

Practising TDD

With QUNIT from GRUNT

Hello!



- I'm Jacob . I'll be your grunt and qunit guide for tonight.
- You can follow me at twitter as @jacobandresen

Internet lesson

- The good guys wear white hats



Testing ~~ALL~~ Some of the things

- Qunit
- grunt
- phantomjs

Qunit

- `ok(value, [message]);`
- `equal(actual, expected, [message]);`
- `notEqual(actual, expected, [message]);`
- `deepEqual(actual, expected, [message]);`
- `notDeepEqual(actual, expected, [message]);`
- `strictEqual(actual, expected, [message]);`
- `notStrictEqual(actual, expected, [message]);`
- `raises(block, [expected], [message]);`

Test results in the browser

ReIndex API Test Suite		
<input type="checkbox"/> Hide passed tests <input type="checkbox"/> Check for Globals <input type="checkbox"/> No try-catch		
Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/32.0.1671.3 Safari/537.36		
Tests completed in 5541 milliseconds. 27 assertions of 27 passed, 0 failed.		
1. it can show a record (0, 9, 9) Rerun		284 ms
2. it can search (0, 1, 1) Rerun		470 ms
3. it can page results (0, 3, 3) Rerun		465 ms
4. it can restrict on author (0, 1, 1) Rerun		267 ms
5. it can restrict on subject (0, 1, 1) Rerun		720 ms
6. it can restrict on date (0, 1, 1) Rerun		271 ms
7. it can load facets (0, 5, 5) Rerun		465 ms
8. title can sort descending (0, 1, 1) Rerun		466 ms
9. title can sort ascending (0, 1, 1) Rerun		264 ms
10. author can sort descending (0, 1, 1) Rerun		264 ms
11. author can sort ascending (0, 1, 1) Rerun		474 ms

Qunit rigging

```
1 <html>
2   <head>
3     <title>rxsearch test</title>
4     <meta charset="utf-8">
5     <link rel="stylesheet" href="../qunit.css">
6     <script src="../jquery.js"></script>
7     <script src="../qunit.js"></script>
8     <script type="text/javascript">
9       var rxsearch="http://jacob.reindex.net/BUF/rss/rxsearch.php";
10    </script>
11    <script src="search.js"></script>
12    <script src="facet.js"></script>
13    <script src="sort.js"></script>
14    <script src="thesaurus.js"></script>
15    <!-- <script src="xtarget.js"></script> -->
16    <!-- <script src="language.js"></script> -->
17  </head>
18  <body>
19    <h1 id="qunit-header">ReIndex API Test Suite</h1>
20    <h2 id="qunit-banner"></h2>
21    <div id="qunit-testrunner-toolbar"></div>
22    <h2 id="qunit-userAgent"></h2>
23    <ol id="qunit-tests"></ol>
24    <div id="qunit-fixture">
25  </body>
26 </html>
```

API testing

```
40
41 asyncTest("it can page results", function () {
42     var options = {
43         command: "search",
44         query: "Barn",
45         start: 2,
46         num: 5
47     };
48
49     $.get(rxsearch,
50         options,
51         function (data) {
52             var xmlDoc = $.parseXML(data),
53                 $xml = $(xmlDoc),
54                 numberValue = $xml.find("num").text(),
55                 startValue = $xml.find("start").text(),
56                 items = $xml.find("item");
57
58             start();
59             equal(options.start, startValue, "found correct start value");
60             equal(options.num, numberValue, "found correct num value");
61             equal(options.num, items.length, "expected length");
62         });
63     });
```


Discovering qunit-contrib-grunt

- Git clone <https://github.com/jquery/jquery-ui>
- Cd jquery-ui
- npm install
- grunt

Grunt npm bootcamp

- git clone <https://github.com/joyent/node>
- git checkout v0.10.20-release
- cd node && ./configure && make
- sudo npm install -g grunt-cli
- cd [your-project] && npm init
- npm install grunt --save-dev

Yo jquery!

 **Thomas Gorissen** @serrynaimo 15 Sep

.@horse_js is sooo yesterday... @jsconfeu
pic.twitter.com/ri03qGkRzO

Retweeted by Jacob Andresen

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3
RETWEETS

  

10:28 AM - 15 Sep 13 · Details

Flag media

Phantomjs and grunt-contrib-qunit

- Available for manual install here: <http://phantomjs.org/>
- Webkit based test runner . No visible browser
- We'll run it via grunt-contrib-qunit

Configuring grunt for qunit

```
1 module.exports = function (grunt) {
2     grunt.initConfig({
3         pkg: grunt.file.readJSON('package.json'),
4         qunit: {
5             api: {
6 +---- 5 lines: options: {-----
11         }
12     },
13     phpunit: {
14 +--- 6 lines: framework: {-----
20     }
21 });
22 grunt.loadNpmTasks( "grunt-contrib-qunit" );
23 grunt.loadNpmTasks( "grunt-phpunit");
24 grunt.registerTask( "default", [ "qunit", "phpunit" ] );
25 }
```

Running from the command line

```
jacob@development1:~/www/test$ grunt
Running "qunit:api" (qunit) task
Testing http://jacob.reindex.net/test/js/api/index.html.....OK
>> 27 assertions passed (4719ms)

Running "phpunit:framework" (phpunit) task
Starting phpunit (target: framework) in /home/jacob/www/test/php/
PHPUnit 3.4.14 by Sebastian Bergmann.
```

That's all folks

@jacobandresen