Python 2 vs Python 3

pip

Interpreted language

Standard output – print

Variables

Boolean

Integer

String

Integer operations

String methods

Functions

Main function

Arguments and Parameters

Variable scope

Data structures

List

List methods

Set

Set methods

Dictionary

Dictionary methods

Dictionary views

If else

Null and None

Conditions: in, any, all

For loop

While

Mutable and Immutable

Modules

Libraries

Object

Methods vs Functions

Import json (dump, dumps, load, loads)

Json parse

List comprehension

Set comprehension

Dictionary comprehension

\*args

\*\*kwargs

Lambda experessions

Decorators

Map()

Zip()

Descriptor

Equality vs Identity

Built-in modules

Itertools

Functools

Collections

Functional programming in python

Memorization

Currying

Monads

Pickling and unpickling

Serialization

Custom Json Encoder

Set and FrozenSet

Specialized Dictionaries

DefaultDict

Factory Functions

OrderedDict

Counter

UserDict

ChainMap

Tuples

Shallow copy

Deep copy

Iterables

Callables

Iterators

Yield

Generators

Asynchio

Awaitable

Thread vs Coroutine

Promise (concept – JS)

Future (concenpt – Java)

Beautiful Soup

Marshmallow

Requests

Regular experssions (re)

Object oriented python

Design patterns

@Property

Python garbage collector

Python memory management

Unittests

Debugging in Python

Python code profiling

Optimization

Self

Magic methods

Metaprogramming in python

Python for Data Science

Numpy, pandas, matplotlib, seaborn

Python for web: Flask