

Unit Test Cheat-Sheet

Frankly, the unit testing library for Python is fairly well documented, but it can be a bit of a dry read. Instead, we suggest covering the core module concepts, and then reading in more detail later.

Best of Unit Testing Standard Library Module

Understand a Basic Example:

- <https://docs.python.org/3/library/unittest.html#basic-example>

Understand how to run the tests using the Command Line:

- <https://docs.python.org/3/library/unittest.html#command-line-interface>

Understand various Unit Test Design Patterns:

- <https://docs.python.org/3/library/unittest.html#organizing-test-code>
- Understand the uses of setUp, tearDown; setUpModule and tearDownModule

Understand basic assertions:

Method	Checks that	New in
<code>assertEqual(a, b)</code>	<code>a == b</code>	
<code>assertNotEqual(a, b)</code>	<code>a != b</code>	
<code>assertTrue(x)</code>	<code>bool(x)</code> is True	
<code>assertFalse(x)</code>	<code>bool(x)</code> is False	
<code>assertIs(a, b)</code>	<code>a</code> is <code>b</code>	3.1
<code>assertIsNot(a, b)</code>	<code>a</code> is not <code>b</code>	3.1
<code>assertIsNone(x)</code>	<code>x</code> is None	3.1
<code>assertIsNotNone(x)</code>	<code>x</code> is not None	3.1
<code>assertIn(a, b)</code>	<code>a</code> in <code>b</code>	3.1
<code>assertNotIn(a, b)</code>	<code>a</code> not in <code>b</code>	3.1
<code>assertIsInstance(a, b)</code>	<code>isinstance(a, b)</code>	3.2
<code>assertNotIsInstance(a, b)</code>	<code>not isinstance(a, b)</code>	3.2

Understand more specific assertions such as assertRaises

- <https://docs.python.org/3/library/unittest.html#unittest.TestCase.assertRaises>

Mark as completed