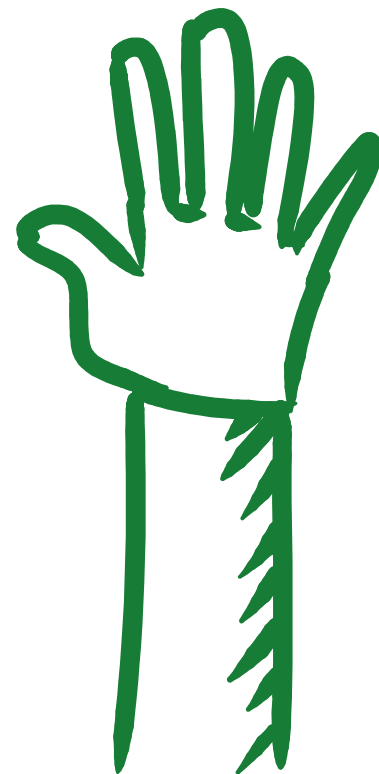


~~Ex~~ecutable

Documentation

for everyone (even you)

Who ...



... has heard of it?

... is using it? 



Expect

1 ~~E~~xecutable

Why

What

How

Documentation

2 ~~do~~x

Publishing tool



Nikolas Martens

Engineer & Coach

Meo



mockster



+



NIH



syndrome



 .gitignore	Refactor the entire test suite as preparation to refactoring the prod...	11 months ago
 .travis.yml	.travis.yml - add PHP 5.5	10 months ago
 bootstrap.php	Changed namespace to rtens\mockster	2 years ago
 composer.json	Didn't mean to commit local repository	11 months ago
 licence	wrapped licence	2 years ago
 phpunit.xml.dist	Changed namespace to rtens\mockster	2 years ago
 readme.md	Updated readme	4 months ago

readme.md

Mockster

build **passing**



mockster is a full-fledged, zero-configuration [mocking](#) framework for PHP.

Main Features

- Automatic mocking of dependencies, return values, method and constructor arguments
- Support of [BDD](#)-style testing by defining the context first and asserting expectations second
- Fine-grained configuration of the behaviour

Basic Usage



First, we need an instance of MockFactory. It extends [Factory](#) so it supports singletons and providers (if needed).

```
$factory = new MockFactory();
```

To get a completely empty mock which is but a hollow shell of the given class, use

```
$mock = $factory->getInstance('MyClass');
```

The created instance extends the given class but does not invoke its parent's constructor, nor does any method call actually reach the parent - they are all mocked.

If you want to call the parent's constructor, pass an array with the constructor arguments. If you don't want to pass any arguments, provide an empty array.

```
$mock = $factory->getInstance('MyClass', array('name' => 'Foo')):
```

Basic Usage

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$mock = $factory->getInstance('MyClass', array('name' => 'Foo'));
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$mock = $factory->getInstance('MyClass', array('name' => 'Foo'));
```

.php

~~\$factory = new MockFactory();~~

~~\$mock = \$factory->getInstance('MyClass');~~
~~\$mock = \$factory->getInstance('MyClass', array('name' => 'Foo'));~~

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```
$mock = $factory->getInstance('MyClass', array('name' => 'Foo'));
```

.php

// new mock

\$factory = new MockFactory();

// new mock

\$mock = \$factory->getInstance('MyClass');

\$mock->method();

// new mock



.php

```
// run run  
$foo = 1;  
  
// run  
$foo = 2;  
$foo(1);  
// run
```



Mockster

build passing

~~ex~~ecutable

Validate syntax

```
$mock = $factory->getInstance('MyClass');  
$foo = $mock->__mock()->method('foo');
```

But wait!
There is more!

```
$foo->getHistory()->wasCalledWith(['bar']);
```

Validate functionality

```
$mock = $factory->getInstance('MyClass');  
$foo = $mock->__mock()->method('foo');  
  
$mock->foo('bar');
```

Hey! That's
a test!

```
$this->assertTrue($foo->getHistory()->wasCalledWith(['bar']));  
$this->assertFalse($foo->getHistory()->wasCalledWith(['baz']));
```


Test ← Documentation



👍 APIs

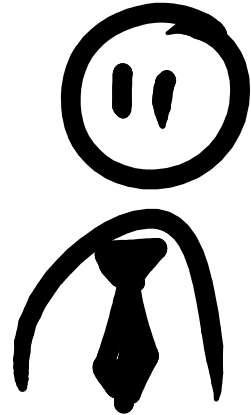
👍 Libraries



APIs

```
$response = $router->respond('/foo/bar', '{"some":"query"}');
```

```
$this->assertEquals($response, '{"some":"data"}');
```



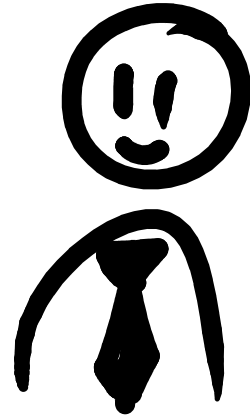
APIs



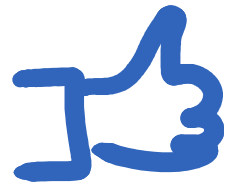
```
$this->whenIRequest_From('{some:"query"}', '/foo/bar');
```

```
$this->thenTheResponseShouldBe('{ "some": "data" }');
```

ubiquitous language



 APIs

 Libraries

  Anything

Example-Driven Development

Acceptance Test Driven

Behaviour Driven Development



Anything



Agile Testing

Example-Driven Development

Acceptance Test Driven

Behaviour Driven Development



Specification
by Example



Agile Testing

Specification



Specification



Test



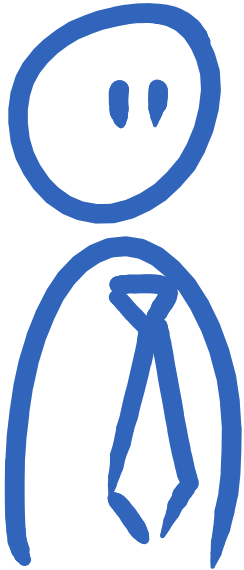
Documentation

Examples



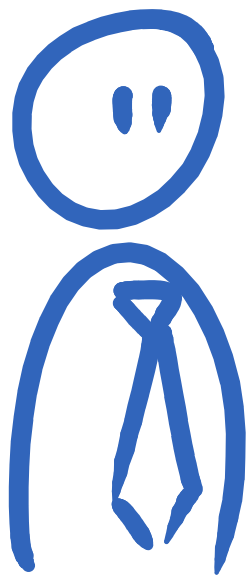
```
$this->whenIRequest_From('{some:"query"}', '/foo/bar');
```

```
$this->thenTheResponseShouldBe('{"some":"data"}');
```



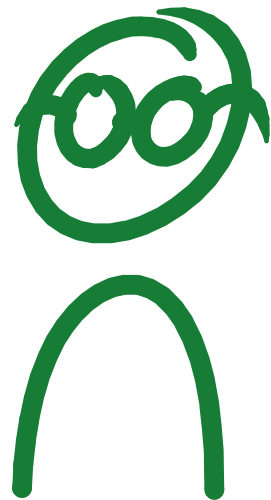
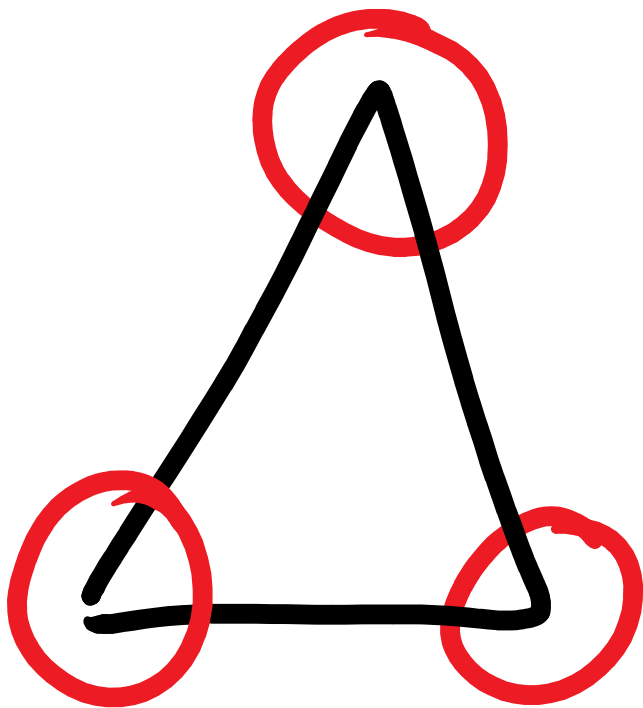
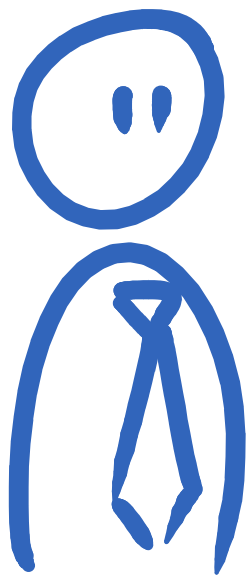
← Examples →

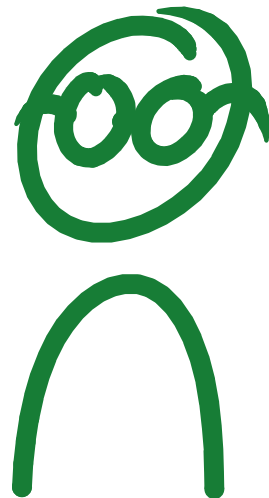
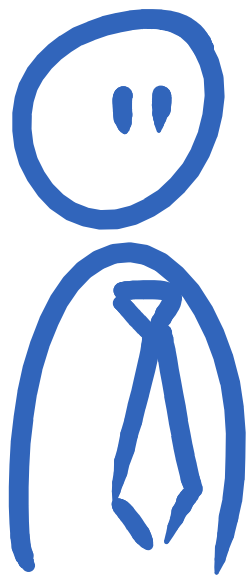




← **Examples** →

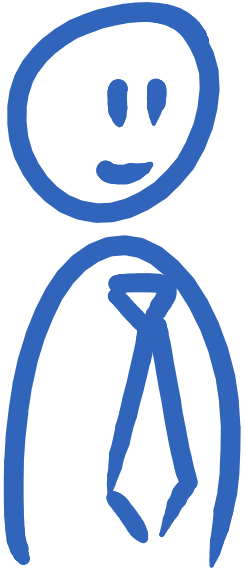




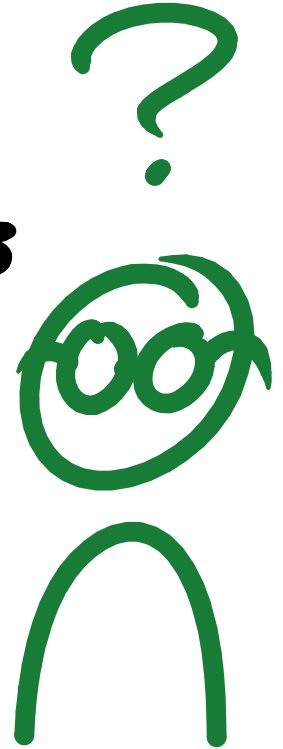


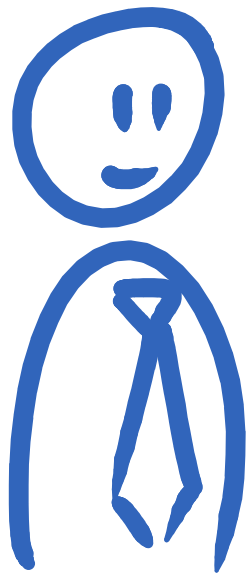


Free delivery



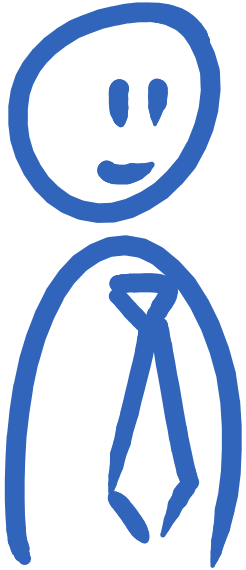
for VIP customers
more than 5 articles
only books



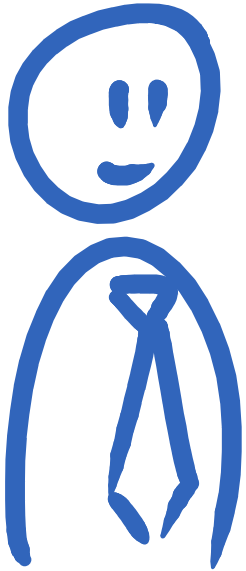


Examples
maybe ?

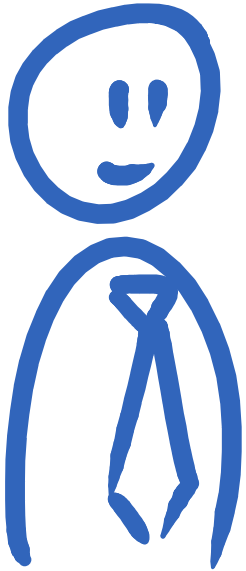




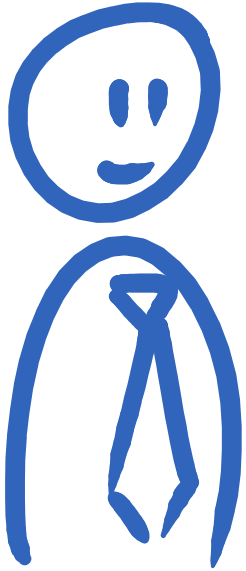
VIP customer with five
books in the cart gets
free delivery.



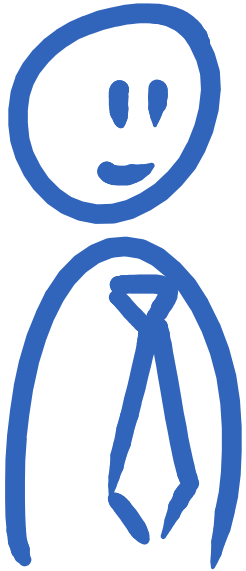
VIP customer with
four books in the
cart doesn't get free
delivery.



Regular customer
with five books in
the cart doesn't get
free delivery.



VIP customer with a
five washing machines
in the cart doesn't get
free delivery.

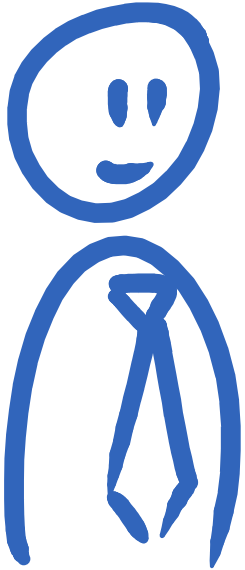


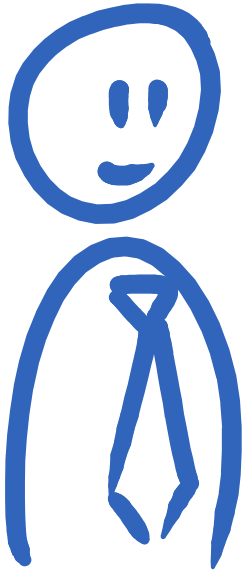
VIP customer with five
books and a washing
machine in the cart
doesn't get free delivery.

Input

Output

Customer	Order	Delivery

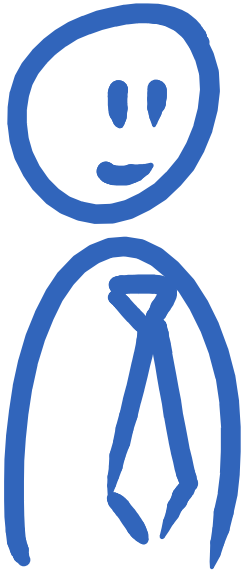




Customer	Order	Delivery
VIP	5 books	free
VIP	4 books	not
Reg	10 books	not
VIP	5 TV	not
VIP	5 books, 1 TV	not



Customer	Order	Delivery
vip	5 books	free




```
$this->givenIAmAVipCustomer();  
$this->givenIHave_BooksInMyBasket(5);  
  
$this->whenICheckMyDeliveryOptions();  
  
$this->thenTheDilveryShouldBeFree();
```



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

Fake it!



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

```
function whenICheckMyDeliveryOptions() {  
  
}
```

```
function 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() {  
  
}
```



Do it!

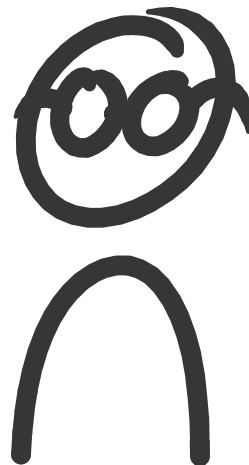
```
function givenIAMAVipCustomer() {  
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    $this->customer->setVip(true);  
}
```

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

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

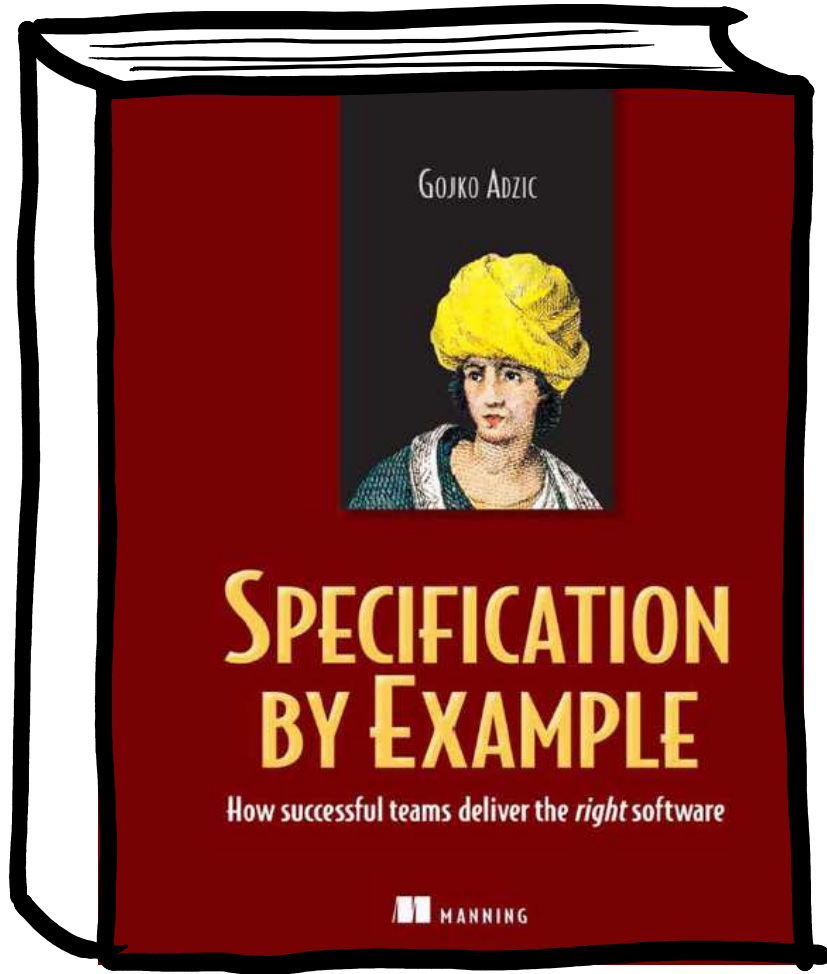
```
function thenTheDeliveryShouldBeFree() {  
    $this->assertTrue($this->isFree);  
}
```

Check it!

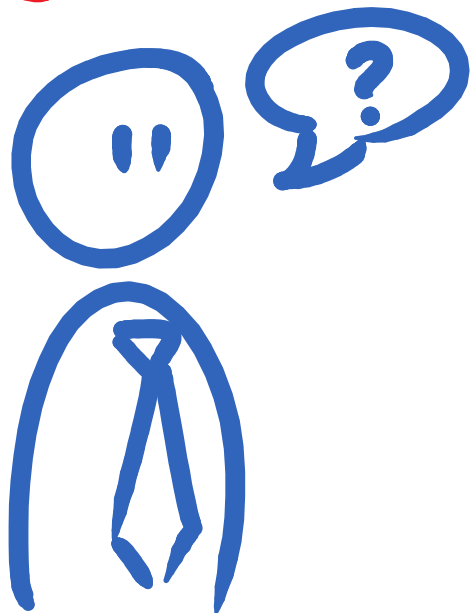


Specification by

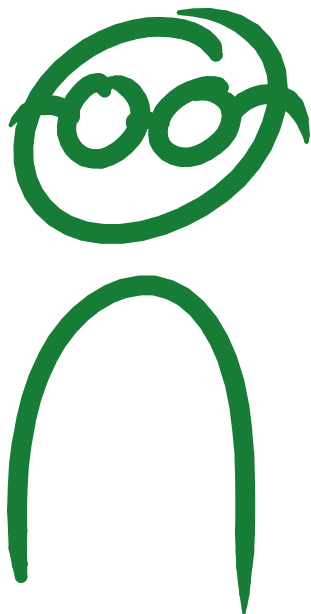
E~~x~~ample



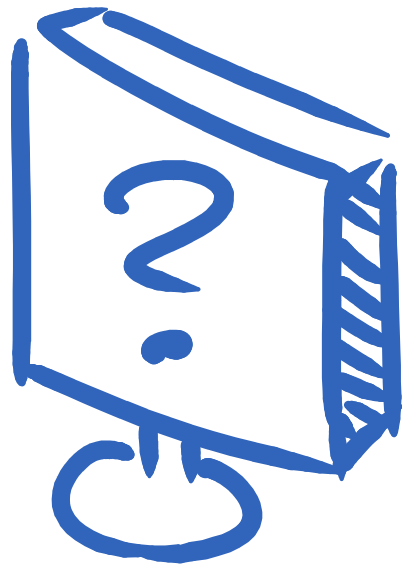
right thing

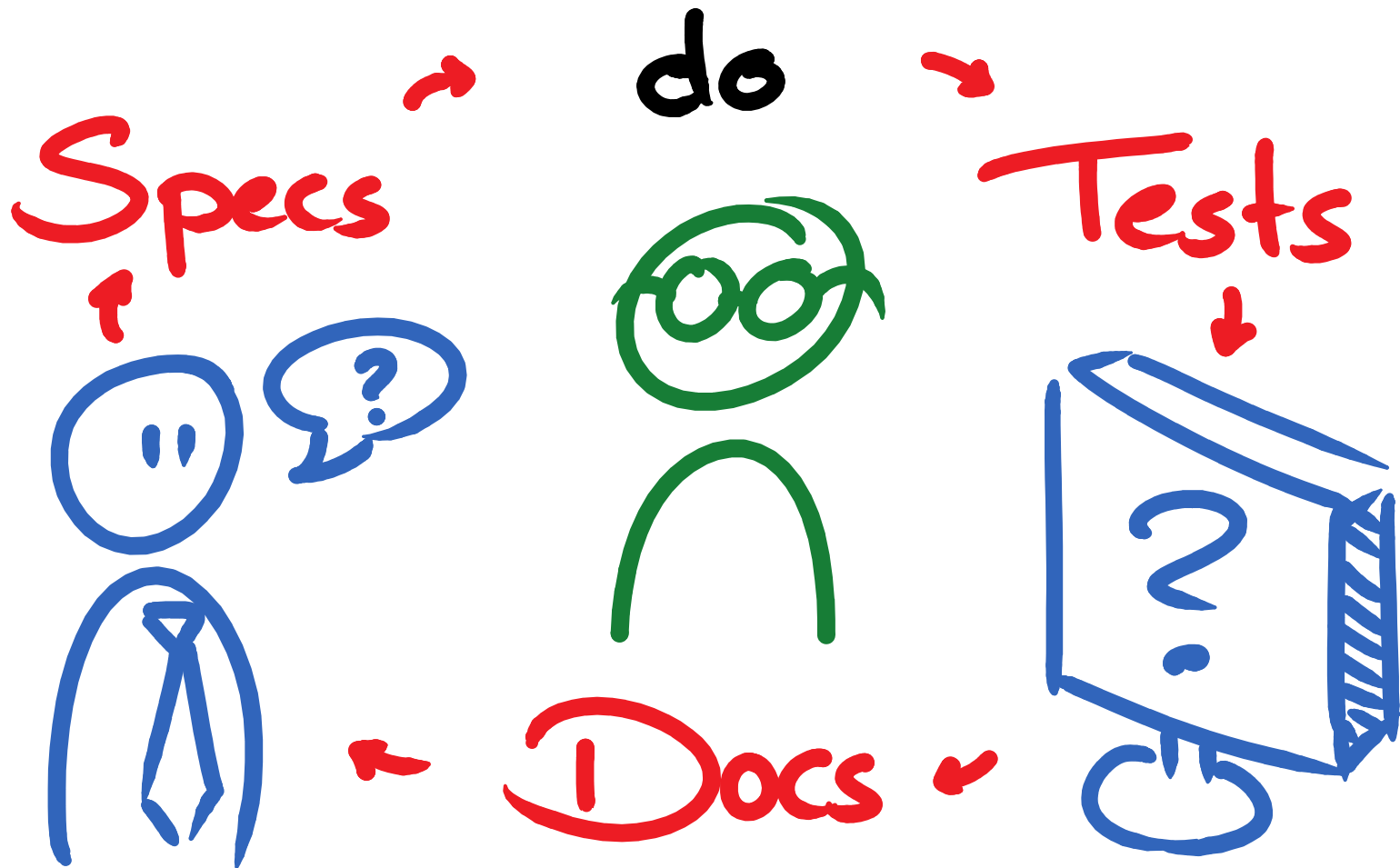


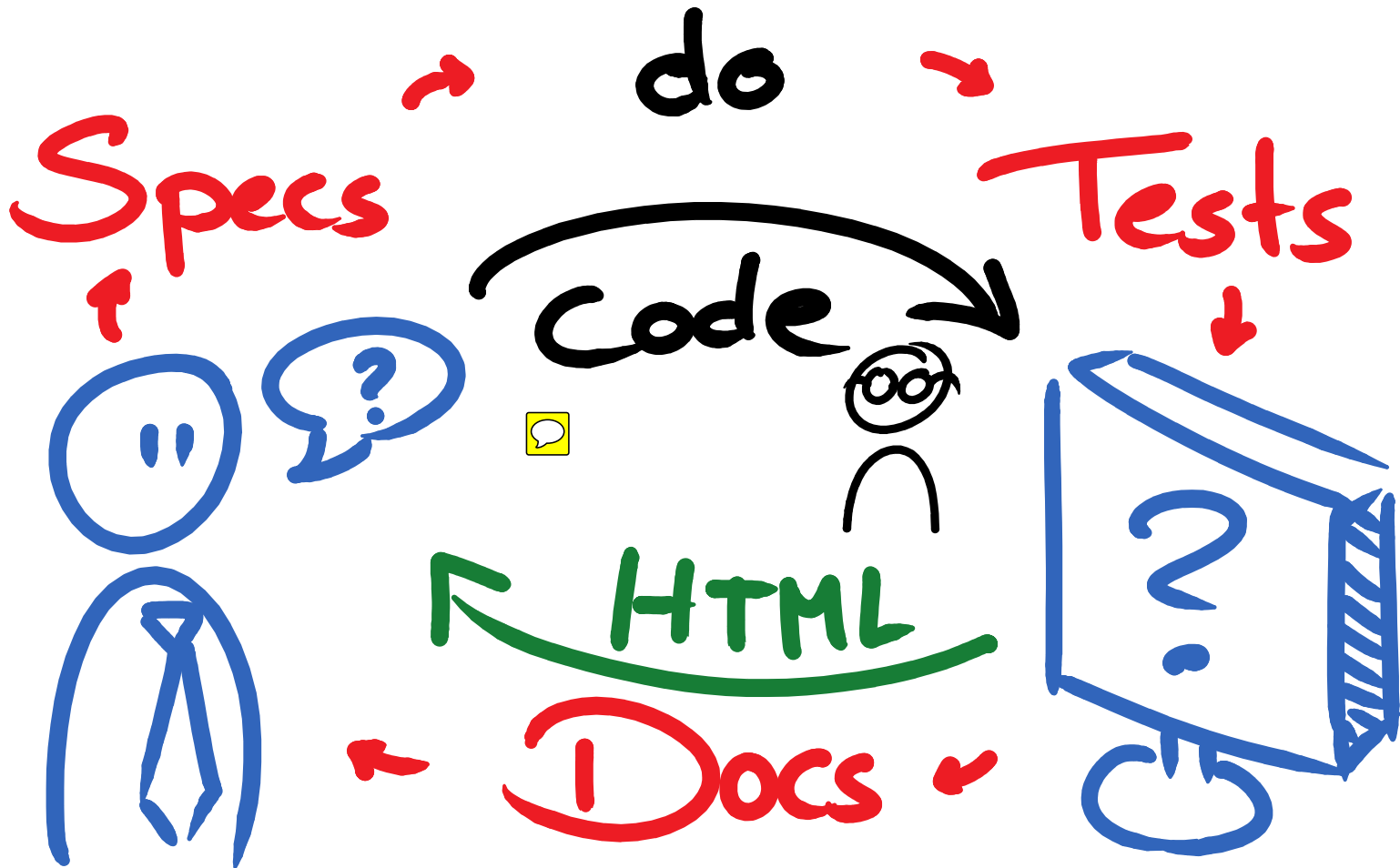
do

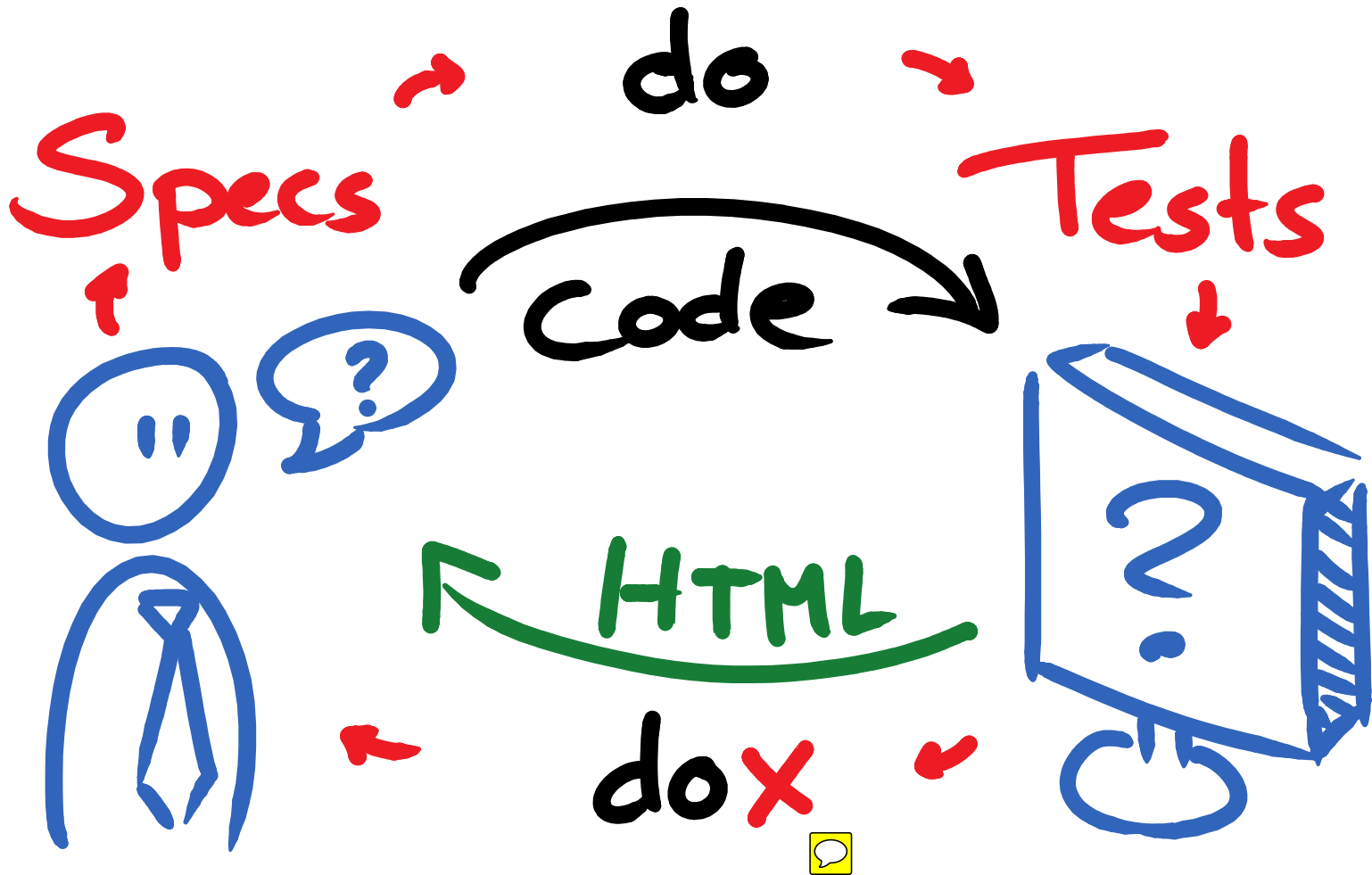


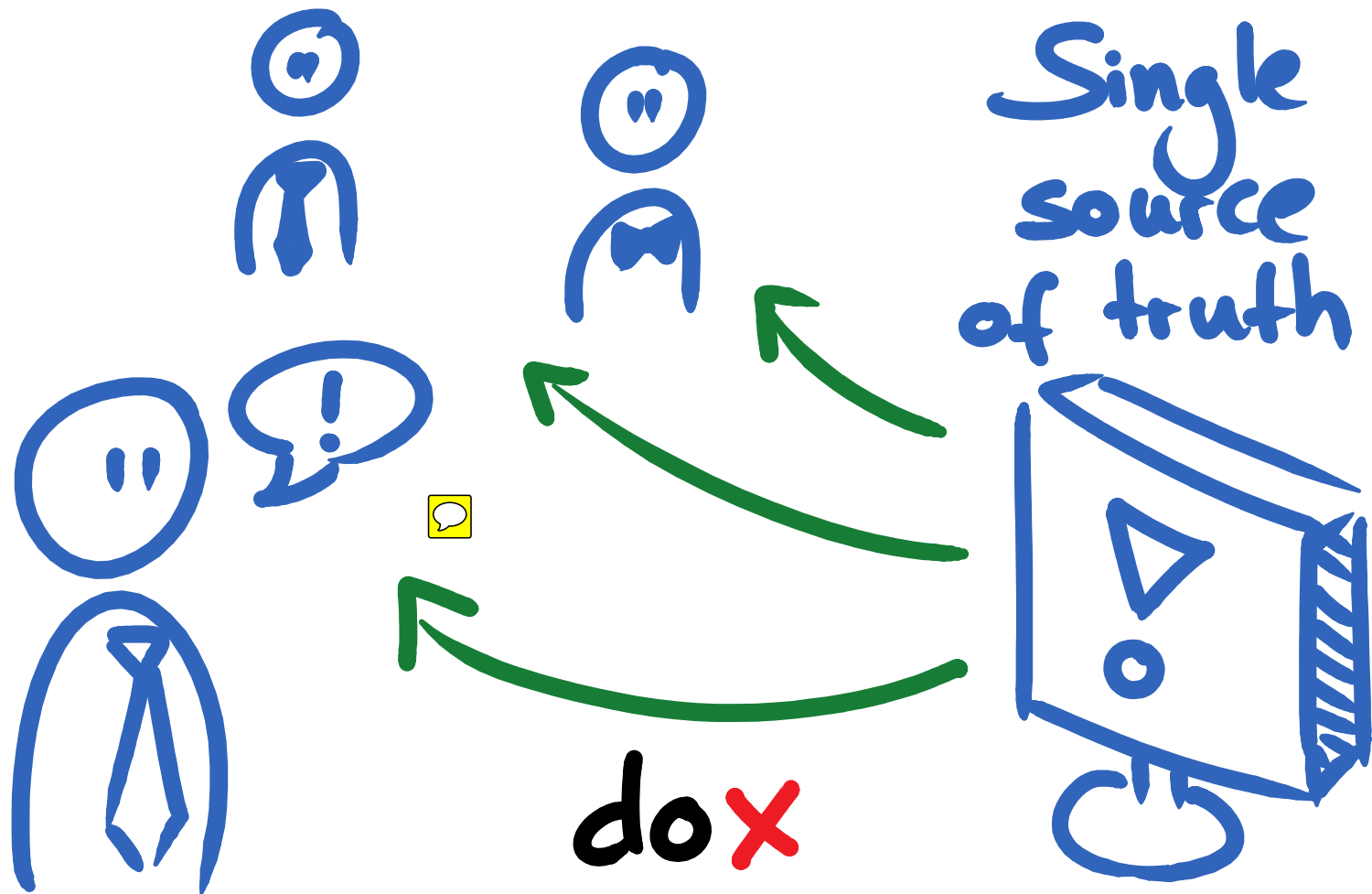
thing right

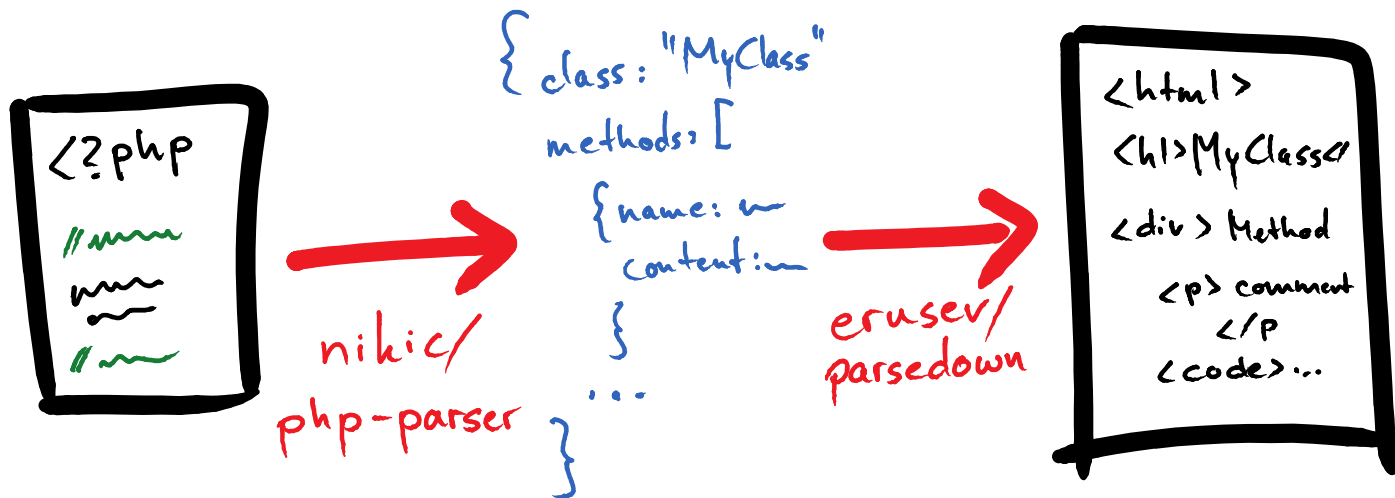












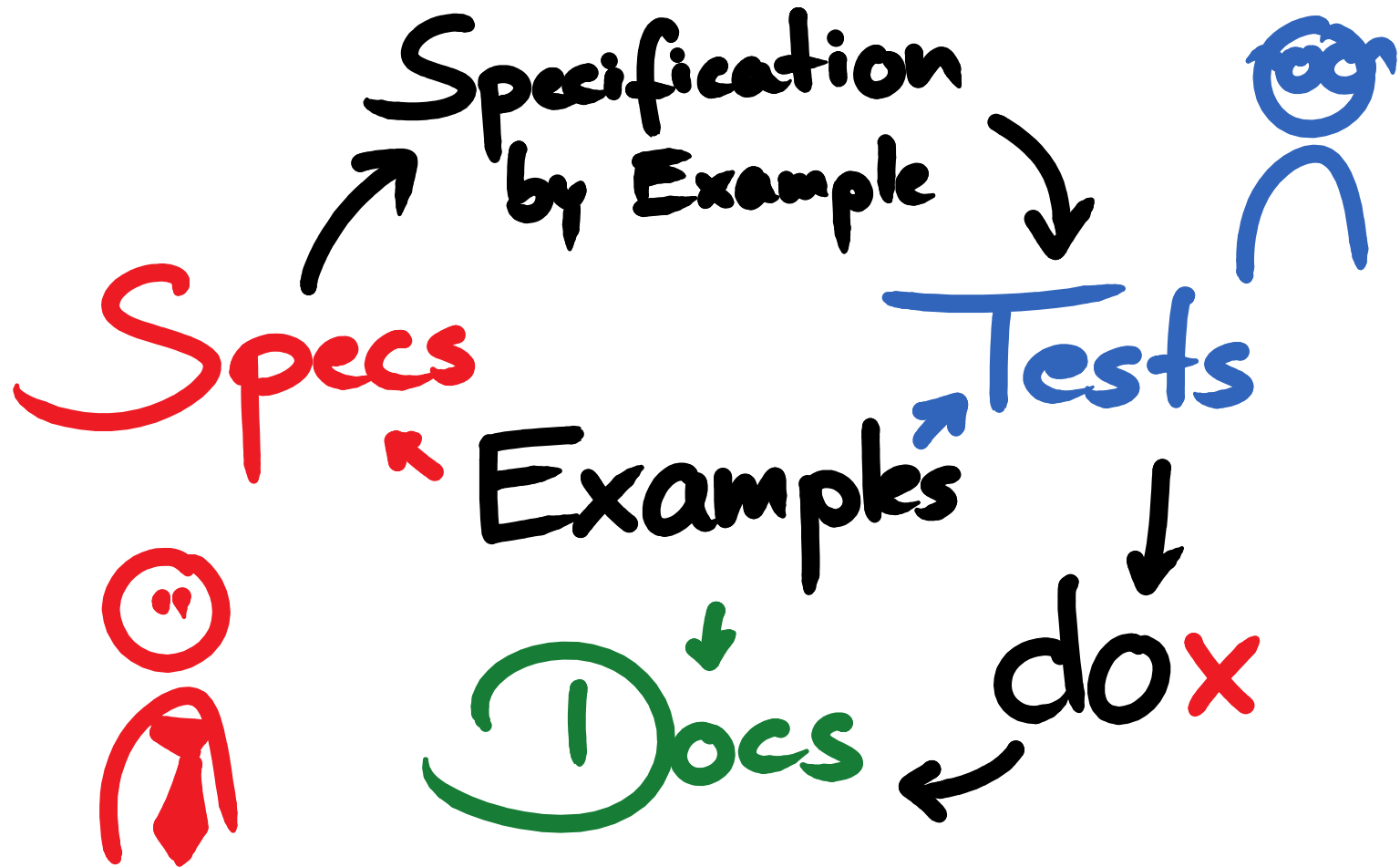
do **x** pipeline

once again...



Examples





more on SbE

<http://specificationbyexample.com/>

the book



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

the beginning



<http://skillsmatter.com/podcast/agile-testing/how-to-sell-bdd-to-the-business>

good talk



more good stuff

✓ read the book

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

<http://www.extremeprogramming.org/> ← root of agile

<http://theleanstartup.com/> ← stop waste

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