Unit Testing is for Weenies.

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Important lessons learned from being a bullheaded developer...

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- How do you know which part is broken when it breaks?
- How do you know that you know which part is broken?

I always test my code...

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```
$newThing = new Thing();
$newThing->doSomething();
$newThing->doSomething($else);
if ( $newThing->something == $else ) {
    echo “All done!”
}
```

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- What did it test, anyway?

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- How can anyone ever repeat that test?
- What did it test, anyway?
- What do you have to show for the effort?

Testing is so repetitive...

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- Unit Tests test Objects.
- Objects have Inheritance.
- Unit Tests are **themselves** Objects.
- **Don't Repeat Yourself.**

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- How much time do we spend...
  - Debugging a script or application?

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- How much time do we spend...
  - Debugging a script or application?
  - Finding the actual bug?
- How many billable hours do we lose?
- Don't we make our own schedules?

!?!

How to Sell Your Boss on Unit Testing

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It’s not me, it’s the psycho I work for...

The Essence of Quality Control is Testing

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- Testing adds value to work and products

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The Essence of Quality Control is Testing

- Testing adds value to work and products
- Lessons from other industries...
  - Toyota makes Good Automobiles.
  - Sam Adams makes Good Beer.
- Unit Testing is Quality Control.

Quality Control Testing <u>MUST BE</u>

Quality Control Testing MUST BE

- Rigorous, by testing everything,
- Repeatable, via automated tests,
- Producible upon demand,

Rigorous, repeatable, producible tests generate a more stable code base and a more accountable project.

Testing actually saves time and money

- Spend less time on tail-end debugging and finding those bugs,

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Testing actually saves time and money

- Spend less time on tail-end debugging and finding those bugs,
- Expose logical flaws and assumptions that we all unintentionally build on,
- Build dependencies that work since they're based on proven assumptions.

Topics to ask Google and Wikipedia about...

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- JUnit - The granddaddy of 'em all.
- phpUnit - My torture chamber of choice.
- RSpec - Unit Testing for Ruby.
- Selenium - Graphical Unit Testing.
- Test-Driven Development - Way of Life.

Discussion!