Specification by Example to the point

Nikolas.M@rtens.org

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First... show your
Who are you guys?

Developers?

Designers?

Managers?

Real humans?
Nikolas Martens
rtens.org

Perl
QBASIC
Java
Web
TUM
Research Gate

13 → 28
do the right thing

do the thing right

do it together
Specification by Example
But what is it?
Who has heard of SbE?

Agile acceptance testing?

Acceptance Test-Driven?

Example-Driven?

Behavior-Driven Development
Illustrating using examples
Refining the specification
Validating frequently
Automating validation without changing the specification
Vision

Capability

Feature Set

Feature

Story

Scenario

SBE

Implementation
Example
How

Example
Free delivery!

Only for VIP ordering 5 articles only books

Amano2.com
VIP customer with five books and a washing machine in the cart doesn’t get free delivery.
<table>
<thead>
<tr>
<th>Customer</th>
<th>Order</th>
<th>Delivery</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIP</td>
<td>5 books</td>
<td>free</td>
</tr>
<tr>
<td>VIP</td>
<td>4 books</td>
<td>not</td>
</tr>
<tr>
<td>Regular</td>
<td>10 books</td>
<td>not</td>
</tr>
<tr>
<td>VIP</td>
<td>5 TV</td>
<td>not</td>
</tr>
<tr>
<td>VIP</td>
<td>5 books, 1 TV</td>
<td>not</td>
</tr>
</tbody>
</table>
Sentences in ubiquitous language

Pre -> "Given..."
Action -> "When..."
Post -> "Then... should..."
Given I am a VIP customer
Given I have 5 books in my basket
When I check the delivery options
Then delivery should be free
class FreeDeliveryToVipCustomers extends TestCase {

    function story() {
        return "In order to create incentives to become a VIP customer, I want to provide free delivery for VIPs";
    }

    function scenarioVipWithFiveBooks() {
        $this->givenIAmAVipCustomer();
        $this->givenIHave_BooksInMyBasket(5);

        $this->whenICheckMyDeliveryOptions();

        $this->thenTheDeliveryShouldBeFree();
    }
}
function givenIAmAVipCustomer() {
    $this->customer = new Customer();
    $this->customer->setVip(true);
}

function givenIHave_BooksInMyBasket($number) {
    $this->basket = new Basket();
    for ($i=0; $i<$number; $i++) {
        $this->basket->getItems()->put(new Book());
    }
}

function whenICheckMyDeliveryOptions() {
    $delivery = new DeliveryManager($this->customer, $this->basket);
    $this->isFree = $delivery->isDeliveryFree();
}

function thenTheDeliveryShouldBeFree() {
    $this->assertTrue($this->isFree);
}
Scope
Scope

3 \times 3 \times 3 = 27
LIVING DOCS
Does it work?

How does it work?

Single source of truth accessible for everyone
More on SbE

http://specificationbyexample.com/

http://dannorth.net/introducing-bdd/

http://skillsmatter.com/podcast/agile-testing/how-to-sell-bdd-to-the-business
More besides SbE

http://www.clean-code-developer.de/

http://www.extremeprogramming.org/

http://theleanstartup.com/

Read the book!

old but gold

stop waste
rtens.org