

Introduction to Grunt

Module 1: Getting Started With Grunt

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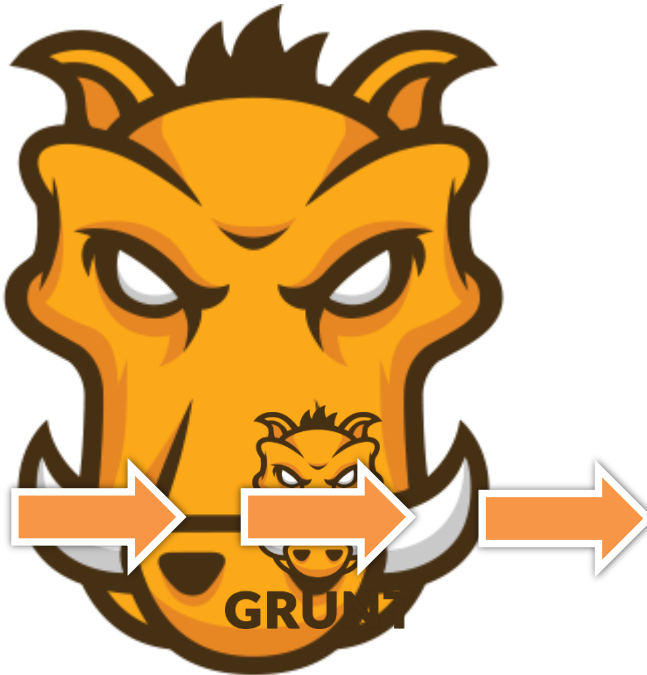
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GRUNT

The JavaScript Task Runner

Module Agenda

Overview of **GRUNT**

How to setup and install **GRUNT**

Creating our first **GRUNT** script

What is GRUNT?



Is a “task-based command line build tool for JavaScript projects which makes performing repetitive, but necessary, task trivial”

*** Course built using 0.4.1*

What can **GRUNT** do?



Validate Html/CSS/JavaScript

Minify CSS/JavaScript

Compile CoffeeScript/TypeScript/etc

Compile Less to CSS

Much, much more

How is GRUNT structured?



Package.json

Metadata file which describes your project

```
{  
  "name": "IntroductionToGrunt.js",  
  "version": "0.1.0",  
  "devDependencies": {  
    "grunt": "~0.4.1",  
  }  
}
```



** Cool interactive package.json guide online
@ <http://package.json.nodejitsu.com/>

How is GRUNT structured?

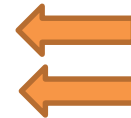


Gruntfile.js

File used to configure or define **GRUNT** tasks

```
'use strict';
module.exports = function (grunt) {
  grunt.initConfig({
    pkg: grunt.file.readJSON('package.json'),
    clean: {
      options: {
        force: true
      },
      output: ['../Source/*/obj/debug']
    }
  });

  grunt.loadNpmTasks('grunt-contrib-clean');
  grunt.registerTask('default', ['clean']);
};
```



Running a **GRUNT** script?



Open up a command line

CD into the directory w/ your Gruntfile.js

```
c:\project> grunt taskName -v
```



Setting up **GRUNT**



Install Node.js -- <http://nodejs.org/>

Install Node PM -- <https://npmjs.org/>

Install the **GRUNT** cli

Install **GRUNT** to your local directory

Create the package.json file

Create the gruntfile.js file

Our first **GRUNT** script



Will create our first Gruntfile.js

Will create our first Packages.json file

Will use the contrib-clean plugin

Will run **GRUNT** script

Module Summary

Learned about this **GRUNT** thing

Learned how to setup and install **GRUNT**

Learned how to create our first **GRUNT** script