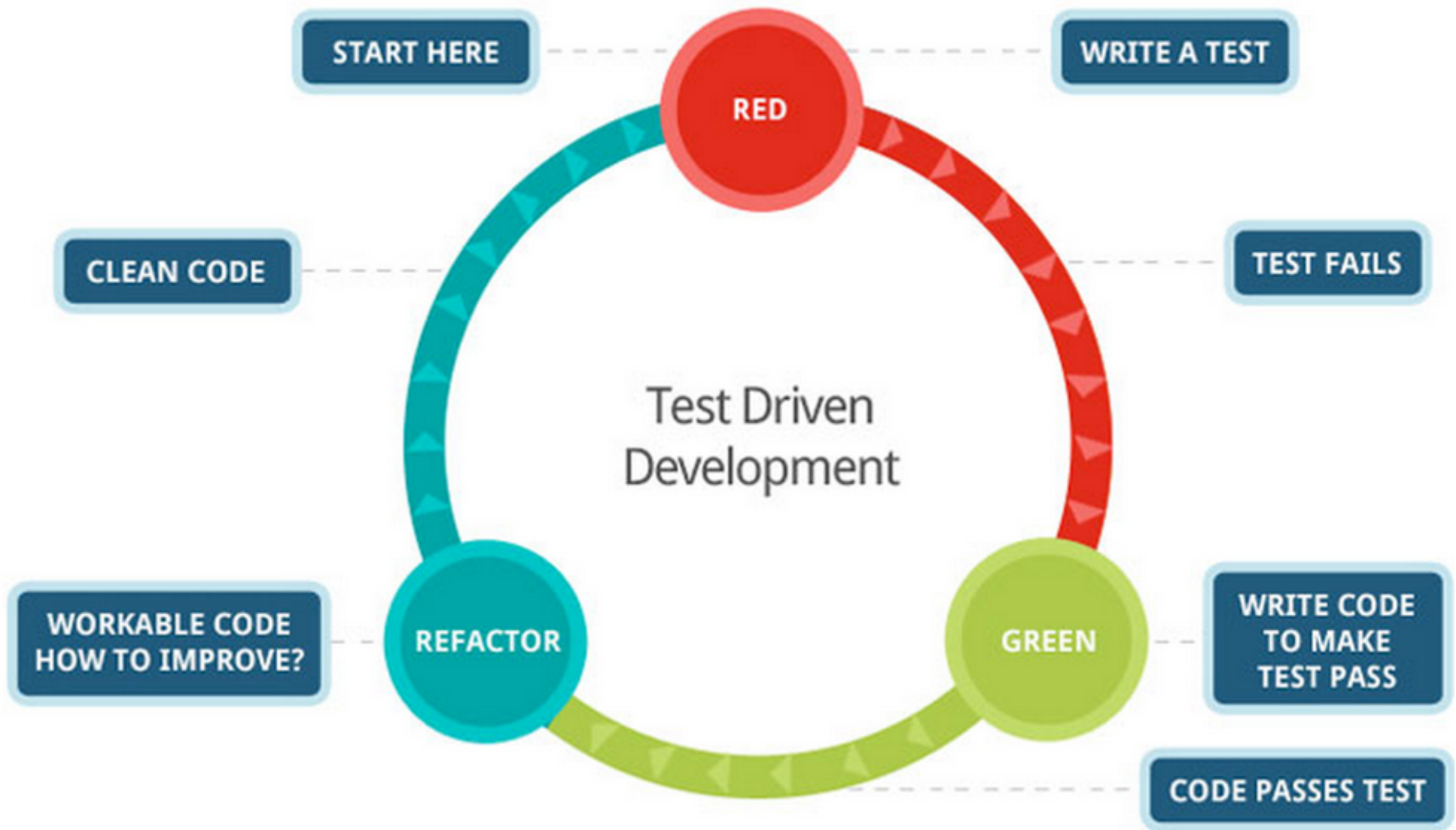




สมเกียรติ ปุ๋ยสูงเนิน
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SPRINT3R

Siam Chamnankit Co., Ltd., Odd-e (Thailand) Co., Ltd. and Alliance



คิดก่อนทำ

START HERE

WRITE A TEST

RED

TEST FAILS

CLEAN CODE

Test Driven
Development

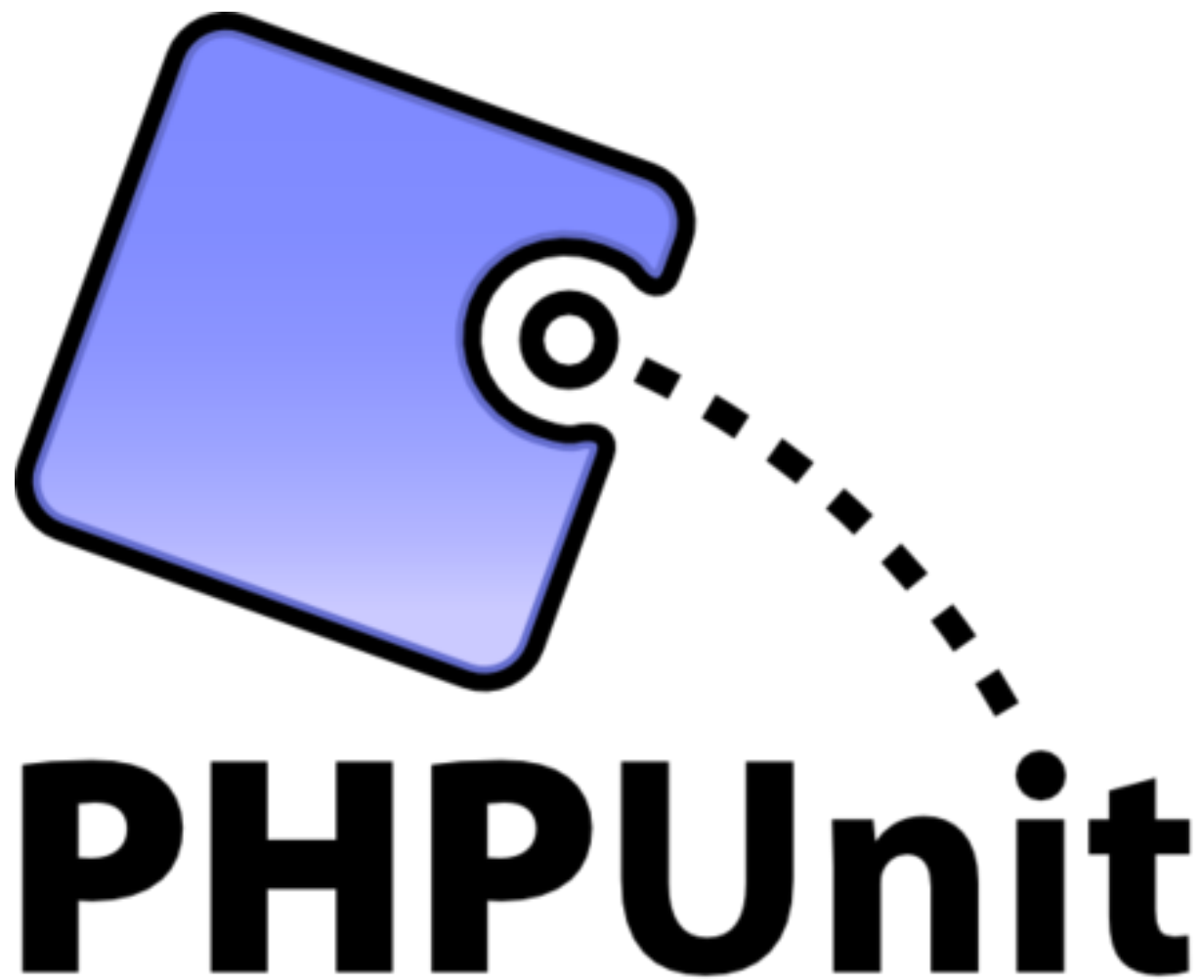
WRITE CODE
TO MAKE
TEST PASS

GREEN

CODE PASSES TEST

REFACTOR

WORKABLE CODE
HOW TO IMPROVE?



<https://phpunit.de/>

COMPOSER



Dependency Manager for PHP

<https://getcomposer.org/>

การติดตั้ง



```
$curl -sS https://getcomposer.org/installer | php
```

สำหรับ Windows



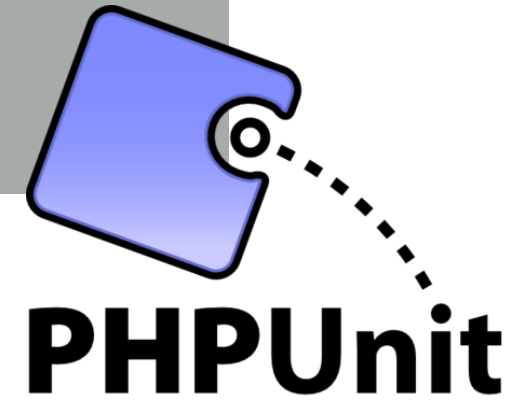
<https://getcomposer.org/Composer-Setup.exe>

เริ่มใช้งาน



\$composer -V

เริ่มใช้งาน



สร้างไฟล์ composer.json

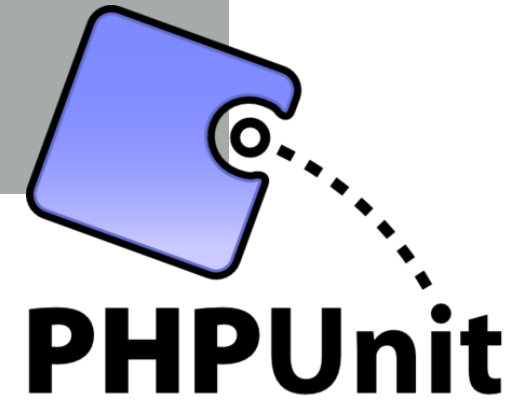
```
{  
    "require-dev": {  
        "phpunit/phpunit": "4.8.*"  
    }  
}
```

เริ่มใช้งาน



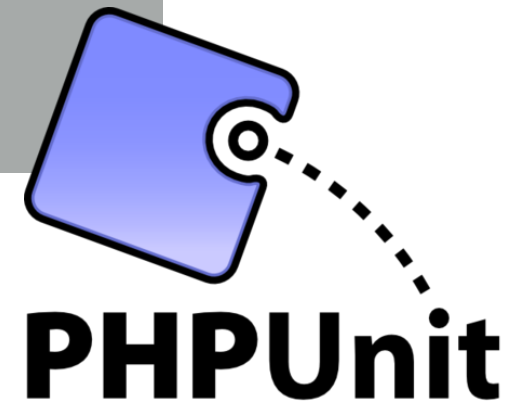
\$composer install

เริ่มใช้งาน



`./vendor/bin/phpunit`

เริ่มเขียน test กันเถอะ



โครงสร้างของ project

1. tests
2. src

คิดก่อนทำ

START HERE

WRITE A TEST

RED

TEST FAILS

CLEAN CODE

Test Driven
Development

WRITE CODE
TO MAKE
TEST PASS

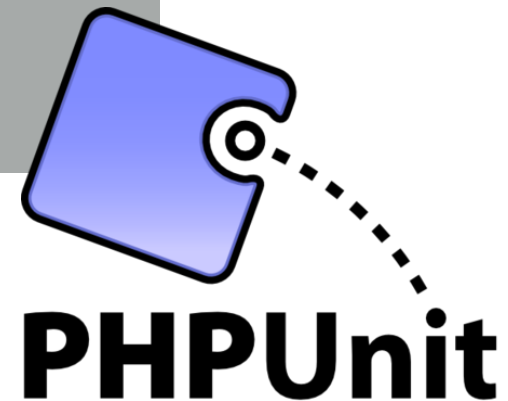
GREEN

CODE PASSES TEST

REFACTOR

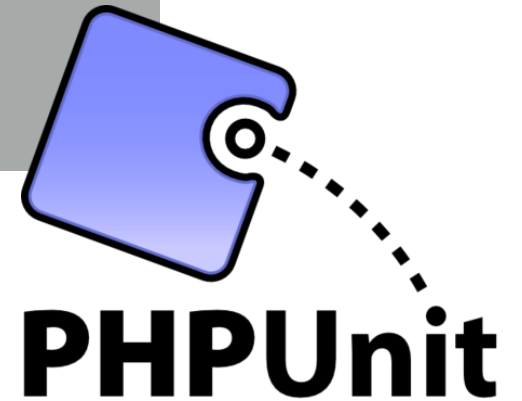
WORKABLE CODE
HOW TO IMPROVE?

เริ่มเขียน test กันเถอะ



```
1 <?php
2 class HelloTest extends PHPUnit_Framework_TestCase {
3     public function testXXX() {
4         $expectedResult = "Hello, somkiat";
5         $hello = new Hello();
6
7         $actualResult = $hello->sayHi("somkiat");
8
9         $this->assertEquals($expectedResult, $actualResult);
10    }
11 }
12 ?>
```

Assertion



`assertTrue($x)`

`assertNull($x)`

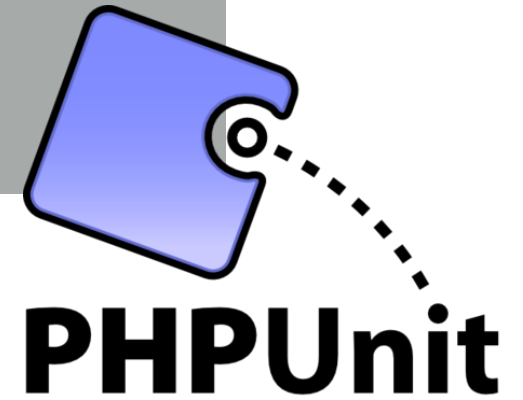
`assertEquals($x, $y)`

`assertFalse($x)`

`assertNotNull($x)`

`assertNotEquals($x, $y)`

Run test



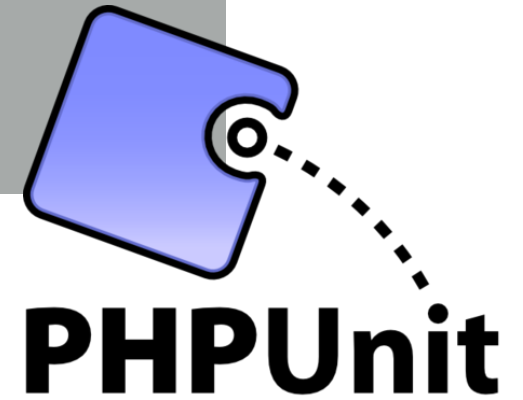
```
$/vendor/bin/phpunit tests
```

FAIL

สร้าง Production code

```
1  <?php
2  class Hello {
3      ....
4  }
5  ?>
```

Run test



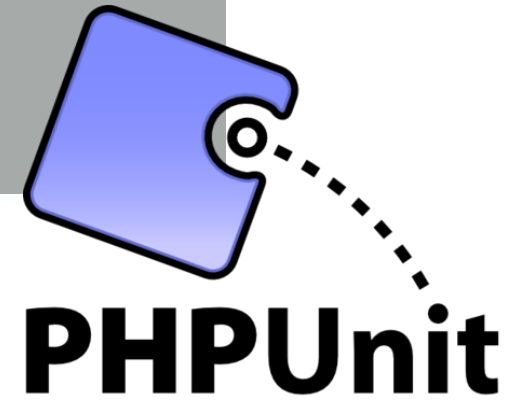
```
$/vendor/bin/phpunit tests
```

FAIL

สร้าง Production code

```
1 <?php
2 class Hello {
3     function sayHi($name) {
4         return "";
5     }
6 }
7 ?>
```

Run test



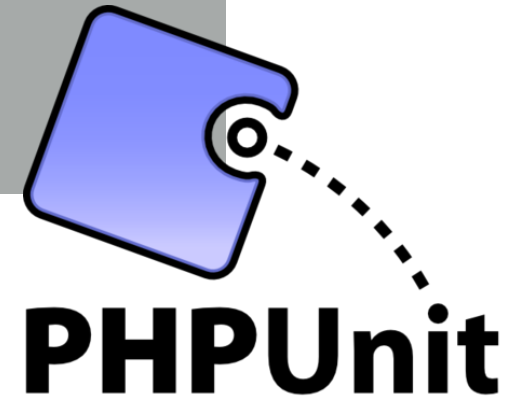
```
$/vendor/bin/phpunit tests
```

FAIL

สร้าง Production code

```
1 <?php
2 class Hello {
3     function sayHi($name) {
4         return "Hello, " . $name;
5     }
6 }
7 ?>
```

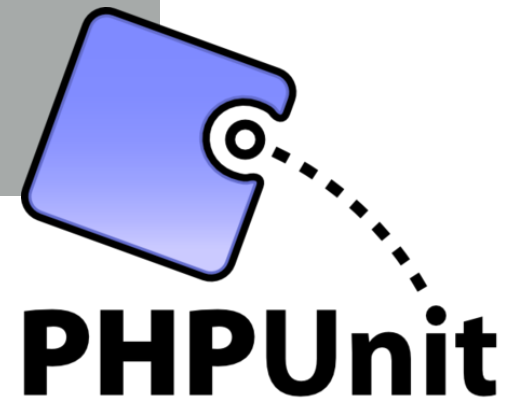
Run test



```
$/vendor/bin/phpunit tests
```

PASS

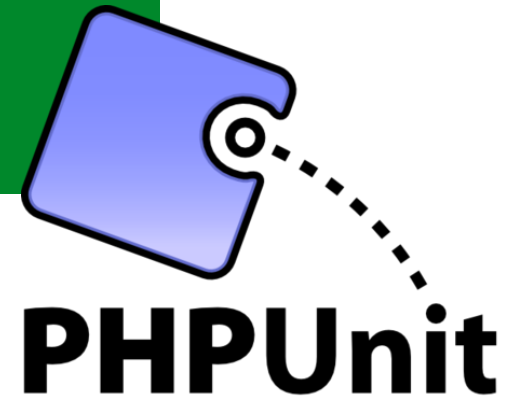
Run test with color



```
$/vendor/bin/phpunit tests --colors
```

PASS

ใช้งาน phpunit.xml



`$/vendor/bin/phpunit`

Auto-loading



```
1 <?php  
2 require("src/Hello.php");  
3
```

```
4 class HelloTest extends PHPUnit_Framework_TestCase {  
5     public function testXXX() {  
6         $expectedResult = "Hello, somkiat";  
7         $hello = new Hello();  
8  
9         $actualResult = $hello->sayHi("somkiat");  
10  
11         $this->assertEquals($expectedResult, $actualResult);  
12     }  
13 }  
14 ?>
```

Auto-loading



แก้ไขไฟล์ composer.json

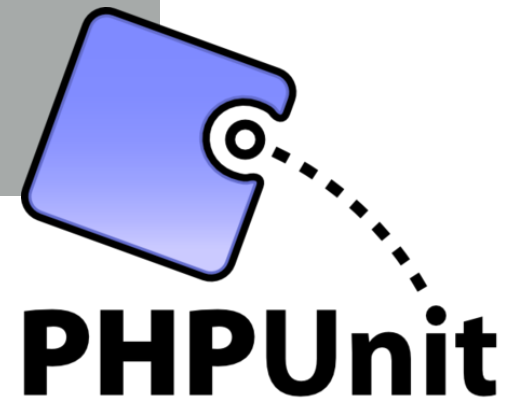
```
{  
    "require-dev": {  
        "phpunit/phpunit": "4.8.*"  
    },  
    "autoload": {  
        "classmap": ["src/"]  
    }  
}
```

เริ่มใช้งาน



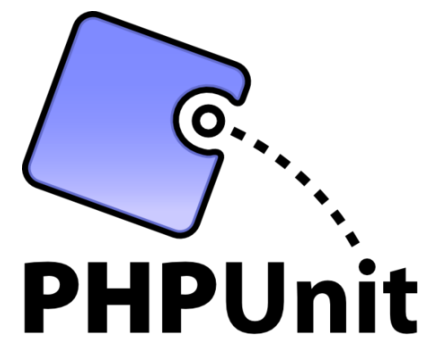
\$composer update

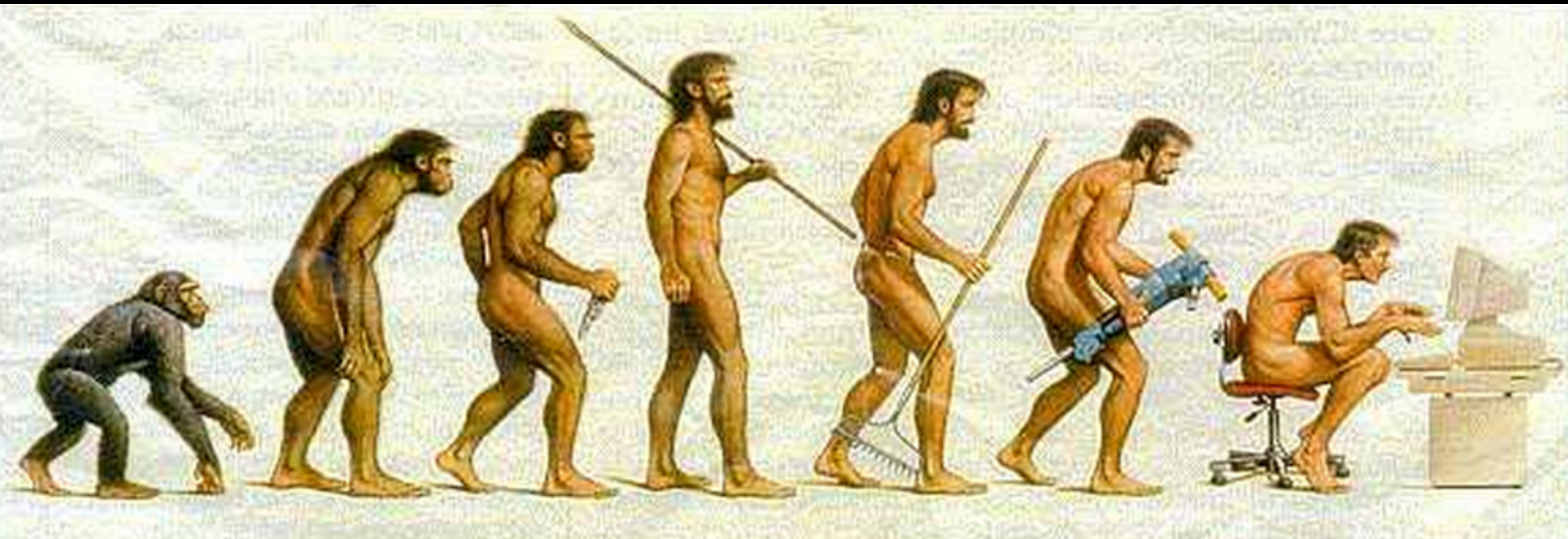
Run test again



```
$/vendor/bin/phpunit
```

PASS





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