

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,	specify a message with
"value was od	dd, should be even"	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	inst	all	pyt	test	-xdis	31
pyt	est	test	cs/	-n	3	

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

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).

```
@pytest.fixture
                                            Create fixture
                                            in conftest
 def input_value():
    input = 10
    return input
def test divisible by 3(input value):
                                            Use it in tests
    assert input_ value % 3 == 0
@pytest.fixture
                                            using yield to
 def sending user(mail admin):
                                            setup and
                                            teardown test
     user = mail admin.create user()
                                            environment
     yield user
     mail a dmi n.d ele te_ use r(use
@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.

@pytest.fixture(scope="module")

@pytest.fixture(scope="class")

@pytest.fixture(scope="session")

Data parameterization

The builtin pytest.mark.parametrize decorator enables parametrization 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]



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