Test Driven Development in PHP

Why do we write tests?

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Introduction Who am I?:)

- Senior software engineer, writing code since 2005
- Owner and lead developer @WDev
- Lead developer @42coders
- Clean code and TDD enthusiast
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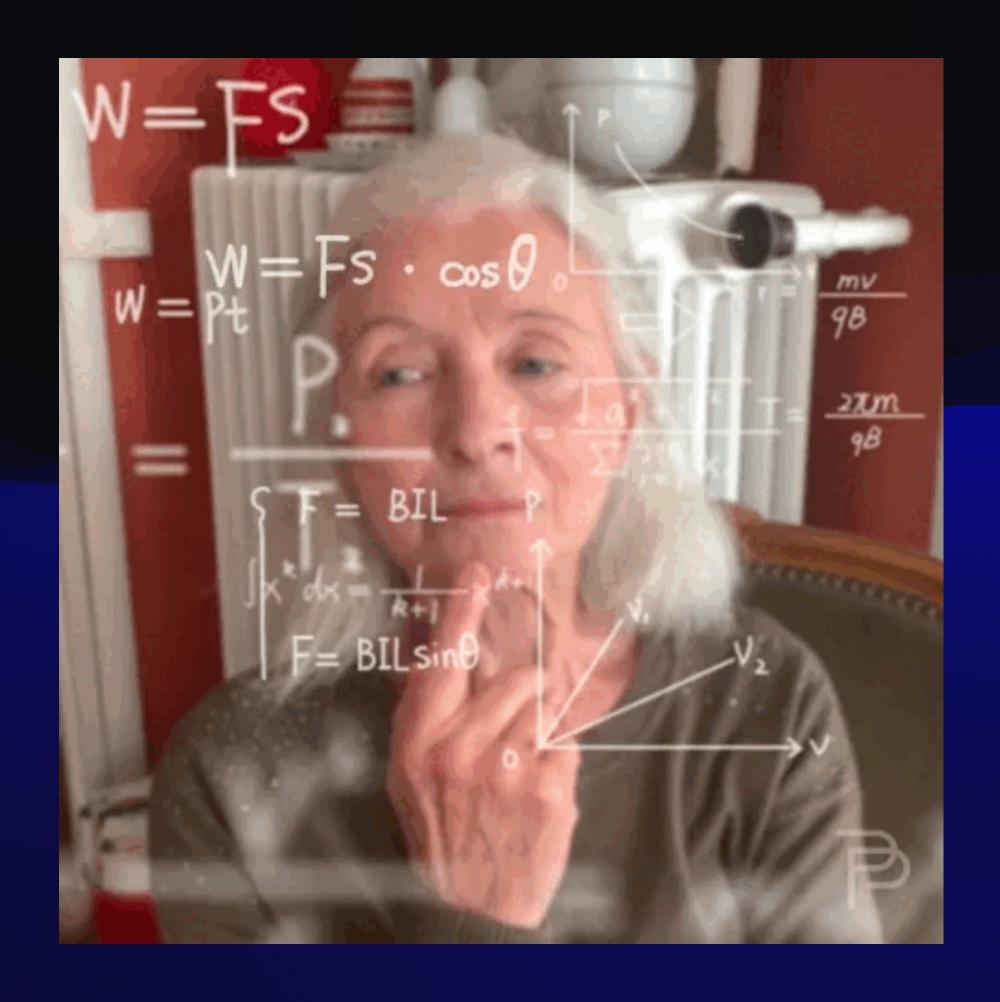
Daniel Verner

Why developers don't write tests?

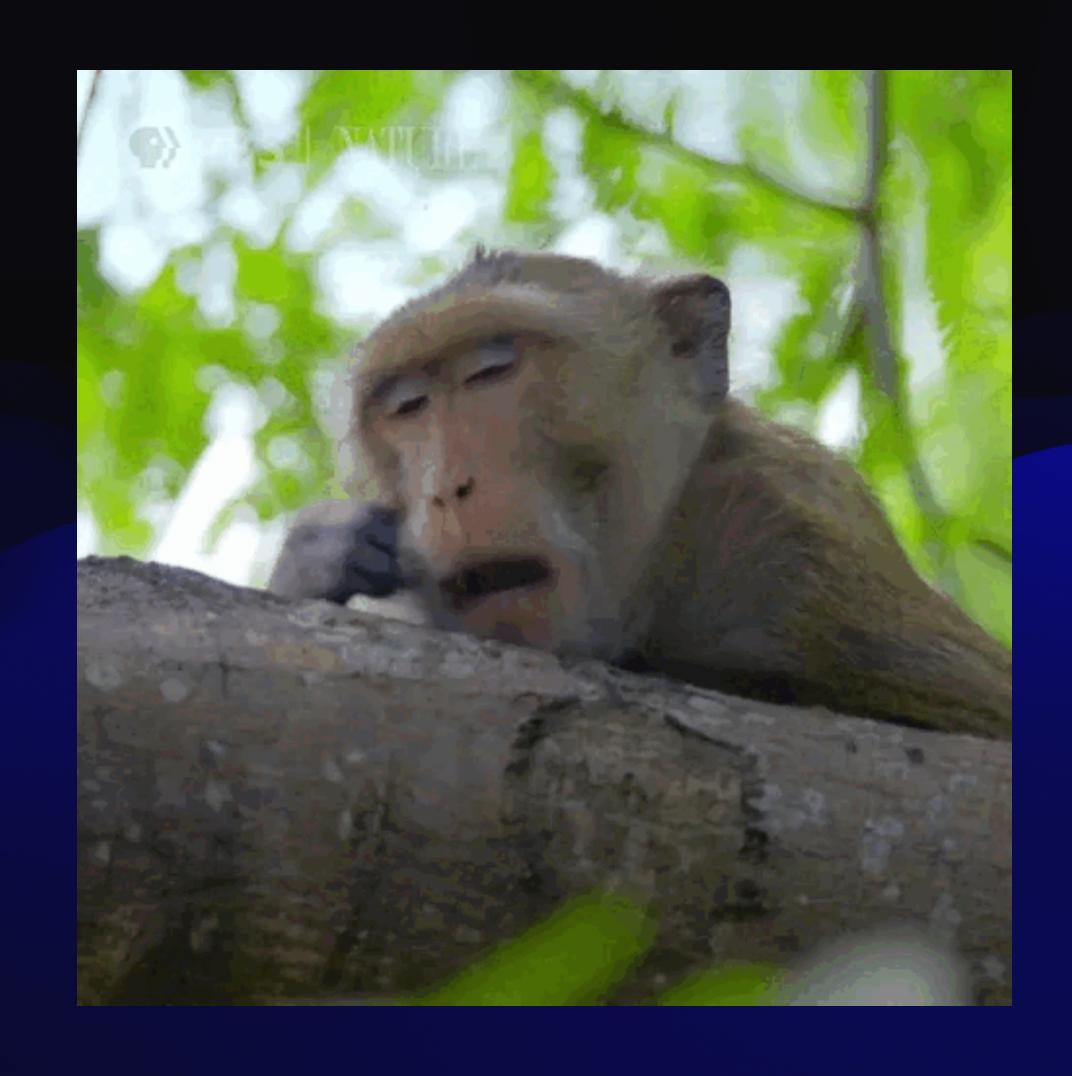
We don't have time for it!



It is complicated



It is boring



lalready tested it manually

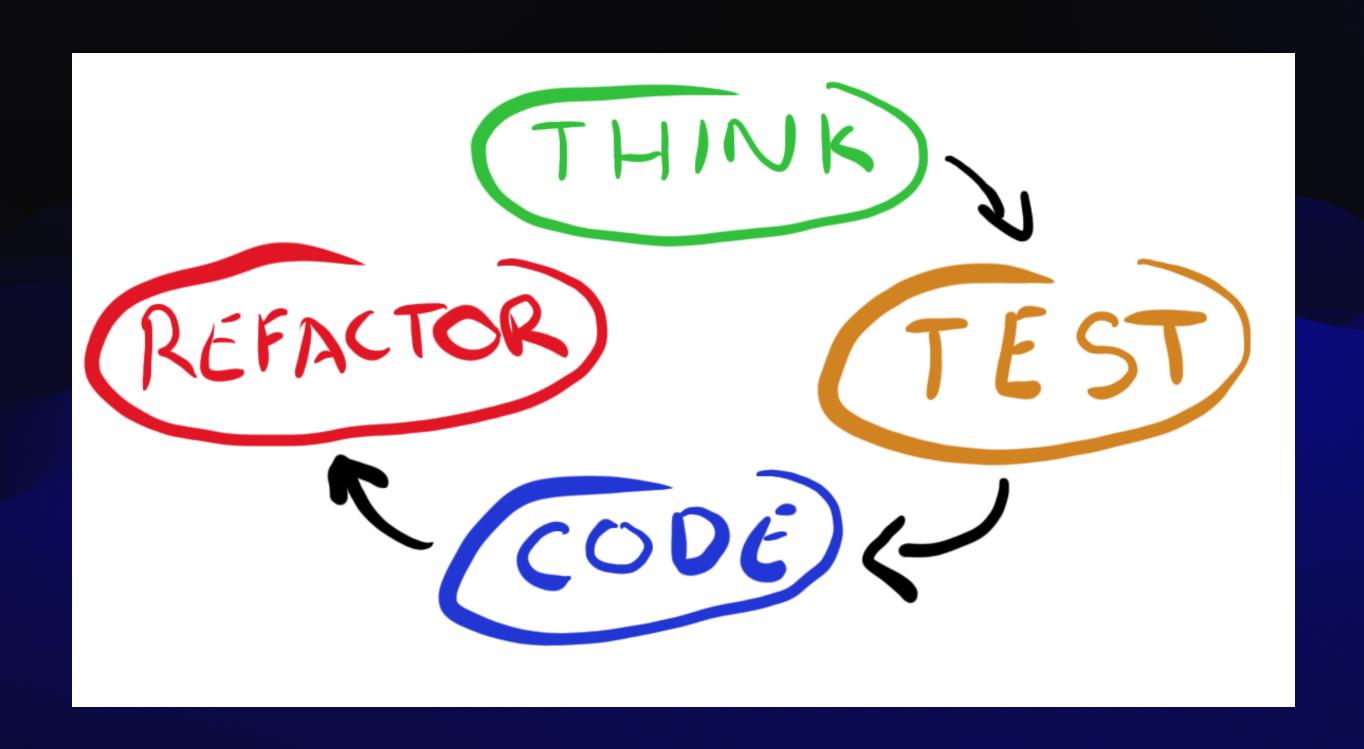


Why do we need tests?

Depends on the situation

(probably we don't)

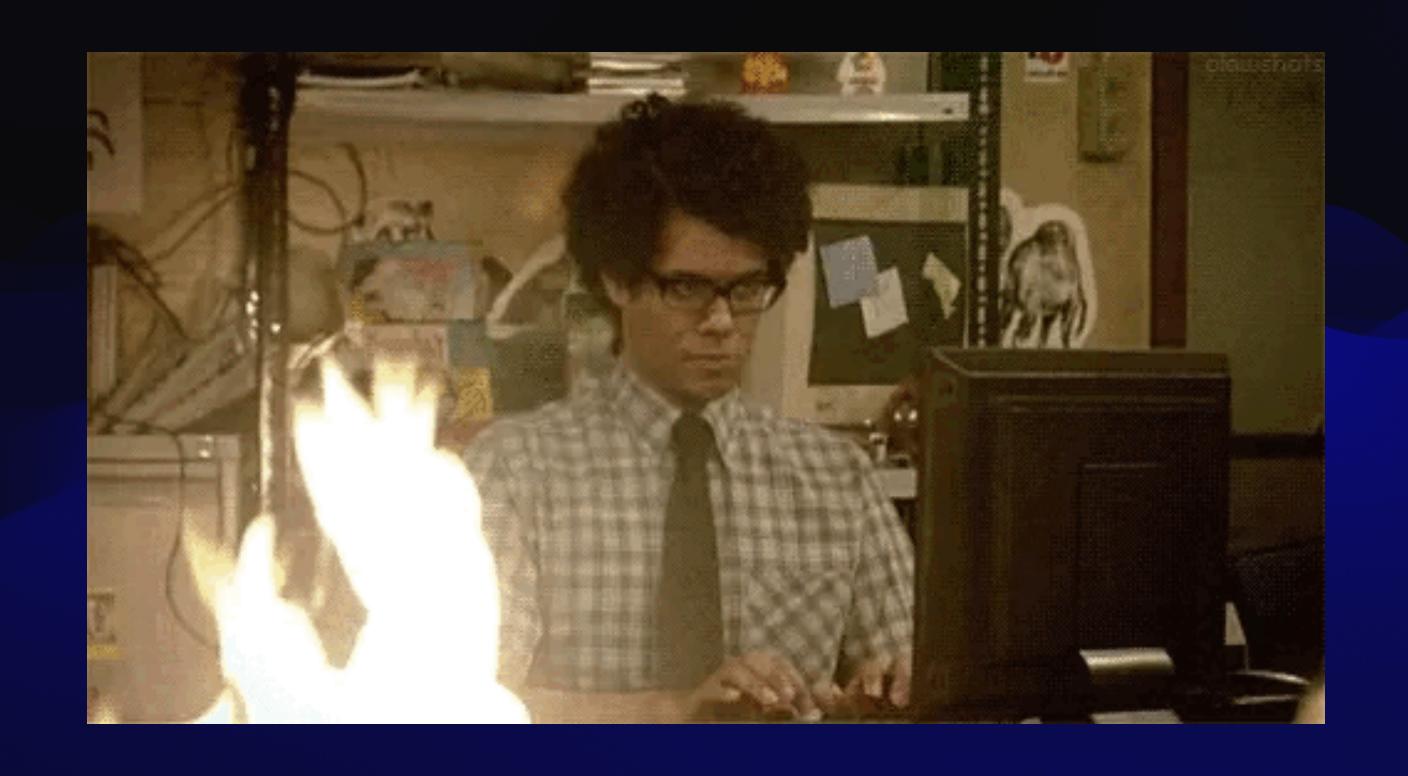
Easy and confident refactoring



Prevent bugs



Prevent breaking something else

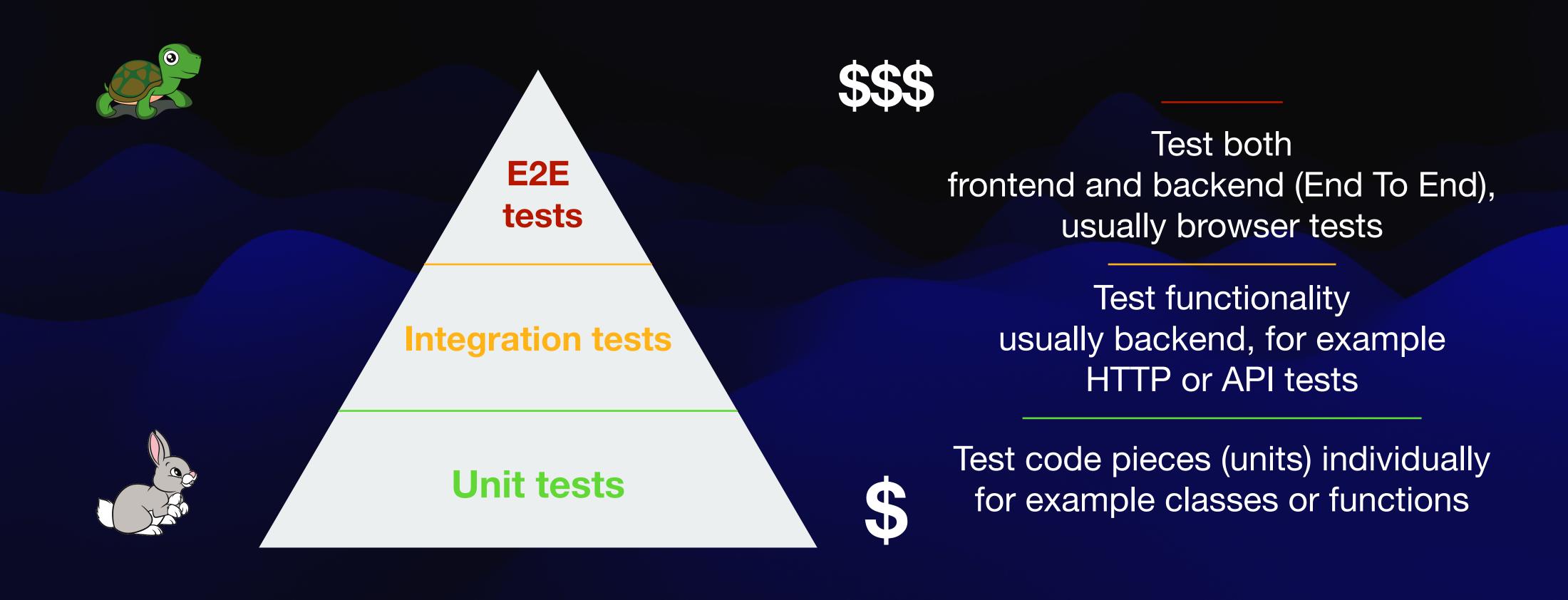


Test cases are reproducible



Ok, but what kind of tests?

The testing pyramid



What should we use?

PHPUnit

Codeception

Let's see some

CCDE already!

What Laravel provides us?

Built in mocking for Facades:

- Mail::fake()
- Storage::fake()
- Event::fake()
- Queue::fake()

Built in http test

- GET
- POST
- PUT

Service container

Be careful with testing

Common pitfalls

Check the settings in .env.testing e.g. don't send out emails to real users:)

Use the service container instead of the new keyword

expect a class or interface as an argument in the built in classes, or

app(Product::class) vs new Product()

Avoid random values

when initialising required objects or DB tables - it can cause randomly failing tests (and random headaches for the developers :)

Further resources

- https://phpunit.de/documentation.html
- https://laravel.com/docs/9.x/testing
- https://www.danielwerner.dev/lets-do-tdd
- Examples on GitHub:
 - https://github.com/daniel-werner/lets-do-tdd-php
 - https://github.com/daniel-werner/lets-do-tdd-laravel

Questions?

Thankyou!