

前端工作流

核心工具分享

About me:

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2012年加入小米

多看App
多看阅读器
阅读主站

...



代码质量和风格？

```
module.exports = function(grunt) {  
  
  grunt.initConfig({  
    jshint: {  
      files: ['Gruntfile.js', 'src/**/*.js'],  
      options: {  
        globals: {  
          jQuery: true  
        }  
      }  
    },  
    watch: {  
      files: ['<%= jshint.files %>'],  
      tasks: ['jshint']  
    }  
  });  
  
  grunt.loadNpmTasks('grunt-contrib-jshint');  
  grunt.loadNpmTasks('grunt-contrib-watch');  
  
  grunt.registerTask('default', ['jshint']);  
  
};
```

grunt watch

容易被忽视

git hook

安裝不便

```
#!/bin/bash
#
# Run JSHint validation before commit.

files=$(git diff --cached --name-only --diff-filter=ACMR
pass=true

top=$(git rev-parse --show-toplevel)

# JSHint
if [ "$files" != "" ]; then
    for file in ${files}; do
        jshint ${file}
        if [[ $? -ne 0 ]]; then
            pass=false
        fi
    done
fi

# Jscs
if [ "$files" != "" ]; then
    for file in ${files}; do
        jscs ${file} -c ${top}/src/www/.jscsrc
        if [[ $? -ne 0 ]]; then
            pass=false
        fi
    done
fi

if $pass; then
    exit 0
else
    echo ""
    echo "COMMIT FAILED:"
    echo "Some JavaScript files are invalid. Please fix."
    exit 1
fi
```

pre-commit

<https://github.com/observing/pre-commit.git>

→ temp

↵

- npm postinstall hook强制安装pre-commit
- git pre-commit hook强制检查编码

- 代码一致性 (jsHint)
- 代码风格 (jscs)
- 运行单元测试
- Code Coverage
- 性能和安全测试

```
{
  "name": "code-style",
  "version": "1.0.0",
  "description": "test code-style by precommit",
  "main": "index.js",
  "dependencies": {
    "pre-commit": "^0.0.9"
  },
  "devDependencies": {
    "pre-commit": "0.0.9"
  },
  "scripts": {
    "jshint": "jshint -c .jshintrc app",
    "jscs": "jscs -c .jscsrc app"
  },
  "pre-commit": [
    "jscs",
    "jshint"
  ],
  "author": "",
  "license": "ISC"
}
```

```
files=$(git diff --cached --name-only --diff-filter=ACMR -- **/*.js)
pass=true

top=$(git rev-parse --show-toplevel)

echo "$files"

# JSHint
if [ "$files" != "" ]; then
  for file in ${files}; do
    jshint ${file} -c ${top}/.jshintrc
    if [[ $? -ne 0 ]]; then
      pass=false
    fi
  done
fi
```

只检查当前修改的文件

已存在的项目

demo

<https://github.com/cxdongjack/pre-commit-demo>

静态资源打包压缩？

bash script

开发成本
难复用

```
#!/bin/bash

BASE64_DIGITS=`echo {0..9}{a..z}{A..Z}@_ | sed 's/ / /g'`
asset() {
    .... echo `md5sum $1 || awk 'BEGIN {BASE64_DIGITS = ""}$BASE64_
}

concat_css() {
    .... local dirname=`dirname $1`

    .... awk -F"['\""]" '/^@import/{print $2}' $1 | while read i
    .... do
    ....     concat_css "$dirname/$i"
    .... done

    .... grep -v '^@import' $1 | sed 's#url(#url("$dirname"/#g'
}

list_js() {
    .... local dirname=`dirname $1`

    .... if [[ "`head -1 $1`" == "include([" ] ]
    .... then
    ....     awk -F"['\""]" 'NF==3{print $2}' $1 | while read js
    ....     do
    ....         list_js "$dirname/$js"
    ....     done
    .... else
    ....     dirname=`cd $dirname && pwd`
    ....     echo "${dirname#$work_dir}/`basename $1`"
    .... fi
}

bin_dir=`dirname $0`

[[ $# -ne 1 && $# -ne 2 ]] && echo "Usage: $0 output_dir [cdn
output_dir=$1
cdn_prefix=$2
```

```

grunt.initConfig({
  // —base指定目录的package.json
  pkg : pkg,
  base : '<%= pkg.prefix %>',
  transport: {
    options: {
      format: '<%= pkg.prefix + "/" + pkg.target + "/{{filename}}"%>',
      debug : !1,
      paths : ['.']
    },
    target : {
      files: [{
        expand : true,
        cwd : '<%= base %>/<%= pkg.target %>',
        src: [target],
        dest: '<%= base %>/_build/',
        flatten : true
      }]
    }
  },
  concat: {
    page : {
      files: [{
        expand : true,
        cwd : '<%= base %>/_build/',
        src: [target], // Actual pattern(s) to match.
        dest: '<%= base %>/debug/' // Destination path prefix.
      }]
    },
    core : {
      files: {
        '<%= base %>/core/core-debug.js': '<%= base %>/_core/*.js'
      }
    }
  },
  uglify: {
    page : {
      files: [{
        expand : true,
        cwd : '<%= base %>/debug/',
        src: [target], // Actual pattern(s) to match.
        dest: '<%= base %>/dist/' // Destination path prefix.
      }]
    },
    core : {
      files: {
        '<%= base %>/core/core.js': '<%= base %>/core/core-debug.js'
      }
    }
  },
});

```

grunt

配置复杂

grunt-usemin

<https://github.com/yeoman/grunt-usemin>

FOLDERS

grunt-usemin-demo

.tmp

app

images

scripts

styles

views

.buildignore

.htaccess

404.html

index.html

robots.txt

bower_components

dist

fonts

scripts

styles

views

.htaccess

404.html

index.html

robots.txt

node_modules

.bowerrc

.editorconfig

.gitattributes

.gitignore

.jshintrc

.travis.yml

bower.json

Gruntfile.js

package.json

Gruntfile.js — grunt-usemin-demo

UNREGISTERED

package.json

Gruntfile.js

index.html — app

index.html — dist

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```

    ...
  },
  // Add vendor prefixed styles
  autoprefixer: {
    options: {
      browsers: ['last 1 version']
    },
    dist: {
      files: [{
        expand: true,
        cwd: '.tmp/styles/',
        src: '{,*/}*.css',
        dest: '.tmp/styles/'
      }]
    }
  },
  // Renames files for browser caching purposes
  filerev: {
    dist: {
      src: [
        '<= project.dist %>/scripts/{,*/}*.js',
        '<= project.dist %>/styles/{,*/}*.css',
      ]
    }
  },
  // Reads HTML for usemin blocks to enable smart builds that automatically
  // concat, minify and revision files. Creates configurations in memory so
  // additional tasks can operate on them
  useminPrepare: {
    // Performs rewrites based on filerev and the useminPrepare configuration
  },
  registerTask('serve', 'Compile then start a connect web server', function (target) {
    if (target === 'dist') {
      return grunt.task.run('connect:dist:keepalive');
    }
    grunt.task.run([
      'connect:app:keepalive',
    ]);
  });
  registerTask('build', [
    'clean:dist',
    'copy:dist',
    // 'autoprefixer',
    // usemin
  ]);
};
```

COMMAND MODE, Line 144, Column 1

Spaces: 2 JavaScript

配置

- useminPrepare, 根据html里面的标记信息自动为之后的任务生成配置信息
- usemin, 所有任务完成后重写html和css里面文件的引用地址

```
``html
<!-- build:js js/app.js -->
<script src="js/app.js"></script>
<script src="js/controllers/thing.js"></script>
<script src="js/models/thing-model.js"></script>
<script src="js/views/thing-view.js"></script>
<!-- endbuild -->
``
```

```
``html
<!-- build:js js/app.js -->
<script src="js/app.js"></script>
<script src="js/controllers/thing.js"></script>
<script src="js/models/thing-model.js"></script>
<script src="js/views/thing-view.js"></script>
<!-- endbuild -->
``
```

step1: 替换为标记中制定的地址

```
``html
<script src="js/app.js"></script>
``
```

step1: 根据新地址尝试寻找重命名后的文件, 并替换

```
``html
<script src="js/app.b8cc0bc2.js"></script>
``
```

```
{
  dest: 'dist/js/app.js',
  src: [ '.tmp/concat/js/app.js' ]
}
]
```

功能完备

```
grunt.registerTask('build', [
  'clean:dist',
  'copy:dist',
  // usemin
  'useminPrepare',
  'concat',
  'cssmin',
  'uglify',
  'filerev',
  'usemin',
  1]);
```

- 根据标记解析html
- 合并资源文件
- 样式压缩
- 脚本压缩
- 文件hash重命名
- 自动修改引用至新文件

灵活扩展

```
grunt.registerTask('build', [
  'clean:dist',
  'bower-install',
  'useminPrepare',
  'concurrent:dist',
  'autoprefixer',
  'concat',
  'ngmin',
  'copy:dist',
  'cdnify',
  'cssmin',
  'uglify',
  'rev',
  'usemin',
  'htmlmin'
]);
```

```
grunt.registerTask('build', [
  'clean:dist',
  'coffee',
  'createDefaultTemplate',
  'jst',
  'compass:dist',
  'useminPrepare',
  'imagemin',
  'htmlmin',
  'concat',
  'cssmin',
  'uglify',
  'copy',
  'rev',
  'usemin'
]);
```

demo

<https://github.com/cxdongjack/grunt-usemin-demo>

```
process.exist(0)
```