

Unit Testing with Python

Module 3: pytest

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<http://coding-is-like-cooking.info>

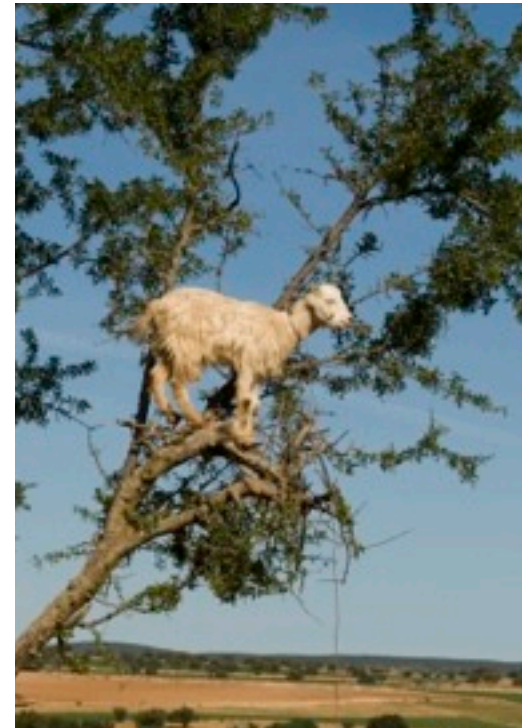
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hardcore developer training

Module Overview

- Defining test cases with `py.test`
- Interpreting Test Failures
- Test Fixtures



xUnit



Kent Beck



Erich Gamma



JUnit was originally created by Kent Beck and Erich Gamma

Nose and Pytest



python-nose

A unittest-based testing framework for python that makes writing and running tests easier

<https://code.google.com/p/python-nose/>

pytest: helps you write better programs

a mature full-featured Python testing tool

<http://pytest.org/latest/>

- <http://pytest.org/latest/getting-started.html#installation>

Installation

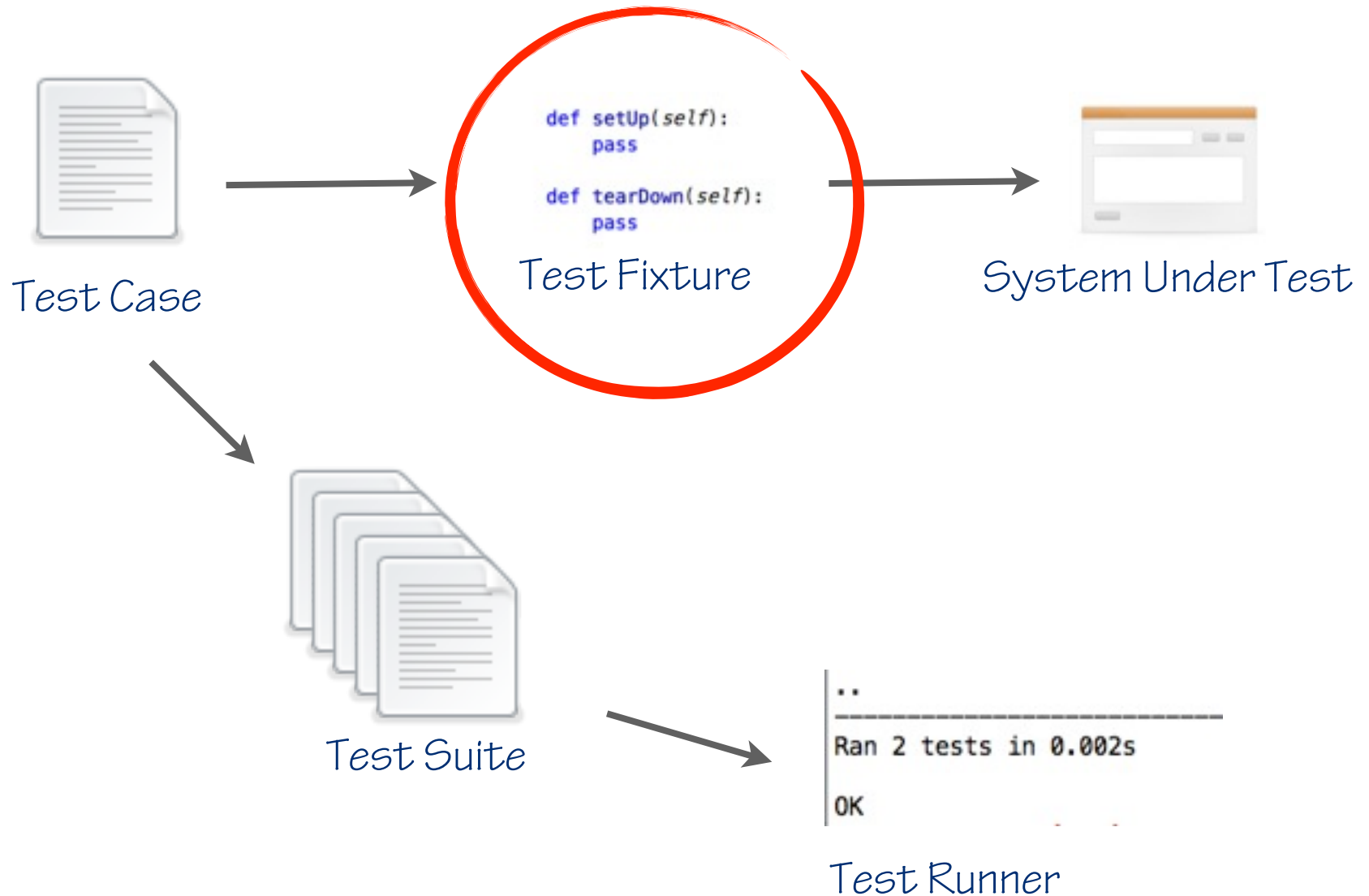
Installation options:

```
pip install -U pytest # or  
easy_install -U pytest
```

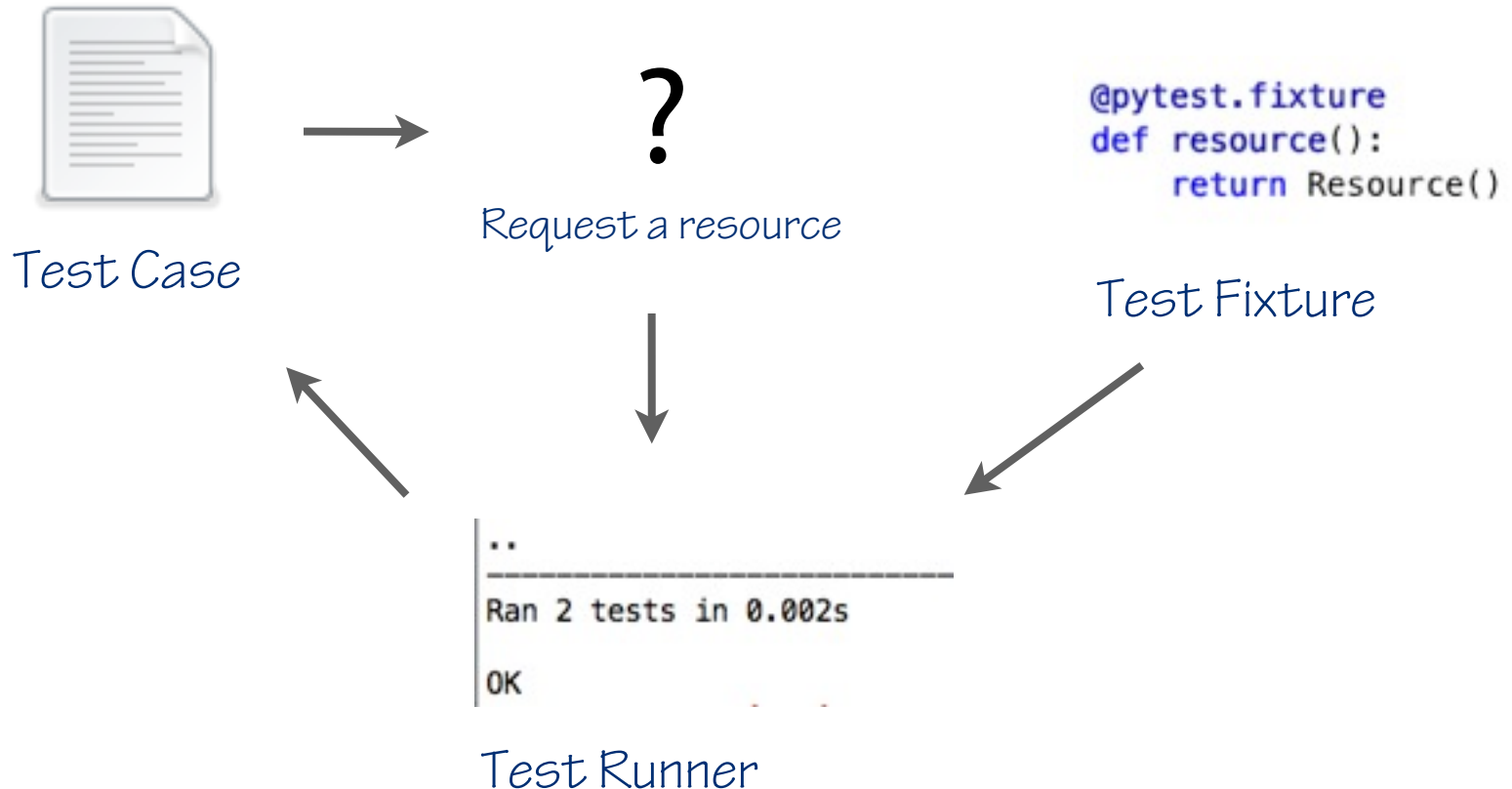
To check your installation has installed the correct version:

```
$ py.test --version  
This is py.test version 2.3.5, imported from /home/hpk
```

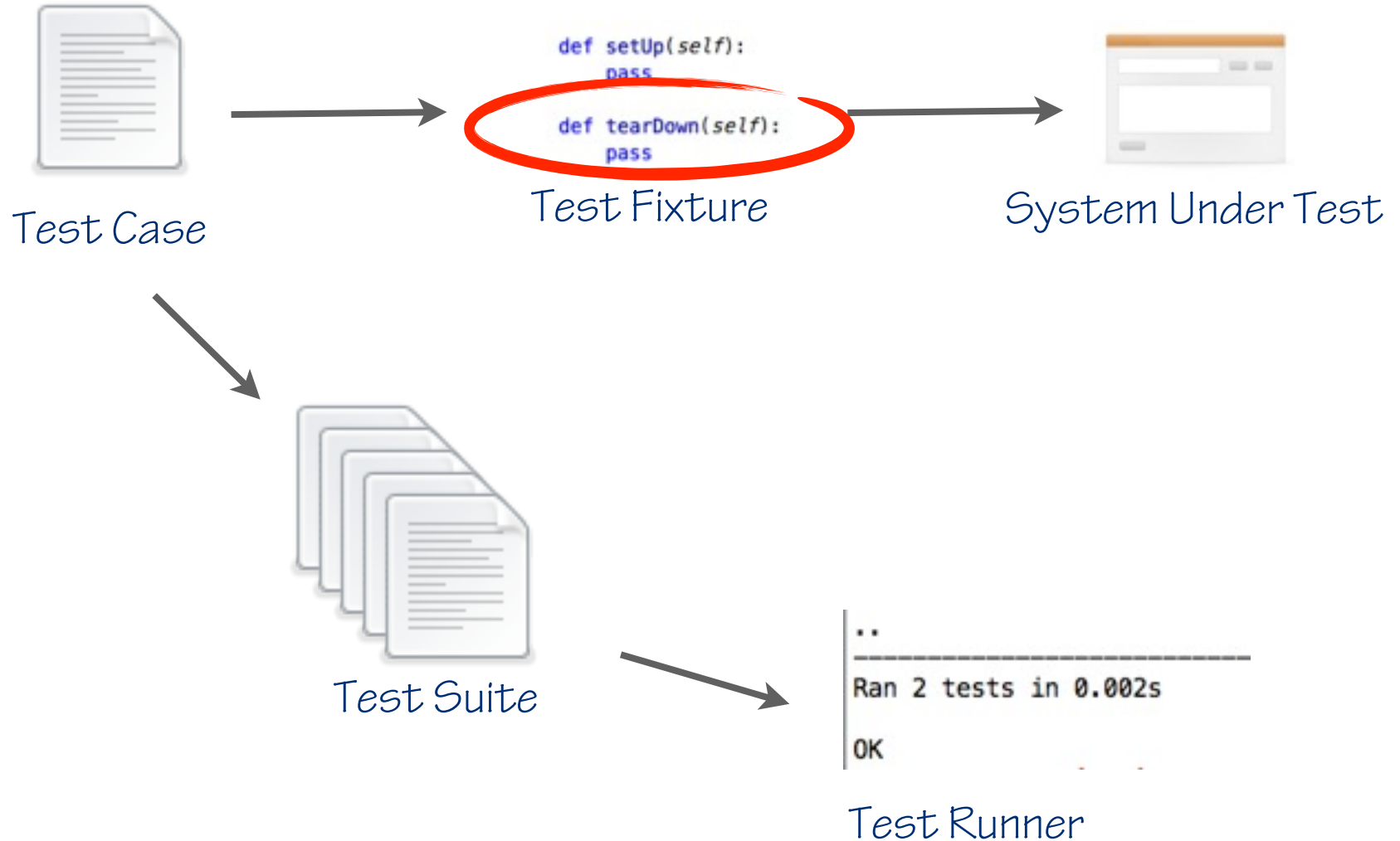
Unit Test Vocabulary



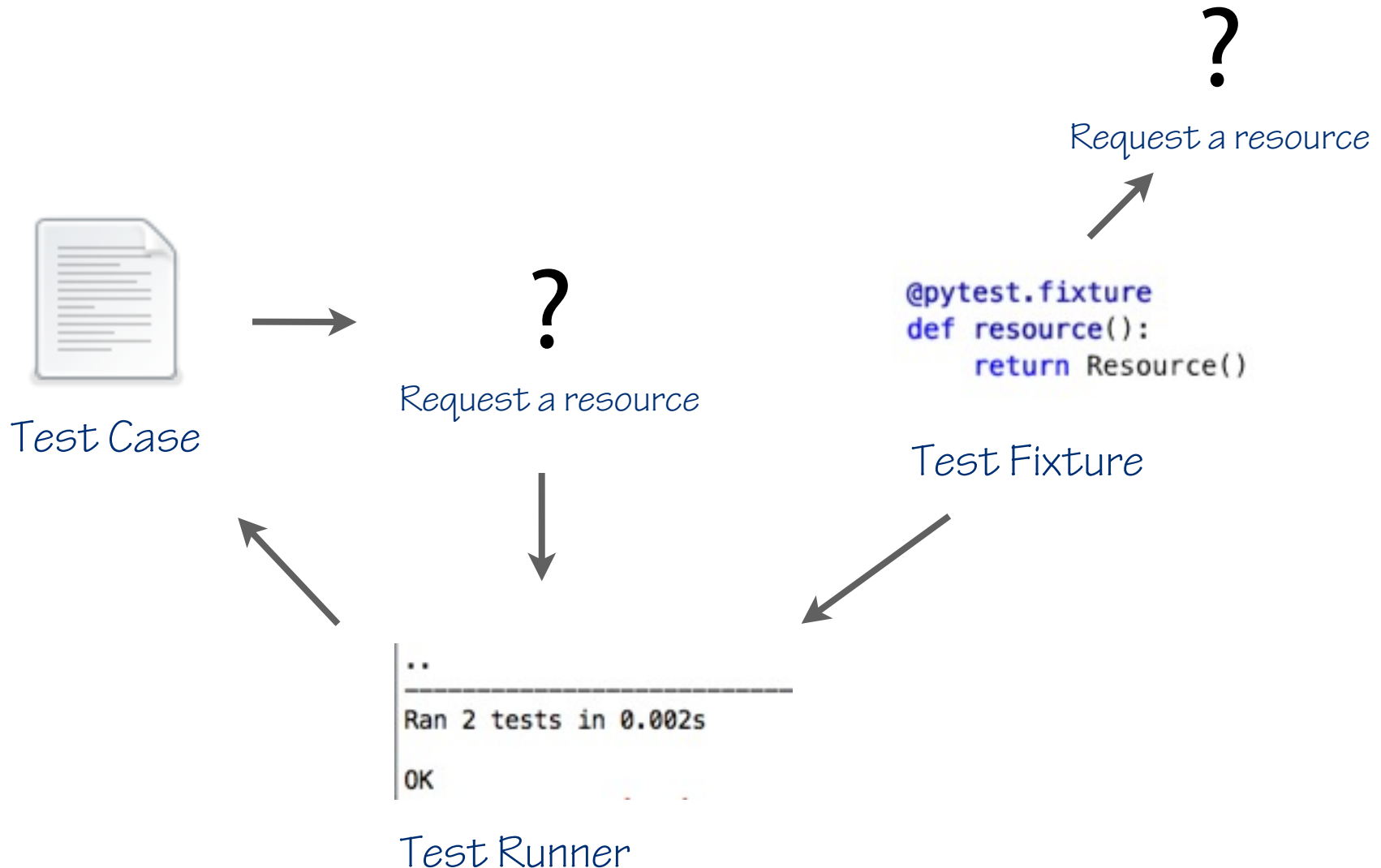
Test Fixture Functions



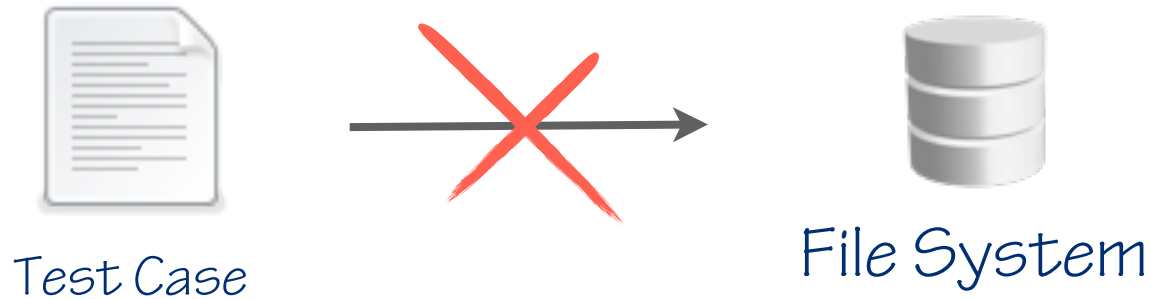
Test Fixture - cleaning up



Test Fixture Functions

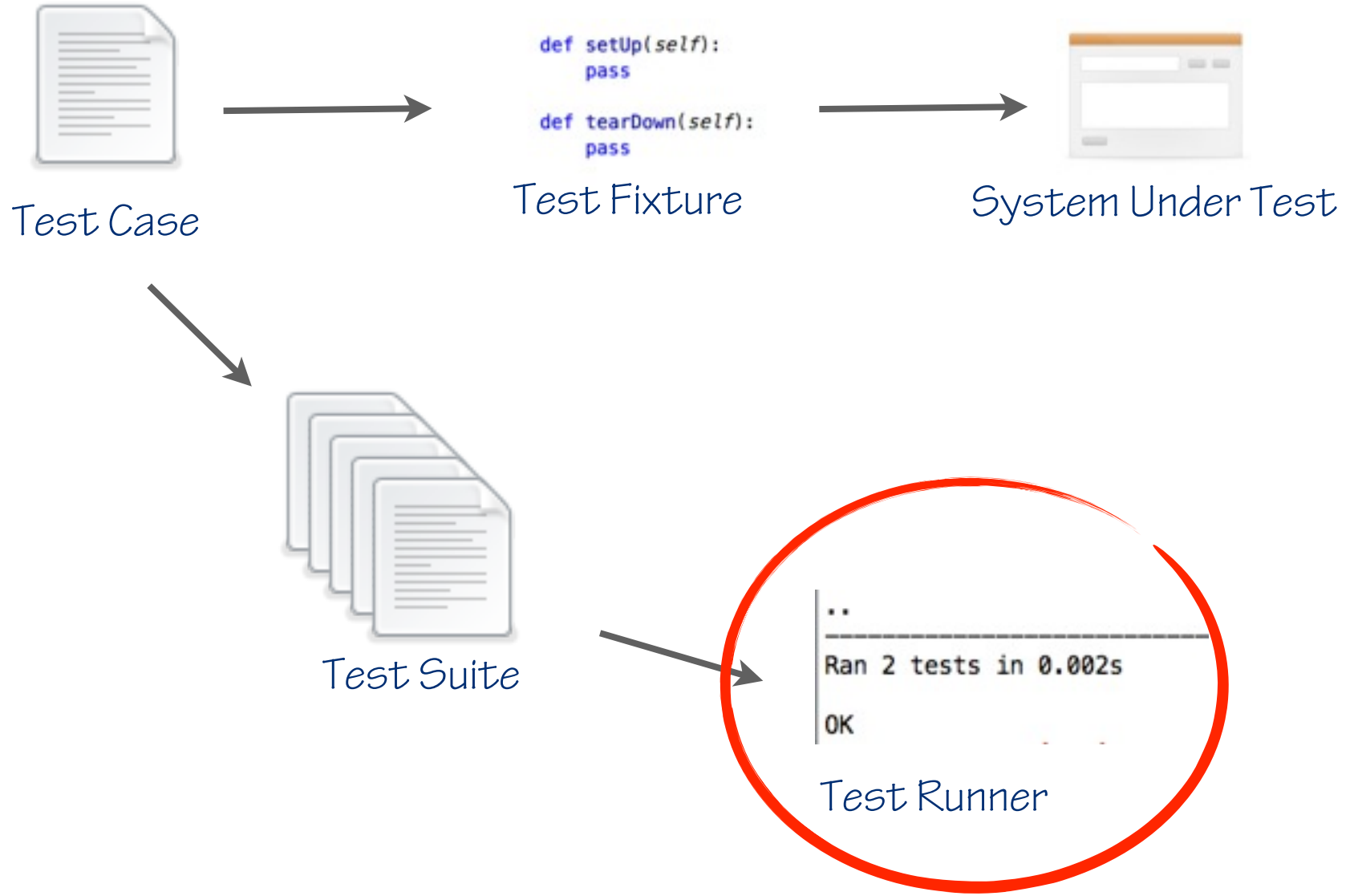


Unit Tests should be In Memory

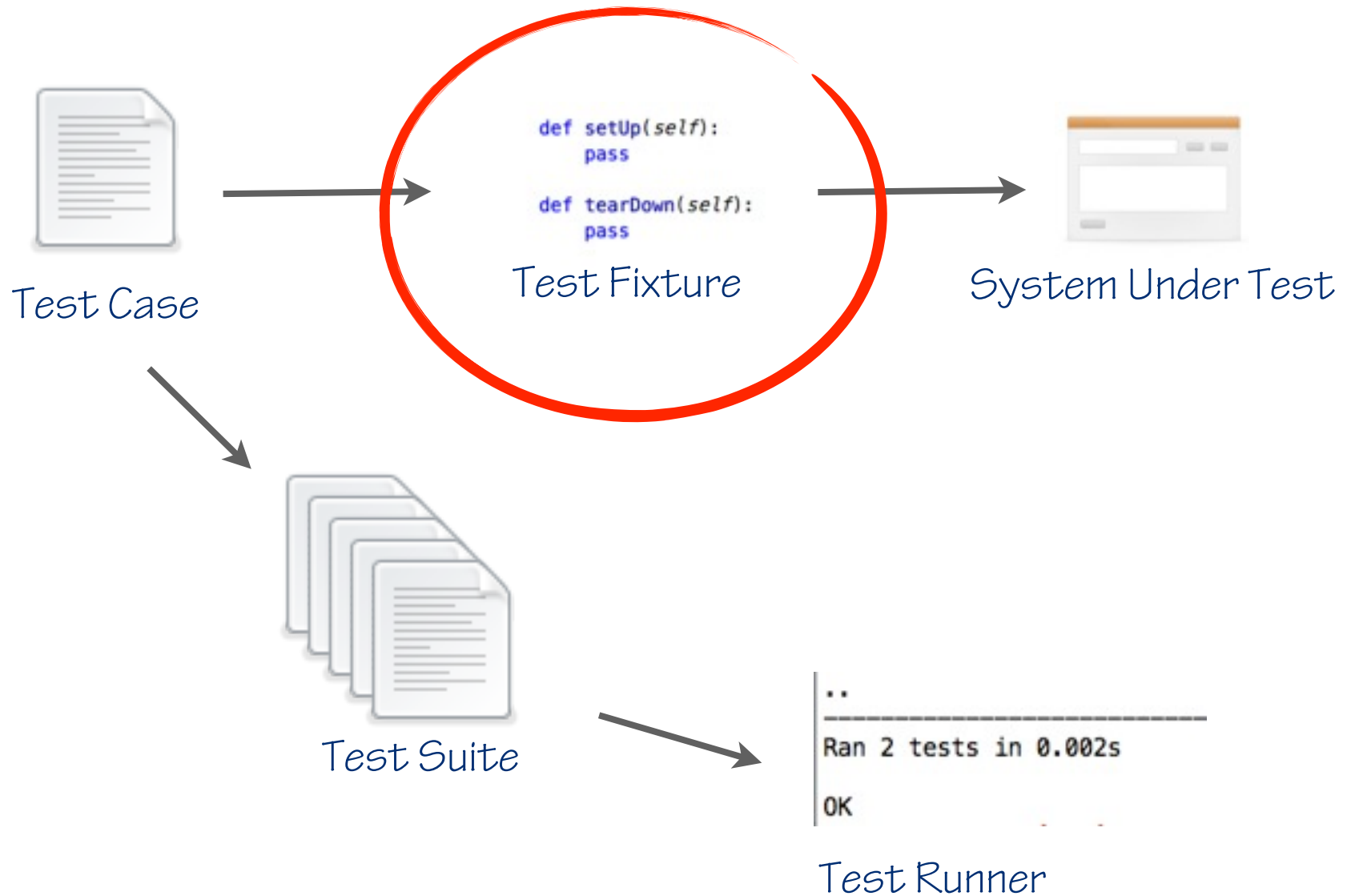


Integration Tests may need test fixtures that
provide slow and expensive subsystems

Pytest + unittest



Pytest + unittest



Module Review

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- Interpreting Test Failures
- Test Fixtures

