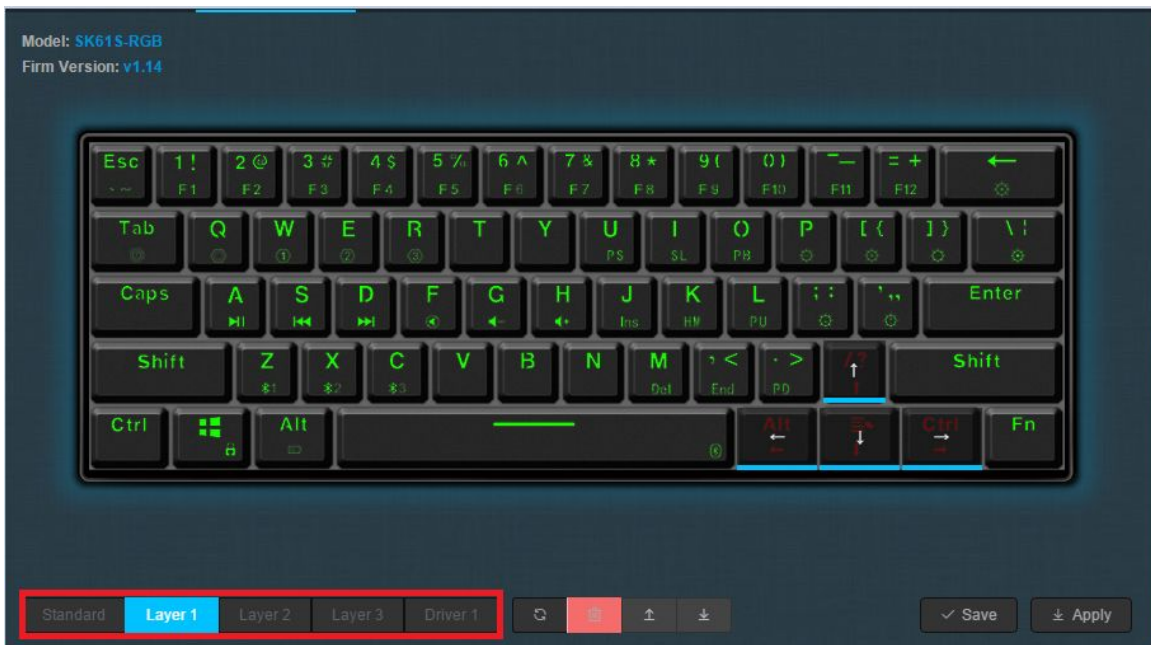
3. Press the key on the animated keyboard that you would like to edit. In this case, We are going to be assigning the larger portion of the split spacebar as a Backspace button.



4. Press the key that you would like to assign to the keyboard, in this case, we are assigning the Backspace. You will then see the button flash with the name of the key you just assigned.
5. Press Save, and then Apply.

## Remapping A Key Combination

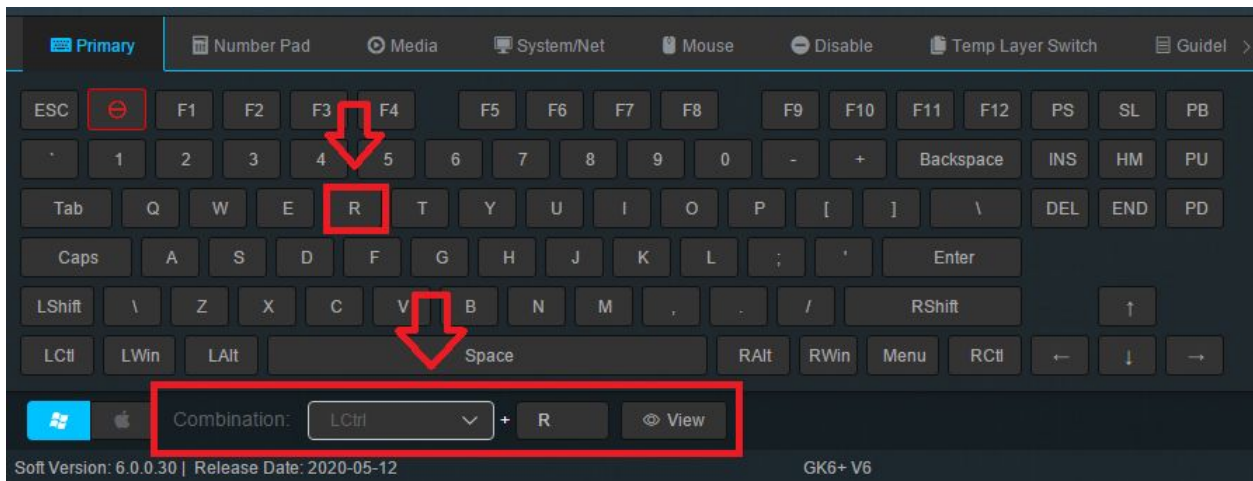
If you want to make a keyboard combination of your layout, you can do this to have more if you want to have more functionality on your board. In this case, we're going to map LCtrl + R to our Spacebar.



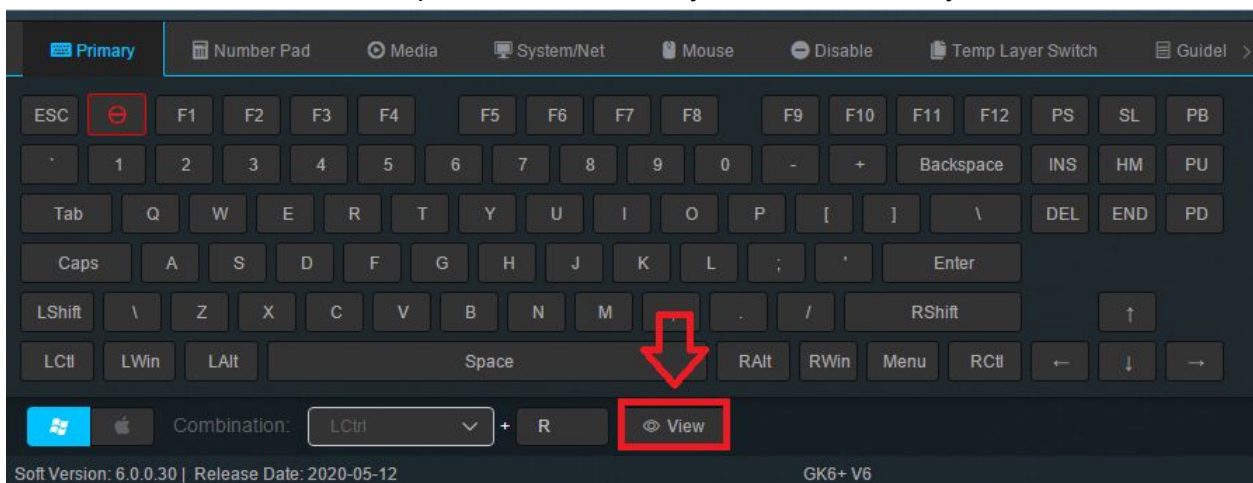
1. Select your layer, in this case, we are going to be adding our Key Combination to Driver



2. Press the key on the animated keyboard that you would like to edit. In this case, We are going to be assigning the larger portion of the split spacebar as the combination **LCtrl + R**.



3. Select from this section what combination you would like to do. You need to select a main button from the dropdown and then a key from the virtual keyboard.

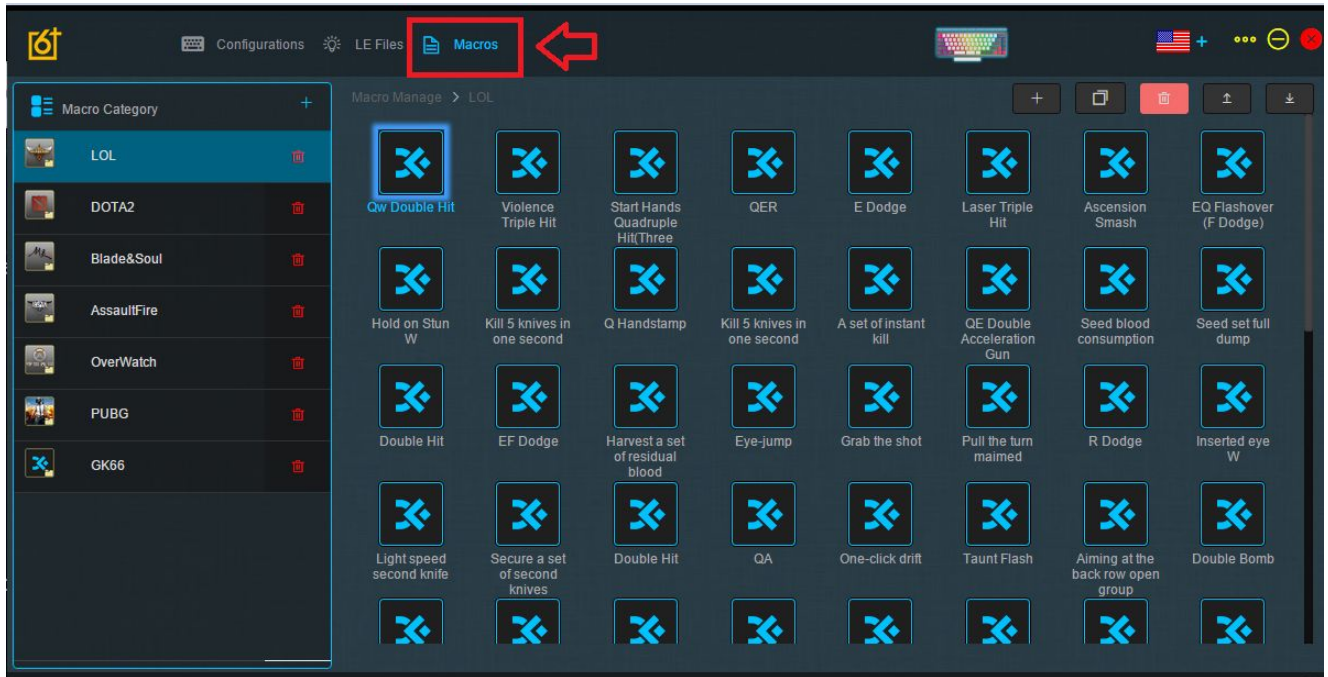


4. Click View from the Combination Section, then Save and Apply.

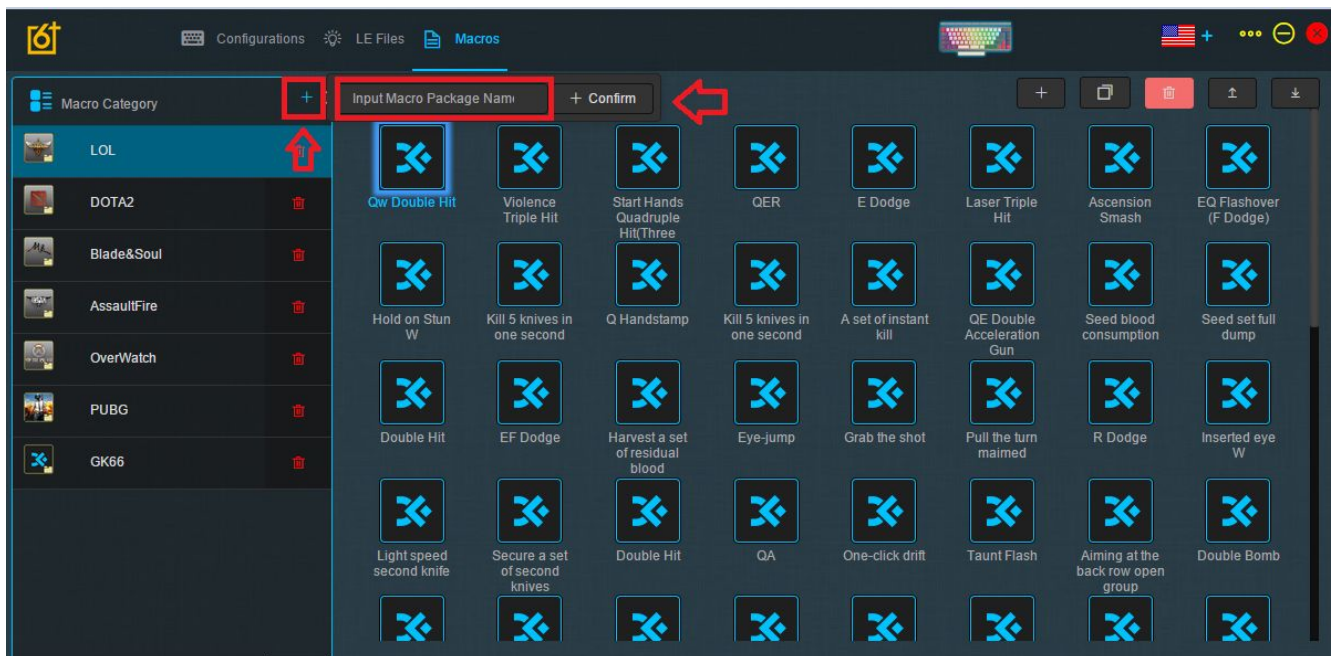


# Macro Tutorial

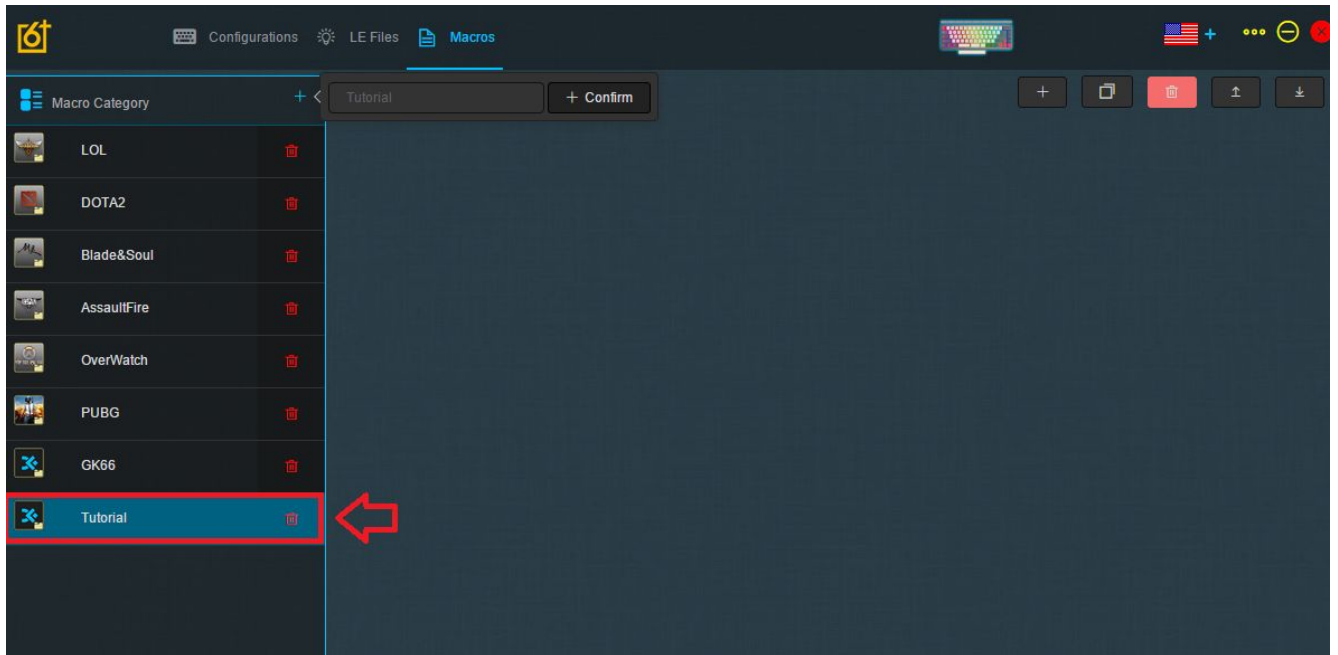
## Creating a New Macro Category



1. Press the “Macros” tab at the top of the navigation bar to get to the Macro creator

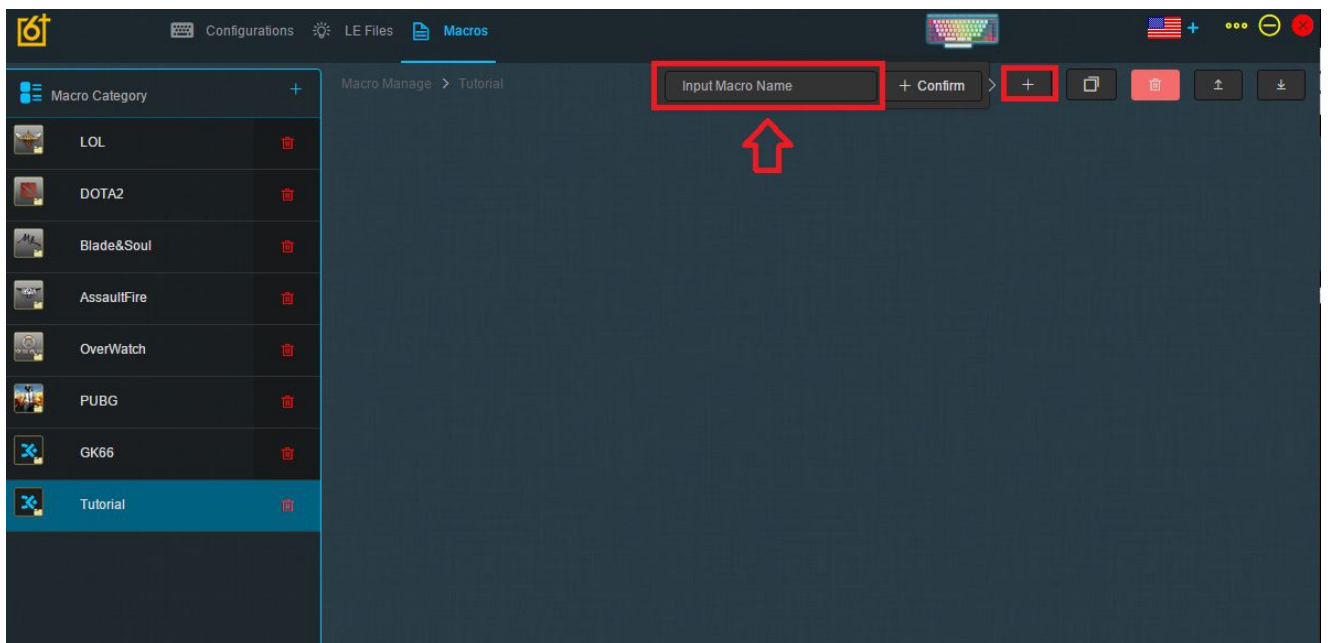


2. Select the Plus Button by the Macro Category tag and give it a name. Then click confirm.

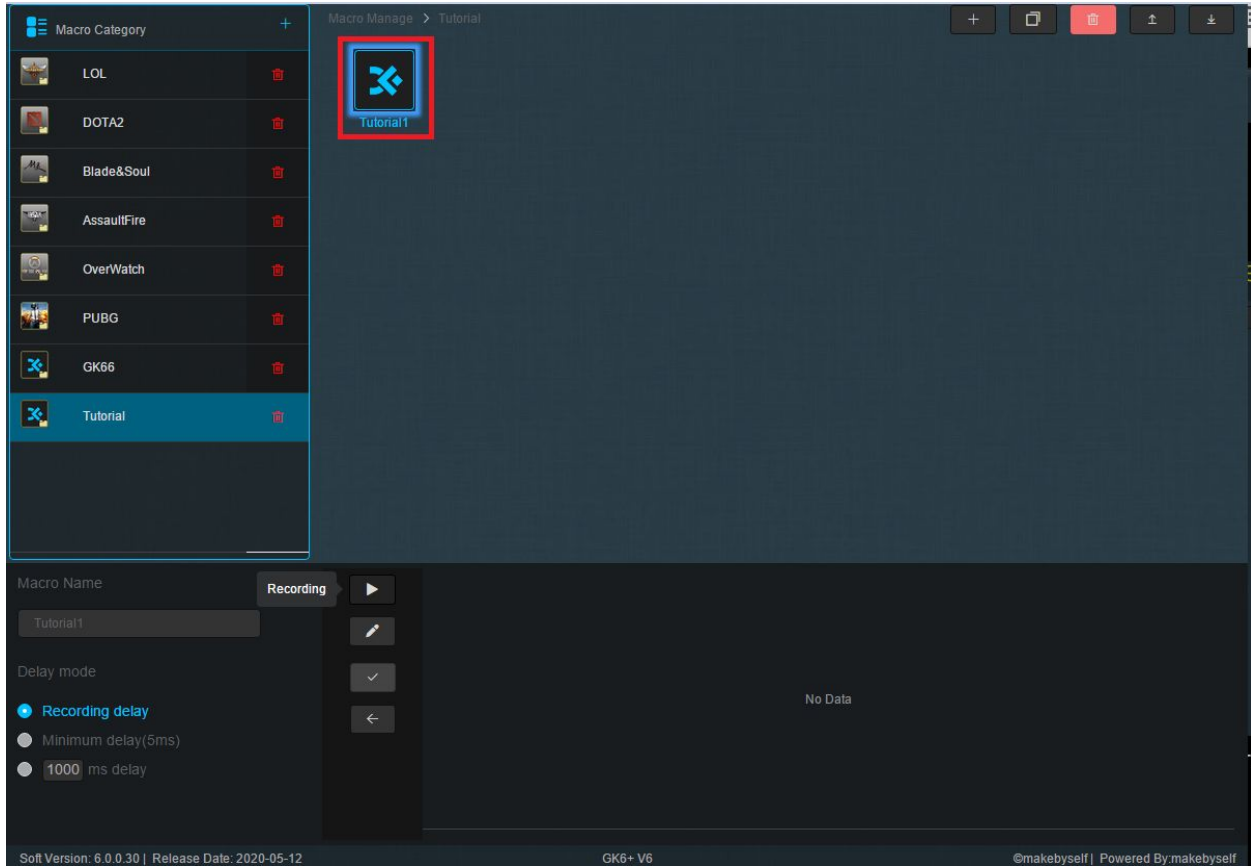


You will now see your Macro Category.

## Creating a Macro

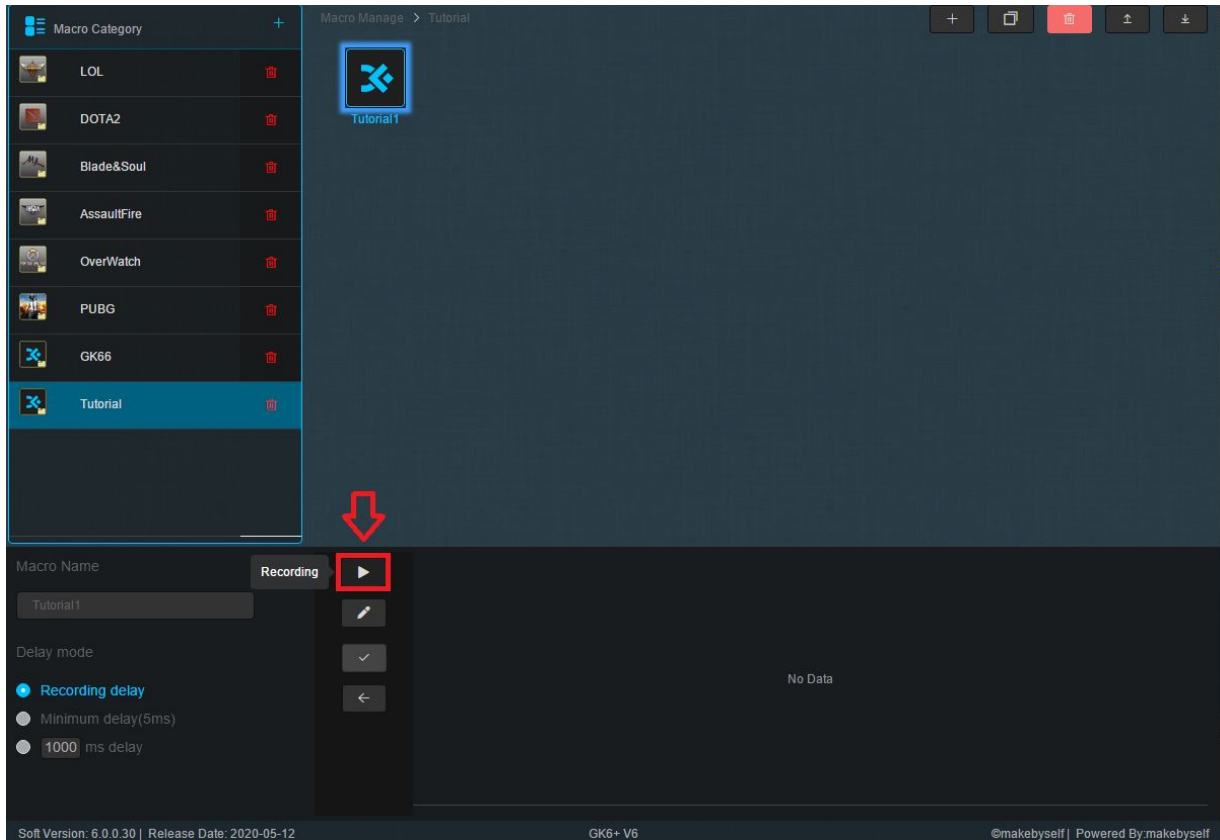


1. Click the “+” Button the the left and enter your desired Macro name, then press Confirm.

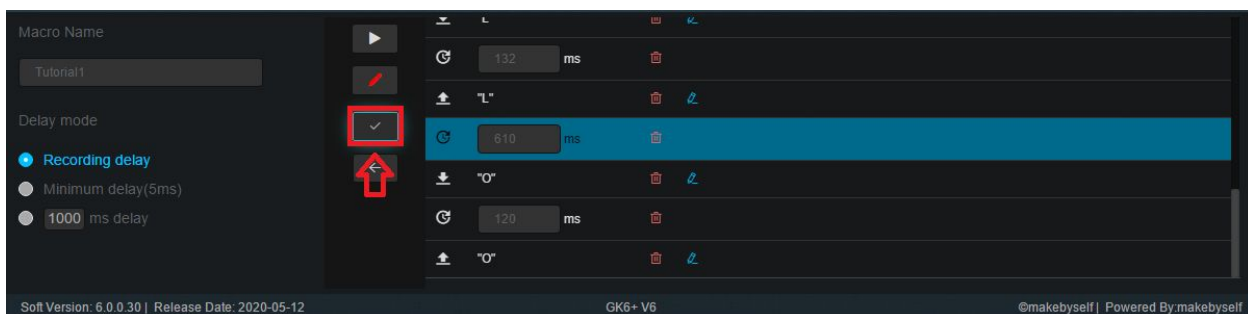


2. You will now see the Macro appear in your selected Macro Category.

## Recording a Macro

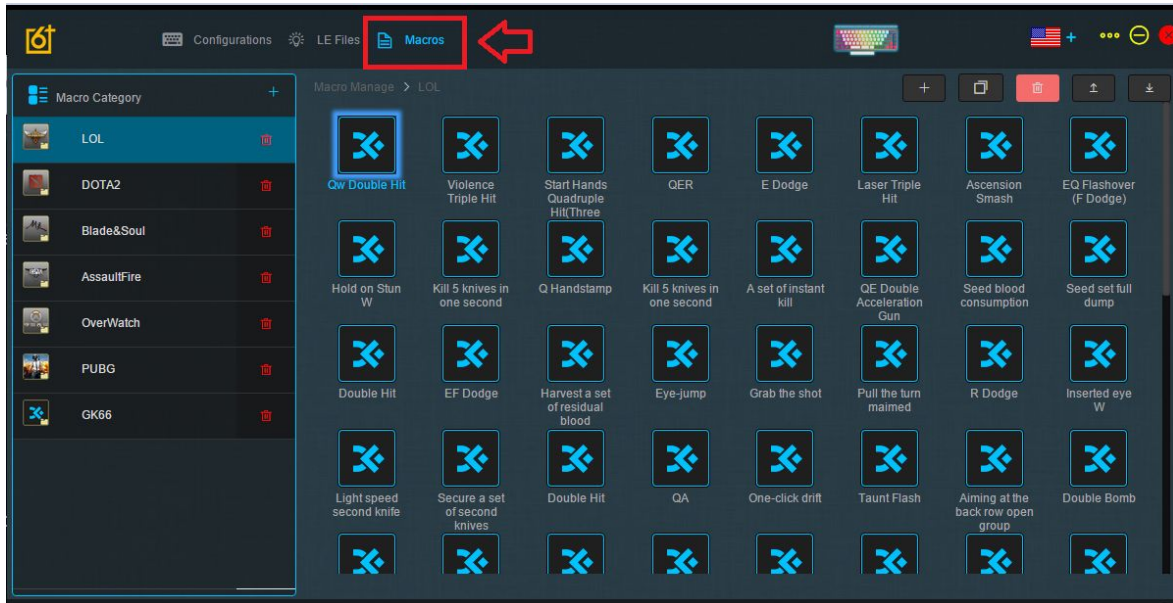


1. Click the Recording setting, this will then listen to key pressed and save them to your macro.

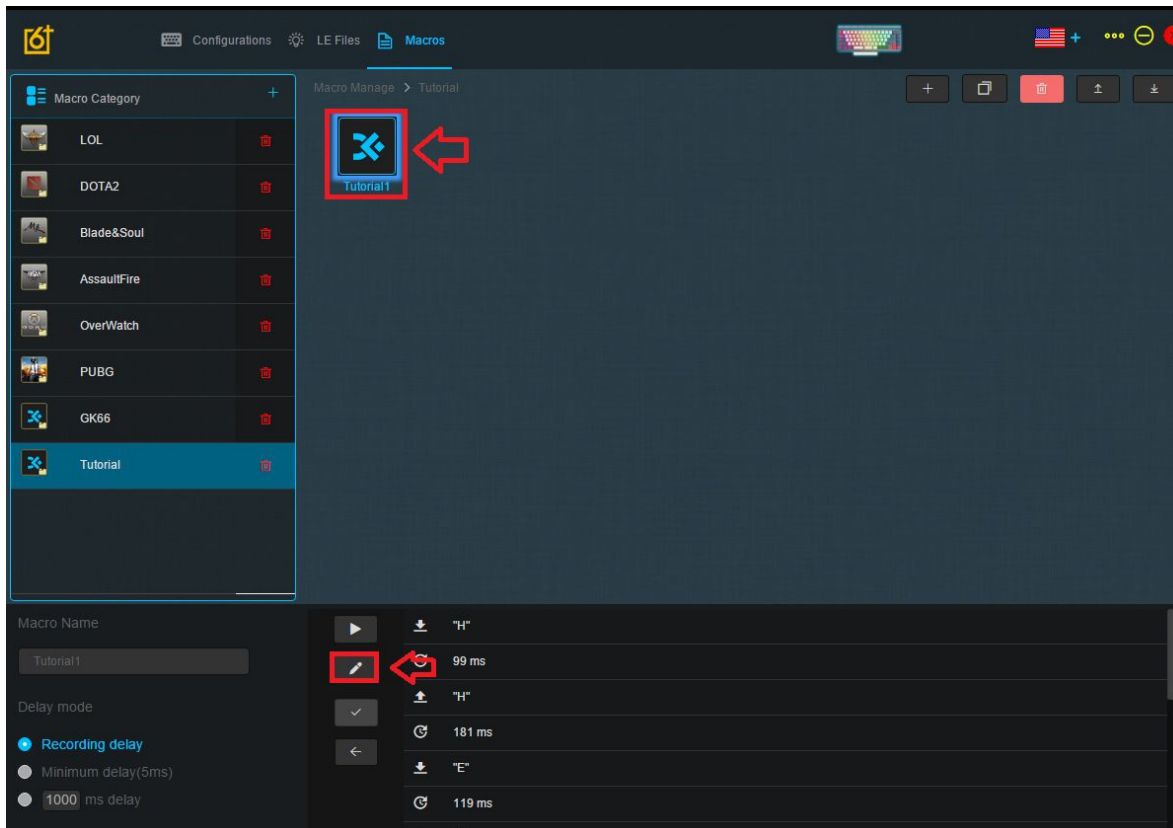


2. Record your keypresses. In this case, we recorded the key presses "H E L L O". You can then click the tick and it will confirm your macro selection.

## Editing a Macro



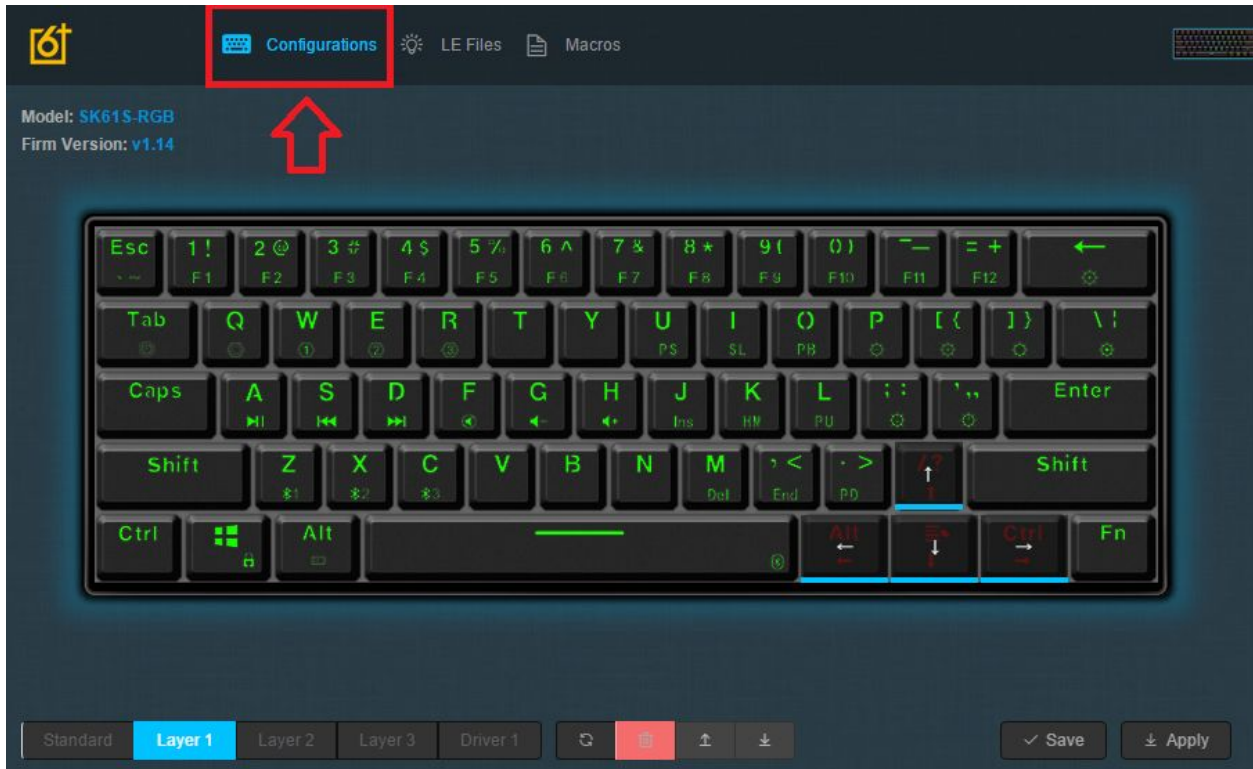
1. Press the “Macros” tab at the top of the navigation bar to get to the Macro creator



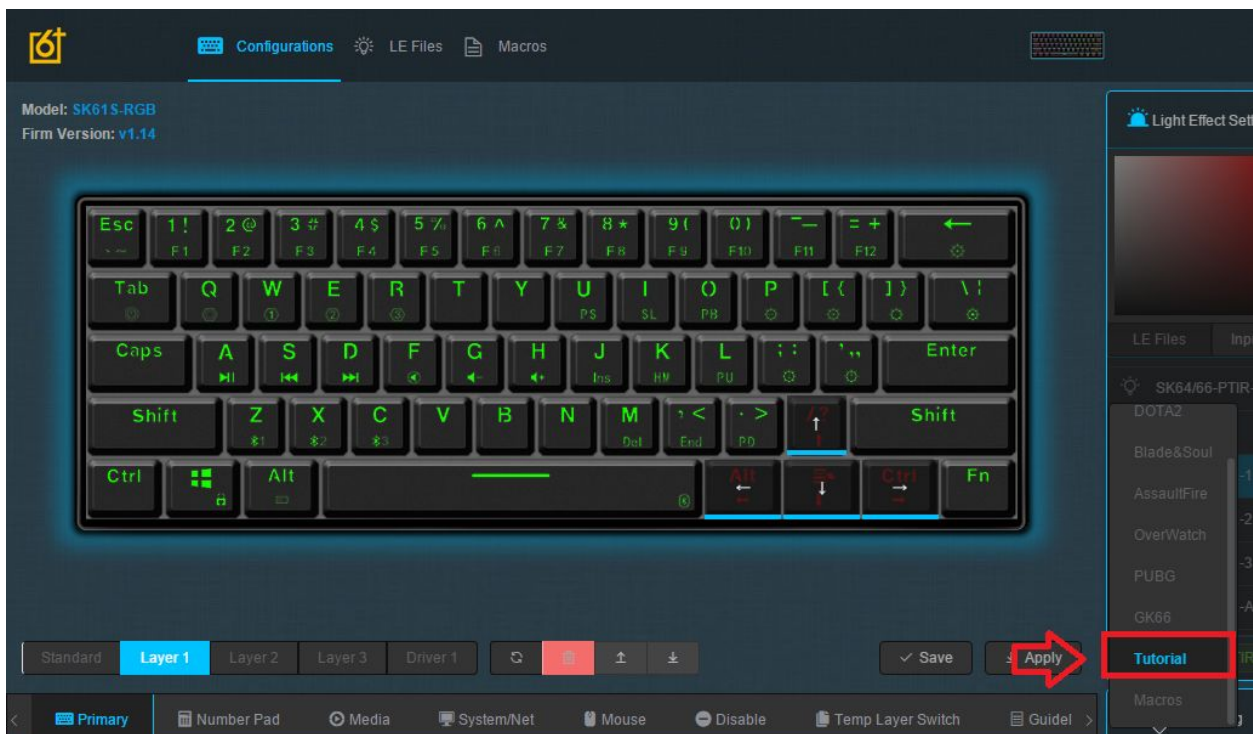
2. Click the Macro you would like to edit, and click the pencil icon.



## Assigning A Macro To A Key

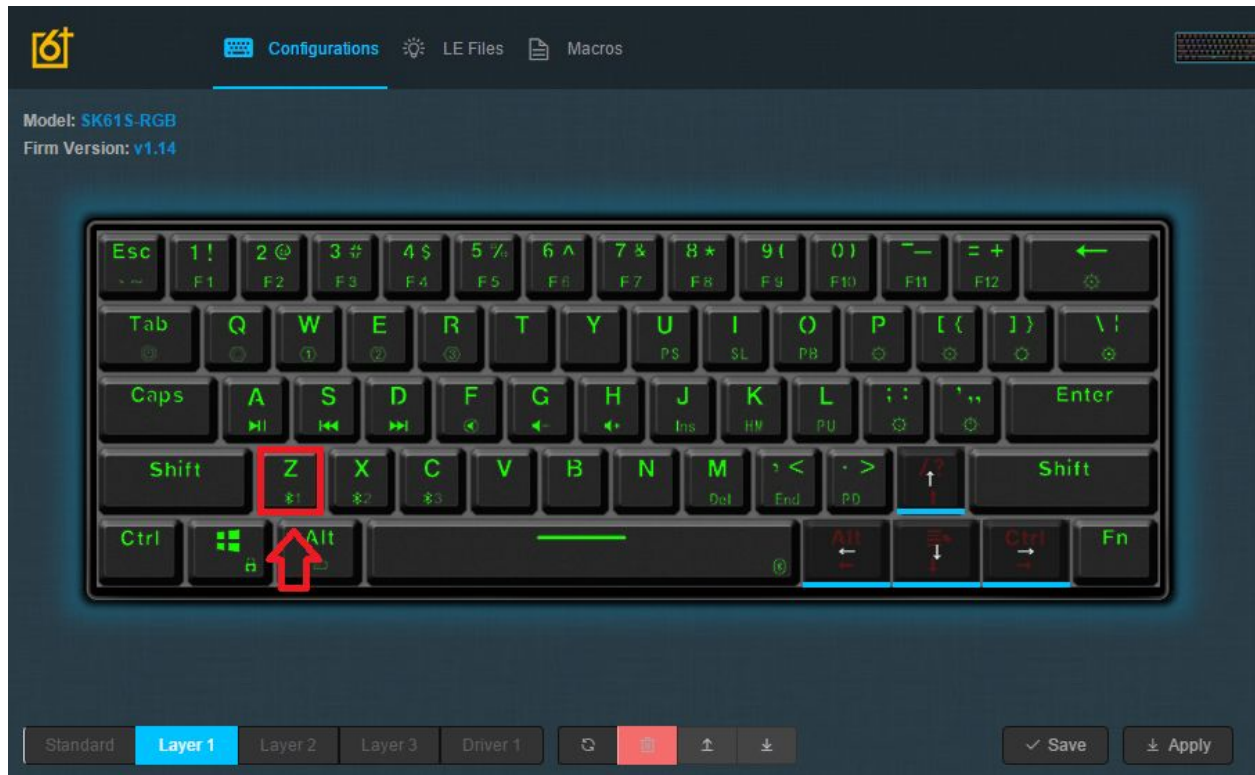


1. Head to the configuration tab in the software.

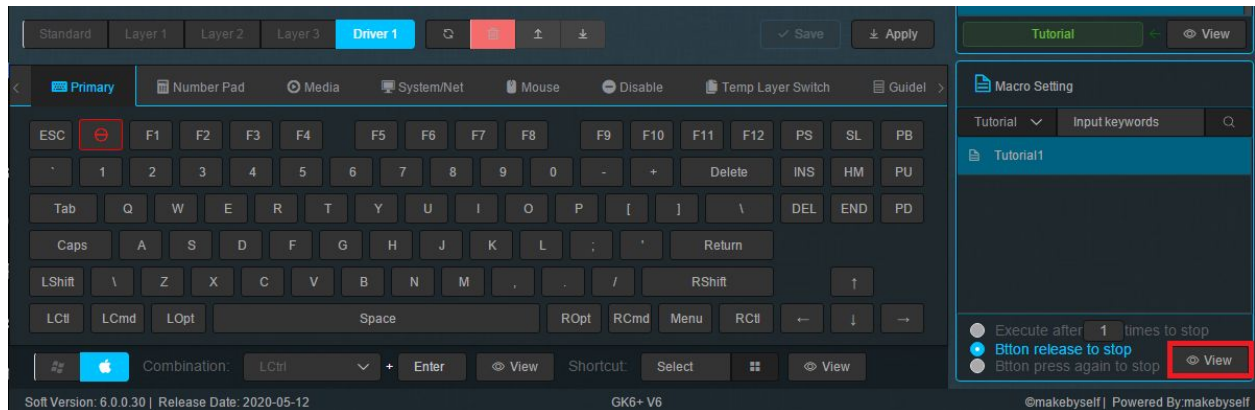


2. Head to the Macro section on the right and select the dropdown, in this section you will see the category you created.





3. You will see the macro you created, press on the macro, and then press on the key you would like to use it with, in this case we will run the macro on the Z key.



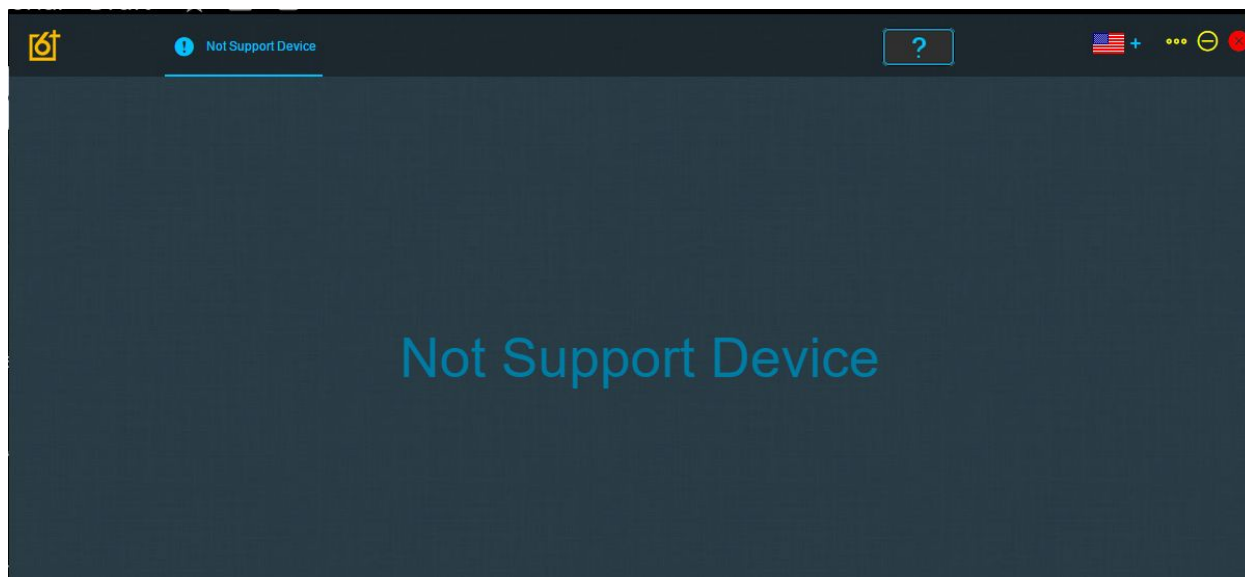
4. After selecting the key and the macro, click view and you will see the macros name flashing on the key.
5. Click Save and Apply.

# Troubleshooting

## Frequently Asked Questions

This section will answer some general questions that I have seen coming up in support threads and on the Discord. You can contact us via [support@epomaker.com](mailto:support@epomaker.com) if you're still having issues

### I see “Not Support Device”



In this circumstance, there could be a few things to look into to figure out why the computer isn't detecting the keyboard.

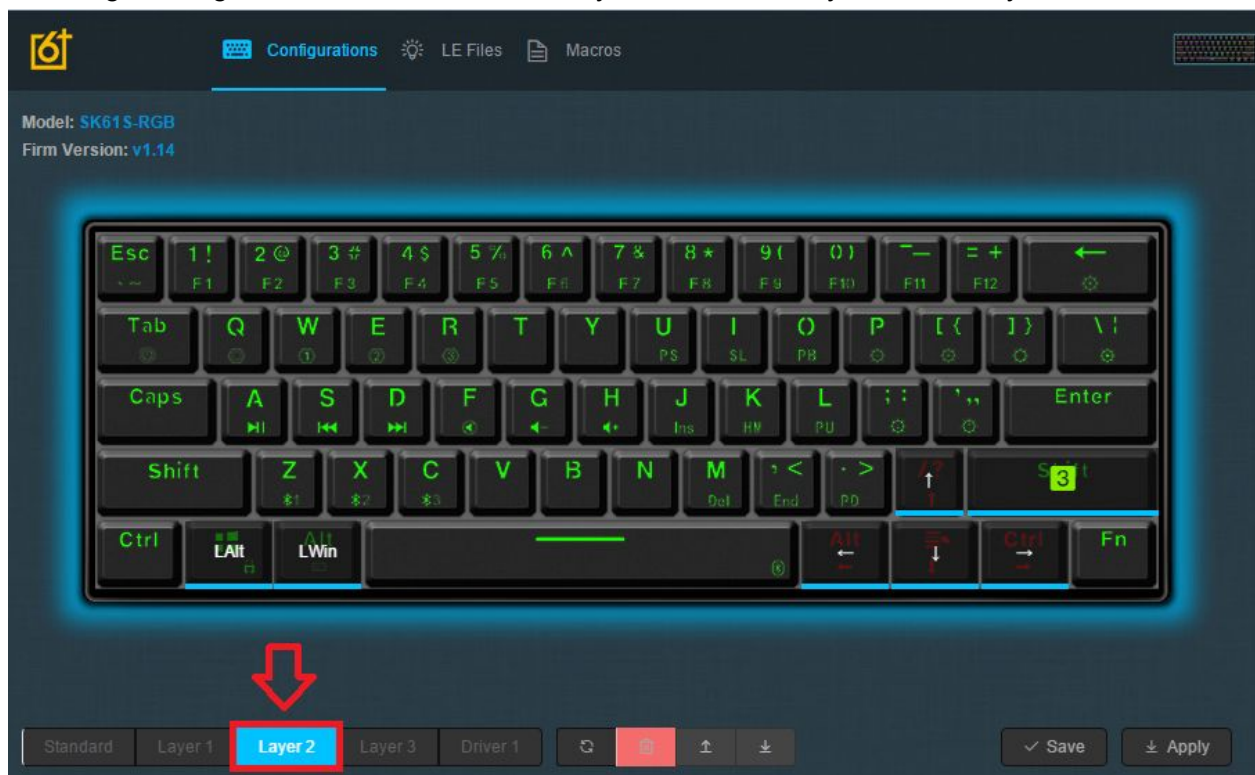
1. Please check that you are plugging the device into a USB-A to USB-C with the **given cable**. This means that the keyboard DOES NOT directly support USB-C to USB-C connections or other connections such as PS/2. You can overcome this by using a dongle to connect to a Mac, but we can't ensure that a third party dongle will be supported.
2. If you see this try to reinstall the software, and then restart your computer and reinstall it again.
3. Try another USB-A port on the device, and if possible, try connecting it to another device to try and see if its a computer hardware issue or a problem with the keyboard itself.
4. Please try to use the following version of the software:  
<http://cloudmouse.oss-cn-beijing.aliyuncs.com/AppData/41/GK6XPlus%20Driver6.0.0.38.exe>

## Combination of the FN key + Another key

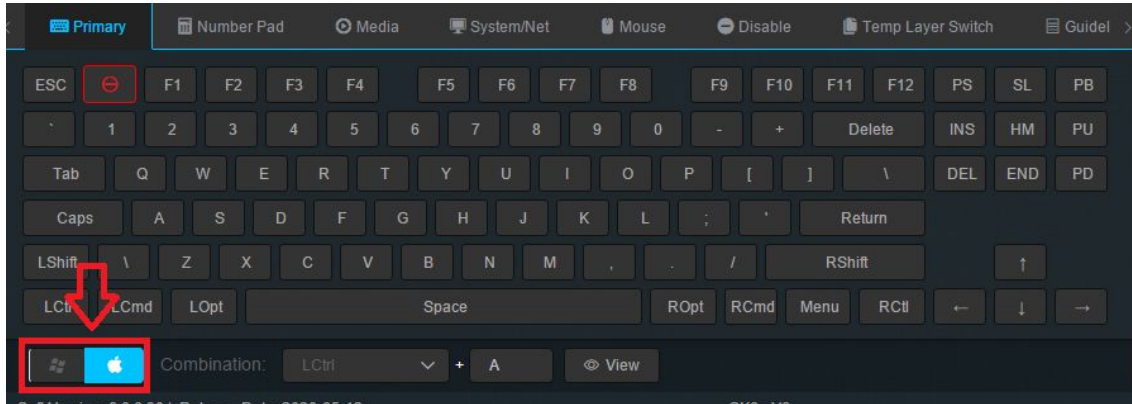
You cannot use the FN key to make combinations with other keys. The keys that are currently available to use as the base key for a combination include but are not limited to: LCtrl, LShift, LAlt, LCtrl + LShift, RCtrl + RAlt and so on. But the software uses the FN key for a bunch of combinations that are pre-defined so it is not available.

## My Mac Delete key is not working

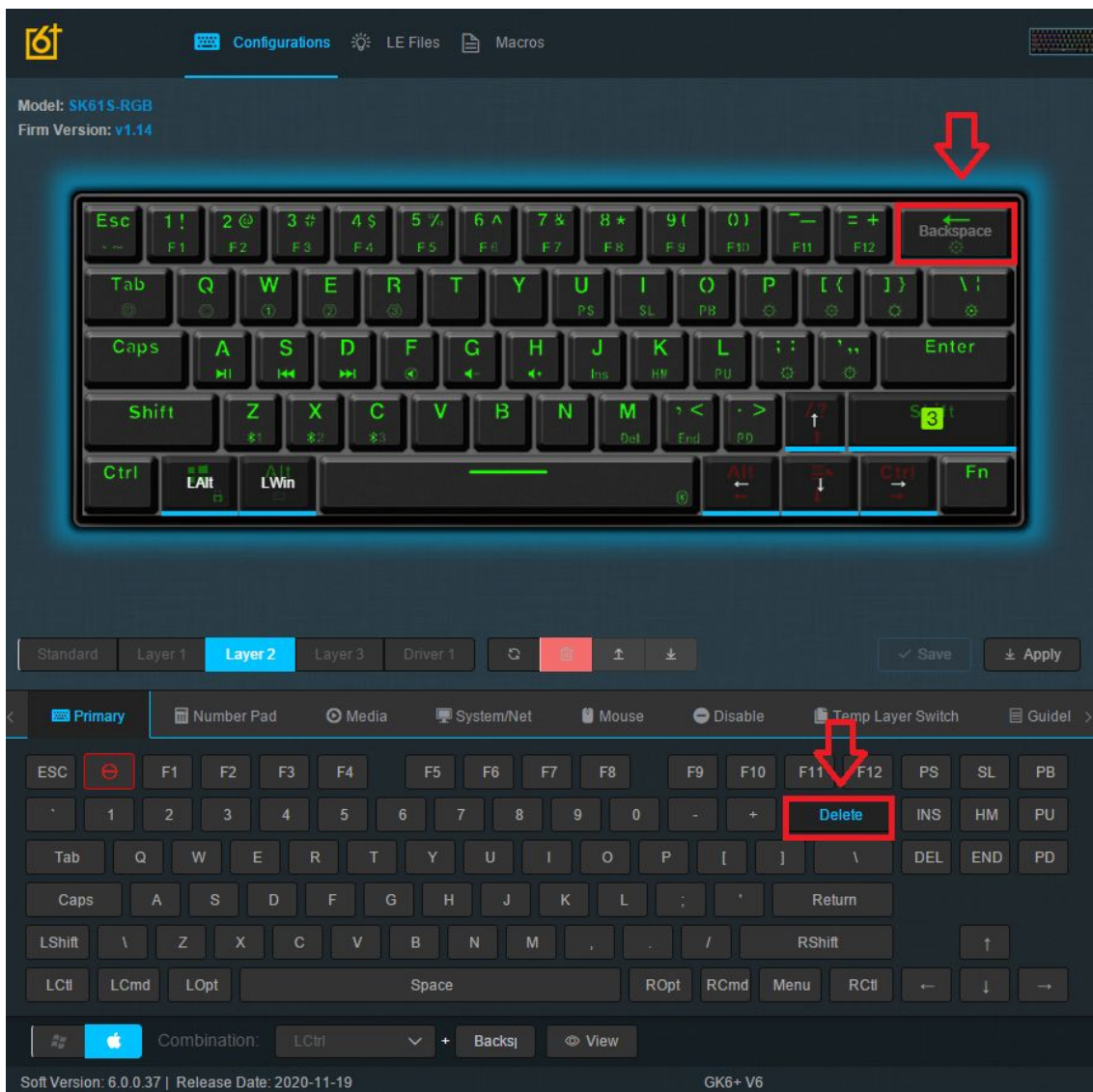
On MacOS, the “Delete” key is used as the Backspace Key. In this case, you need to make sure that your backspace isn’t binded to the Windows backspace because your Mac will not detect it. We will go through how to make the delete key binded in the Layer 2 “Mac Layer” to fix this.



1. Select Layer 2 for the MacOS layer. Here, you will see that the Command and Option keys are swapped the right way around by default.



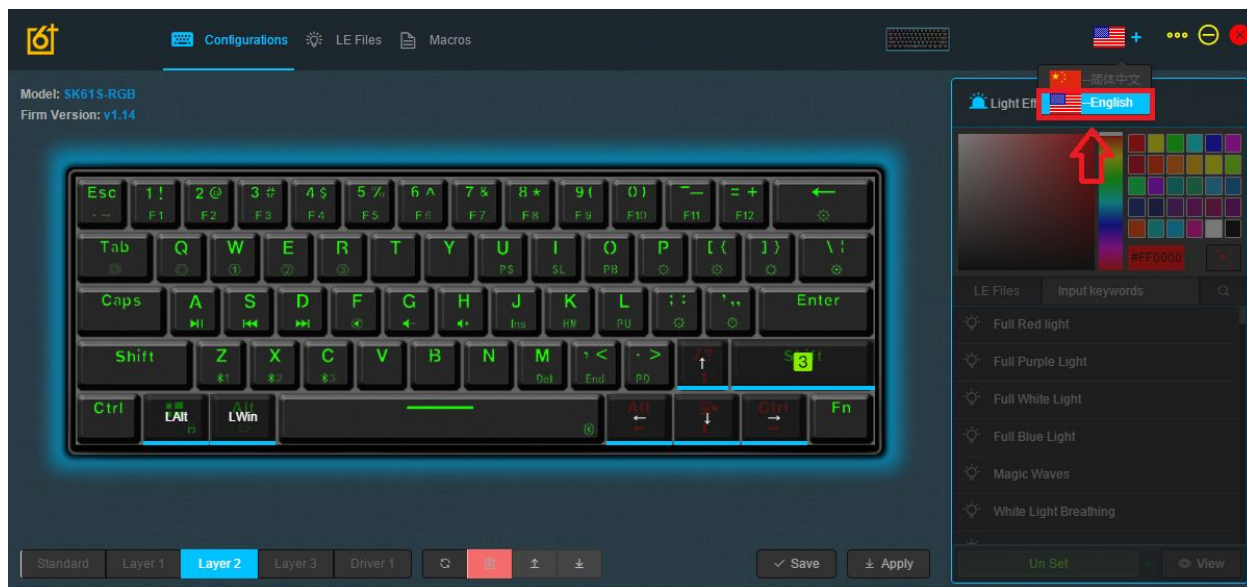
1. Select the Apple mode of keyboard from the selection. Here, you should see the familiar layout for MacOS.



2. Select the Delete key in the keyboard, you should see it flashing on the animated keyboard that you binded it.

3. Press Save, Then Apply.

## My GK6X Plus Driver is in Chinese



Sometimes, when the driver is launched, it will display in the default language which is Chinese. In this case, we can change it easily by going to the flag in the top right of the software and changing it to English.

## I can't seem to press anything on my MacOS screen

Your device possibly has too small of a display or too small of a resolution that results in the software being too zoomed in. In this case, you can try changing your default browser, zooming out or connecting a larger monitor.

## My Keyboard is not showing up in my Bluetooth

You need to make sure that when you're pressing for it to pair that you hold down the combinations and make sure they flash a red-green. This means that the device is in pairing mode. It should not just flash the standard "Blue" or it means it's trying to pair to a device it already has previously, or has timed out on trying to connect. You need to make sure the battery is charged using the given cable (Please do not try to charge with USB-C to USB-C. It will NOT work). Moreover, make sure your device is actually wireless - it should either have an "S" at the end of the model or an "XS".



## How do I check my battery and what does the indicator mean?

You can check your battery using **FN + LEFT Alt**.

**The battery indicator works as follows:**

Flashing Red = Low battery, the Bluetooth will possibly not work to save power.

Green-Yellow = Charging, not at a sufficient level

No light = Your battery is at a fine charge or is full.

## My Left-Alt is stuck at an orange-yellow colour

This is the battery indicator, with the levels described above. You just need to press **FN + Left Alt** for it to go back to the colour you have chosen.