

# Testing JavaScript

with



Jasmine



# Why should I bother testing JS?

- It should be treated like any other language
- Ask yourself - Would you write thousands of lines of code in any other language, and not write a single test?
- JavaScript's usage is evolving and is at the forefront of HTML 5 amongst other technologies like Google's V8 and node.js



# Brief Overview

- Jasmine is an open source project by the folks at Pivotal Labs
- Framework agnostic
- Works standalone with any type of project
- Behavior Driven Approach inspired by RSpec



# BDD

- Write tests that match the feature desired by the business. The code is then a reflection of exactly what the business wants.
- More of of this: "When a user lands on the home page and selects this option then they should see this"
- Less of this: "This method was called and == something"



# Getting Started

- Downloads section: <http://pivotal.github.com/jasmine/>
- Walk through set up
  - standalone mode (jasmine-core  $\geq$  1.1.0)
  - Ruby gem (jasmine  $\geq$  1.1.0)
  - Maven plugin
  - Compatible with node.js



# Matchers

- Matchers make Jasmine very powerful and easy to use
- The framework is extensible to write your own, but the ones that come out of the box are actually awesome



# Spies

- A spy is simply a way to write an expectation and assertion that a method is
  - called
  - called with certain arguments
  - returns a "stubbed" value



# jquery-jasmine

- Simple 1 file "plugin"
- Comes with a bunch of addn'l matchers
- Ability to load DOM "fixtures"