# How to flash Swiss to work with VIA (for beginners):

### Step 1:

Go to: https://github.com/qmk/qmk\_toolbox?tab=readme-ov-file

and scroll down until you see download and install the correct version for your operating system.



It doesn't matter if you choose standalone or installer. Standalone just downloads the exe directly and installer installs it like any other program.

# Step 2:

Open "QMK Toolbox" as an administrator:



# Step 3:

#### Make sure Swiss is plugged in for this step!!!

In the top left select Tools -> Install Drivers... (you need administrator privileges for this step, hence why we ran QMK Toolbox as an administrator)

🖤 QN	1K Toolb	xox				
File	Tools	Help				_
Loci C:\l	FI EI E3	lash EPROM xit DFU	Ctrl+ Ctrl+	-Shift+F Shift+X	ŀ	a.hex
	A	uto-Flash how All D	evices	;		
* - * - * -	к Н	Key Tester HID Console				M32, STM32duino) and RIS( programmer (http://dfu-pr Massdrop Loader (https:/
* _	Ir	nstall Drive	ers	Ctrl+N		p) via bootloadHiD (nttps p) via avrdude (http://no
* _ * _	0	ptions		Ctrl+P	μş	) via Teensy Loader (http ader cli (https://github.
* - * Sup * - * - * -	WB32 U LUFA M ported AVRISM USBasp USBTin	DFU via Mass Sto d ISP fl P (Ardui p (AVR 1 ny (AVR	wb32 prage lashe ino I ISP) Pock	e-dfu-up rs: SP) et)	odat	er_cli (https://github.co

# Step 4: Restart your PC (may be skippable but just do it)

# Step 5:

Reopen "QMK Toolbox" (does not need to be run as administrator). After it is opened, press the button on the bottom of the PCB:



CMK Toolbox		-		×
File Tools Help				
Local file		MCU (AVR only)		
C:\Users\Leander\qmk_firmware\swiss_via.hex	<ul> <li>✓ Open</li> </ul>	ATmega32U4		$\sim$
	Auto-Flash 🗌 Flash Clear I	EPROM	Exit Di	FU
<ul> <li>QMK Toolbox 0.3.1 (https://qmk.fm/toolbox)</li> <li>Supported bootloaders:</li> <li>ARM DFU (APM32, Kiibohd, STM32, STM32duino) and RISC-V DFU (GD32V) via</li> <li>Atmel/LUFA/QMK DFU via dfu-programmer (http://dfu-programmer.github.io</li> <li>Atmel SAM-BA (Massdrop) via Massdrop Loader (https://github.com/massdr</li> <li>BootloadHID (Atmel, PS2AVRGB) via bootloadHID (https://www.obdev.at/pr</li> <li>Caterina (Arduino, Pro Micro) via avrdude (http://norgrammer.github.io</li> <li>HalfKay (Teensy, Ergodox E2) via Teensy Loader (https://github.com/avrdude/)</li> <li>HalfKay (Teensy, Ergodox E2) via Teensy Loader (https://github.com/avrdude/)</li> <li>HB32 DFU via wb32-dfu-updater_cli (https://github.com/WestberryTech/wb</li> <li>LUFA Mass Storage</li> <li>Supported ISP flashers:</li> <li>AVRISP (Arduino ISP)</li> <li>USBasp (AVR ISP)</li> <li>USBasp (AVR Pocket)</li> <li>Atmel DFU device connected (WinUSB): Atmel Corp. ATm32U4DFU (03EB:2FF4:0000</li> </ul>	n dfu-util (http://dfu-util.sourc //) rop/mdloader) roducts/vusb/bootloadhid.html) y/loader_cli.html) ifa) J32-dfu-updater)	eforge.net/)	,	

A yellow message like above should appear in QMK toolbox saying device connected.

### Step 6:

Download the files "swiss\_via.hex" and "via.json" (The files should be somewhere close around where you found this guide). In QMK Toolbox click Open, navigate to the swiss\_via.hex file and select it. The file path should now show under Local file in QMK toolbox:

#### MAKE SURE UNDER MCU (TO THE RIGHT OF OPEN), ATmega32U4 IS SELECTED.

QMK Toolbox				-		×
File Tools Help						
Local file		_		MCU (AVR only	) ———	
C:\Users' qmk_firmware\swiss_via.hex		[	Open	ATmega32U4		~
	Auto-Flash 🗌	Flash	Clea	ar EEPROM	Exit D	FU

# Step 7:

Click "Flash". If it succeeded it should look something like this:

Attempting to flash, please don't remove device
> dfu-programmer.exe atmega32u4 eraseforce
> Erasing flash Success
> Checking memory from 0x0 to 0x6FFF Empty.
<pre>&gt; dfu-programmer.exe atmega32u4 flashforce "C:\Users\:qmk_firmware\swiss_via.hex"</pre>
> Programming 0x4C00 bytes
> Success
> Reading 0x7000 bytes
> Success
> Validating Success
> 0x4C00 bytes written into 0x7000 bytes memory (67.86%).
> dfu-programmer.exe atmega32u4 reset
Flash complete
Atmel DFU device disconnected (libusb0): Atmel Corp. ATmega32U4 (03EB:2FF4:0000)

Note: If it looks like this, then you didn't download the drivers correctly in step 3 and it won't work.

Atmel DFU device connected (libusb0): Atmel Corp. ATmega32U4 (03EB:2FF4:0000)							
Attempting to flash, please don't remove device							
> dfu-programmer.exe atmega32u4 eraseforce							
> dfu-programmer: no device present.							
> dfu-programmer.exe atmega32u4 flashforce "C:\Users'\Desktop\swiss_via.hex"							
> dfu-programmer: no device present.							
> dfu-programmer.exe atmega32u4 reset							
> dfu-programmer: no device present.							
Flash complete							

# Step 8:

Unplug and plug back in your "Swiss" keyboard and open VIA (Only works with Chrome or Microsoft Edge): <u>https://usevia.app/</u>

In the menu bar at the top, select settings and make sure that "Show Design tab" is toggled on:

		ų	20	)			
Show Design tab						2	
Fast Key Mapping							
Light Mode							
Keycap Theme					OLIVIA DARK		~
Render Mode					2D		~
Show Diagnostic Information					Requires co	nnecteo	d device

# Step 9:

A paint brush should've appeared in the menu bar. Select it and the click load and select the via.json file downloaded in step 6.

	📟 V 📮 🏟	
	0	
Load Draft Definition		2 Load
Use V2 definitions (deprecated)		
Draft Definitions		0 Definitions

Via might ask you to connect a HID device. (If it doesn't or you clicked cancel, don't worry, the next step does this again.)



If it does show, select swiss and press connect.

Regardless of if VIA asked to connect to your HID device, the design tab (paintbrush) should look like this now:

📟 V; 삊 🌣		
Load Draft Definition		Load
Use V2 definitions (deprecated)		
Shown Keyboard Definition	Swiss	~
Draft Definitions	11	Definitions
	0x4C4	30420 🗙

# Step 10:

Press the keyboard in the design tab, select Authorize device, and select swiss and press connect.

If swiss does not show as an option, you did not flash the keyboard correctly (Steps 1-7). Make sure you flashed swiss\_via.hex, not swiss\_default.hex and it was flashed successfully.

SWISS 🗸 Del 0 U 0 D G н Left Ctr MO(1) Left Shift **Right Shift** LAR RCI E BASIC Print Screer acks Scroll Lock Caps Lock

If everything was done correctly, it should now look like this.

For Question, as in my discord: <u>https://discord.gg/WdrNFnTbBD</u>