TDD and JavaScript



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Manifesto for Software Craftsmanship

Raising the bar.

As aspiring Software Craftsmen we are raising the bar of professional software development by practicing it and helping others learn the craft. Through this work we have come to value:

Not only working software, but also well-crafted software

Not only responding to change, but also **steadily adding value**

Not only individuals and interactions, but also a community of professionals

Not only customer collaboration, but also **productive partnerships**

That is, in pursuit of the items on the left we have found the items on the right to be indispensable.

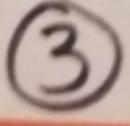
How do I ensure I'm creating well-crafted software?

Test Driven Development



Uncle Bob's Three Laws (1) 1. Write NO production code except to pass a failing test. 2. Write only enough of a test to demonstrate a failure 3. Write only enough production code to pass the test.

Core of TDD



· RED: test fails



. GREEN: test passes ["



· REFACTOR
LO CLEAN Code + Tests









Lack of Block Scope

Semicolon Insertion

```
return
{
  foo: "bar"
}
```



Demons. Nazis. Ninjas. Zombies. One size fits all.

Buggy JavaScript Code!



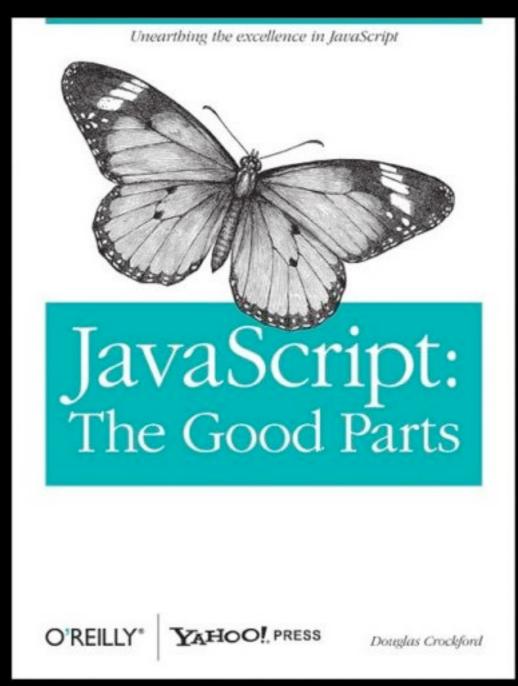
Why do we really hate JavaScript?

Working with the DOM sucks!

It's (perceived to be) difficult to test...

Forces us to leave the comfort of our language of choice.

JavaScript has many good parts!



Functions



Dynamic Language with Loose Typing



Expressive object literal notation

```
var javascriptGuru = {
  firstName: "Douglas",
  lastName: "Crockford"
}
```

Portable



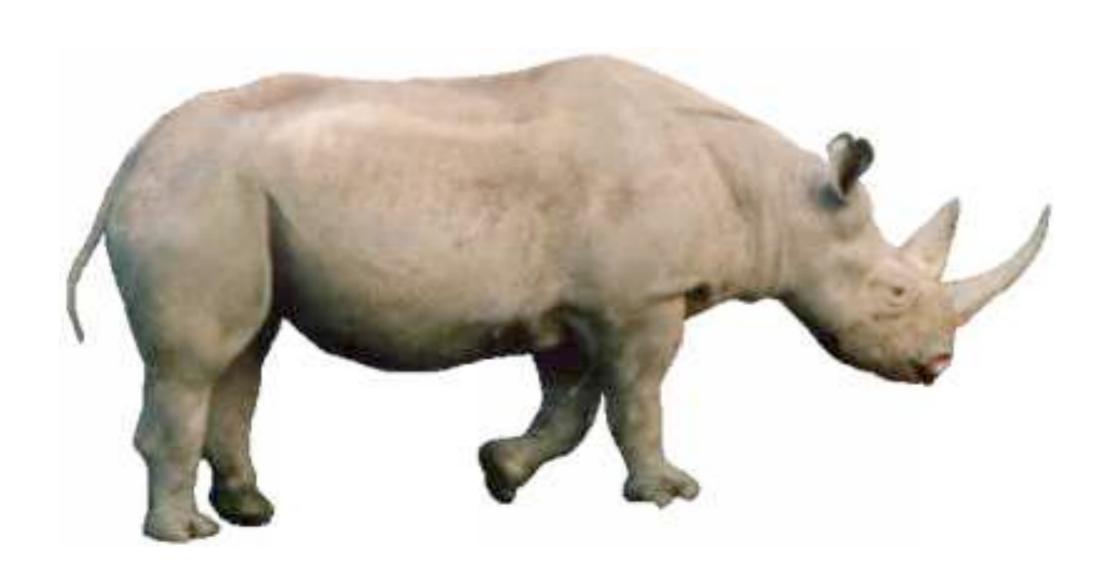
Every computer with a browser can run it!

Are you testing your JavaScript?



There are a ton of JavaScript testing frameworks available

RhinoUnit



YUI Test



ScrewUnit

```
describe("a nested describe", function() {
  var invocations = [];

before(function() {
    invocations.push("before");
});

describe("a doubly nested describe", function() {
    before(function() {
       invocations.push('inner before');
    });

it("runs befores in all ancestors prior to an it", function() {
       expect(invocations).to(equal, ["before", "inner before"]);
    });
});
});
```

JSUnit



(another) JSUnit



JsUnitTest Blue Ridge Cross Check

Test Case

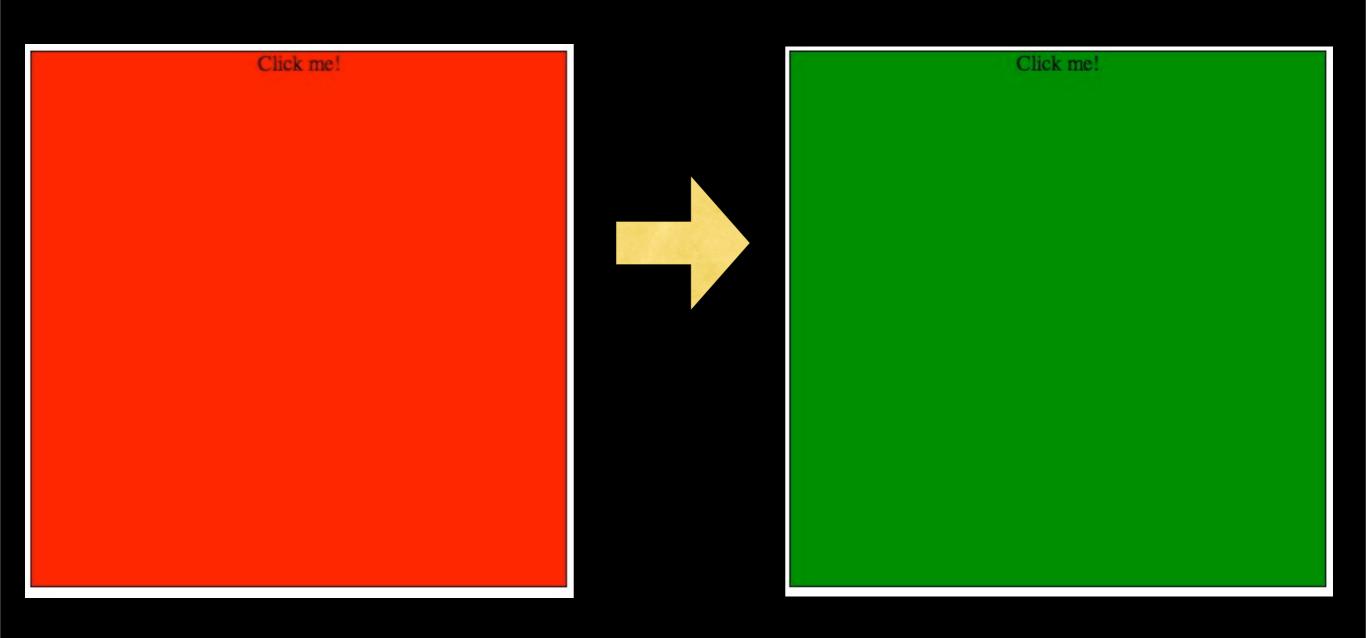
The list goes on...

Since everyone else is doing it...

Let's write our own!

http://github.com/jsuchy/JsSimpleUnit/tree/master

Simple Use Case



Thank you!



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