

# Advanced Grunt: Scaffolding & Custom Plugins

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**pluralsight**   
hardcore developer training

# Module Agenda

## Advanced Grunt: Scaffolding and Custom Plugins

Kickstart Grunt w/ Grunt-Init

Custom Inline Tasks

Custom Grunt Plugins

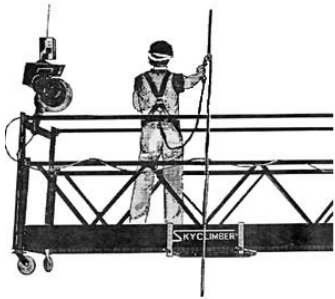
Grunt-Init Scaffolding

Single and Multi-Task Plugins

Deploying the plugin to the NPM repo







# Using Grunt-Init Scaffolding



Package Name:

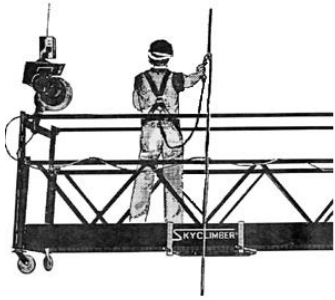
```
npm install -g grunt-init
```

Cloning the Package :

```
git clone [url for init.git] %userprofile%/.grunt init/gruntfile  
~/.grunt-init/gruntfile
```

Using the Scaffolding:


```
grunt-init gruntfile
```



# Using Grunt-Init Scaffolding



<http://gruntjs.com/project-scaffolding>



## GRUNT

- Documentation
  - Getting Started
  - Configuring Tasks
  - Sample Gruntfile
  - Creating Tasks
  - Creating Plugins
  - Using the CLI
- Advanced
  - Installing Grunt
  - Frequently Asked Questions
  - Project Scaffolding

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### Project Scaffolding

#### grunt-init

Grunt-init is a scaffolding tool used to automate project creation. It will build an entire directory structure based on the current environment and the answers to a few questions. The exact files and contents created depend on the template chosen along with the answers to the questions asked.

*Note: This standalone utility used to be built-in to Grunt as the "init" task. See the [Grunt Upgrading from 0.3 to 0.4](#) guide for more information about this change.*

#### Installation

In order to use grunt-init, you'll want to install it globally.

```
npm install -g grunt-init
```

This will put the `grunt-init` command in your system path, allowing it to be run from anywhere.

*Notes: You may need to use `sudo` or run your command shell as Administrator to do this.*



# Custom Inline Tasks



Registered in Gruntfile via `grunt.registerTask`

Requires: Name, Description

Invoked via a callback

Can access external variables and libraries

Can accept arguments in the callback

# Custom Inline Tasks



```
grunt.registerTask('checkFileSize', 'Task to check file Size', function(debug){  
  var options = this.options({  
    folderToScan : ''  
  });  
  
  if( this.args.length !== 0 && debug !== undefined ){  
    grunt.log.writeflags(options, 'Options');  
  }  
  
  grunt.file.recurse(options.folderToScan, function(abspace, rootdir, subdir, filename){  
    if( grunt.file.isFile(abspace)){  
  
      var stats = fs.statSync(abspace);  
      var asBytes = stats.size / 1024;  
      grunt.log.writeln("Found file %s with size of %s kb", filename, asBytes);  
    }  
  });  
});
```



# Creating Custom Plugins

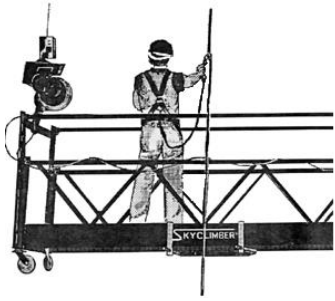


Use Grunt-init Scaffolding to quick start our process

Create a simple task Plugin

Create a multi-task plugin

Publish our plugin to the NPM Registry



# Grunt-Init Plugin Scaffolding



Using the Scaffolding:

```
grunt-init gruntplugin
```

## Assets Created:

- Task Folder w/ templated task file

- Test folder

- Templated Readme.md

- Templated Gruntfile.js

# Grunt Tasks



## Register Basic Task:

```
grunt.registerTask('checkFileSize', 'The best Grunt plugin ever.', function() {  
  // logic here  
});
```

## Register Multi Task:

```
grunt.registerMultiTask('checkFileSize', 'The best Grunt plugin ever.', function() {  
  // logic here  
});
```



## Grunt Tasks



## Publishing to the NPM Repository:

Create an account @ [npmjs.org](https://npmjs.org)

Ensure your package.json file is updated

Publish your package

## Publish Command:

```
npm publish
```

# Module Summary

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Kickstart Grunt w/ Grunt-Init

Custom Inline Tasks

Custom Grunt Plugins

- Grunt-Init Scaffolding

- Single and Multi-Task Plugins

- Deploying the plugin to the NPM repo

