

## Unit Testing

### Objectives

- Practice Unit Testing
- Please pair-program today!

### Dynamic Analysis

First, review the [Python3 unittest Framework](#) docs.

Next, clone a copy of the Lab08-Files repo via git (<https://github.com/lizboese/CU-CSCI3308-PythonUnitTesting.git>). This repo includes a simple Python3 module with a class called 'Processor' that performs some basic analysis methods on the input text. Review the Lab08-Files for details.

The repo also contains the start of a Python3 unittest file: `textproc_test.py`. Execute this file to confirm that the single initial unit test passes.

Then, using within the existing `textproc_test.py` file:

1. Write a test to verify the constructor raises an error if passed something other than a string
2. Write one or more unit tests to test the `count()` method
3. Write one or more unit tests to test the `count_alpha()` method
4. Write one or more unit tests to test the `count_numeric()` method
5. Write one or more unit tests to test the `count_vowels()` method
6. Write one or more unit tests to test the `is_phonenumber()` method
7. Find and correct any bugs the tests turn up

**To get credit for this lab exercise, show the TA and sign the lab's completion log.**