Intro to Python: Class 5 Outline

Concepts introduced here will be demonstrated using sample scripts and documents in: https://github.com/skoshiwosh/democode and https://github.com/skoshiwosh/cgpython

- 1) Third Party Modules Overview
 - PySide2, PyQt5, OpenImageIO, PIL, NumPy, SciPy, OpenCV
 - maya.cmds, maya.mel, OpenMaya, PyMel
 - python modules for Houdini, Nuke, MotionBuilder, Clarisse
- 2) Intro to Python Scripting in Maya
 - userSetup.py, Maya.env
 - custom shelves, Maya's script editor
 - review zurbrigg_tutorials.pdf
- 3) Review important may commands: these are some
 - file, Is, select, group, getAttr, setAttr, addAttr, listAttr, connectAttr, listRelatives, listConnections, objExists, makeIdentity, delete, move, scale, rotate, xform, quit, rename, duplicate, polyCube, sphere, curve, keyframe, setKeyframe, playbackOptions, render, camera, particle, emitter, expression, loadPlugin, unloadPlugin
 - strategy to create Maya python script is to perform operations manually then translate echoed mel commands to Maya python commands
- 4) Demo maya.cmds and scnutils.py
- 5) Use these may a scene files to demonstrate May a Python commands
 - primitives_03.ma, circus_flybird_v06.ma, run_makecity_01.ma, city_bldings_hill_v03.ma
- 6) Review patterns web.py and src html.py