

Python Basicks Trainig

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1 Python Coding Conventions

This document explains how to use rst2pdf. Here is the very short version:

```
rst2pdf.py mydocument.txt -o mydocument.pdf
```

That will, as long as mydocument.txt is a valid Restructured Text (ReST) document, produce a file called mydocument.pdf which is a PDF version of your document.

```
def test(self):  
    self.do_it()
```

Oh my dog.

2 Python Virtual Environment

- A Virtual Environment is a tool to keep the dependencies required by different projects in separate places.
- “Project X depends on module version 1.x but, Project Y needs 4.x”
- It keeps your global site-packages directory clean and manageable.

```
# install virtual env
$ sudo apt-get install python3-venv
$ pip install virtualenv

# create new environment
$ python3.5 -m venv training

# use it
$ source training/bin/activate
(training) $ which python
/home/lttyrala/work/training/bin/python
(training) $ which pip
/home/lttyrala/work/training/bin/pip

# install some libraries
(training) $ pip install numpy
Collecting numpy
  Downloading numpy-1.11.2-cp35-cp35m-manylinux1_x86_64.whl (15.6MB)
    100% |████████████████████████████████████████████████████████████████████████████████| 15.6MB 97kB/s
Installing collected packages: numpy
```

Successfully installed numpy-1.11.2

```
# save your local environment state
```

```
(training) $ pip freeze --local > requirements.txt
```

```
(training) $ cat requirements.txt
```

numpy==1.11.2

pylint==1.6.4

```
# restore environment from file
```

```
(training) $ pip install -r requirements.txt
```

Collecting numpy

Downloading numpy-1.11.2-cp35-cp35m-manylinux1_x86_64.whl (15.6MB)

[illegible]

```
Installing collected packages: numpy
```

Successfully installed numpy-1.11.2

```
# exit
```

```
(training) $ deactivate
```

```
$ which python
```

```
/usr/bin/python
```

3 Python Package Indexer

aaa

```
$ pip list  
$ pip install requests  
$ pip search xml  
$ pip show beautifulsoup4  
$ pip uninstall requests
```