
WHY CAN'T YOU TEST?

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Testing Is Hard





7 Obstacles



Anger

Configuring tools
is difficult

Anger

- * Use Composer (<http://getcomposer.org>) to isolate tools to your project
- * modify your project to fit the defaults of tools whenever possible
- * avoid fighting with tools but also resist urge to write your own

Anger

- * Composer + Packagist = library management
- * keeps dependencies as part of the project

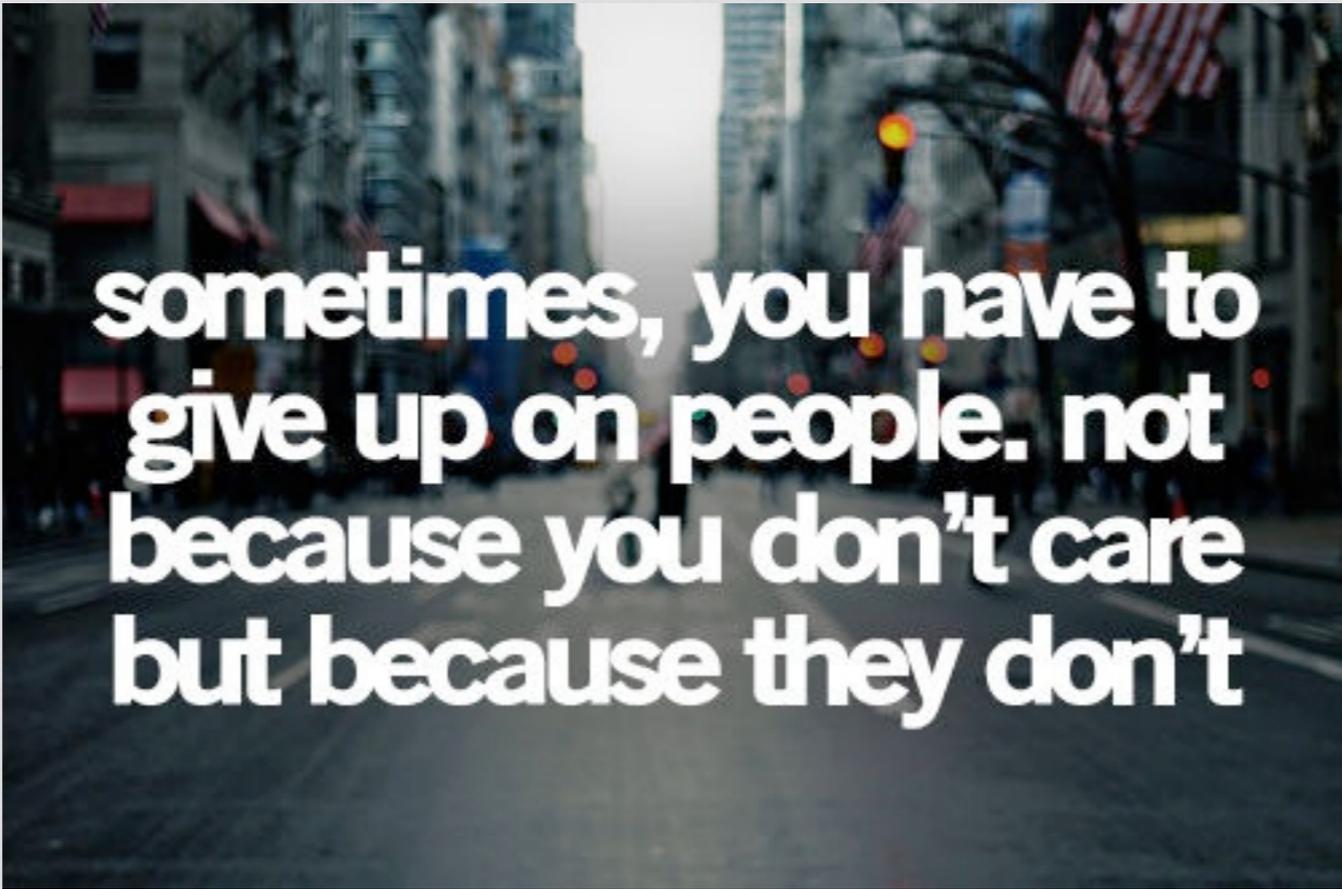
Anger

- * Avoid “my project is SOOOOO unique” mentality
- * makes it increasingly difficult to integrate other projects
- * Convention over configuration matters

Pride

Developers not taught
how to test

Pride



**sometimes, you have to
give up on people. not
because you don't care
but because they don't**

Pride

- * Impossible to learn how to write tests in isolation
- * Mentorships are awesome! (<http://phpmentoring.org>)
- * Talking about mentoring is awesome (#phpmentoring on Freenode)

Greed

Tightly-coupled
code common

Greed

- * learn about dependency injection
- * learn about Demeter's Law
- * understand WHY coupling is bad

Greed

- * DI Containers / Service Locators
- * constructor injection
- * setter injection



Gluttony

Too many
dependencies

Gluttony

- * you never know it until you try to create mocks for them
- * every dependency you add needs to be justified
- * sometimes there is no way to avoid it

Sloth

“You are paid to
write code, not tests”

Sloth

- * TDD is about shifting bug-fixing to a cheaper part of the process
- * TDD is a design pattern!
- * 20% to 40% more time for 40% to 90% fewer bugs

Sloth

- * Bugs found in developer cost \$X
- * Bugs found by QA cost \$2X
- * Bugs found in production cost \$10X

Envy

Lack of control
over environments

Envy

- * Composer can play double duty
- * Vagrant / other virtual machines are key
- * Repeatable automated processes are key

Lust

Cool JS code
hard to test

Lust

- * Behat + Mink + <browser emulator of choice >
- * Selenium/WebDriver can help with JS code
- * Create UI / UX that degrades for non-JS experience and test with Goutte

Dankeschön

* Questions?

* <http://grumpy-phpunit.com>

* <http://grumpy-testing.com>

* <http://grumpy-learning.com>