026 Gulp - running grunt tasks

Gulp Kata List – Blog Page

[Gulp Kata List on GitHub](https://github.com/robertdunaway/katas-gulp)

# Duration

10 minutes

# Brief

Execute a Grunt task with Gulp.

### For More Information

BING/GOOGLE: “Gulp gulp-grunt”

Book: <http://www.amazon.com/Gulp-Quick-guide-getting-running/dp/151468960X>

# Instructions

Get tutorial folder or the entire katas-angular2 repo.

Open the [before/\*.sln] file and execute the kata.

Feel free to execute this kata multiple times because repetition creates motor memory.

# Github

* Before (start kata with this)
  + https://github.com/robertdunaway/katas-gulp/tree/master/026%20Gulp%20-%20running%20grunt%20tasks/before
* After
  + https://github.com/robertdunaway/katas-gulp/tree/master/026%20Gulp%20-%20running%20grunt%20tasks/after

# Kata

On occasion you might need to combine JSON files.

In this case we are combining multiple JSON files that represent menu items. A suitable gulp plugin is not available but there is a Grunt task that does what we need.

In this task you will perform a JSON merge on all JSON files in the config folder with grunt-merge-json.

# Review

Installed the require NPM packages.

npm install grunt-merge-json --save-dev

npm install gulp-grunt --save-dev

Install the Grunt command line interface.

npm install -g grunt-cli

Create a gruntfile.js, in the root, to support the Grunt task.

module.exports = function (grunt) {

grunt.initConfig({

distFolder: 'wwwroot/config',

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

"merge-json": {

menu: {

src: ['src/config/\*.json.txt'],

dest: 'wwwroot/config/menu.json',

},

},

});

// Load modules, register tasks

grunt.loadNpmTasks('grunt-merge-json');

};

To tie everything together add this task to the Gulp file.

// -------------------------------------------------

// Grunt configuration

require('gulp-grunt')(gulp, {

// These are the default options but included here for readability.

base: null,

prefix: 'grunt-',

verbose: false

});

// -------------------------------------------------

Update the default task.

gulp.task('default', function () {

runSequence('copy-to-wwwroot', 'grunt-merge-json:menu');

});

After running the default task you should have a new JSON menu file that looks like this.

{

"0": {

"name": "Applications",

"id": "catApps",

"isOpen": "true",

"icon": " fa-power-off ",

"session": "coreSession",

"role": "MashupUser",

"groups": [

{

"name": "app1",

"id": "menuItemApp1",

"desc": "Application 1, page 1.",

"url": "/app1/page1",

"icon": " fa-bar-chart ",

"session": "coreSession",

"role": "MashupUser"

},

{

"name": "app2",

"id": "menuItemApp2",

"desc": "Application 2, page 3.",

"url": "/app2/page3",

"icon": " fa-laptop ",

"session": "coreSession",

"role": "MashupUser"

}

]

},

"1": {

"name": "Utilities",

"id": "catUtilities",

"isOpen": "false",

"icon": " fa-cogs ",

"session": "coreSession",

"role": "MashupUser",

"groups": []

},

"2": {

"name": "Administrative",

"id": "catAdmin",

"isOpen": "false",

"icon": " fa-users",

"session": "coreSession",

"role": "MashupUser",

"groups": []

},

"3": {

"name": "Examples",

"id": "catExamples",

"isOpen": "false",

"icon": " fa-file-code-o ",

"session": "coreSession",

"role": "MashupUser",

"groups": []

}

}

# Next

Take a few minutes and imagine more examples.