

[virtualenv](#) is a tool to create isolated Python environments. You can read more about it in the [Virtualenv documentation](#). This article provides a quick summary to help you set up and use a virtual environment.

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If you're running Ubuntu 16.04 LTS (or and earlier version), Python 3.5 is likely installed by default. *Don't remove it!* To get Python 3.6, follow the instructions in this section.

Run the following command to add the Python 3.6 PPA.

```
sudo add-apt-repository ppa:jonathonf/python-3.6
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Check for updates and install Python 3.6 via the following commands.

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```
sudo apt-get update
sudo apt-get install python3.6
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For more information on this subject, check out Jim's article [How to Install Python 3.6.1 in Ubuntu 16.04 LTS](#).

`cd` to your project directory and run `virtualenv` to create the new virtual environment.

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The following commands will create a new virtual environment under `my-project/my-venv`.

```
cd my-project
virtualenv --python python3.6 venv
```

Now that we have a virtual environment, we need to activate it.

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```
source venv/bin/activate
```

After you activate the environment, your command prompt will be modified to reflect the change.

After you activate the virtual environment, you can add packages to it using `pip`. You can also create a description of your dependencies using `pip`.

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The following command creates a file called `requirements.txt` that enumerates the installed packages.

```
pip freeze > requirements.txt
```

This file can then be used by collaborators to update virtual environments using the following command.

```
pip install -r requirements.txt
```

To return to normal system settings, use the `deactivate` command.

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deactivate

After you issue this command, you'll notice that the command prompt returns to normal.

Much of this article is taken from [The Hitchhiker's Guide to Python](#). Go buy a copy right now.

