Grunt

Intro

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Mashups Grunt Implementation

# Chronological Grunt Notes

Some considerations

* Simplest solution and most bundled solution is to create a single js file.
* Another option is to allow for many smaller files
  + Drawback is there are more get requests of js files.
  + Benefit is a large js file isn’t downloaded every time the app is updated.
  + Drawback: more complex grunt implementation.

# Intro

The Mashup will maintain both Grunt and Gulp. You can use whichever works best for your workflow.

Grunt is a task runner used in the development and the build processes. All files are processed and distributed to the “/dist” directory. Everything needed for deployment should be found here.

To make this work there are a few things you need to do. If you are using VS2015 then some of this will happen auto-magically.

This document will walk you through the basic setup and usage of Grunt, how Grunt is configured for the Mashup, and how to use Grunt as part of the Mashup workflow.

# Grunt Setup

Download and install NodeJS or IoJS. IoJS is a fork of NodeJS by many in the community who wanted more responsive Node advancement. Theoretically you should be able to use either for the Mashup.

<https://nodejs.org/>

<https://iojs.org/en/index.html>

At this point Grunt can be installed with the following command. Notice the “-g” command. This causes the npm package to be deployed globally.

npm install -g grunt-cli

Before you can use grunt you must create the “package.json” and “Gruntfile.json files. These must exist in the root of your project file.

Create a basic package.json file

npm init

Installing Grunt

npm install -g grunt-cli

Create a basic Gruntfile.json with the following content, in the root of your project.

module.exports = function(grunt) {

grunt.initConfig({

pkg: grunt.file.readJSON('package.json')

});

// task setup

grunt.registerTask('default', []);

};

# Useful Grunt Commands

## Installing Grunt

npm install -g grunt-cli

## Retrieve Grunt Version

Grunt version

## Installing plugins

The syntax for Grunt plugins is

install [plugin-name] --save-dev

For example if you want to minify and concatenate your JavaScript for performance you would install two plugins.

Perform a quick google search and you’ll find this site

<https://github.com/gruntjs/grunt-contrib-uglify>

npm install grunt-contrib-uglify --save-dev

Perform a quick google search and you’ll find this site

<https://github.com/gruntjs/grunt-contrib-concat>

npm install grunt-contrib-concat --save-dev

## Starting Tasks

What your grunt tasks run. This is useful when troubleshooting your grunt config.

Grunt --v

Every grunt file needs a default task that runs when you type

grunt

It’s useful to run specific tasks that you have configured

grunt [task name]

Get a list of grunt commands

Grunt –help

## Glob Tips

“dir/\*” – includes all files

“dir/\*\*” – includes all files and directories