

Install Transbot library

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1、Statement before installing the driver library

The Yahboom Transbot image system has been installed with the latest driver library. If you are using the image file provided by us, you didn't need to install the driver library file repeatedly.

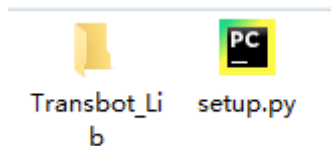
Driver library file path in Yahboom Transbot: ~/Transbot/py_install

For the method of installing the driver library, please refer to the following steps.

The installation of version V3.1.0 is taken as an example.

2、Download the Python driver library file

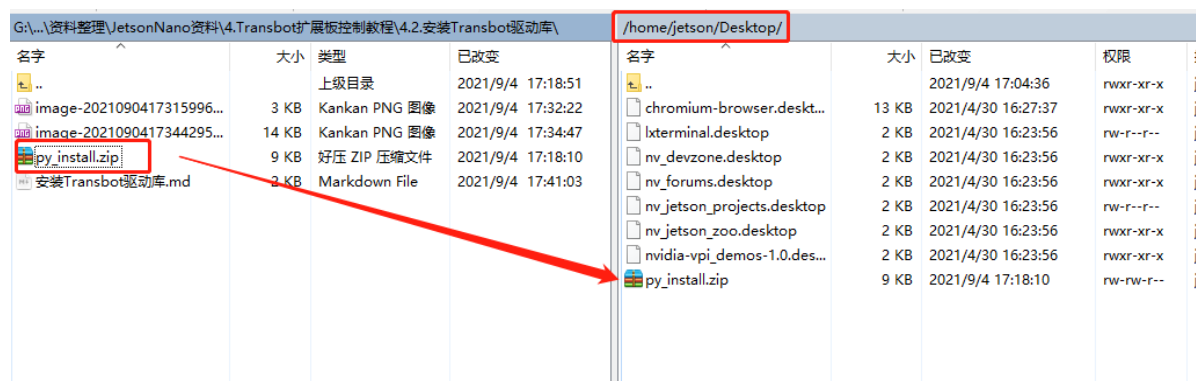
We have provided Transbot Python library -- py_install.zip.



Or you can download this file on our website, [Download]--[Transbot Library].

3、Transfer file to Jetson Nano system

You can transfer file into Jetson NANO system by WinSCP software. This software download link: <https://winscp.en.softonic.com/>



4、 Install steps

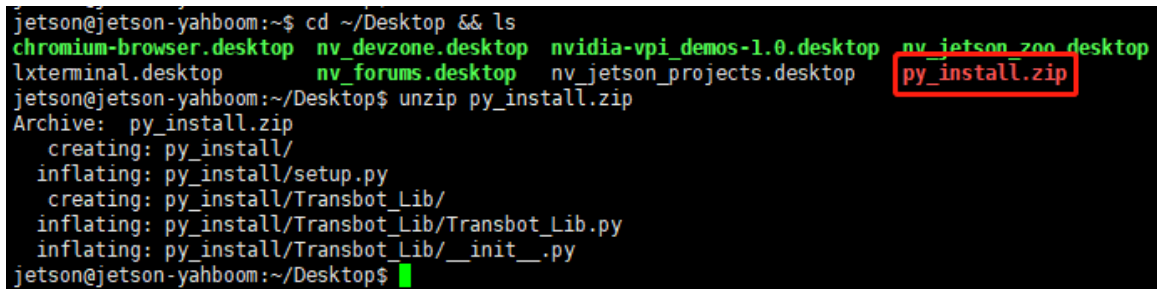
Open Jetson Nano's terminal and enter the following command to extract this zip file.

Go to the desktop and check whether the file exists, as shown below.

```
cd ~/Desktop && ls
```

Input following command to extract file.

```
unzip py_install.zip
```

A terminal window screenshot showing the command 'cd ~/Desktop && ls' and its output, which lists various desktop files including 'py_install.zip' (highlighted with a red box). Below this, the command 'unzip py_install.zip' is entered, and the output shows the creation and inflation of the 'py_install' directory and its sub-files: 'py_install/setup.py' and 'py_install/Transbot_Lib/Transbot_Lib.py' and 'py_install/Transbot_Lib/__init__.py'.

```
jetson@jetson-yahboom:~$ cd ~/Desktop && ls
chromium-browser.desktop  nv_devzone.desktop  nvidia-vpi_demos-1.0.desktop  nv_jetson_zoo.desktop
lxterminal.desktop        nv_forums.desktop   nv_jetson_projects.desktop    py_install.zip
jetson@jetson-yahboom:~/Desktop$ unzip py_install.zip
Archive:  py_install.zip
  creating: py_install/
  inflating: py_install/setup.py
   creating: py_install/Transbot_Lib/
  inflating: py_install/Transbot_Lib/Transbot_Lib.py
  inflating: py_install/Transbot_Lib/__init__.py
jetson@jetson-yahboom:~/Desktop$
```

Note: This tutorial takes the py_install.zip compressed package on the desktop of the Jetson Nano system as an example.

If you store the zip package in a different path, please enter the corresponding directory according to the actual path to operate.

Input following command to enter library folder.

```
cd py_install
```

Input following command, when you see the version number, which means it will be installed successfully. This command will overwrite the previously installed Transbot_Lib driver library.

```
sudo python3 setup.py install
```

```

jetson@jetson-yahboom:~/Desktop$ cd py_install
jetson@jetson-yahboom:~/Desktop/py_install$ sudo python3 setup.py install
running install
running bdist_egg
running egg_info
creating Transbot_Lib.egg-info
writing Transbot_Lib.egg-info/PKG-INFO
writing dependency links to Transbot_Lib.egg-info/dependency_links.txt
writing top-level names to Transbot_Lib.egg-info/top_level.txt
writing manifest file 'Transbot_Lib.egg-info/SOURCES.txt'
reading manifest file 'Transbot_Lib.egg-info/SOURCES.txt'
writing manifest file 'Transbot_Lib.egg-info/SOURCES.txt'
installing library code to build/bdist.linux-aarch64/egg
running install_lib
running build_py
creating build
creating build/lib
creating build/lib/Transbot_Lib
copying Transbot_Lib/__init__.py -> build/lib/Transbot_Lib
copying Transbot_Lib/Transbot_Lib.py -> build/lib/Transbot_Lib
creating build/bdist.linux-aarch64
creating build/bdist.linux-aarch64/egg
creating build/bdist.linux-aarch64/egg/Transbot_Lib
copying build/lib/Transbot_Lib/__init__.py -> build/bdist.linux-aarch64/egg/Transbot_Lib
copying build/lib/Transbot_Lib/Transbot_Lib.py -> build/bdist.linux-aarch64/egg/Transbot_Lib
byte-compiling build/bdist.linux-aarch64/egg/Transbot_Lib/__init__.py to __init__.cpython-36.pyc
byte-compiling build/bdist.linux-aarch64/egg/Transbot_Lib/Transbot_Lib.py to Transbot_Lib.cpython-36.pyc
creating build/bdist.linux-aarch64/egg/EGG-INFO
copying Transbot_Lib.egg-info/PKG-INFO -> build/bdist.linux-aarch64/egg/EGG-INFO
copying Transbot_Lib.egg-info/SOURCES.txt -> build/bdist.linux-aarch64/egg/EGG-INFO
copying Transbot_Lib.egg-info/dependency_links.txt -> build/bdist.linux-aarch64/egg/EGG-INFO
copying Transbot_Lib.egg-info/top_level.txt -> build/bdist.linux-aarch64/egg/EGG-INFO
zip_safe flag not set; analyzing archive contents...
creating dist
creating 'dist/Transbot_Lib-3.1.0-py3.6.egg' and adding 'build/bdist.linux-aarch64/egg' to it
removing 'build/bdist.linux-aarch64/egg' (and everything under it)
Processing Transbot_Lib-3.1.0-py3.6.egg
Copying Transbot_Lib-3.1.0-py3.6.egg to /usr/local/lib/python3.6/dist-packages
Removing Transbot-Lib 2.5.3 from easy-install.pth file
Adding Transbot-Lib 3.1.0 to easy-install.pth file

Installed /usr/local/lib/python3.6/dist-packages/Transbot_Lib-3.1.0-py3.6.egg
Processing dependencies for Transbot-Lib==3.1.0
Finished processing dependencies for Transbot-Lib==3.1.0
jetson@jetson-yahboom:~/Desktop/py_install$

```

5、 Check version

Input following command in the terminal to view the version number of Transbot-Lib,

```
pip3 list | grep Transbot
```

```

jetson@jetson-yahboom:~/Desktop/py_install$ pip3 list | grep Transbot
Transbot-Lib          3.1.0
WARNING: You are using pip version 21.2.3; however, version 21.2.4 is available.
You should consider upgrading via the '/usr/bin/python3 -m pip install --upgrade pip' command.
jetson@jetson-yahboom:~/Desktop/py_install$

```

You can import this library by following code.

```
from Transbot_Lib import Transbot
```

6、 Basic usage of the driver library

Check video tutorial.

Code path: Transbot/Samples/2.test_transbot.ipynb

