

## Install Numpy on Ubuntu 20.04 Focal Fossa Linux

Lubos Rendek

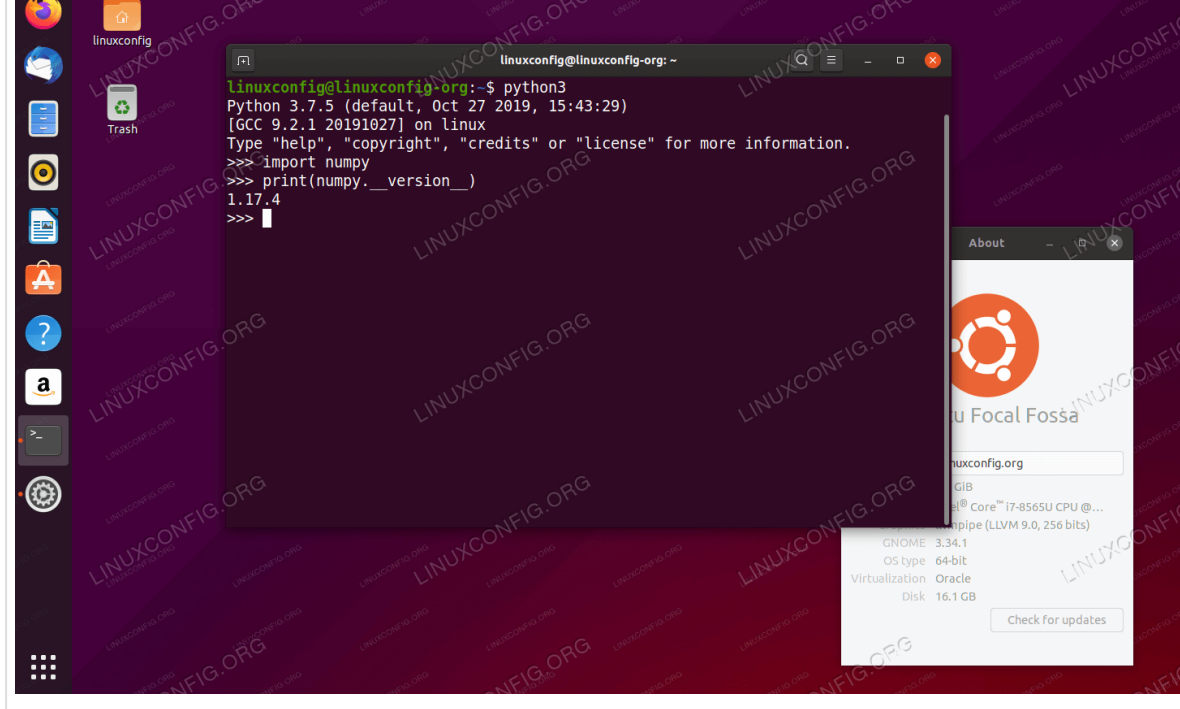
Ubuntu

21 April 2020

Numpy is a Python library, which supports large, multi-dimensional arrays and matrices. It also offers a wide set of high-level mathematical functions to operate on these arrays. The objective of this short guide is to install NumPy on [Ubuntu 20.04](#) Focal Fossa Linux.

In this tutorial you will learn:

- How to install Numpy from the Ubuntu repository
- How to install Numpy using pip or pip3 commands
- How to upgrade Numpy to its latest version



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## Software Requirements and Conventions Used

Software Requirements and Linux Command Line Conventions

| Category    | Requirements, Conventions or Software Version Used  |
|-------------|---|
| System      | Installed or <a href="#">upgraded Ubuntu 20.04 Focal Fossa</a>  |
| Software    | python,python3  |
| Other       | Privileged access to your Linux system as root or via the <code>sudo</code> command.  |
| Conventions | <b>#</b> - requires given <a href="#">linux commands</a> to be executed with root privileges either directly as a root user or by use of <code>sudo</code> command<br><b>\$</b> - requires given <a href="#">linux commands</a> to be executed as a regular non-privileged user |

## Install Numpy on Ubuntu 20.04 step by step instructions

### Install Numpy from Ubuntu repository

**Step 1** To install Numpy on Ubuntu 20.04 execute the following command. Make a selection between Python 2 or Python 3 or possibly install both:

```
PYTHON 2:
$ sudo apt install python-numpy
PYTHON 3:
$ sudo apt install python3-numpy
```

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**Step 2** Check Numpy version:

```
$ python -c "import numpy; print(numpy.__version__)"
1.16.5
$ python3 -c "import numpy; print(numpy.__version__)"
1.17.4
```

### Install Numpy using pip / pip3 command

**Step 1** Given that you have already [installed Python installer pip on you Ubuntu 20.04](#) host, you can now easily install [numpy](#) by using the [pip](#) or [pip3](#) command:

```
PYTHON 2:
$ pip install numpy
PYTHON 3:
$ pip3 install numpy
```

**Step 2** Check Numpy version:

```
$ python -c "import numpy; print(numpy.__version__)"
1.16.5
$ python3 -c "import numpy; print(numpy.__version__)"
1.17.4
```

### Upgrade numpy to latest version

In case you have installed [numpy](#) from the Ubuntu repository you can upgrade it by simply executing the following [Linux command](#):

```
PYTHON 2:
$ sudo apt install python-numpy
PYTHON 3:
$ sudo apt install python3-numpy
```

Execute the bellow commands, in case you need to upgrade numpy to the latest version with the [pip](#) or [pip3](#) :

```
PYTHON 2:
$ pip install --upgrade numpy
PYTHON 3:
$ pip3 install --upgrade numpy
```

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- [Install Python 2 on Ubuntu 20.04 Focal Fossa Linux](#)
- [How to install Python package installer PIP on Ubuntu 20.04 Focal Fossa Linux](#)
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