

# FaceFusion Locally on Termux Android

Made by [Nick088](#) inspired by [patient.x](#)

## Table Of Contents

[Introduction](#)

[Requirements](#)

[Download](#)

[Setup environment](#)

[FaceFusion](#)

[FAQ](#)

[Is it possible to do it on an iPhone?](#)

[Is it possible to use the live webcam mode?](#)

[Are you going to help to remove the NSFW Filter? Or make a way to use FaceFusion without the filter?](#)

[How to delete?](#)

[I get a "Read time out" when I try to run "python3.10 install.py --skip-conda --onnxruntime default"](#)

[My commands don't properly work, it's like whenever there's a new line in the command it doesn't work for me.](#)

## Introduction

In this guide, you will be able to run [FaceFusion](#) Locally on your Android Phone, meaning it can work also without the Internet after you properly setup everything, and talking about setting up, the time for doing that depends also on your internet speed.

As it will run on the phone CPU, it's going to be slow.

If you want more details, there are (comments).

**WARNING: DO IT AT YOUR OWN RISK.** There's a possibility of overheat or damage on devices.

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## Requirements

- **Storage:** Around 4gb (Tested running the Benchmark ui layout, could depend on what other model you use other than the default ones).
- **RAM:** Minimum 6gb, suggested 8gb or more.
- **OS:** At least Android 5.0, or higher.

## Download

Download the app via:

<https://github.com/termux/termux-app?tab=readme-ov-file#installation> , I personally used the **F-Droid way**

## Setup environment

1. Run:

```
pkg update && pkg upgrade -y &&  
termux-setup-storage && pkg install wget curl git  
proot -y && cd ~ && git clone  
https://github.com/MFDGaming/ubuntu-in-termux.git  
&& cd ubuntu-in-termux && chmod +x ubuntu.sh &&  
./ubuntu.sh -y && ./startubuntu.sh
```

, if you get a popup for allowing storage access, ALLOW IT.  
(downloads all needed packages and sets up ubuntu in termux)

2. Run “`apt update -y && apt dist-upgrade -y`” (updates the package lists from the repositories & distribution)

# FaceFusion Locally on Termux Android

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3. Run `apt install wget curl git python3.10 python3-pip gcc python3-dev python3.10-venv ffmpeg mesa-va-drivers -y` (installs needed packages in ubuntu termux)
4. Run `git config --global http.postBuffer 2097152000 && git config --global https.postBuffer 2097152000` (sets the maximum size of data that can be sent to an HTTP & HTTPS server during a git push operation to 2GB)

## FaceFusion

1. Run `python3.10 -m venv facefusion_env && source facefusion_env/bin/activate` (makes a python venv for facefusion only)
2. Run `git clone https://github.com/facefusion/facefusion && cd facefusion`
3. Run `python3.10 install.py --skip-conda --onnxruntime default` (could take a while)
4. Run `python3.10 facefusion.py run --execution-providers cpu` (could take a while)
5. (OPTIONAL) To benchmark, you can just run `python3.10 facefusion.py run --execution-providers cpu --ui-layouts benchmark` instead of the command above (could take a while)
6. Wait till it says "Running on local URL: <http://127.0.0.1:7860>", after that, open your browser (possibly in multitasking or window mode) and put "localhost:7860" in the browser search bar.
7. (OPTIONAL) If you want to run it NO UI, you can `python3.10 facefusion.py headless-run`

# FaceFusion Locally on Termux Android

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`--execution-providers cpu`" which you can get all options by `python3.10 facefusion.py headless-run -h`

8. To exit, you can just click Ctrl + C on your keyboard, close the app and fully close it in the background by clicking on the termux notification and EXIT.
9. **To continue running it later, you can:** Run `cd ubuntu-in-termux && ./startubuntu.sh`, then when you are in ubuntu, run `source facefusion_env/bin/activate && cd facefusion`, lastly `python3.10 facefusion.py run --execution-providers cpu`.
10. **To update FaceFusion:** Run `git checkout` (checkout for updates and apply them)

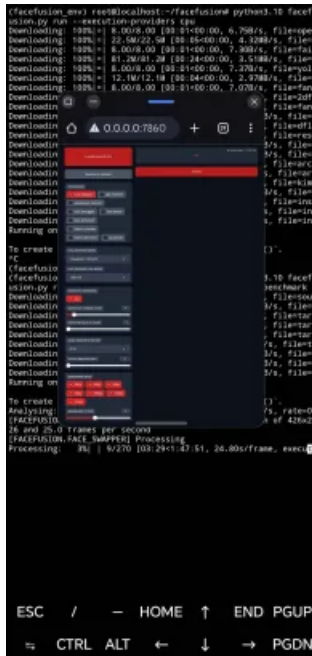
**WARNING: the performance depends by your phone's CPU speed.** Long videos could maybe cause the app to crash, I suggest to **split videos**, especially for 6gb RAM phones / not powerful phones.

Examples:

- It takes from 14-34s per frame for face\_swapper on Honor 90 Lite on benchmark ui layout

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## FAQ

### Is it possible to do it on an iPhone?

Termux is Android Only, there are iPhone's alternatives such as:

- **iSH:** <https://apps.apple.com/us/app/ish-shell/id1436902243>
- **A-Shell:** [https://holzschu.github.io/a-Shell\\_iOS](https://holzschu.github.io/a-Shell_iOS)

**Warning:** Termux is not associated with any of the apps above and the guide could have issues with them!

### Is it possible to use the live webcam mode?

Unfortunately, if you do that you will get an error because it's not able to find the webcam.

# FaceFusion Locally on Termux Android

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## Are you going to help to remove the NSFW Filter? Or make a way to use FaceFusion without the filter?

No, as FaceFusion doesn't allow deepnudes. If you make an issue for issues/help related to removing the NSFW filter, I'm not going to help for that.

## How to delete?

Only FaceFusion:

- Run `cd ubuntu-in-termux && ./startubuntu.sh`, then `rm -rf facefusion_env`

Everything:

- Delete the whole Termux app.

## I get a "Read time out" when I try to run

`python3.10 install.py --skip-conda --onnxruntime default`

It means you have a slow wifi and it's taking too long, over the time of the default pip timeout, you should be still in the facefusion folder in ubuntu termux, the ways to fix it are:

- Use a better internet
- Run `export PIP_DEFAULT_TIMEOUT=200 && python3.10 install.py --skip-conda --onnxruntime default`, if you still get the same error after this, re-run the command with a value higher than 200.

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**My commands don't properly work, it's like whenever there's a new line in the command it doesn't work for me.**

As reported in a 2018 phone, this was fixed by just updating the Google Docs app.