How to Install NumPy on Ubuntu 20.04

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NumPy is a python library used for scientific computing. It offers the followings and much more.

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shape manipulation

By Oltjano Terpollari | Updated March 16, 2021 | Tutorials

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• basic linear algebra

· basic statistical operations

- random simulation
- In this tutorial we learn how to **install NumPy** on **Ubuntu 20.04**.
- **Install pip on Ubuntu**

Pip is the official tool for managing python packages. It helps to install, uninstall and upgrade a specific package to the latest version. Developers find this utility very useful when it comes to

installing the whole package dependencies of a project.

Download pip for **python 2** using wget command: \$ wget https://bootstrap.pypa.io/2.7/get-pip.py -0 get-pip27.py

Now to Install pip run the following command:

\$ sudo python2 get-pip27.py

\$ wget https://bootstrap.pypa.io/get-pip.py -0 get-pip.py

As for the installation of **pip for python3**, the process is the same.

Download the script for pip:

To Install pip for python 3, type:

Install NumPy on Ubuntu

following command installs the NumPy package.

\$ sudo python3.9 get-pip.py

\$ python2 -m pip install numpy

The -m option helps to use a specific python package; in our case pip. On success, the following should be displayed on your console.

The pip utility helps to **install NumPy** for both versions of python. As for the python 2.x version, the

Collecting numpy

Installing collected packages: numpy

WARNING: The scripts f2py, f2py2 and f2py2.7 are installed in '/home/linoxide/.loca Consider adding this directory to PATH or, if you prefer to suppress this warning, Successfully installed numpy-1.16.6

For the installation of numpy on python 3, run the following command.

The option **show** helps to identify an installed python package.

Downloading numpy-1.16.6-cp27-cp27mu-manylinux1_x86_64.whl (17.0 MB)

| 17.0 MB 12.2 MB/s

\$ python3.9 -m pip install numpy Verify the installation.

\$ python3.9 -m pip show numpy

License: BSD

python 3.

Name: numpy Version: 1.20.0 Summary: NumPy is the fundamental package for array computing with Python. Home-page: https://www.numpy.org Author: Travis E. Oliphant et al. Author-email: None

Location: /home/linoxide/.local/lib/python3.9/site-packages Requires: Required-by: linoxide@ubuntu:~\$ numpy package for python3 \$ python2 -m pip show numpy

import numpy as np linoxide@ubuntu:~\$ python3.9

Upgrade NumPy to the latest version

Import numpy from the python interactive shell

Python 3.9.1 (default, Jan 30 2021, 04:45:04) [GCC 9.3.0] on linux Type "help", "copyright", "credits" or "license" for more information. >>> import numpy as np Import numpy

The following command imports the library under the name of np. It works both for python 2 and

The pip utility has an option that helps to **upgrade** an installed package to the latest version.

To upgrade numpy for python 2, type:

\$ pip2 install --upgrade numpy

\$ pip3 install --upgrade numpy

For python 3 run the following command:

python 3. You also learned how to upgrade the numpy package to the latest version.

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Python Ubuntu

Final thoughts

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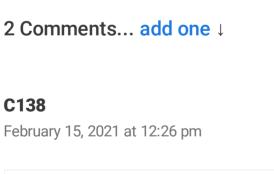
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Through this article, you learned how to properly install the numpy package for both python 2 and



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on ubuntu

apt install -s python3-numpy -t focal Inst python3-numpy (1:1.17.4-5ubuntu3 Ubuntu:20.04/focal [amd64]) ??

That will install a pre-compiled binary package, which could be a slightly older version. Installation via pip help to get newer files and optimized with compilation

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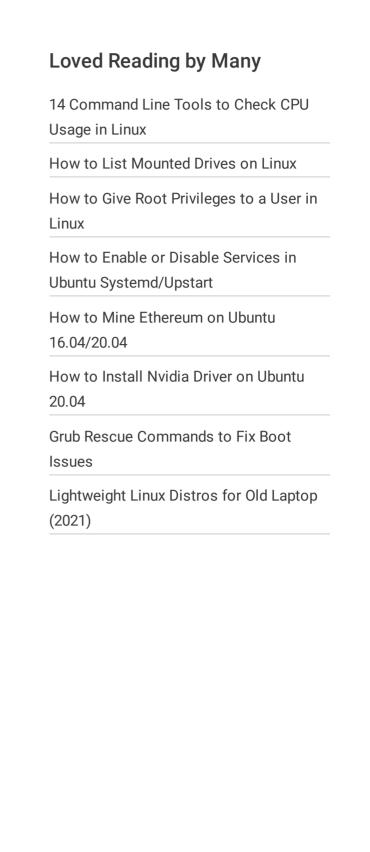
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