



Python Bootcamp

U.C.P. Lahore, November 2018

About Us

Muzzammil Hussain

Principal Software Engineer
Arbisoft

Mateen Ahmed

Senior Software Engineer
Arbisoft

Topics

- Introduction
- Installation + Setting up Editor
- Language Basics
- Pip
- Debugging
- Virtual Environments
- Linting (Bonus)
- Testing (Bonus)

Why Python?

- Python has a supportive and active community
- Python is reliable and efficient
- Python has big data
- Python has amazing libraries
- Python is accessible

Installation + Setting up Editor

- Choose Python 3.x for all future projects
- You can use Anaconda (www.anaconda.com) for installation
- Microsoft VSCode is free and cross platform IDE with debugging/linting capabilities

Language Basics

- <https://learnxinyminutes.com/docs/python3/>
- Practice project link:

<https://bit.ly/2QNf4QE>

Pip

- Pip is a package management system used to install and manage software packages written in Python.
- Pip install some-package-name
- Pip uninstall some-package-name
- Pip list
- Reading material at <https://docs.python.org/3/installing/index.html>

Debugging

- Debugging tools makes troubleshooting easier
- We can inspect code line by line, set breakpoints or add variables to watch
- Reading meterial at <https://code.visualstudio.com/docs/python/debugging>

Virtual Environments

- The venv module provides support for creating lightweight “virtual environments”
- Each virtual environment has its own Python binary, directories optionally isolated from system site directories
- `python -m venv /path/to/new/virtual/environment`
- Reading material at <https://docs.python.org/3/library/venv.html>



A large, semi-transparent Python logo is centered in the background. It consists of two interlocking snakes, one light blue and one light yellow, with a subtle drop shadow.

Bonus Topics

Linting

- Linting highlights syntactical and stylistic errors in your Python source code
- Reading material at <https://code.visualstudio.com/docs/python/linting>

Testing

- Python has built in unit testing framework.
- Reading material at <https://docs.python.org/3/library/unittest.html>