Python Review

Learning Objectives

- How to use Python
- Good programming practices

Basic Python

- What is Python?
- What libraries should I use?
- How do I import data?
- How do I use a dict{}?

What libraries should I

use?

Library name	What does it do?
sys	Accesses interpreter variables
os	Command line processes
datetime	Date & time conversion
glob	Unix style pathname
math	math
numpy	Advanced math
scipy	Accesses scientific algorithms
csv	Handles CSV files
matplotlib	Numerical plotting
pdb	Python debugger
pygame/pyglet	Game development
pywin32	Windows interaction

Basic Debugging

- Print() & sys.exit()
- Assertion
- Raising & handling Exceptions
- PDB library

Good Programming Practices

- Design by contract
- Naming conventions
- Save functions for later use
- Use Git!
- Re-use code!
- Plan for mistakes
- Comment comment!!!
- Use Sphinx!
- Collaborate
- Follow good data management practices
- Don't use global variables!!!