

Unit Test Cheat-Sheet

coursera.org/learn/python-operating-system/supplement/3WDVq/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
<u>assertEqual(a, b)</u>	a == b	
<u>assertNotEqual(a, b)</u>	a != b	
<u>assertTrue(x)</u>	bool(x) is True	
<u>assertFalse(x)</u>	bool(x) is False	
<u>assertIs(a, b)</u>	a is b	3.1
<u>assertIsNot(a, b)</u>	a is not b	3.1
<u>assertIsNone(x)</u>	x is None	3.1
<u>assertIsNotNone(x)</u>	x is not None	3.1
<u>assertIn(a, b)</u>	a in b	3.1

Method	Checks that	New in
<u>assertNotIn(a, b)</u>	a not in b	3.1
<u>assertIsInstance(a, b)</u>	isinstance(a, b)	3.2
<u>assertNotIsInstance(a, b)</u>	not isinstance(a, b)	3.2

Understand more specific assertions such as `assertRaises`

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