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# Exercise (Instructions): Grunt Part 2

## Objectives and Outcomes

In this exercise, you will continue to learn to use Grunt, the task runner. You will configure the Grunt file with a set of additional tasks to build your web project. At the end of this exercise, you will be able to:

Configure a Grunt file with a set of tasks to build your web project from a source.

#### Copying the Files and Cleaning Up the Dist Folder

 Next you will install the Grunt modules to copy over files to a distribution folder named dist, and clean up the dist folder when needed. To do this, install the following Grunt modules:

```
1 npm install grunt-contrib-copy@1.0.0 --save-dev
2 npm install grunt-contrib-clean@1.1.0 --save-dev
```

You will now add the code to perform the copying of files to the dist folder, and cleaning up the dist folder. To do this, add
the following code to Gruntfile.js. This should be added right after the configuration of the SASS task.:

Remember to add the comma after the end of the SASS task.

## Compressing and Minifying Images

 Next we install the grunt-contrib-imagemin module and use it to process the images. To install this module type at the prompt:

```
1 npm install grunt-contrib-imagemin@2.0.1 --save-dev
```

• Then, configure the imagemin task as shown below in the Gruntfile:

## Preparing the Distribution Folder and Files

We are now going to use the Grunt usemin module together with concat, cssmin, uglify and filerev to prepare the
distribution folder. To do this, install the following Grunt modules:

```
1 npm install grunt-contrib-concat@1.0.1 --save-dev
2 npm install grunt-contrib-cssmin@2.2.1 --save-dev
3 npm install grunt-contrib-hufnin@2.4.0 --save-dev
4 npm install grunt-contrib-uglify@3.3.0 --save-dev
5 npm install grunt-contrib-uglify@3.3.0 --save-dev
6 nom install grunt-contrib-uglify@3.3.1 --save-dev
6 nom install grunt-usemin@3.1.1 --save-dev
```

• Next, update the task configuration within the Gruntfile.js with the following additional code to introduce the new tasks:

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2 npm install grunt-contrib-cssmin@2.2.1 --save-dev
3 npm install grunt-contrib-hlmlin@2.4.0 --save-dev
4 npm install grunt-contrib-uplify@3.3.0 --save-dev
5 npm install grunt-contrib-uplify@3.3.1 --save-dev
nom install grunt-contrib-uplify@3.3.1 --save-dev
nom install grunt-usemin@3.1.1 --save-dev
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• Next, update the task configuration within the Gruntfile.js with the following additional code to introduce the new tasks:

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In this exercise, you will continue to learn to use Grunt, the task runner. You will configure the Grunt file with a set of additional tasks to build your web project. At the end of this exercise, you will be able to:

• Configure a Grunt file with a set of tasks to build your web project from a source.

## Copying the Files and Cleaning Up the Dist Folder

 Next you will install the Grunt modules to copy over files to a distribution folder named dist, and clean up the dist folder when needed. To do this, install the following Grunt modules:

```
1 npm install grunt-contrib-copy@1.0.0 --save-dev npm install grunt-contrib-clean@1.1.6 --save-dev
```

• You will now add the code to perform the copying of files to the dist folder, and cleaning up the dist folder. To do this, add the following code to *Gruntfile.js*. This should be added right after the configuration of the SASS task.:

1 , 2 , 3 + copy: { 4 + html: {