

### PHPUnit Introduction

**Description** PHPUnit is a programmer-oriented testing framework for PHP.

**Homepage** <https://phpunit.de/index.html>

**Docs** <https://phpunit.readthedocs.io/en/10.0/>

### PHPUnit 10 Example Test

```
<?php declare(strict_types=1);
use PHPUnit\Framework\TestCase;
final class ExampleTest extends TestCase
{
    public function testBasicExample(): void
    {
        $this->assertTrue(true);
    }
}
```

### PHPUnit 10 Composer Commands

**Include PHPUnit 10 With Composer**

```
$ composer require --dev phpunit/phpunit ^10
```

**Check your PHPUnit Version**

```
$ ./vendor/bin/phpunit --version
```

**Run PHPUnit Tests**

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

### PHPUnit String Format Placeholders

Placeholder	Meaning
%e	Directory separator
%s	One or more of anything except end of line
%S	Zero or more of anything except end of line
%a	One or more of anything including end of line
%A	Zero or more of anything including end of line
%w	Zero or more white space characters.
%i	A signed integer value
%d	An unsigned integer value
%x	One or more hexadecimal character.
%f	A floating point number
%c	Any single character
%%	A literal percent character

### Basic Tests

```
assertTrue (bool $condition[, string $message = ''])
```

```
assertNotTrue (bool $condition[, string $message = ''])
```

```
assertFalse (bool $condition[, string $message = ''])
```

```
assertNotFalse (bool $condition[, string $message = ''])
```

```
assertEmpty (mixed $actual[, string $message = ''])
```

```
assertNotEmpty (mixed $actual[, string $message = ''])
```

### Numeric Tests

```
assertGreaterThan (mixed $expected, mixed $actual)
```

```
assertGreaterThanOrEqual (mixed $expected, mixed $actual)
```

```
assertLessThan (mixed $expected, mixed $actual)
```

```
assertLessThanOrEqualTo (mixed $expected, mixed $actual)
```



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