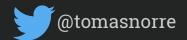
PHPUnit

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#t3cs16

Tomas Norre Mikkelsen

- LOVE TYPO3
- TYPO3.org, TER (TYPO3 Extension Repository)
- Crawler + Languagevisibility
- Automation Chef & Jenkins
- Talked about "Automated Testing on Travis" T3EE16 - Cluj





Agenda

- Why write tests?
- Unit test
 - Mocking
- Functional tests
 - Fixtures
- Unit vs. Functional

Why write tests?

- Fail fast, breaking changes
- Easier refactoring
- Helps you code structure

Unit tests

```
* Class SpeakerTest
* @package TNM\T3eeExample\Tests\Unit\Domain\Model
class SpeakerTest extends \TYPO3\CMS\Core\Tests\UnitTestCase {
* @var Speaker
   protected $subject;
  → * @return void
  →public function setUp() {
  ** **Sname = 'Homer Simpson';
  $this->subject = new Speaker($name);
 - * * @test
  →public function getNameReturnsName() {
  → Sname = 'Bart Simpson';
  $this->subject->setName($name);
      -- $this->assertSame(
  → → Sname,
  ###$this->subject->getName()
```

Functional tests - setUp()

```
#/**
# * SetUp

# */
public function setUp() {
# # $this->testExtensionsToLoad = array(
# # "typo3conf/ext/t3ee_example',
# ");
# parent::setUp();
# $this->importDataSet(_DIR__ . '/Fixtures/tx_t3eeexample_domain_model_talk.xml');
# $this->importDataSet(_DIR__ . '/Fixtures/tx_t3eeexample_domain_model_speaker.xml');
# $this->objectManager = \textstyres/tx_t3eeexample_domain_model_speaker.xml');
# $this->objectManager = \textstyres/tx_t3eeexample_domain_model_speaker.xml');
# $this->objectManager = \textstyres/tx_t3eeexample_domain_model_speaker.xml');
# $this->objectManager = \textstyres/tx_t3eeexample_domain_model_speaker.xml');
# $this->objectManager = \textstyres/tx_t3eeexample_domain_model_talk.xml');
# $this->objectManager = \textstyres/tx_t3eexample_domain_model_talk.xml');
# $this->objectManager = \textstyres/tx_t3eexample_domain_model_talk.xml');
# $this->objectManager = \textstyres/tx_t3eexample_domain_model_talk.xml');
# $this->objectManager
```

Functional tests - importDataSet()

```
<?xml version="1.0" encoding="utf-8"?>
<dataset>
   <tx_t3eeexample_domain_model_talk>
       <uid>23</uid>
       <pid>345</pid>
       <name>My life in Springfield</name>
       <date>1445538625</date>
       <speaker>1</speaker>
   </tx t3eeexample domain model talk>
   <tx_t3eeexample_domain_model_talk>
       <uid>45</uid>
       <pid>345</pid>
       <name>Simpsons The Movie - With my eyes</name>
       <date>1445538625</date>
       <speaker>2</speaker>
   </tx_t3eeexample_domain_model_talk>
</dataset>
```

Functional tests - the test

```
-W/*
* @test
→public function findAllTest() {
>> $expectedSpeakersArray = array(1,2);
$actualSpeakersArray = array();
$speakers = $this->speakerRepository->findAll();
* ** @var Speaker $speaker */
# #foreach ($speakers as $speaker) {
* Sthis->assertSame(
** **SexpectedSpeakersArray,
* ** **SactualSpeakersArray
```

Links

- <u>https://phpunit.de/</u> (English)
- https://github.com/tomasnorre/t3ee_example