

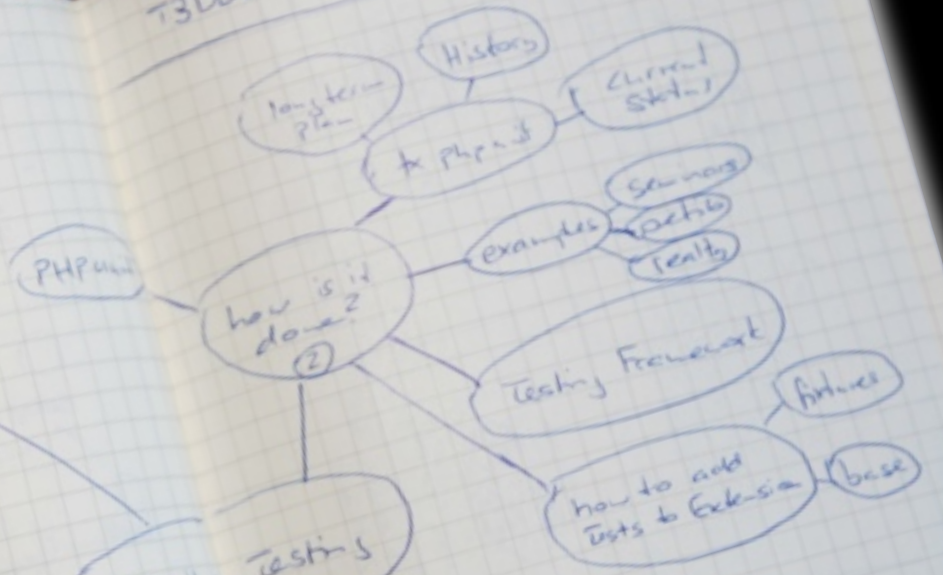
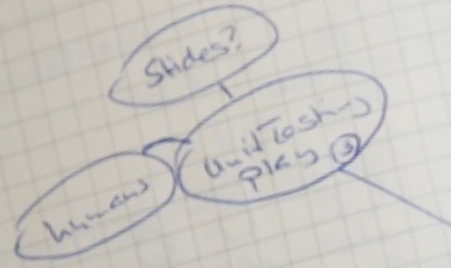
Unit Testing is like cooking!

(you'll see!)



Screen team[®]

Mario Rimann
TYP03 Developer Days 2008



Better structured code

saving time finding bugs

Why Unit Testing?

avoiding regression
complexity

Conclusion future
The Green bar feeling
Continuous integration
TYPO3 VS Flow3

Why?

How?

Then?

Why?

How?

Then?

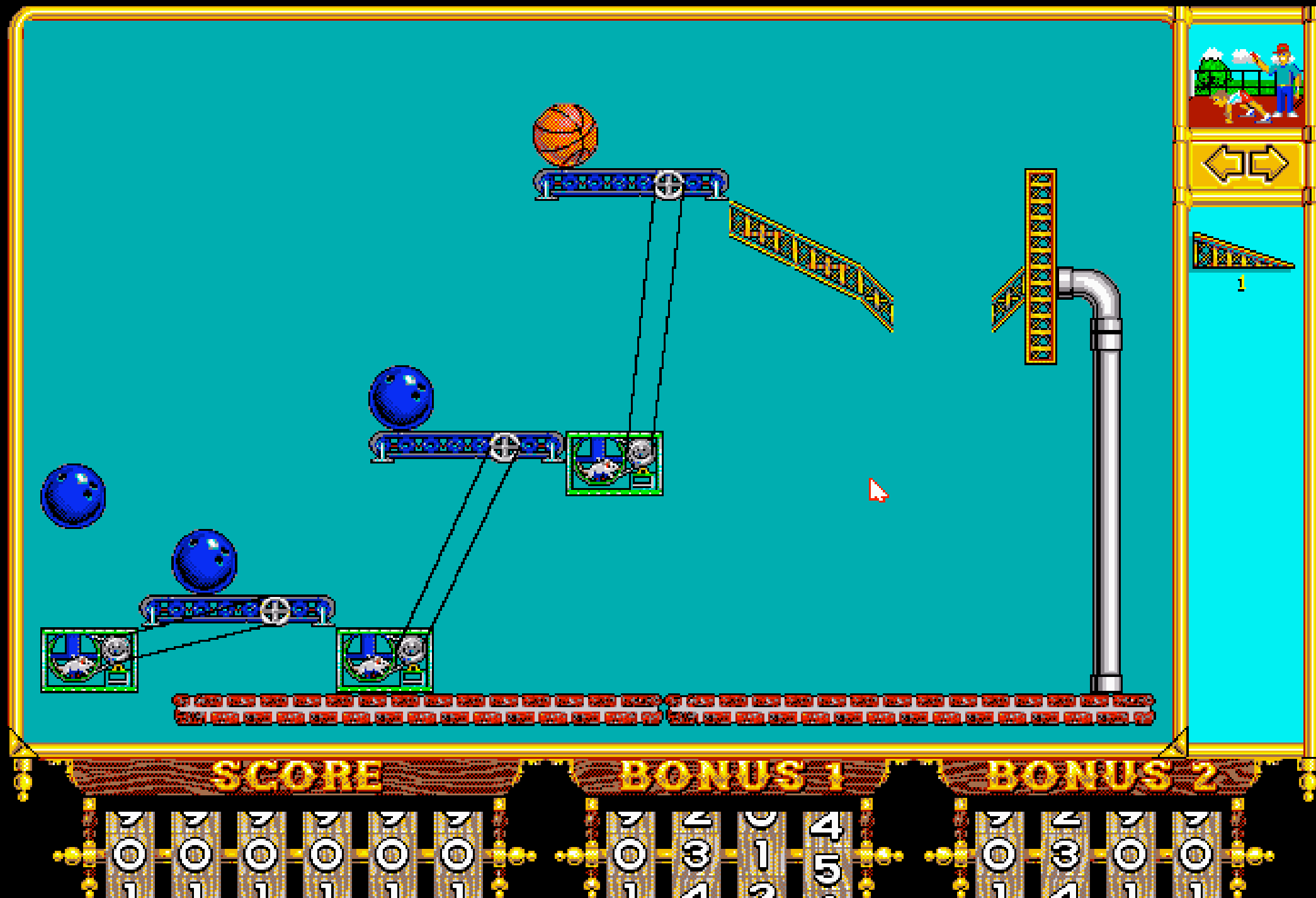
Managing complexity



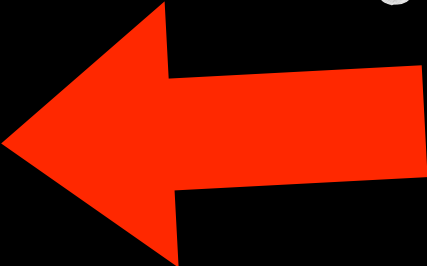
Managing complexity



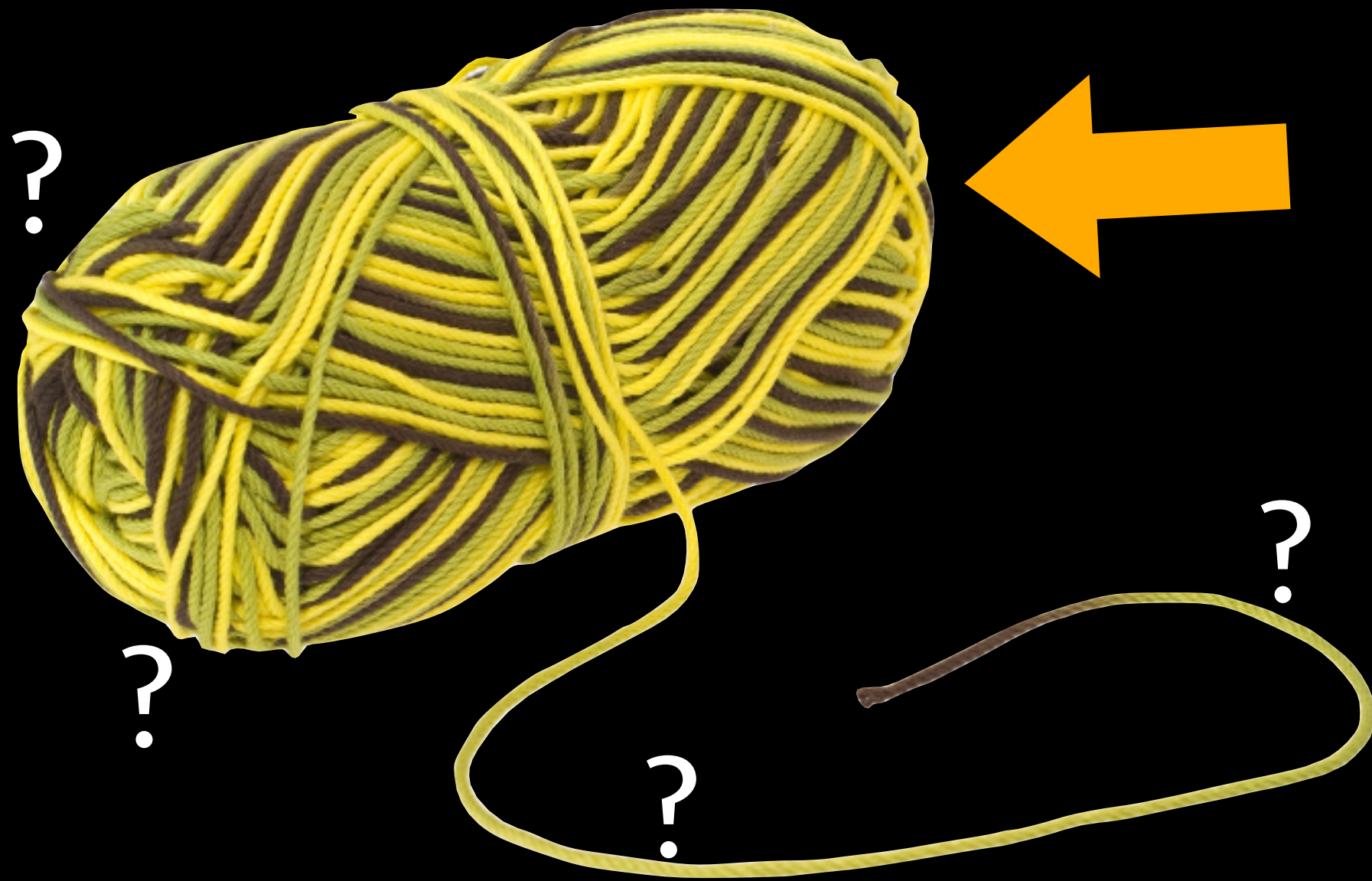
Avoiding chain reactions



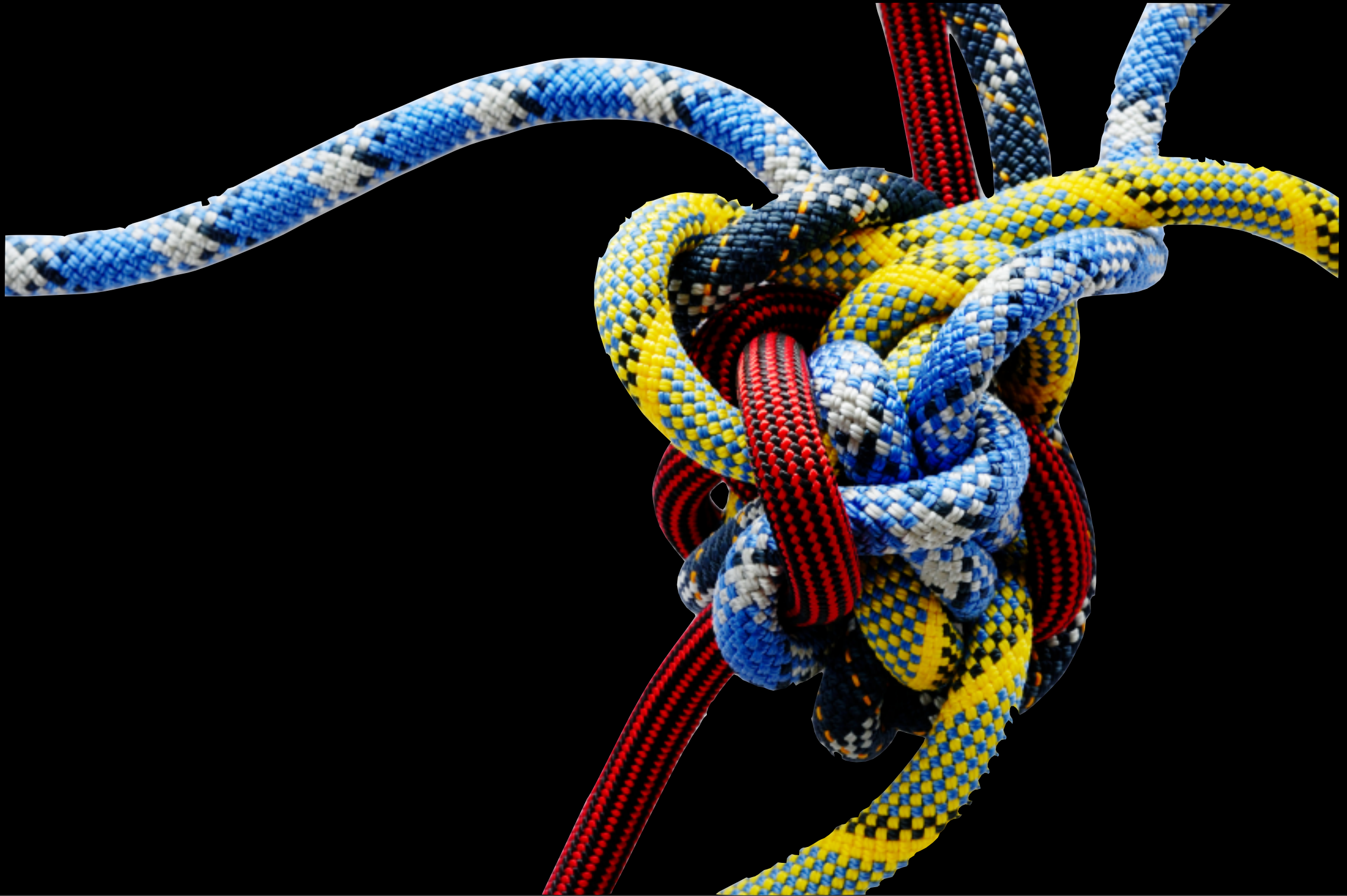
Regression



Saving time



Improving structure



Improving structure



Why?



How?

Then?

Unit Testing is like cooking!

Classes to
test

Environment
for Testing

Testcases

Fixtures

Testing
Framework



PHPUnit



≠

tx_phpunit

... but somehow similar

A simple class:

```
class superMathematics {  
    static function add($a, $b) {  
        return $a + $b;  
    }  
}
```

A small Test Case:

```
class superMathematics_testcase extends
PHPUnit_testcase {

    public function testAdd() {
        $this->assertEquals(
            12,
            superMathematics::addition(5, 7)
        );
    }
}
```


A more complex class:

```
class tx_seminars_place extends tx_seminars_objectfromdb
{

    function getCity() {
        return $this->getRecordPropertyString('city');
    }

    function getCountryIsoCode() {
        return $this->getRecordPropertyString('country');
    }
}
```

Fixtures are like spices

```
private $fixture;
```

```
public function setUp() {  
    $uid = $this->testingFramework->createRecord(  
        tx_seminars_sites,  
        array(  
            'title' => 'TEST Place 1',  
            'city' => 'Tokyo',  
            'country' => 'JP'  
        )  
    );  
    $this->fixture = new tx_seminars_place($uid);  
}
```

A Test Case:

```
class tx_seminars_place_testcase extends tx_phpunit_testcase {  
    public function testGetCityReturnsCityName() {  
        $this->assertEquals(  
            'Tokyo',  
            $this->fixture->getCity()  
        );  
    }  
  
    public function testGetCountryIsoCodeReturnsIsoCode() {  
        $this->assertEquals(  
            'JP',  
            $this->fixture->getCountryIsoCode()  
        );  
    }  
}
```

Let's play!

Test different aspects

Functionality

Edge cases

Regression

Kitchen Tools can help!



Why?

How?

Then?

Risks of Unit Testing

Don't eat too much!

Don't cook bullshit!

Workflow



He's a cool developer!



That's the SVN Server!

Local testing

Coding

Unit Testing

drinking coffee



Subversion

Comitting only tested code!



Continuous Integration

Coding

Unit Testing

drinking coffee

Subversion



Continuous Integration



Comitting un-tested code!



less than 2%

of all extensions in TER are unit tested



feels good!

Why?

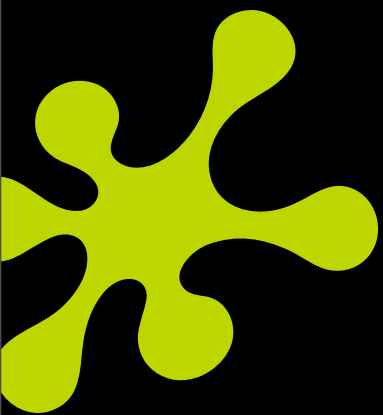
How?

Then?

page intentionally left blank for your questions

Thanks for your
attention...

... and happy cooking!



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