

Jasmine

YAFJSTF

JavaScript Testing Roundup 13 May 2010

Davis W. Frank, Pivotal Labs
dwfrank@pivotalabs.com @dwfrank

Why?

- Needed BDD on Palm® webOS™
- JsUnit, JsSpec, Screw.Unit didn't work
- Guess we need to start over

Where to start?

- DOM assumptions
- request/response
- Frameworks
- Server

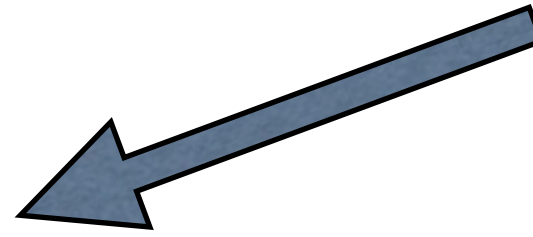
Where to start?

- DOM assumptions
- request/responses
- Frameworks
- Server

```
// A Jasmine Spec
```

```
it("should be be able to make a deck of cards.", function()  
{  
    var deckOfCards = new DeckOfCards();  
    expect(deckOfCards.count).toEqual(52);  
});
```

// A Jasmine Suite



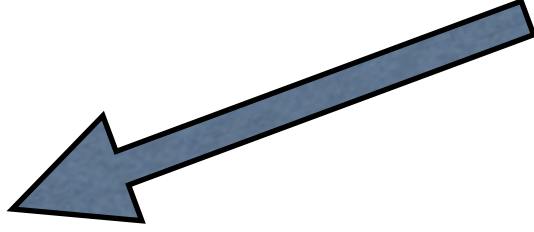
```
describe("DeckOfCards", function() {  
  
    it("should be be able to make a deck of cards.", function() {  
        var deckOfCards = new DeckOfCards();  
        expect(deckOfCards.count).toEqual(52);  
    });  
  
    it("should support shuffling", function() {  
        var deckOfCards = new DeckOfCards();  
        deckOfCards.shuffle();  
        expect(deckOfCards.count).toEqual(52);  
    });  
  
    it("should play 52 pickup", function() {  
        var deckOfCards = new DeckOfCards();  
        deckOfCards.play52Pickup();  
        expect(deckOfCards.count).toEqual(0);  
    });  
  
});
```

// A Jasmine Suite with a beforeEach

```
describe("DeckOfCards", function() {  
  var deckOfCards;
```



```
    beforeEach(function() {  
      deckOfCards = new DeckOfCards();
```



```
    });  
  
    it("should be able to make a deck of cards.", function() {  
      expect(deckOfCards.count).toEqual(52);  
    });
```

```
    it("should support shuffling", function() {  
      deckOfCards.shuffle();  
      expect(deckOfCards.count).toEqual(52);  
    });
```

```
    it("should play 52 pickup", function() {  
      deckOfCards.play52Pickup();  
      expect(deckOfCards.count).toEqual(0);  
    });
```

```
  });
```



```
// A Jasmine Suite with nested describes
```

```
describe("DeckOfCards", function() {  
  var deckOfCards;
```

```
  beforeEach(function() {  
    deckOfCards = new DeckOfCards();  
  });
```

```
  it("should be able to make a deck of cards.", function() {  
    expect(deckOfCards.count).toEqual(52);  
  });
```

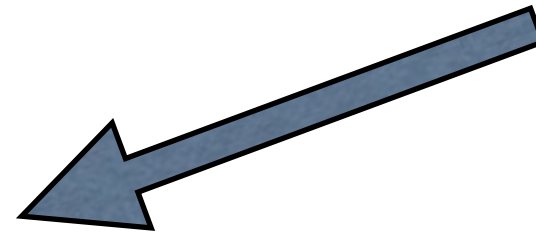
```
...
```

```
describe("with Jokers", function() {  
  deckWithJokers = new DeckOfCards({jokers: true});
```

```
  it("should support shuffling without losing any cards", function() {  
    deckWithJokers.shuffle();  
    expect(deckWithJokers.count).toEqual(54);  
  });
```

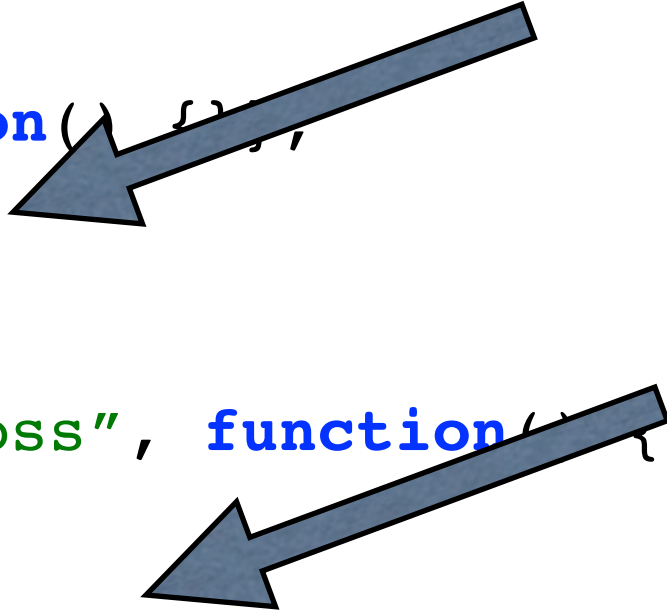
```
  it("should play 52 pickup", function() {  
    deckWithJokers.play52Pickup();  
    expect(deckWithJokers.count).toEqual(0);  
  });
```

```
});  
});
```



// Using a Jasmine Spy

```
describe("BlackJackDealer", function() {  
  var dealer, pitBoss;  
  
  beforeEach(function() {  
    dealer = new BlackJackDealer();  
    pitBoss = {getNewBlackJackDeck: function() {  
      spyOn(pitBoss, 'getNewBlackJackDeck');  
    }};  
  
    it("should get a new deck from the pit boss", function() {  
      dealer.refreshDeck();  
  
      expect(pitBoss.getNewBlackJackDeck).wasCalled();  
    });  
  });  
});
```



jasmine suite	
← → ↺ ☆ http://localhost:8888/ ▶	
114 specs, 0 failures in 0.097s	run all
jasmine.Env	run
ids	run
jasmine.Env ids nextSpecId should return consecutive integers, starting at 0.	run
reporting	run
version	run
jasmine.Env reporting version should raise an error if version is not set.	run
jasmine.Env reporting version version should return the current version as an int.	run
jasmine.Env reporting should allow reporters to be registered.	run
Exceptions:	run
Exceptions: jasmine.formatException formats Firefox exception messages as expected.	run
Exceptions: jasmine.formatException formats Webkit exception messages as expected.	run
Exceptions: should handle exceptions thrown, but continue.	run
jasmine.jsApiReporter	run
results	run
#summarizeResult	run
jasmine.jsApiReporter results #summarizeResult_ should summarize a passing result.	run
jasmine.jsApiReporter results #summarizeResult_ should have a stack trace for failing specs.	run
jasmine.jsApiReporter results #summarizeResult_ should have messages for specs with messages.	run
jasmine.jsApiReporter results resultForSpec() should return the result for the given spec.	run
jasmine.jsApiReporter results results() should return a hash of all results, indexed by spec id.	run
jasmine.Matchers	run
jasmine.Matchers toEqual with primitives, objects, dates, html nodes, etc..	run
jasmine.Matchers toBe should return true only if the expected and actual items === each other.	run
jasmine.Matchers toMatch and #toNotMatch should perform regular expression matching on strings.	run
jasmine.Matchers toBeDefined.	run
jasmine.Matchers toBeNull.	run
jasmine.Matchers toBeFalsy.	run
jasmine.Matchers toBeTruthy.	run
jasmine.Matchers toEqual.	run
jasmine.Matchers toEqual with jasmine.any().	run
jasmine.Matchers toEqual handles circular objects ok.	run

Other Stuff

- Shared Example groups
- Async specs
- Custom matchers

More Other Stuff

- Works fine with Rails projects
- Any browser, Rhino/Node, Jaxer, others
- Self-tested

THANKS !

```
$ git clone git://github.com/pivotal/jasmine.git
```

This presentation & code:

```
$ git clone git://github.com/infews/js-test-roundup.git
```