

Pytest and coverage Tool

<code>py.test <files></code>	Run py.test tool
<code>--maxfail=X</code>	Exit after failing X tests
<code>--duration=10</code>	Use this to Profile your tests (time taken)
<code>--cov=path</code>	Run coverage within the project path
<code>--cov-report term-missing</code>	Add this to show which lines were not covered

Packages to install:

```
pip install pytest
pip install pytest-sugar
pip install pytest-cov
```

Pytest with Flask

<code>client = app.test_client()</code>	Gives you an Test Client object
<code>client.get(url)</code>	Makes a GET request
<code>client.post(url, data=[])</code>	Makes a POST request
<code>client.put(url, data=[])</code>	Makes a PUT request

You can create a test client to test your Flask app

Coverage Configuration File

<code>.coveragerc</code>	Default filename looked for
<code>[report]</code>	Section defining the report
<code>exclude_lines =</code>	Exclude lines defined after

<http://coverage.readthedocs.io/en/latest/config.html>

Write after `exclude_lines =` the lines as they are in Python code

Fixture

<code>@pytest.fixture()</code>	Fixture decorator
<code>scope= "session"</code>	Scope for the fixture: Can be session, module, class or function
<code>params=[]</code>	For each value, the fixture will be called with that value (this makes multiple calls)
<code>autouse=False</code>	All tests in the session use the fixture automatically
<code>def my_fixture(request):</code>	Putting request object in fixture gives you access to the pytest request (e.g. put a finalizer)
<code>pytest --fixtures</code>	See all available fixtures

The purpose of test fixtures is to provide a fixed baseline upon which tests can reliably and repeatedly execute.

pytest-mock

In short, mocking is creating objects that simulate the behaviour of real objects.



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Page 1 of 1.

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