

# Setup AngularJS as standalone

Nicolas Florentin

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## Abstract

This short tutorial explains how to setup your environnement with:

- **bower**: a package manager
- **yeoman**: a generator tool to scaffold your app
- **karma**: for unit testing
- **protractor** and **jasmine**: for e2e testing

It assumes that you have already setup **git**, **npm** and **node**.

## Installation & project generation

### Install yeoman

```
npm install -global yo
```

### Install angular's generator

```
npm install --global generator-angular
```

### Generate your app

Create directory and go into it.

```
yo angular
```

## Installation & configuration of test tools

### Installation protractor & protractor runner

```
npm install protractor grunt-protractor-runner --save-dev
```

### configuration

Create `protractor.conf.js` into root directory and copy this configuration:

```
exports.config = {

  allScriptsTimeout: 99999,

  // The address of a running selenium server.

  // Capabilities to be passed to the webdriver instance.
  capabilities: {
    'browserName': 'chrome'
  },

  baseUrl: 'http://localhost:9001/',

  framework: 'jasmine',

  // Spec patterns are relative to the current working directory when
  // protractor is called.
  specs: ['test/e2e/*.js'],

  // Options to be passed to Jasmine-node.
```

```

jasmineNodeOpts: {
  showColors: true,
  defaultTimeoutInterval: 30000,
  isVerbose : true,
  includeStackTrace : true
}
};

```

## Configuration of grunt task for e2e testing

Add this task:

```

protractor: {
  options: {
    keepAlive: true,
    configFile: "protractor.conf.js"
  },
  run: {}
}

```

Register the task:

```

grunt.registerTask('teste2e', [
  'clean:server',
  'concurrent:test',
  'autoprefixer',
  'connect:test',
  'karma',
  'protractor:run'
]);

```

## Configuration of npm task to update webdriver

Add the line `install" [...] webdriver-manager update` into `package.json` (root directory):

```

"scripts": {
  "test": "grunt test",
  "install": "node node_modules/grunt-protractor-runner/node_modules/protractor/bin/webdriver-manager update"
}

```

Run `npm install` to update the drivers.

## Test's files setup

In test directory:

- create directory `e2e` and go into it
- create a file `*.js`

Copy the *fake* tests into the file:

```
'use strict';
/* https://github.com/angular/protractor/blob/master/docs/getting-started.md */

describe('my app', function() {

  beforeEach(function () {
    browser.get('index.html');
  });

  it('should be true', function() {
    expect(true).toBe(true);
  });
});
```

## Run tests

### Unit tests

```
grunt test
```

### E2e tests

```
grunt teste2e
```

# Enjoy