Computation, Problem Set #1b, Python Intro

OSE Lab

Due Monday, July 8 at 11:00pm

Do the following Exercises from the Brigham Young University Applied Mathematics and Computational Emphasis (ACME) Python labs Humpherys and Jarvis (2017).

1. **Exercises from ACME: Intro to NumPy lab.** Do problems 1 through 7 from Intro to NumPy lab. You will need to download the grid.npy object, which is saved in the course repository.

2. **Exercises from ACME: Python Standard Library lab.** Do problems 1 through 5 from Python Standard Library lab. You will need to download the box.py module, which is saved in the course repository.

3. **Exercises from ACME: Data Visualization lab.** Do problems 2, 3, 5, and 6 from Data Visualization lab. You will need to load the MLB.npy and countries.npy data, which are saved in the course repository.

4. **Exercises from ACME: Intro to Matplotlib lab.** Do problems 1 through 5 from Intro to Matplotlib lab. You will need to load the FARS.npy module, which is saved in the course repository.

5. **Exercises from ACME: Object Oriented Programming lab.** Do problems 1 through 4 from Object Oriented Programming lab.

6. **Exercises from ACME: Exceptions and File/IO lab.** Do problems 1 through 4 from Exceptions and File I/O lab.

References

Humpherys, Jeffrey and Tyler Jarvis, "Computational Labs for Foundations of Applied Mathematics, Volumes I and II," 2017.