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**What is karma**

Karma is the task runner for running unit tests ( client side ) this can also create coverage reports

Info @ <https://www.npmjs.com/package/karma>

Karma allows us to run tests on various browsers, allows tests to run once or when a spec file is saved. This is great for development as you can run the tests once any file is saved or when a spec file is saved, to ensure that any changes made do not break any of the tests.

Unit tests, whether Client/server or E2E (End to End) are written in jasmine.

Info @ <https://www.npmjs.com/package/jasmine>

Info @ <https://jasmine.github.io/1.3/introduction.html>

**Jasmine**

Jasmine is a variation of JavaScript that is used for testing Angular and Node.

Jasmine structures it tests like a folder on a computer, you have 1 folder which may have other folders within and may also have tests within.

In jasmine we relate these “folders” to “describe” blocks and the files to “it” statements.

Then our Expect Statement will be the actual test, we may have multiple expect statements in one “it” test, or we may also multiple “it” in our “describe” also it is possible to have multiple describes inside “Describes”.

EG:

describe("A suite", function() {

it("contains spec with an expectation", function() {

expect(true).toBe(true);

});

});

Installing



Npm install -g karma –save-dev

Using karma with grunt

How to test

Run tests

Angular componments

Writing Tests

Run karma with grunt

<https://github.com/karma-runner/grunt-karma>