

Intro To Python: Class 1 Outline

1) Why Python is dominant

Review CG_Software_Python.pdf in <https://github.com/skoshiwosh/cgpython>

2) Review python_docs.pdf in:

<https://github.com/skoshiwosh/cgpython>

3) Cookbook Recipe: Computer Program Paradigm

sequence of tasks, condition, repetition, interrupts, assistants doing separate tasks

4) Computer Architecture

memory, ALU or CPU, registers, data bus, input/output devices, operating system

Review Computer_Architecture in <https://github.com/skoshiwosh/cgpython>

Intro to Computer Architecture

https://www.youtube.com/watch?v=HEjPop-aK_w

5) Data Representation

byte, word, signed and unsigned integers, floating point, stack, array, linked list

binary vs hexadecimal vs decimal

6) Assembler vs Compiler vs Interpreter

7) C++ vs Python

Review cplusplus_vs_python.pdf in <https://github.com/skoshiwosh/cgpython>

8) Command Line Interpreter

Introduction to using a command-line interface on Windows and overall concepts pertaining to all operating systems.

Review cmdinterpreter.pdf in <https://github.com/skoshiwosh/cgpython>

9) Using Python Idle

Demonstrate use of Idle both shell and editor. Introduce concept of IDE.

Introduce other IDEs used: PyCharm, Emacs, Eclipse, Sublime, etc

10) Present Homework

class1_homework.pdf

11) Other docs in <https://github.com/skoshiwosh/cgpython>

python_keys_funcs.pdf, python_variables_types.jpg, bin_hex_ascii.pdf, python_expressions.pdf

12) Python Scripts

Review templatescript.py, demoscrypt.py, seqtypes.py and other python scripts in:

<https://github.com/skoshiwosh/democode>