# LINUX GUIDE TO VTUBING BY KYIONeko

### **Prerequisites:**

-A Linux distro of your Choosing ( I use linux mint 22 (Xorg) but other distros should work)

-Vtube Studio, VeeseeFace or any other face tracking application that (may) work on linux: <u>https://denchisoft.com/</u>, <u>https://www.vseeface.icu/</u>, <u>https://suvidriel.itch.io/vnyan</u>, <u>https://store.steampowered.com/app/2079120/Warudo/</u>

-FaceTracker off Flathub : <u>https://flathub.org/apps/de.z\_ray.Facetracker</u> or you can follow RougeRen's guide here: <u>https://www.youtube.com/watch?v=Q3aMVZXh\_cl&t=7s</u> -Make sure your wine dependencies are updated :

https://github.com/lutris/docs/blob/master/WineDependencies.md#archendeavourosma njaroother-arch-derivatives

- If you have an Update manager make sure your up-to-date

- For Vtube Studio Specifically you need the Denchi Soft IP.txt file in the streaming assets folder : <u>https://gist.github.com/DenchiSoft/122729d9a0bd0f96798bea28bfe146d6</u>

- a Webcam that is UVC compliant (others may work) or a Phone that can interface over the network

-Steam either the system package : <u>https://store.steampowered.com/about/</u> or the FlatPak: <u>https://flathub.org/apps/com.valvesoftware.Steam</u>

- obs FlatHub : <u>https://flathub.org/apps/com.obsproject.Studio</u>

- if you use an amd gpu your drivers are already built into the Kernel - if you use Nvidia try to get a Linux version that had your drivers baked in already or install for ubuntu based distros: <u>https://ubuntu.com/server/docs/nvidia-drivers-installation</u> or for Arch : <u>https://github.com/korvahannu/arch-nvidia-drivers-installation-guide</u>

- For audio you will need for Pulseaudio :

https://flathub.org/apps/com.github.wwmm.pulseeffects ,

<u>https://flathub.org/apps/org.pulseaudio.pavucontrol</u>, <u>https://gjackctl.sourceforge.io/</u> or for PIPEWIRE: <u>https://flathub.org/apps/org.rncbc.gpwgraph</u>,

https://flathub.org/apps/com.github.wwmm.easyeffects,

https://community.linuxmint.com/software/view/gasmixer

(These all help with audio control and configurations with linux)

## **OPTIONAL** Prerequisites:

-Install Proton Ge either by using ProtonUp-QT:

<u>https://flathub.org/apps/net.davidotek.pupgui2</u> or by using ProtonPlus: <u>https://flathub.org/apps/com.vysp3r.ProtonPlus</u> ( try to get the latest GE proton version or use one that works with Vtube studio)

-Lutris: <u>https://flathub.org/apps/net.lutris.Lutris</u> ( this is to be used for VTS POG also make sure port 3800 tcp is open in your firewall with an exception)

-VTS POG: https://eruben.itch.io/vts-pog

-Mix it up: https://mixitupapp.com/

- T.I.T.S: https://remasuri3.itch.io/tits

-Bottles: <u>https://flathub.org/apps/com.usebottles.bottles</u> possible usage for other Vtubing applications like VeeSeeFace (lutris can also be used here or you can use Steams Built in non-steam game feature as well)

- Optional UVC compliant Capture card like the Pcie EZCAP/Pyle LINK capture cards for console or second pc capture , alternatively you can also use NDI capture over the network ( ndi capture is laggy or has some lag so be aware of this)

# STARTING OUT ON LINUX

Hello Everyone this is KyloNeko and I am here with a guide to help you get started on Linux! This is a Guide that is Intended to be a way for Vtubers to want to be able to Move away from Windows(or Mac) or People who were not too Keen on the windows Recall Feature, I hope this guide helps a lot of people out as it took me awhile to switch over and get things worked out, but trust me it works out correctly as I have done a lot of testing on Linux with Various applications that I daily Drive. Make sure you find or test a Linux distro that you intend to use long term you can use Distro Sea to help you figure this out: <a href="https://distrosea.com/">https://distrosea.com/</a>. Once you have selected your flavor of Distro you can then proceed to the next step.

## Installing your distro

Ok you made it this far after you selected your flavor of Distro , you can now grab a Flash Drive and then either use Balena Etcher : <u>https://etcher.balena.io/</u> or rufus : <u>https://rufus.ie/en/</u> , select your drive you intend to use , Locate the ISO file you downloaded and then proceed to flash it to the usb drive, once you do that , I HIGHLY suggest you also BACK UP any files you wanted to keep from windows to a different drive or use google drive , and then reboot your pc and either go into the bios and select your LINUX bootable drive as the option or press F12 Repeatedly until the drive options

appear, you will then be able to boot into a Linux bootloader called grub, you can then select the top option (usually) and then be able to boot into a welcome screen. Make sure you do everything the welcome screen install tells you to ( and maybe play around with the os more before you install ) and then once your distro is installed you can then be notified to reboot into the os. After you have done that you will be given another welcome screen to follow and install any updates or drivers you deem necessary.

# Install steam & Proton/GE-Proton

Steam Proton is a very valuable aspect of this whole thing as it is the one that is able to interface with a lot of the applications here , so use the links above and download steam and get Vtube studio , or the other applications mentioned above as possible alternatives. Once you have signed into steam make sure you also go to Settings - > Compatibility - > enable steam play - > then reboot steam once you are prompted , get the ge proton flatpak verson and update your wine dependencies with the links above, Note to install a flatpak use terminal as shown here :

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And it should install after you pressed enter , or if you are on Linux mint , pop os you can use your package manager to facilitate this.

Open up ProtonUp-Qt or ProtonPlus and install the latest Proton verson ( in as the writing of this guide (GE-Proton9-11) works the best rn

### Vtube Studio

Firstly grab Vtube studio off of steam and install it , go into the compatibility settings and choose either ProtonExperimental or use the latest Ge-Proton verson , then go into the files and navigate to streaming assets , Put the lp.txt file :

https://gist.github.com/DenchiSoft/122729d9a0bd0f96798bea28bfe146d6 from here after you downloaded it and put it in the streaming assets folder and it should look like this :



Once that is said and done make sure you grab the Flatpak for Face tracker in Flat hub: <u>https://flathub.org/apps/de.z\_ray.Facetracker</u> this will already have the appropriate settings enabled but you may change a few to see fit , make sure you select your webcam and also enable it!

<b>1</b>	Facetracker	≡ - □ ×
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Server Settings		^
IP Address: 0.0.0.0	/ Port: / 11573	0

Example of the settings I Use and it should work after you enable your Webcam in

#### Vtube studio

Once you're in Vtube studio you will notice a few things are off. Like your eyes are pointing up for whatever reason, this can be fixed after you adjust a few values, these may vary but offer similar results depending on the model, you may also need to adjust and configure some mouth shape settings:

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After you have made your adjustments to your model you will then need to go to obs

# OBS Studio

Now Unfortunately the Plugin for Spout 2 Doesn't work in Obs (on linux) as of right now , But there's at least 2 alternatives. You can either use a Chroma Keyed Window Capture , or you can enable NDI capture for Vtube studio. In my experience the Window

Capture method is the best as it offers No latency despite the UI being visible so that is what will be covered in this guide.

First go to OBS and select Window Capture(Xcomposite) then select VtubeStudio it should look like this after you load your model in:



Next you need to change the background to color picker and change the color to this value here:



You should get this( optionally you can also do 2bf0 instead for a blue screen) :



Next you should go into OBS and select these filters:



Next you should go into the chroma Key Filter and adjust your settings to something like this:



#### !TADA! you should get this:



#### You can now Live2DVtube in Linux now! Make sure the live2d window is open though or you will be greeted with a black screen , you cannot minimize this but keeping it open is the best solution to this issue

# VTS POG TTS application

Hello again so after switching to Linux I wanted to find a way to use VTS Pog First off you need to Purchase Vts-POG off of Itch.io : <u>https://eruben.itch.io/vts-pog</u> Next you will need to get the Lutris Flatpak , the system package WILL NOT WORK: <u>https://flathub.org/apps/net.lutris.Lutris</u>

Next you will need to install Vts POG and then go into the files on itch and Copy it to the desktop

Next you will need to open up Lutris and add a game:

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🕑 Steam	Search the Lutris website for installers	
Runners	Query our website for community installers	
🔁 Flatpak	Import previously installed Lutris games	
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🛩 Steam	Install a Windows game from an executable	
1 Wine	Launch a Windows executable (exe) installer	
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Make sure you select the Locally Installed option:

	Add a new game	Save
	VTS POG	
	Wine (Runs Windows games)	•
		Add a new game         Game options       Runner options       System options         VTS POQ

Next you will need to go into your game options and select the vts pog exe that is in the vts pog folder you put on the desktop:

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VE_SWITEShader.dll     S.1 MM     Program     Mon       VE_SPOG.exe     106 bytes     Program     Mon       VTS-POG.exe     166.1 MB     Program     Mon       VTS-POG.exe     148.5 KB     Program     Mon       VTS-POG-HELPER.exe     148.5 KB     Program     Mon       VTS-POG-HELPER.exe     189 bytes     Text     Mon       VTS-POG-HELPER.exe.config     189 bytes     Text     Mon       VUS-POG-HELPER.exe.config     293.5 KB     Program     Mon       Vusbocket-sharp.dll     226.8 kB     Program     Mon       windowsTTS.wav     0 bytes     Empty document     Yesterday		vs_concext_snapshot.bin	292.8 KB	Unknown	
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Image: Strate Decket     1405 bytes     1405 bytes     1406 bytes       Image: Strate Decket     190 bytes     120 bytes     120 bytes       Image: Strate Decket     120 bytes     120 bytes     120 bytes       Image: Strate Decket     120 bytes     120 bytes     120 bytes       Image: Strate Decket     120 bytes     120 bytes     120 bytes       Image: Strate Decket     120 bytes     120 bytes     120 bytes       Image: Strate Decket Decket     120 bytes     120 bytes     120 bytes       Image: Strate Decket Dec			148.5 kB	Program	Mon
Open files read-only     Vitan-1 dil     939.5 kB     Program     Mon       Open files read-only     Open files read-only     Cancel     OK			189 hvtes	Text	Mon
Image: Second		vulkan-1 dll	939.5 kB	Program	
Image: Second		websocket-sharp.dll	226.8 kB	Program	Mon
Open files read-only Cancel OK		windowsTTS.wav			
Cancel OK	Open files read-only				

Once you do that go to Runner options and change it to GE-Proton9-11:

Cancel	<b>Q</b> Search options	Advanced 🧭 Save
Game info Game options Runner op		
🕧 If modified, these options supersede t	e same options from the base runner configuration.	
Wine version	GE-Proton9-11	<b>▼</b> ↔
Custom Wine executable		
Use system winetricks		
Graphics		
Enable DXVK		
DXVK version	v2.4 (default)	-
Enable VKD3D	<ul> <li>••••••••••••••••••••••••••••••••••••</li></ul>	
VKD3D version	v2.12 (default)	-
Enable D3D Extras		
D3D Extras version	v2 (default)	-
Enable DXVK-NVAPI / DLSS	••••	
DXVK NVAPI version	v0.7.0 (default)	•
Enable dgvoodoo2		
dgvoodoo2 version	v2.8 (default)	

As of the time of this writing VTS POG is only compatible with lutris , it will open on bottles , steam , and proton tricks but it will only function if you use lutris

Click on Vts Pog that you just made and click on play and you should see this appear:

VTS P.O.G.	Main Settings
2.0.18 TTS Enabled	Play TTS locally.
■ Save ¥ Tray × Close	Send message to pet Example: Pog online poggers pog online poggers Play text
<ul> <li>▼ Text to Speech</li> <li>▲ Settings</li> <li>➡ Chat</li> <li>★ Moderation</li> <li>➡ History</li> <li>➡ LiveLog</li> <li>▲ Soundboard</li> </ul>	TTS Settings Select TTS Decide which TTS service to use. Stream Elements
<ul> <li>▼ My Connections</li> <li>♡ Twitch</li> <li>○ Youtube</li> <li>○ YutubeStudio</li> <li>○ 3D Tracking</li> <li>▷ VNyan Socket</li> <li>⊕ ChatGPT</li> <li>□ Creation</li> </ul>	StreamElements Stream Elements Voices Select which voice will speak. Brian   British English 🗸 🗸
Ψ langia ∴ Mixitup ▼ Tools ⊠ Captions	VTS O PNG O 3D O Credits

Go to Obs and add the Html files for the pngtuber in the browser source locally a guide is found here for this : <u>https://www.youtube.com/watch?v=DW6oDI4GFoo</u>

Make sure you when you open up VTS pog on linux you hit TTS Enabled and disabled every time you open it for it to actually register the 3800 port in the system , also make sure you allow port 3800 tcp in your firewall as on linux it can Nuke VTS pog for a bit before it gets re-established again ( it's not foolproof but it will happen less )

And it should work, also Live 2d models will work if you load them in as items after configuring them as well as VTS pog will communicate with Vtube studio just like an I-phone would via a Network Port.

Here is a Video guide for VTS POG as well that I made showcasing what is possible : <u>https://youtu.be/IE5g9CSwmfE</u>

# Mix it Up

So recently I got Mix it Up working on linux and I want to be able to share my findings, this one is a bit more simple than the other parts of the guide but you will need to do a few things:

#### Prerequisites

Download Mix it Up here: <u>https://mixitupapp.com/</u> Get the program called bottles off of Flathub to be used to install and run the program:<u>https://flathub.org/apps/com.usebottles.bottles</u> Make sure you have Vtube Studio: <u>https://store.steampowered.com/app/1325860/VTube\_Studio/</u>

Step 1 go to bottles and create a Runner under gaming for Mix It up click on the plus sign:





After the bottle is created go ahead and change your runner to GE-9-11 then install the program the program that is installed wont immediately appear in bottles but the directory will show up now there is a number of ways to run this program as it works in bottles and proton tricks but the simplest way of getting this program to work is running it in bottles so after you install it find the program in the directory after you install it from the downloads folder:



Then add the Mix it up Exe as a shortcut in bottles under ge proton in bottles:

Programs					
Click "Run Executable" to run an executable, "Add Shortcuts" to add an executable to the Programs list, or "Install Programs" to install programs curated by the community.					
■ :					
🖊 Install Programs					

Next click run and it should let you sign into your twitch account( note if you have issues with it letting you sign in try using proton tricks or steam to facilitate this) :

	Mix It Up - kyloneko - v1.1.0	0.17	_ C	
1	Accounts		?	\$
	All changes to signed-in accounts require a ful	l restart of Mix It Up!		
Streamer accounts are your send messages from in you before you try connecting th	ectual account that you are streaming from. Bot accoun ir channel. Bots accounts must be manually created by y nem in Mix It Up.	ts are separate, optional accounts that you can us ou and you must make sure to be signed in to them	e to 1	
Twitch				
	Streamer:	Bot Account:		
	👹 kyloneko			
	🖓 Log out of Twitch	Log in with Twitch		
YouTube				
	Streamer:	Bot Account:		
	Log in with YouTube	Log in with YouTube		
Τσνο				
1000				
	Streamer:	Bot Account		
	🐻 Log in with Trovo			

Next navigate to services with vtube studio open with plugins enabled a pop up appear:

=	Services	?	\$
Rainmaker			2 1
SAMMI			?
Stream Avatars			?
Stream Deck			?
StreamElements			?
Streamlabs			?
Streamlabs Deskte	pp		?
Streamloots			?
Tiltify			?
TipeeeStream			?
Twitch Integrated	Throwing System (T.I.T.S.)		?
TreatStream			?
Voicemod			?
VTube Studio		0	?
	VTube Studio connectivity allows you to control functionality in the VTube Studio software, such as changing the currently displayed model and triggering hot keys within the application. To connect to VTube Studio, please ensure the software is running and the API is enabled on the settings menu.		
XSplit			?

It should connect to the program properly

Create a Browser source and put this in the url part of it as on linux the copy command in Mix it up doesn't work properly: <u>http://localhost:8111/overlay/</u>

Next follow this video guide by Demythical to add your redeems

https://youtu.be/mRpHrXeK5s0

Tada now you should have redeems working with obs and vtube studio!

### Twitch Integrated Throwing system

Prerequisites:

T.I.T.S: https://remasuri3.itch.io/tits

Get the program called bottles off of Flathub to be used to install and run the program:<u>https://flathub.org/apps/com.usebottles.bottles</u>

Make sure you have Vtube Studio:

https://store.steampowered.com/app/1325860/VTube\_Studio/

OBS: <u>https://flathub.org/apps/com.obsproject.Studio</u>

Just like with Mix it up make a bottle for TITS and use the GE proton 9-11 runner Next go to <u>https://remasuri3.itch.io/tits</u> and purchase and download the program as a Zip file

Go into bottles and add it as an executable shortcut And you should see this :



Next go to connections and enable twitch and Vtube studio (or veeseeface)

#### You will then be greeted with this :



Go to obs an add TITS in window capture:

5				
		Info: Settings only apply to SDR video.		
	Key Color Type	Custom Color		÷
	Key Color	#323232 Sele	ct color	
	Similarity (1-1000)	-		<b>^ &gt;</b>
Sm	oothness (1-1000)	_	80	<b>^</b>
Key Color Spill F	Reduction (1-1000)		100	
	Opacity		1.0000	<b>^</b>
	Contrast		0.00	
Defaults			C	lose

Make sure the color key is : 323232 as this will allow for transparency

Follow this video to make redeems for TITS by maddiekuma: <u>https://www.youtube.com/watch?v=hWOIZqv-u50</u> happy throwing!

### VmagicMirrior on Linux

A good indepth video can be found here : <u>https://www.youtube.com/watch?v=S7t5EVSNx9k</u> this is by <u>Cyb3r-Kun</u>

## **3D Vtubing**

Follow this video made by Robo n'Tux Guides : the Veeseeface section is explained greatly here: <u>https://youtu.be/H0YotaNSbDc?si=FyiimfEbSMJmYNDL&t=223</u> also for obs game capture you will need Obs-Vkcapture installed

<u>https://github.com/nowrep/obs-vkcapture</u> as far as im aware Vtube Studio doesn't play nicely with linux gamecapture as a launch option just yet but veeseeface should The launch option you would use in Bottles after you made the runner and got the program added as a shortcut would be obs-gamecapture %command%

# AUDIO

Using one of the audio patch bays to help route audio please look at this video for an explanation : <u>https://www.youtube.com/watch?v=TDBGsbwMo40</u>

# Contributing?

If you would like to contribute to the Linux Guide to Vtubing you can reach me at <u>nekokylo@gmail.com</u> or on twitter at @KyloNek0