



Introduction to Python

Kalpita Bhawalkar.

Python Bootcamp
Nagpur, 2017.



History of Python

- Created by Guido Von Rossum around 1989, released in 1991.
- Interpreted.
- Inspired from Monty Python.
- Major changes at 3.0.

Design philosophy

- Easy to read
- Highly extensible
- Small language, huge standard library

Zen of Python

"""Beautiful is better than ugly.

Explicit is better than implicit.

Simple is better than complex.

- Complex is better than complicated..."""

- import this

Syntax



- Easy to read
- Indentation
- “Only one way to do it.”

Acronyms



- BDFL
- PSTL
- IDLE
- PEP
- PIP



Open source

- PIP hosts 92,000 packages.
- Fastest growing language on Github.
- Level playground.

Issues?

- `dir()`
- `help()`
- RTFM
- Google is your friend.

Syllabus



- Setup.
- Syntax
- String manipulations.
- Conditionals.
- Data structures.
- Loops.
- OOPS.

Syllabus



- Introduction to web scraping.
- Introduction to facebook API.
- Introduction to Data Science with Python.



Install Python and Sublime Text

1. Download Python.

-<https://www.python.org/downloads/release/python-344/>

2. Download Sublime Text.

- <https://www.sublimetext.com/3>

Linux

1. From package managers.

- `sudo apt-get install python3-minimal`

2. From Source code.

- `tar xvfz Python-3.x.x.tgz`
- `cd Python-3.x.x`
- `./configure`
- `make`
- `sudo make install`

Windows

The following different installation options are available.

- Windows x86 MSI installer
- Windows x86-64 MSI installer

Mac

1. Mac OS X 64-bit/32-bit installer – python-3.x.x-macosx10.6.pkg
2. Mac OS X 32-bit i386/PPC installer – python-3.x.x-macosx10.5.pkg

Setting up Path

1. Linux

- `export PYTHONPATH=/usr/bin/python3.4`

2. Windows

- `path %path%;C:\Python3.4`

Hello world!



- `print('hello world!')`



Introduction to Python

Kalpita Bhawalkar.
kalpita@vritta.com