

Testing In Python

@igorgue



python™

[we need a logo for the group]

Examples:

<https://github.com/igorgue/testing-in-python-examples>

What's Testing?

“Verify software correctness automatically, controlling input and output” - me

Unit, Integration and Functional Tests

Unit Test Example

```
def save_transaction(transaction_id=None, value=None):  
    if not value:  
        raise KVErrror('You need a value to store')  
  
    if transaction_id:  
        save_to_db(key=transaction_id, value=value)  
    else:  
        save_to_db(key=None, value=value)
```

```
def save_transaction(transaction_id=None, value=None):  
    if not value:  
        raise KVErrror('You need a value to store')  
  
    if transaction_id:  
        save_to_db(key=transaction_id, value=value)  
    else:  
        save_to_db(key=None, value=value)
```

Integration Tests


```
def save_transaction(transaction_id=None, value=None):  
    if not value:  
        raise KVErrror( 'You need a value to store' )  
  
    if transaction_id:  
        save_to_db(key=transaction_id, value=value)  
    else:  
        save_to_db(key=None, value=value)  
  
def save_to_db(key, value):  
    database = get_database()  
  
    if not key:  
        key = generate_id()  
  
    database[key] = value  
    database.close()
```

```
def save_transaction(transaction_id=None, value=None):  
    if not value:  
        raise KVErrror('You need a value to store')  
  
    if transaction_id:  
        save_to_db(key=transaction_id, value=value)  
    else:  
        save_to_db(key=None, value=value)  
  
def save_to_db(key, value):  
    database = get_database()  
  
    if not key:  
        key = generate_id()  
  
    database[key] = value  
    database.close()
```

Functional Tests

```
import subprocess
```

```
def test_get_transaction():
```

```
    assert subprocess.check_output([ './example.py', '1' ]) == '$0.99\n'
```

```
    assert subprocess.check_output([ './example.py', '2' ]) == '$9.99\n'
```

```
    assert subprocess.check_output([ './example.py', '3' ]) == '$2.99\n'
```

Demo

<https://github.com/igorgue/testing-in-python-examples>

This testing thing...

Care about code not
code coverage

Be careful anyways

Thanks.