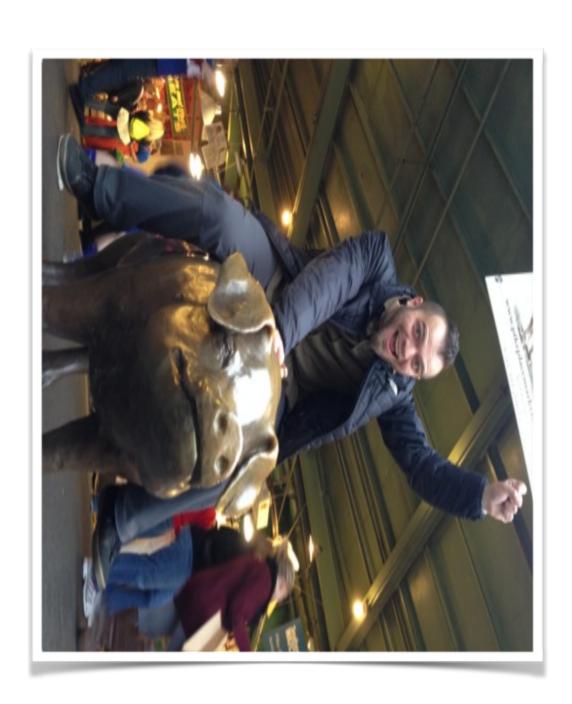
ALEXANDRU BADIU



ALEXANDRU BADIU

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BDD IS A SECOND-GENERATION,
OUTSIDE-IN, PULL-BASED,
MULTIPLE- STAKEHOLDER,
MULTIPLE-SCALE,
HIGH- AUTOMATION,
AGILE METHODOLOGY.

WAIT, WHAT?



TDD'S SHORTCOMINGS

- Unit tests, Inside out.
- Write the unit test before the code.
- Typically written by the programmer.
- Can't test everything: full functional tests?
- Can't refactor as you wish: dependent on early tests.

- It picks up where TDD leaves off.
- Rethinking the approach to unit and acceptance testing.
- Uses a common language that everyone can use from all chains of command.
- Becomes a test, a piece of documentation, a specification.
- Supported by a wide range of tools: Gherkin, Cucumber, Behat, Travis, Jenkins, Jira and so on.

- Test code or describe behaviour?
- Both.
- TDD is about ensuring behaviour.
- BDD is about describing behaviour.

- User story.
- Stakeholder, effect, value.
- Acceptance criteria or scenarios.
- Steps.
- Initial conditions.
- Triggers.
- Outcomes.

```
Feature: Authentication
  In order to change my information and add sessions
  As a registered Drupalcamp user
  I need to be able to authenticate
Scenario: User login
  Given I am on "/"
 When I follow "Log in"
 And I fill in "name" with "bddtest"
  And I fill in "pass" with "bddtest"
 And I press "Log in"
  Then I should see "My account"
Scenario: User logout
  Given I am logged in
 And I am on "/"
 When I follow "Log out"
  Then I should see "Log in"
```

BDD IS A SECOND-GENERATION, OUTSIDE-IN, PULL-BASED, MULTIPLE-STAKEHOLDER, MULTIPLE-SCALE, HIGH- AUTOMATION, AGILE METHODOLOGY.

BDD IN PHP

- Behat.
- OSS.
- Cucumber "language".
- Mink for testing web apps.
- Different drivers: Selenium, zombie.js, goutte etc.

COMPOSER.JSON

```
"require": {
  "behat/behat": "2.4.*@stable",
  "behat/mink": "1.5.*@stable",
  "behat/mink-extension": "*",
  "behat/mink-goutte-driver": "*",
  "behat/mink-selenium-driver": "*",
  "behat/mink-selenium2-driver": "*"
  "behat/mink-sahi-driver": "*",
  "behat/mink-zombie-driver": "*",
"minimum-stability": "dev",
"config": {
  "bin-dir": "bin/"
```

INSTALL

```
curl http://getcomposer.org/installer | php
php composer.phar install -prefer-source

bin/behat -init

+d features - place your *.feature files here
+d features/bootstrap - place bootstrap scripts and
static files here
+f features/bootstrap/FeatureContext.php - place your
feature related code here
```

BEHAT.YML

```
default:
    extensions:
        Behat\MinkExtension\Extension:
        base_url: http://drupalcamp.ro/
        goutte: ~
        zombie: ~
        sahi:
            port: 9999
        selenium2:
            wd_host: "http://127.0.0.1:4444/wd/hub"

        default_session: 'selenium2'
        javascript_session: 'selenium2'
```



DEMO



BDD IN DRUPAL



- Behat Drupal Extension.
- Provides step definitions for common testing scenarios specific to Drupal sites.

BDD IN DRUPAL

```
"require": {
    "drupal/drupal-extension": "*"
},

behat.yml

Drupal\DrupalExtension\Extension:
    blackbox: ~
```

BDD IN DRUPAL

Given I am logged in as a user with the "authenticated user" role

Then I should see the heading "History"

Then I should see the heading "User login" in the "left sidebar" region

Given the cache has been cleared

When I run cron

BDD IN DRUPAL

```
Given "page" nodes:
     title
     Page one
     Page two
And "article" nodes:
     title
     First article
     Second article
Given "article" nodes:
     title
                              promote | body
     First article with fields |
                                     1 | PLACEHOLDER BODY
Given users:
     name mail
                               status
     Joe User | joe@example.com | 1
```

THANK YOU

Alexandru Badiu

