

가 assertion 가 .
assertion .

- **should.js** : BDD style shown throughout these docs
- **expect.js** : expect() style assertions
- **chai** : expect(), assert() and should style assertions
- **better-assert** : c-style self-documenting assert()

BDD가 .

BDD

describe() it() ()
before(), after(), beforeEach(), afterEach() .

```
describe('BDD style', function() {
  before(function() {
    // excuted before test suite
  });

  after(function() {
    // excuted after test suite
  });

  beforeEach(function() {
    // excuted before every test
  });

  afterEach(function() {
    // excuted after every test
  });

  describe('#example', function() {
    it('this is a test.', function() {
      // write test logic
    });
  });
});
```

TDD

TDD suite() test() / suiteSetup(),
suiteTeardown(), setup(), teardown() .

```
suite('TDD Style', function() {
  suiteSetup(function() {
    // excuted before test suite
  });

  suiteTeardown(function() {
    // excuted after test suite
  });

  setup(function() {
    // excuted before every test
  });

  teardown(function() {
    // excuted before every test
  });

  suite('#example', function() {
    test('this is a test', function() {
      // write test logic
    });
  });
});
```

exports, QUnit

Synchronous code

it() assertion . node.js assert

```
var assert = require('assert');

describe('Example', function() {
  describe('calculation', function() {
    it('1+1 should be 2', function() {
      assert.equal(1+1, 2);
    });
  });
});
```

Asynchronous code

```

it()                                done
                                   done()
                                   가      . assertion  done()
                                   2000ms
                                   . done()
                                   가 )
. (

```

```

var assert = require('assert')
    fs = require('fs');

describe('Example', function() {
  describe('calculation', function() {
    it('1+1 should be 2', function(done) {
      fs.readFile('example.txt', function(err, data) {
        done();
      });
    });
  });
});

```

```

done()      node.js
.

```

```

var assert = require('assert')
    fs = require('fs');

describe('Example', function() {
  describe('calculation', function() {
    it('1+1 should be 2', function(done) {
      fs.readFile('example.txt', done);
    });
  });
});

```

test

test

```
$ mocha
```

가 .

```
$ mocha test.js
```

mocha

-h	mocha 가 .
-w, -watch	가 .
-compilers <ext>:<module>	transpiler script . -compilers coffee:coffee-
-b, -bail	.
-d, -debug	node.js .
-globals <names>	. mocha
-ignore-leaks	가 .
-r, -require <name>	require() Object.prototype . assertion should.js var should = require('should'); 가 -require should should .(should가 가 .) module.exports require() .
-u, -ui <name>	. bdd . tdd, exports, qunit
-t, -timeout <ms>	-timeout 2s -timeout 2000 . 2 .
-s, -slow <ms>	75ms .
-g, -grep <pattern>	.
-G, -growl	growl .
-interfaces	.
-reporters	.

가 **-R, -reporter <name>** .

dot . .(
mocha .)

- dot - dot matrix
- doc - html documentation
- spec - hierarchical spec list
- json - single json object
- progress - progress bar
- list - spec-style listing
- tap - test-anything-protocol
- landing - unicode landing strip
- xunit - xunit reportert
- teamcity - teamcity ci support
- html-cov - HTML test coverage
- json-cov - JSON test coverage
- min - minimal reporter (great with -watch)
- json-stream - newline delimited json events

- markdown - markdown documentation (github flavour)

mocha.opts

./test/mocha.opts 가 mocha 가 .

```
--require should
--reporter dot
--ui bdd
```

bdd mocha.opts 가 mocha mocha -require should -reporter dot -ui

```
$ mocha --reporter list --growl
```

mocha.opts 가 mocha.opts

Mocha + Chai(Assertion) .

testPrj \$ npm installl chai chai lib
test . lib 가 test

lib .

tags.js

```
exports = module.exports = {};  
  
exports.parse = function(args, defaults, replacements) {  
  var options = {};  
  if (typeof defaults === "object" && !(defaults instanceof Array)) {  
    options = defaults  
  }  
  
  if (typeof replacements === "object" && !(defaults instanceof  
Array)) {  
    for (var i in args) {  
      var arg = args[i];
```

```

        if (arg.charAt(0) === "-" && arg.charAt(1) !== "-") {
            arg = arg.substr(1);
            if (arg.indexOf("=") !== -1) {
                arg = arg.split("=");
                var keys = arg.shift();
                var value = arg.join("=");

                arg = keys.split("");
                var key = arg.pop();
                if (replacements.hasOwnProperty(key)) {
                    key = replacements[key];
                }

                args.push("--" + key + "=" + value);
            } else {
                arg = arg.split("");
            }

            arg.forEach(function(key){
                if (replacements.hasOwnProperty(key)) {
                    key = replacements[key];
                }
                args.push("--" + key);
            });
        }
    }

    for (var i in args) { //Cycle through args
        var arg = args[i];
        //Check if Long formed tag
        if (arg.substr(0, 2) === "--") {
            arg = arg.substr(2);
            //Check for equals sign
            if (arg.indexOf("=") !== -1) {
                arg = arg.split("=");
                var key = arg.shift();
                var value = arg.join("=");

                if (/^[0-9]+$/.test(value)) {
                    value = parseInt(value, 10);
                }
                options[key] = value;
            } else {
                options[arg] = true;
            }
        }
    }

    return options;
}

```

[search.js](#)

```
var fs = require("fs");

exports = module.exports = {};

//A Modified Snippet from Christopher Jeffrey
http://stackoverflow.com/questions/5827612/node-js-fs-readdir-recursive-directory-search
exports.scan = function(dir, depth, done) {
  depth--;
  var results = [];
  fs.readdir(dir, function(err, list) {
    if (err) return done(err);
    var i = 0;
    (function next() {
      var file = list[i++];
      if (!file) return done(null, results);
      file = dir + '/' + file;
      fs.stat(file, function(err, stat) {
        if (stat && stat.isDirectory()) {
          if (depth !== 0) {
            var ndepth = (depth > 1) ? depth-1 : 1;
            exports.scan(file, ndepth, function(err, res) {
              results = results.concat(res);
              next();
            });
          } else {
            next();
          }
        } else {
          results.push(file);
          next();
        }
      });
    })();
  });
};

exports.match = function(query, files){
  var matches = [];
  files.forEach(function(name) {
    if (name.indexOf(query) !== -1) {
      matches.push(name);
    }
  });
  return matches;
}
```


test

tagsSpec.js

```
var expect = require("chai").expect;
var tags = require("../lib/tags.js");

describe("Tags", function(){
  describe("#parse()", function(){
    it("should parse long formed tags and convert numbers",
function(){
    var args = ["--depth=4", "--hello=world"];
    var results = tags.parse(args);

    expect(results).to.have.a.property("depth", 4);
    expect(results).to.have.a.property("hello", "world");
  });
  it("should fallback to defaults", function(){
    var args = ["--depth=4", "--hello=world"];
    var defaults = { depth: 2, foo: "bar" };
    var results = tags.parse(args, defaults);

    var expected = {
      depth: 4,
      foo: "bar",
      hello: "world"
    };

    expect(results).to.deep.equal(expected);
  });
  it("should accept tags without values as a bool", function(){
    var args = ["--searchContents"];
    var results = tags.parse(args);

    expect(results).to.have.a.property("searchContents", true);
  });
  it("should accept short formed tags", function(){
    var args = ["-sd=4", "-h"];
    var replacements = {
      s: "searchContents",
      d: "depth",
      h: "hello"
    };

    var results = tags.parse(args, {}, replacements);

    var expected = {
      searchContents: true,
```

```

        depth: 4,
        hello: true
    });

    expect(results).to.deep.equal(expected);
  });
});
});

```

Synchronous code	. it	. describe	Tags
(...	parse()	.
it	parse	가	가
		parsing	
		argument	
chai	expect	parse	가
	(parseInt)	.

searchSpec.js

```

var expect = require("chai").expect;
var search = require("../lib/search.js");
var fs = require("fs");

describe("Search", function(){
  describe("#scan()", function(){
    before(function() {
      if (!fs.existsSync(".test_files")) {
        fs.mkdirSync(".test_files");
        fs.writeFileSync(".test_files/a", "");
        fs.writeFileSync(".test_files/b", "");
        fs.mkdirSync(".test_files/dir");
        fs.writeFileSync(".test_files/dir/c", "");
        fs.mkdirSync(".test_files/dir2");
        fs.writeFileSync(".test_files/dir2/d", "");
      }
    });

    after(function() {
      fs.unlinkSync(".test_files/dir/c");
      fs.rmdirSync(".test_files/dir");
      fs.unlinkSync(".test_files/dir2/d");
      fs.rmdirSync(".test_files/dir2");
      fs.unlinkSync(".test_files/a");
      fs.unlinkSync(".test_files/b");
      fs.rmdirSync(".test_files");
    });

    it("should retrieve the files from a directory", function(done)
    {
      search.scan(".test_files", 0, function(err, flist){
        expect(flist).to.deep.equal([

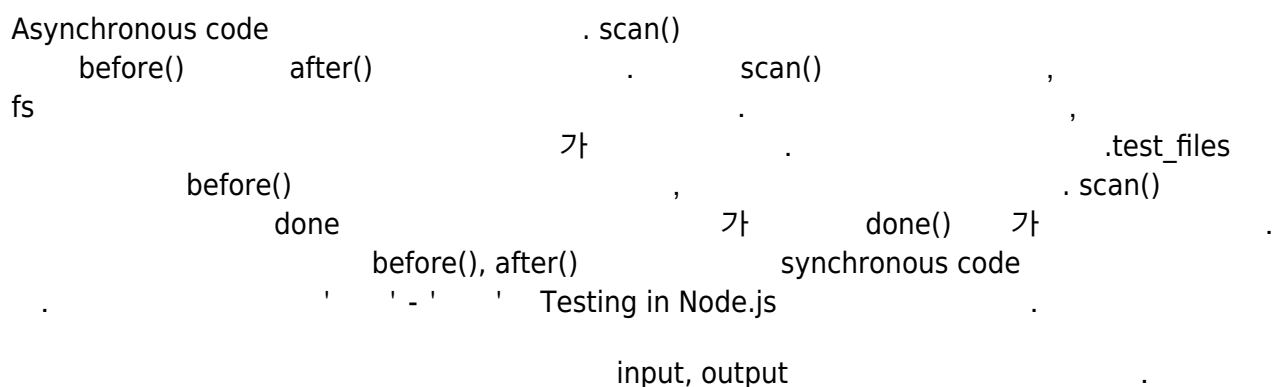
```

```

        ".test_files/a",
        ".test_files/b",
        ".test_files/dir/c",
        ".test_files/dir2/d"
    ]);
    done();
  });
});
it("should stop at a specified depth", function(done) {
  search.scan(".test_files", 1, function(err, flist) {
    expect(flist).to.deep.equal([
      ".test_files/a",
      ".test_files/b",
    ]);
    done();
  });
});
});
describe("#match()", function(){
  it("should find and return matches based on a query",
function(){
    var files = ["hello.txt", "world.js", "another.js"];
    var results = search.match(".js", files);
    expect(results).to.deep.equal(["world.js", "another.js"]);

    results = search.match("hello", files);
    expect(results).to.deep.equal(["hello.txt"]);
  });
});
});

```



Webstorm

- [Debugging mocha unit tests with WebStorm step by step](#)

From:

<http://obg.co.kr/doku/> - **OBG WiKi**

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