



**Installation the Darktable Application by using command line in linux and Project**

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## **Abstract**

**This report is about taking pictures from personal preferences. Using the Darktable app for photo creation. Darktable app similar to Lightroom, but in terms of functionality, Lightroom does better.**

# **Content**

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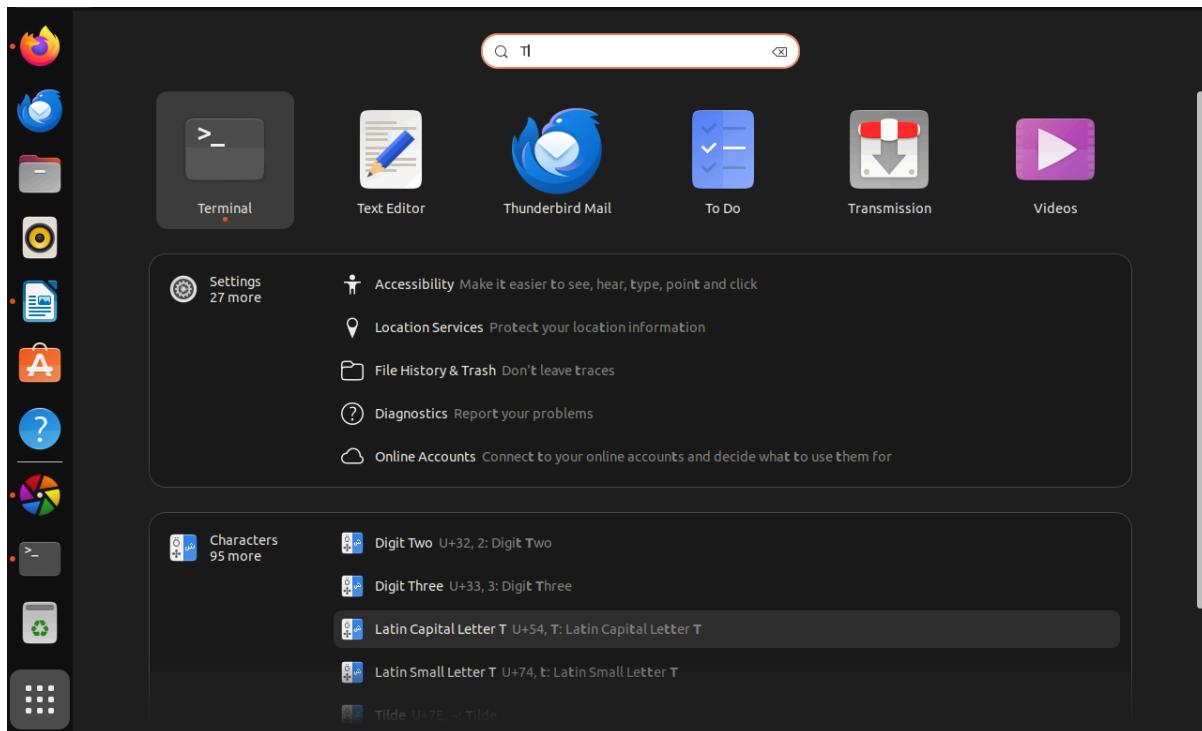
## Introduction

**Darktable is an app that helps to create photos that are too dark or too bright, or want to brighten the colors or adjust the colors as we want.**

## How to install the Darktable Application

the methods of installing the Darktable on Ubuntu

### Step 1 : Open Terminal



### Step 2 : sudo snap install darktable

```
tlu@tlu-VirtualBox:~$ sudo snap install darktable
snap "darktable" is already installed, see 'snap help refresh'
```

A screenshot of a terminal window. The title bar shows the session name "tlu@tlu-VirtualBox: ~". The command "sudo snap install darktable" is typed into the terminal, and the response "snap "darktable" is already installed, see 'snap help refresh'" is displayed below it.

## Step 3 : sudo add-apt-repository ppa:ubuntuhandbook1/darktable

```
tiu@tiu-VirtualBox:~$ sudo add-apt-repository ppa:ubuntuhandbook1/darktable
Repository: 'deb https://ppa.launchpadcontent.net/ubuntuhandbook1/darktable/ubuntu/ jammy main'
Description:
Pascal de Bruijn's PPA seems not being updated. Packages here are built with debian/rules from:
https://launchpad.net/~pmjdebruijn/+archive/ubuntu/darktable-release/

So far, support Ubuntu 22.04, 23.04, & 23.10 for x86_64 (Intel/AMD CPU) and arm64 (Apple M1/M2, Raspberry Pi, etc) CPU architectures.

If the packages here are helpful, you may buy me a coffee:
https://ko-fi.com/ubuntuhandbook1

More info: https://launchpad.net/~ubuntuhandbook1/+archive/ubuntu/darktable
Adding repository.
Press [ENTER] to continue or Ctrl-c to cancel.
Adding deb entry to /etc/apt/sources.list.d/ubuntuhandbook1-ubuntu-darktable-jammy.list
Adding disabled deb-src entry to /etc/apt/sources.list.d/ubuntuhandbook1-ubuntu-darktable-jammy.list
Adding key to /etc/apt/trusted.gpg.d/ubuntuhandbook1-ubuntu-darktable.gpg with fingerprint A0062203196CA4482DDB859E4C1CBE14852541CB
Hit:1 http://th.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://th.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://th.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu jammy-security InRelease
Ign:5 https://ppa.launchpadcontent.net/pmjdebruijn/darktable-release/ubuntu jammy InRelease
Ign:6 https://ppa.launchpadcontent.net/pmjdebruijn/darktable-unstable/ubuntu jammy InRelease
Get:7 https://ppa.launchpadcontent.net/ubuntuhandbook1/darktable/ubuntu jammy InRelease [17.5 kB]
Err:8 https://ppa.launchpadcontent.net/pmjdebruijn/darktable-release/ubuntu jammy Release
  404 Not Found [IP: 185.125.190.80 443]
Err:9 https://ppa.launchpadcontent.net/pmjdebruijn/darktable-unstable/ubuntu jammy Release
  404 Not Found [IP: 185.125.190.80 443]
Get:10 https://ppa.launchpadcontent.net/ubuntuhandbook1/darktable/ubuntu jammy/main i386 Packages [1,940 B]
Get:11 https://ppa.launchpadcontent.net/ubuntuhandbook1/darktable/ubuntu jammy/main amd64 Packages [6,648 B]
Get:12 https://ppa.launchpadcontent.net/ubuntuhandbook1/darktable/ubuntu jammy/main Translation-en [1,700 B]
Reading package lists... Done
E: The repository 'https://ppa.launchpadcontent.net/pmjdebruijn/darktable-release/ubuntu jammy Release' does not have a Release file
```

## Step 4 : sudo apt-get update

```
tiu@tiu-VirtualBox:~$ sudo apt-get update
Hit:1 http://th.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://th.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://th.archive.ubuntu.com/ubuntu jammy-backports InRelease
Ign:4 https://ppa.launchpadcontent.net/pmjdebruijn/darktable-release/ubuntu jammy InRelease
Ign:5 https://ppa.launchpadcontent.net/pmjdebruijn/darktable-unstable/ubuntu jammy InRelease
Hit:6 https://ppa.launchpadcontent.net/ubuntuhandbook1/darktable/ubuntu jammy InRelease
Err:7 https://ppa.launchpadcontent.net/pmjdebruijn/darktable-release/ubuntu jammy Release
  404 Not Found [IP: 185.125.190.80 443]
Err:8 https://ppa.launchpadcontent.net/pmjdebruijn/darktable-unstable/ubuntu jammy Release
  404 Not Found [IP: 185.125.190.80 443]
Hit:9 http://security.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
E: The repository 'https://ppa.launchpadcontent.net/pmjdebruijn/darktable-release/ubuntu jammy Release' does not have a Release file
.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
E: The repository 'https://ppa.launchpadcontent.net/pmjdebruijn/darktable-unstable/ubuntu jammy Release' does not have a Release file.
.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
```

## Step 5 : sudo apt-get install darktable -y

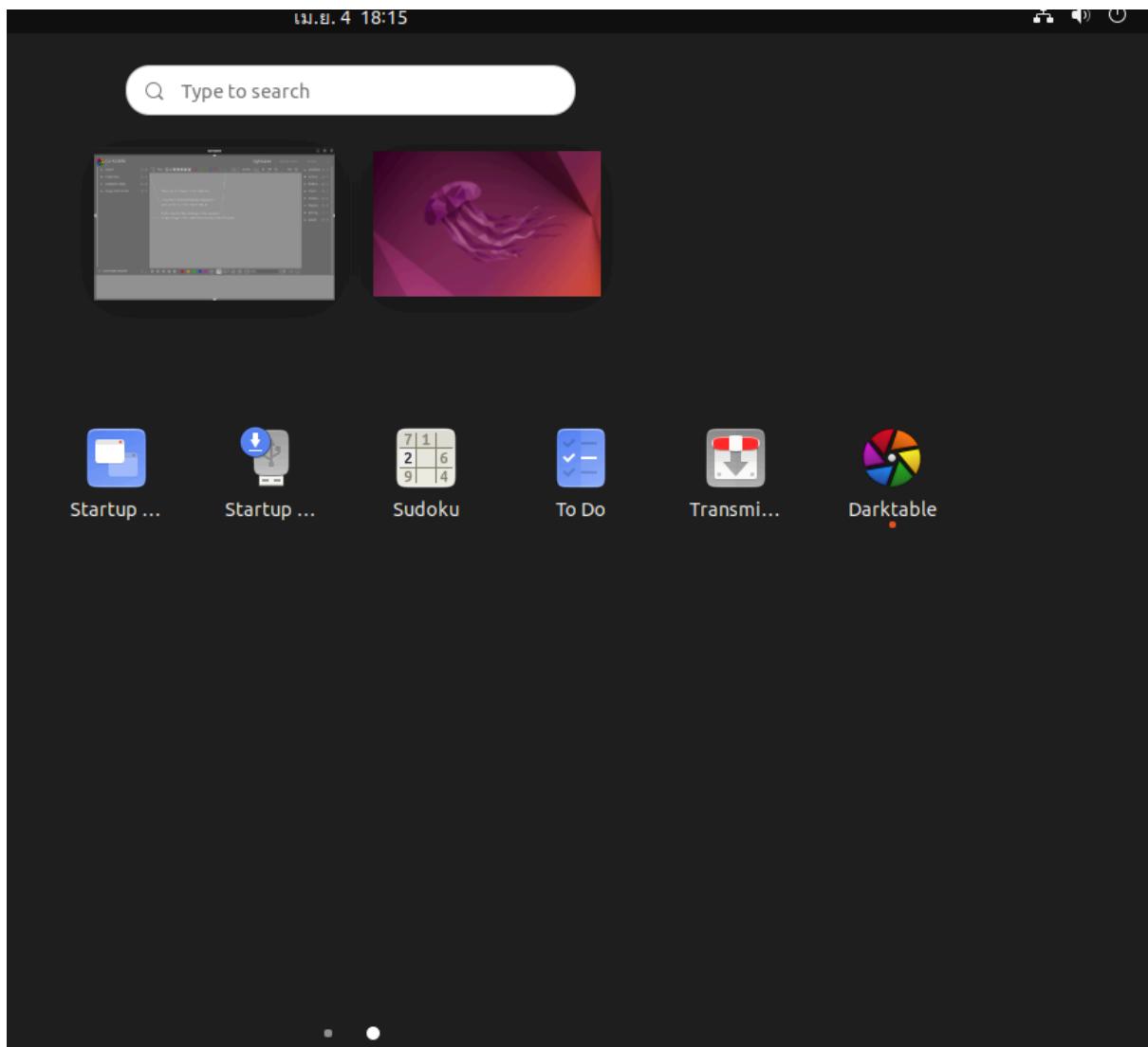
```
tiu@tiu-VirtualBox: ~
```

The terminal output shows the following:

- Installed packages:**
  - fonts-roboto fonts-roboto-unhinted gdal-data gsfonts i965-v4-driver intel-media-v4-driver javascript-common libaacs0 libaec0 libaom3 libarmadillo10 libbarpack2 libavcodec58 libavformat58 libavif13 libavutil56 libbdplus0 libblas3 libblosc1 libbluray2 libcfitsio9 libcharls2 libchromaprint1 libcodecs2-1.0 libdavid5 libdc1394-25 libde265-0 libdecor-0-0 libdecor-0-plugin-1-cairo libgmic1 libgraphicsmagick++-q16-12 libgraphicsmagick-q16-3 libgsm1 libhdf4-0-alt libhdf5-103-1 libhdf5-hl-100 libheif-plugin-aomenc libheif-plugin-david libheif-plugin-libde265 libheif-plugin-x265 libheif1 libigdmm2 libilmbase25 libjs-prototype libjs-scriptaculous libkmlbase1 libkmldom1 libkmlengine1 liblapack3 liblensfun-data-v1 liblensfun1 libluas5.4-0 libmfx1 libminizip1 libmysqlclient21 libnetcdf19 libnorm1 libodbc2 libodbcinst2 libogdi4.1 libopencv-core4.5d libopencv-imgcodecs4.5d libopencv-imgproc4.5d libopencv-videoio4.5d libopenexr25 libopenmp10 libosmgsmap-1.0-1 libpgm-5.3-0 libportmidi0 libpq5 libproj22 libpugixml1v5 libqhull-r8.0 libquadmath0 librabbitmq4 librtp10 libsd12-2.0-0 libshine3 libsnappy1v5 libsocket++1 libspatialite7 libsr1.4-gnutls libssh-gcrypt-4 libsuperlus libswresample3 libwscale5 libsz2 libtbb2 libtbbmalloc2 libudfread0 liburiparser1 libva-drm2 libva-x11-2 libva2 libvdpa1 libx264-163 libx265-199 libxerces-c3.2 libxvidcore4 libyuv0 libzmq5 libzvbi-common libzvbi0 mesa-va-drivers mesa-vdpau-drivers mysql-common ocl-icd-libopencl1 proj-bin proj-data unixodbc-common va-driver-all vdpau-driver-all
- Suggested packages:**
  - i965-v4-driver-shaders apache2 | lighttpd | httpd libcuda1 libnvivid1 libnvidia-encode1 libbluray-bdj libfftw3-bin libfftw3-dev geotiff-bin gdal-bin libgeotiff-epsg graphicsmagick-dbg libhdf4-doc libhdf4-alt-dev hdf4-tools odbc-postgresql tdsodbc opengl-icd libvdpau-va-g1
- The following NEW packages will be installed:**
  - darktable fonts-roboto fonts-roboto-unhinted gdal-data gsfonts i965-v4-driver intel-media-v4-driver javascript-common libaacs0 libaec0 libaom3 libarmadillo10 libbarpack2 libavcodec58 libavformat58 libavif13 libavutil56 libbdplus0 libblas3 libblosc1 libbluray2 libcfitsio9 libcharls2 libchromaprint1 libcodecs2-1.0 libdavid5 libdc1394-25 libde265-0 libdecor-0-0 libdecor-0-plugin-1-cairo libgmic1 libgraphicsmagick++-q16-12 libgraphicsmagick-q16-3 libgsm1 libhdf4-0-alt libhdf5-103-1 libhdf5-hl-100 libheif-plugin-aomenc libheif-plugin-david libheif-plugin-libde265 libheif-plugin-x265 libheif1 libigdmm2 libilmbase25 libjs-prototype libjs-scriptaculous libkmlbase1 libkmldom1 libkmlengine1 liblapack3 liblensfun-data-v1 liblensfun1 libluas5.4-0 libmfx1 libminizip1 libmysqlclient21 libnetcdf19 libnorm1 libodbc2 libodbcinst2 libogdi4.1 libopencv-core4.5d libopencv-imgcodecs4.5d libopencv-imgproc4.5d libopencv-videoio4.5d libopenexr25 libopenmp10 libosmgsmap-1.0-1 libpgm-5.3-0 libportmidi0 libpq5 libproj22 libpugixml1v5 libqhull-r8.0 libquadmath0 librabbitmq4 librtp10 libsd12-2.0-0 libshine3 libsnappy1v5 libsocket++1 libspatialite7 libsr1.4-gnutls libssh-gcrypt-4 libsuperlus libswresample3 libwscale5 libsz2 libtbb2 libtbbmalloc2 libudfread0 liburiparser1 libva-drm2 libva-x11-2 libva2 libvdpa1 libx264-163 libx265-199 libxerces-c3.2 libxvidcore4 libyuv0 libzmq5 libzvbi-common libzvbi0 mesa-va-drivers mesa-vdpau-drivers mysql-common ocl-icd-libopencl1 proj-bin proj-data unixodbc-common va-driver-all vdpau-driver-all
- Upgrades:**
  - 0 upgraded, 124 newly installed, 0 to remove and 83 not upgraded.
- Archives:**
  - Need to get 87.2 MB/95.5 MB of archives.
- After this operation, 332 MB of additional disk space will be used.**
- Downloads:**
  - Get:1 http://th.archive.ubuntu.com/ubuntu jammy/universe amd64 libaom3 amd64 3.3.0-1 [1,748 kB]
  - Get:2 http://th.archive.ubuntu.com/ubuntu jammy/universe amd64 libdavid5 amd64 0.9.2-1 [463 kB]
  - Get:3 http://th.archive.ubuntu.com/ubuntu jammy/universe amd64 libavif1-0 amd64 0.17.0-1build1 [336 kB]
  - Get:4 http://th.archive.ubuntu.com/ubuntu jammy/universe amd64 libyuv0 amd64 libyuv0 0.0-git20220104.b91df1a-2 [154 kB]

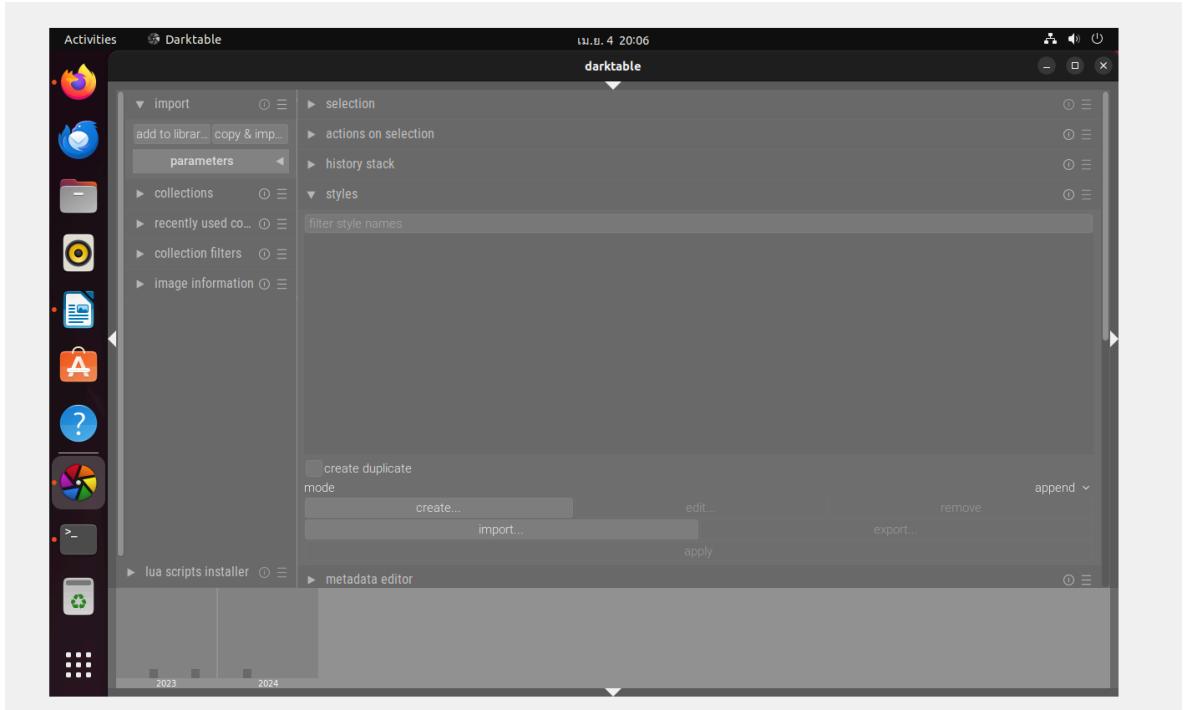
**—long time later—**

```
Setting up fonts-roboto (2:0~20170802-3) ...
Setting up libjs-scriptaculous (1.9.0-2.1) ...
Setting up libarpack2:amd64 (3.8.0-1) ...
Setting up libsuperlu5:amd64 (5.3.0+dfsg1-2) ...
Setting up proj-bin (8.2.1-1) ...
Setting up libavutil56:amd64 (7:4.4.2-0ubuntu0.22.04.1) ...
Setting up va-driver-all:amd64 (2.14.0-1) ...
Setting up libgdcm3.0:amd64 (3.0.10-1build2) ...
Setting up libdecor-0-plugin-1-cairo:amd64 (0.1.0-3build1) ...
Setting up vdpa-driver-all:amd64 (1.4-3build2) ...
Setting up libhdf5-103-1:amd64 (1.10.7+repack-4ubuntu2) ...
Setting up libavif13:amd64 (0.9.3-3) ...
Setting up libswscale5:amd64 (7:4.4.2-0ubuntu0.22.04.1) ...
Setting up libhdf5-hl-100:amd64 (1.10.7+repack-4ubuntu2) ...
Setting up libarmadillo10 (1:10.8.2+dfsg-1) ...
Setting up libswresample3:amd64 (7:4.4.2-0ubuntu0.22.04.1) ...
Setting up libnetcdf19:amd64 (1:4.8.1-1) ...
Setting up libavcodec58:amd64 (7:4.4.2-0ubuntu0.22.04.1) ...
Setting up libchromaprint1:amd64 (1.5.1-2) ...
Setting up libavformat58:amd64 (7:4.4.2-0ubuntu0.22.04.1) ...
Setting up libheif-plugin-dav1d:amd64 (1.16.2-0ubuntu2-jammy) ...
Setting up libheif-plugin-libde265:amd64 (1.16.2-0ubuntu2-jammy) ...
Setting up libheif1:amd64 (1.16.2-0ubuntu2-jammy) ...
Setting up libgdal30 (3.4.1+dfsg-1build4) ...
Setting up libgraphicsmagick-q16-3 (1.4really1.3.38-1ubuntu0.1) ...
Setting up libgraphicsmagick++-q16-12 (1.4really1.3.38-1ubuntu0.1) ...
Setting up libopencv-imgcodecs4.5d:amd64 (4.5.4+dfsg-9ubuntu4) ...
Setting up libopencv-videoio4.5d:amd64 (4.5.4+dfsg-9ubuntu4) ...
Setting up libheif-plugin-x265:amd64 (1.16.2-0ubuntu2-jammy) ...
Setting up libheif-plugin-aomenc:amd64 (1.16.2-0ubuntu2-jammy) ...
Setting up libgm1c1:amd64 (2.9.4-4build1) ...
Setting up darktable (1:4.6.1-0build1-jammy) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu3) ...
Processing triggers for libc-bin (2.35-0ubuntu3.6) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for mailcap (3.70+nmu1ubuntu1) ...
Processing triggers for fontconfig (2.13.1-4.2ubuntu5) ...
Processing triggers for desktop-file-utils (0.26-1ubuntu3) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
tiu@tiu-VirtualBox: ~
```

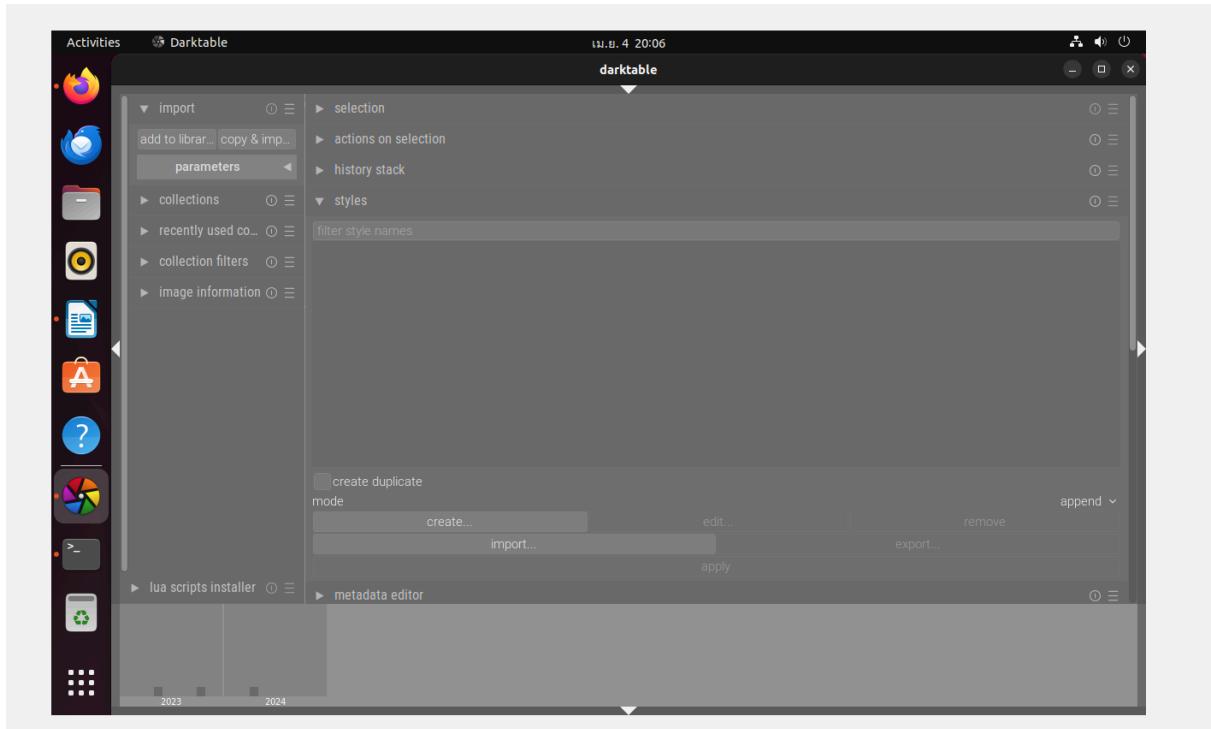
**Step 6 : Find Darktable.**

# My Project

## 1. Open Application.

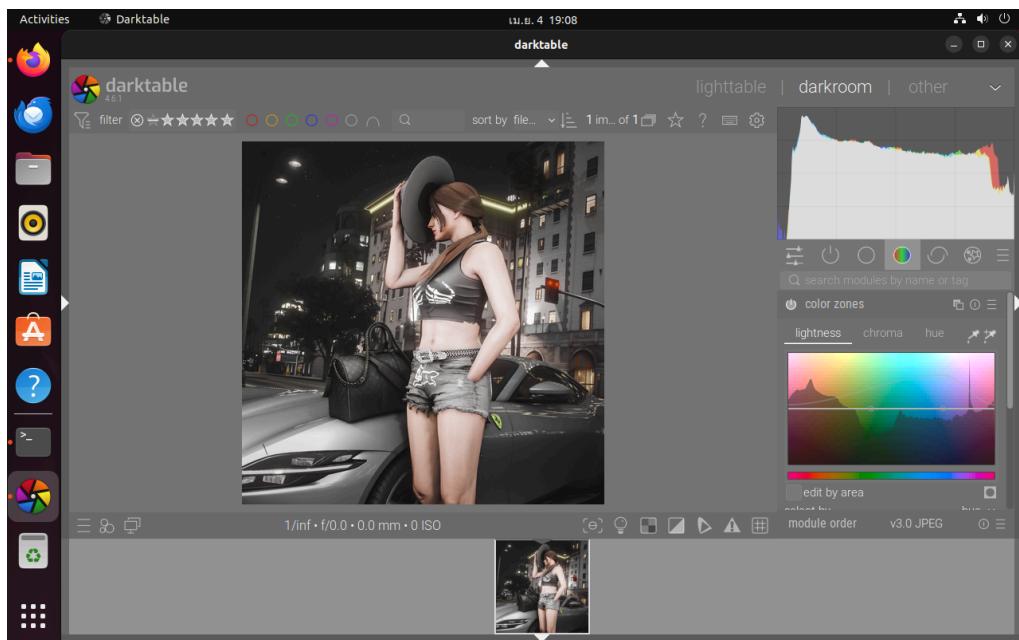


## 2. Import photo in folder.

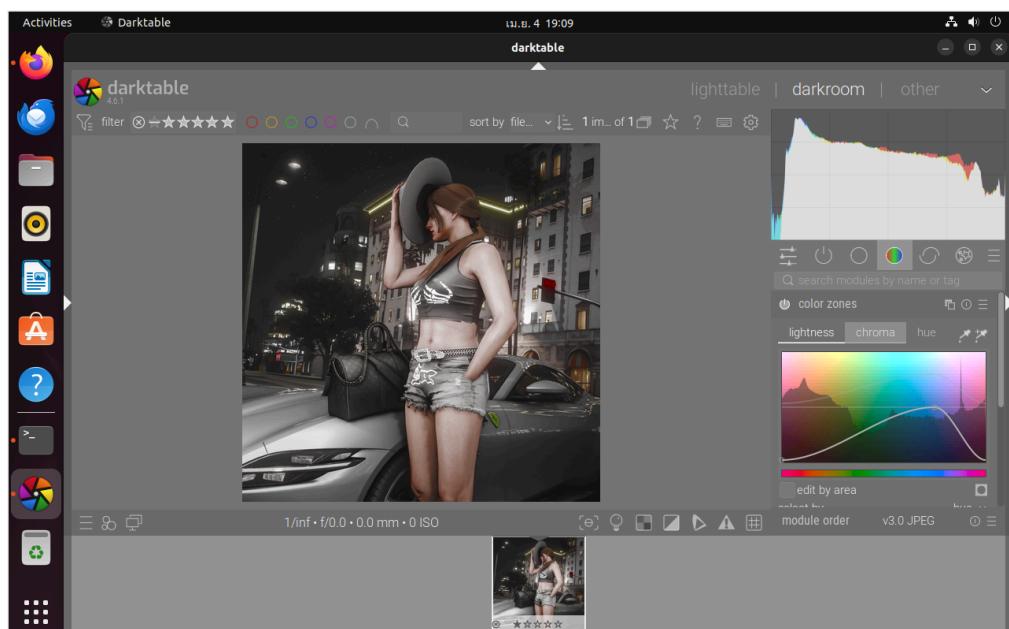


### 3. Darken the color zones to create a dark tone.

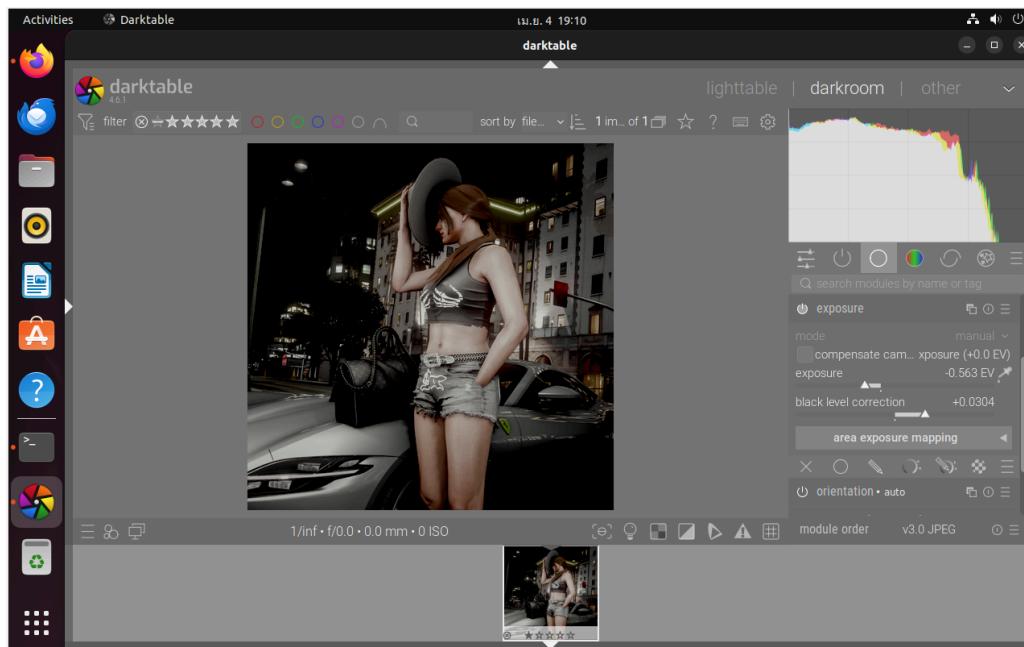
#### Before



#### After



**4. Reduce exposure to make skin tone less bright, and exposure can brighten the skin. If we shoot in the first episode, it's black.**



**5. And adjust the gain up here depending on the preferences of each person.**

## 6. Finish

—Before—



—After—



## Result

**Darktable is installed in ubuntu with the installation command  
and can be shaped. Perfect for people who can't install Lightroom.  
Useful in photo formation.**

## Conclusion

**After using the application, try to change the desired image and the desired color, or it will be various tones that many people want, or it will be a blurry view, Darktable is another option to decorate the image.**

## Biography

: How to install Darktable with command

- [How to Install Darktable on Ubuntu 22.04 - Linux Genie](#)

Link

: My Project

Githup

- <https://github.com/Nattiu/Masterpiece.git>

Google Drive

- <https://drive.google.com/drive/folders/14wG1Epfu4rniQwnOevYNQhN1TVOivY7f?usp=sharing>