Cheatography

pytest usage Cheat Sheet by hvid2301 via cheatography.com/186766/cs/39050/

Installation

pip install pytest

Running pytest	
pytest test_mod.py	Run tests in module
pytest testing/	Run multiple modules
pytest test_mod.py::test_func	Run a specific test within a module.
pytest test_mod.py::TestClass::test- _method	Run a specific method of a class.

Assertions

pytest allows you to use the standard Python assert for verifying expectations and values in Python tests. For example, you can write the following:

assert a % 2 == 0	assert that you have a certain value.
assert a % 2 == 0, "value was odd, should be even"	specify a message with the assertion like this

Grouping in tests

@pytest.mark. <markername></markername>	mark it in tests
pytest tests/ -m "sanitytests"	run using -m flag

Disable tests

@pytest.mark.skip(

reason ="no way of currently testing this")

Assertion of expected exceptions

Test if the exception is raised

def test_zero_division():
 with pytest.raises(ZeroDivisionError):
 1 / 0

Test for specific exception info

```
def test_recursion_depth():
```

with pytest.ra ise s(R unt ime Error) as excinfo: assert " max imu m" in str(ex cin fo.v alue)

MultiThreading

pip install pytest-xdist
pytest tests/ -n 3

Pytest does not run in parallel by default, therefor we need to enable this behaviour through a plugin.

С

By hvid2301 cheatography.com/hvid2301/ Published 1st June, 2023. Last updated 1st June, 2023. Page 1 of 1.

Fixtures

In testing, a fixture provides a defined, reliable and consistent context for the tests. This could include environment (for example a database configured with known parameters) or content (such as a dataset).

<pre>@pytest.fixture def input_value(): input = 10 return input</pre>	Create fixture in conftest
<pre>def test_divisible_by_3(input_value): assert input_ value % 3 == 0</pre>	Use it in tests
<pre>@pytest.fixture def sending_user(mail_admin): user = mail_admin.create_user() yield user mail_a dmi n.d ele te_ use r(use r)</pre>	using yield to setup and teardown test environment
@pytest.fixture(scope="function")	Pytest fixtures have scope. This scope controls how often the fixture is executed or, in other words, how often the setup and teardown of the fixture is performed.
<pre>@pytest.fixture(scope="module")</pre>	

@pytest.fixture(scope="class")

@pytest.fixture(scope="session")

Data parameterization

```
The builtin pytest.mark.parametrize decorator enables parametri-
zation of arguments for a test function
```

Define parametrized tests

```
@pytes t.m ark.pa ram etr ize ("num, output",
 [(1,11),(2,22),(3,35),(4,44)])
```

```
def test_m ult ipl ica tio n_1 1(num, output):
    assert 11*num == output
```

Running specific tests of a parametrized test.

```
test_mod.py::test_multiplication_11[2-22]
```

Sponsored by CrosswordCheats.com Learn to solve cryptic crosswords! http://crosswordcheats.com