Grunt

<http://gruntjs.com/getting-started>

Grunt is a task manager, do not get this confused between NPM or Bower,

Grunt : task manager

Npm: server side dependency manager

Bower: client side dependency manager

Start of by installing the command line grunt from NPM by : “npm install grunt-cli” this will install the grunt command line interface and will allow us to call grunt from anywhere in our project.

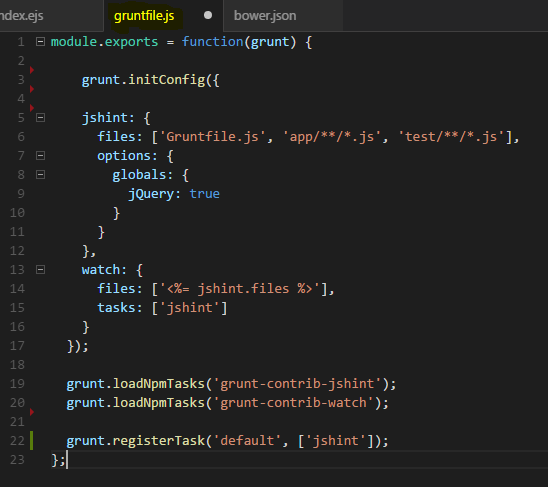


Install these 3 modules to get up and running, we need grunt initially, but also install “grunt-contrib-jshint” and “grunt-contrib-watch” as these will come in handy later on.

Once we have these dependacies installed and updated in our package.json we can create the gruntfile.js now.

This is a simple example of a grunt file using the dependacies mentioned above.



In this example we have 2 tasks currently, jshint and watch, since we installed these 2 dependacies also, if we want to use them we must laod the task by “grunt.loadNpmTasks('grunt-contrib-watch');” or else grunt would not know what to do.

You may create custom tasks inside this grunt file, some may require you to install more dependacies or load more npm tasks.

**Browserify**

[**https://www.npmjs.com/package/grunt-browserify**](https://www.npmjs.com/package/grunt-browserify)

Browserify will collate all the files needed for loading into the browser into one file. Or mutiple if you wish.

For this app we are going to create 2 files, one for the app code, and another for all the dependacies.

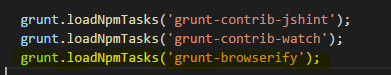
To do this we must install browserify:



Once we have this done and the package.json updated we can start to edit the gruntfile.js

Add in this new line of code:

“grunt.loadNpmTasks('grunt-browserify');”



Now we can begin to add our browserify task and configure it.



Start of by creating the task “Browserify“ and we have here 2 tasks within it. This is a basic example to get browserify to create separate files, but if more info is needed can be found

@ <https://www.npmjs.com/package/grunt-browserify>

Inside the client task we are telling browserify what file is our entry point to the app, here it is the app.js

And then we specify the destination where we want to save the file. We must give this task a list of the external files also.

May ask why are we having separate file?

-To get correct coverage of our app for testing

-Faster build times for dev, as you only need to create one file when src code is changed

Inside the deps task we do not need to tell it of any source files, but we must give it the location of where the dependencies are kept.