

*Those tests ain't gonna
write themselves,*
Behatch

About me

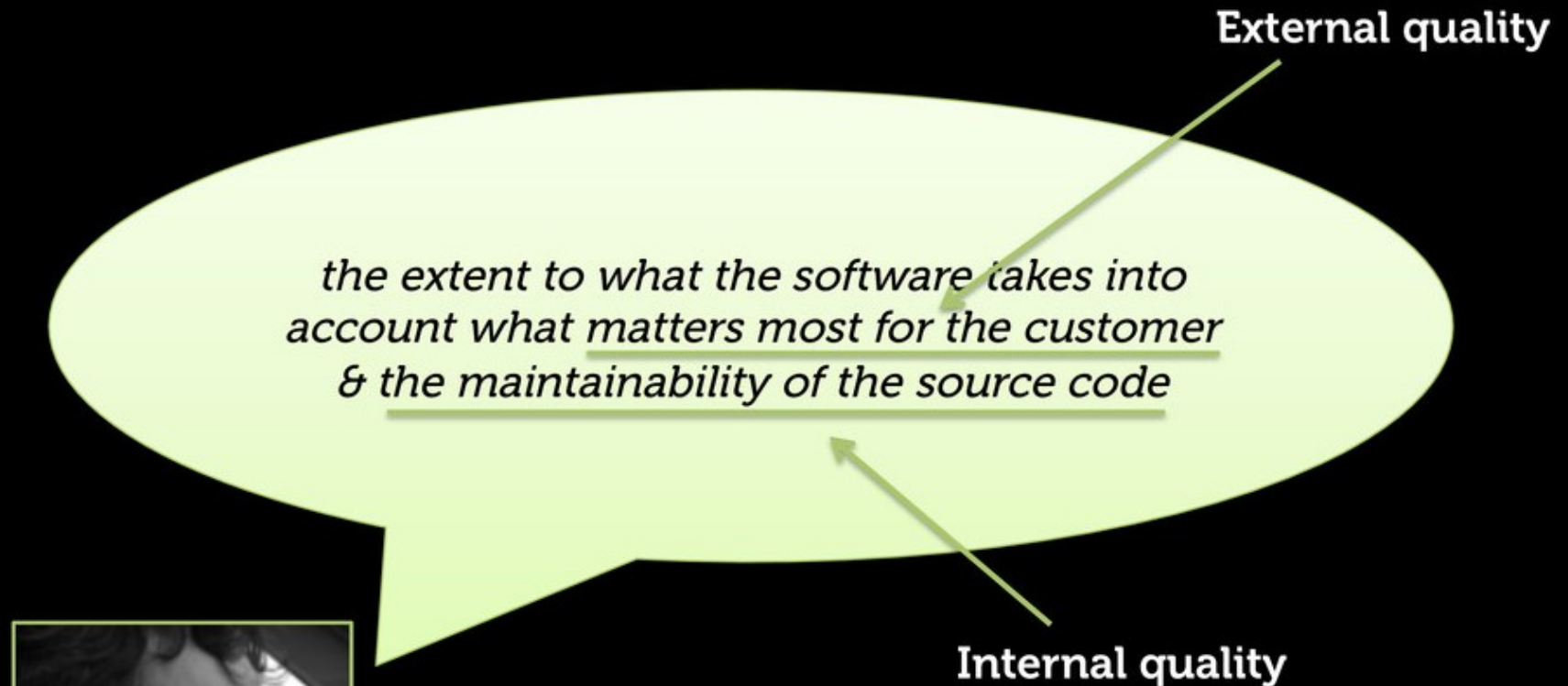


**Marijus
Kilmanas**

- Software Engineer at Inviqa
- Based in Kaunas
- 5+ years with PHP
- @mkilmanas
- <http://about.me/mkilmanas>

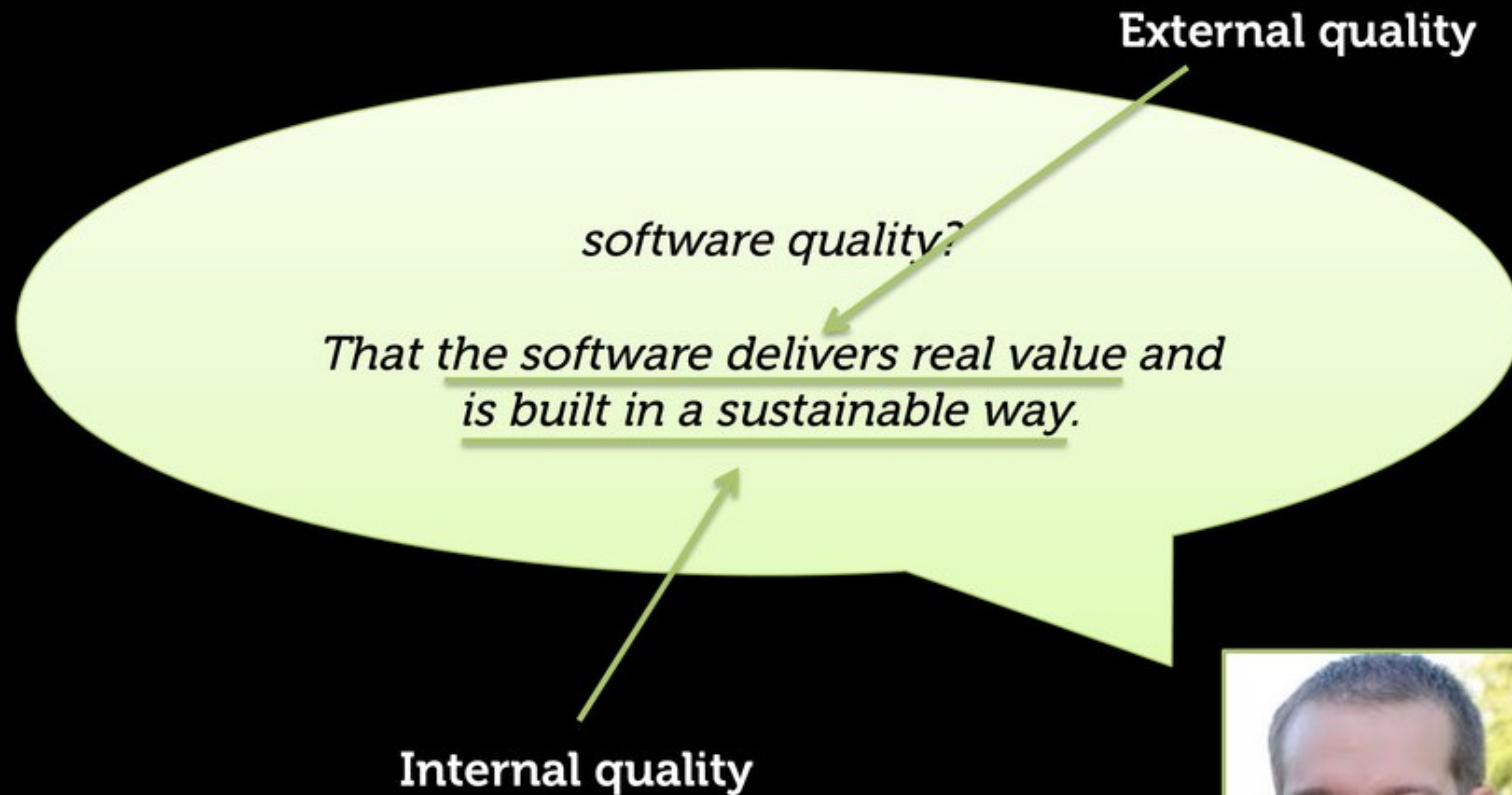
What is software quality?

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@_md

What is software quality?



@IanDominey

What is BDD?

```
class BDD extends TDD
{
    ...
}
```

- TDD on steroids
- TDD done right
- TDD 2.0
- TDD + important mind shift = BDD

What is *Behat*?

- Story BDD framework
- User Acceptance Testing framework
- Cucumber for PHP

Why BDD (and *Behat*)?

- Focus on value delivered
- Bridge understanding gap between business and technical people
- Test the business expectation, not the code functionality

Behat feature structure

I - Header

Feature: Visitors subscribe to newsletter

In order to attract more visitors via newsletters

As a website owner

I need users to be able to subscribe

Behat feature structure

II - Scenario

Scenario: Visitor subscribes to newsletter

Given I am on a homepage

And there is a newsletter box displayed

When I enter email "john@test.com"

And click "Subscribe"

Then I should see "Thank you for subscribing"

And I should receive a confirmation email

All green, all good?

```
aleckz@prometheus:~/test$ bin/behat
```

```
Feature: Search
```

```
  In order to see a word definition
```

```
  As a website user
```

```
  I need to be able to search for a word
```

```
Scenario: Searching for a page that does exist
```

```
  Given I am on "/wiki/Main_Page"
```

```
  When I fill in "search" with "Behavior Driven Development"
```

```
  And I press "searchButton"
```

```
  Then I should see "software development process"
```

```
Scenario: Searching for a page that does NOT exist
```

```
  Given I am on "/wiki/Main_Page"
```

```
  When I fill in "search" with "Glory Driven Development"
```

```
  And I press "searchButton"
```

```
  Then I should see "Search results"
```

```
2 scenarios (2 passed)
```

```
8 steps (8 passed)
```

```
0m1.631s
```

I – Get step order right

- Given → When → Then

I – Get step order right

- Given → When → Then
- Given + And + But
- Then + And + But

I – Get step order right

- Given → When → Then
- Given + And + But
- Then + And + But
- When + And (?)

II – Don't be too abstract

Given signup box
When I enter info
Then I am registered

II – Don't be too abstract

~~Given signup box
When I enter info
Then I am registered~~

Incomprehensible for developers

III – Don't be too technical

Given I am on `"/users/login"`

When I follow a link `"forgotPwd"`

Then there is a `"span.header-title"` element

And response code is 200

III – Don't be too technical

(Don't use MinkContext terminology)

~~Given I am on "/users/login"
When I follow a link "forgotPwd"
Then there is a "span.header-title" element
And response code is 200~~

Incomprehensible for business

IV - Think and rethink every term

- User → Visitor, registered user, admin?

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- User → Visitor, registered user, admin?
- Header → html head, headline, header area on the page?
- Maintain consistency
 - e.g. gallery, slideshow and lightbox referring to the same thing → BAD
- Maintain domain specific vocabulary
 - e.g. LookBook, LandingPage, SponsorshipEvents

V – Don't Repeat Yourself

Given I am on homepage

And I click "sign-in"

And I enter username "foo"

And I enter password "drowssap"

And I click "Sign-in"

And I see success message

When ...

V – Don't Repeat Yourself

Given I am on homepage
And I click "sign-in"
And I enter username "foo"
And I enter password "drowssap"
And I click "Sign-in"
And I see success message
When ...



Given I am logged in [as "foo"]
or
Background:*

VI - Take time to identify *beneficiary* and *value* correctly

- The level of technicality depends on it

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VI - Take time to identify *beneficiary* and *value* correctly

- The level of technicality depends on it
- The perspective and available options depend on it
- The only way to deliver what the *business* actually *needs*

VII - Use tables wisely

Given these products exist:

ID	SKU	Name	Price	Stock	ParentId
15	FT025	Jeans Prime	35.00		
17	FM113XL	T-Shirt Rex XL	17.50	0	7
21	FT025R	Prime Red	35.00	3	15
22	FT025B	Prime Blue	35.00	2	15

When an export is run

Then these rows should be in export file:

ID	Name	Price	InStock
FT025	Jeans Prime	35.00	Yes
FT025R	Jeans Prime Red	35.00	Yes
FT025B	Jeans Prime Blue	35.00	Yes
FM113XL	T-Shirt Rex XL	17.50	No

VII - Use tables wisely

Given these products exist:

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- Does not explain the behaviour
- Not clear which parts are important
- Does not mean you should never use tables
 - Think about html tables and their (ab)use

We provide training in Story BDD and Spec BDD

We are continuously hiring the best talents!

Contact mkilmanas@inviqa.com

The logo features the word "INVQA" in a large, bold, serif font. To the right of the text is a bright yellow light flare with a circular lens effect. Below the main text, the words "enterprise open source" are written in a smaller, lowercase, sans-serif font.

INVQA

enterprise open source

Questions?



Thank you!



P.S. Behat v3.0rc2 is out – go check it out at
<https://github.com/Behat/Behat>