
pytest-ordering Documentation

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Contents

1	Quickstart	3
2	Other markers	5
3	Aspirational	7
3.1	Ordinals	7
3.2	By number	8
3.3	Relative to other tests	8

pytest-ordering is a pytest plugin to run your tests in any order that you specify. It provides custom [markers](#) that say when your tests should run in relation to each other. They can be absolute (i.e. first, or second-to-last) or relative (i.e. run this test before this other test).

Note: pytest-ordering is currently alpha-quality software. Notably, some of this documentation may be aspirational in nature. If something you read here isn't currently implemented, rest assured that I am working on it (or feel free to ping me: <https://github.com/ftobia>)

CHAPTER 1

Quickstart

Ordinarily pytest will run tests in the order that they appear in a module. For example, for the following tests:

```
def test_foo():
    assert True

def test_bar():
    assert True
```

Here is the output:

```
$ py.test test_foo.py -vv
===== test session starts =====
platform darwin -- Python 2.7.5 -- py-1.4.20 -- pytest-2.5.2 -- env/bin/python
collected 2 items

test_foo.py:2: test_foo PASSED
test_foo.py:6: test_bar PASSED

===== 2 passed in 0.01 seconds =====
```

With pytest-ordering, you can change the default ordering as follows:

```
import pytest

@pytest.mark.order2
def test_foo():
    assert True

@pytest.mark.order1
def test_bar():
    assert True
```

```
$ py.test test_foo.py -vv
===== test session starts =====
```

```
platform darwin -- Python 2.7.5 -- py-1.4.20 -- pytest-2.5.2 -- env/bin/python
plugins: ordering
collected 2 items

test_foo.py:7: test_bar PASSED
test_foo.py:3: test_foo PASSED

===== 2 passed in 0.01 seconds =====
```

This is a trivial example, but ordering is respected across test files.

CHAPTER 2

Other markers

You can also use markers such as “first”, “second”, “last”, and “second_to_last”:

```
import pytest

@pytest.mark.second_to_last
def test_three():
    assert True

@pytest.mark.last
def test_four():
    assert True

@pytest.mark.second
def test_two():
    assert True

@pytest.mark.first
def test_one():
    assert True
```

```
$ py.test test_foo.py -vv
===== test session starts =====
platform darwin -- Python 2.7.5 -- py-1.4.20 -- pytest-2.5.2 -- env/bin/python
plugins: ordering
collected 4 items

test_foo.py:17: test_one PASSED
test_foo.py:12: test_two PASSED
test_foo.py:3: test_three PASSED
test_foo.py:7: test_four PASSED

===== 4 passed in 0.02 seconds =====
```


This section is for functionality I'd like to implement. Documentation-driven design :)

3.1 Ordinals

```
import pytest

@pytest.mark.run('second-to-last')
def test_three():
    assert True

@pytest.mark.run('last')
def test_four():
    assert True

@pytest.mark.run('second')
def test_two():
    assert True

@pytest.mark.run('first')
def test_one():
    assert True
```

```
$ py.test test_foo.py -vv
===== test session starts =====
platform darwin -- Python 2.7.5 -- py-1.4.20 -- pytest-2.5.2 -- env/bin/python
plugins: ordering
collected 4 items

test_foo.py:17: test_one PASSED
test_foo.py:12: test_two PASSED
test_foo.py:3: test_three PASSED
test_foo.py:7: test_four PASSED
```

```
===== 4 passed in 0.02 seconds =====
```

3.2 By number

```
import pytest

@pytest.mark.run(order=-2)
def test_three():
    assert True

@pytest.mark.run(order=-1)
def test_four():
    assert True

@pytest.mark.run(order=2)
def test_two():
    assert True

@pytest.mark.run(order=1)
def test_one():
    assert True
```

```
$ py.test test_foo.py -vv
===== test session starts =====
platform darwin -- Python 2.7.5 -- py-1.4.20 -- pytest-2.5.2 -- env/bin/python
plugins: ordering
collected 4 items

test_foo.py:17: test_one PASSED
test_foo.py:12: test_two PASSED
test_foo.py:3: test_three PASSED
test_foo.py:7: test_four PASSED

===== 4 passed in 0.02 seconds =====
```

3.3 Relative to other tests

```
import pytest

@pytest.mark.run(after='test_second')
def test_third():
    assert True

def test_second():
    assert True

@pytest.mark.run(before='test_second')
def test_first():
    assert True
```

```
$ py.test test_foo.py -vv
===== test session starts =====
platform darwin -- Python 2.7.5 -- py-1.4.20 -- pytest-2.5.2 -- env/bin/python
plugins: ordering
collected 3 items

test_foo.py:11: test_first PASSED
test_foo.py:7: test_second PASSED
test_foo.py:4: test_third PASSED

===== 4 passed in 0.02 seconds =====
```