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# 代码静态检查器

how to use jslint?

cmd:

E:\javascript\WebstormProject\learnJQueryUI> **java -jar jslint4java-2.0.4.jar** *spa/js/spa.js*

## Interaction between frontend and backend

via tool curl

post data as follows:

cmd:

E:\ javascript\docs\curl\curl-7.33.0-win64-nossl>curl localhost:3000/user/create -d {}

via Chrome Post man

# NPM (node package manager)

## introduction

大多数程序平台都有一个用来下载、安装，管理第三方模块的系统，在Node里，我们使用Node包管理器（NPM: Node Package Manager）

NPM包含三部分：一个用来存放第三方包的代码库，一个管理本地已经安装包的机制，一个用来定义包依赖关系的标准。**NPM提供了一个公共的注册服务，它包含了大家发布的所有包，并提供了一个命令行工具，用来下载，安装和管理这些包**。你可以按照Node的包格式标准来制定你的包或者应用需要依赖的其他第三方包。

使用NPM来安装，升级和卸载包

NPM的操作主要有两种模式：全局和本地。这两种模式会影响包存放的目录结构，以及Node加载包时的顺序。本地模式是NPM的默认操作模式，在这个模式下，NPM只工作在工作目录下，不会造成系统范围的修改，这个模式让你在某个Node程序下尽情地安装，测试模块，而不会影响你电脑上的其他Node程序。

全局模式适合那些将被很多程序使用，而且总是被全局加载的公共模块，比如命令行工具这些公不会被应用程序直接使用的模块。在全局模式下面，NPM会把包安装到/usr/local/lib/node\_modules

## How to use npm with wall?

使用国内淘宝镜像:

E:\Work\Script\Javascript\WebstormProject\spa> npm --registry=https://registry.npm.taobao.org

E:\Work\Script\Javascript\WebstormProject\spa> npm install

## how to use gem or npm with wall?

* download & install

ruby-2.0.0-p598-x64-mingw32.7z

DevKit-mingw64-64-4.7.2-20130224-1432-sfx.exe

set env with E:\Work\Script\Javascript\docs\sass\ruby-2.0.0-p598-x64-mingw32\bin

extract DevKit-mingw64-64-4.7.2-20130224-1432-sfx.exe in E:\Work\Script\Javascript\docs\sass\Devkit-mingw64

* connect DevKit with ruby

cmd:

E:\Work\Script\Javascript\docs\sass\Devkit-mingw64> ruby dk.rb init

edit config.yml:

- E:\Work\Script\Javascript\docs\sass\ruby-2.0.0-p598-x64-mingw32

E:\Work\Script\Javascript\docs\sass\Devkit-mingw64> ruby dk.rb install

* change download proxy

cmd:

E:\Work\Script\Javascript\docs\sass\Devkit-mingw64>gem sources --remove https://rubygems.org/

E:\Work\Script\Javascript\docs\sass\Devkit-mingw64>gem sources --a http://ruby.taobao.org/

# Git download

1. 某folder下右击git bash
2. 若有代理需要设置 $ git config –global http.proxy 161.92.64.42:8080

Or ENV HTTP\_PROXY

1. $ git clone –depth=14 <https://github.com/angular/angular-phonecat.git>

Download npm tool dependencies

1. Cd 某个angularjs 应用程序文件
2. npm config set proxy <http://161.92.64.42:8080>
3. npm install

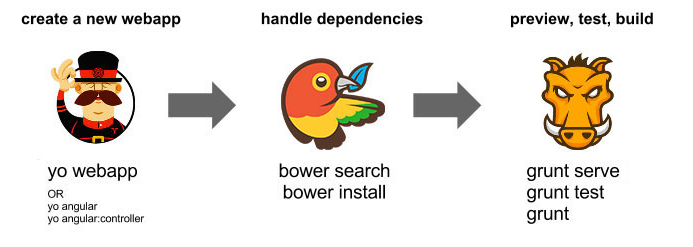
# Yeoman (http://yeoman.io/)

Yeoman = YO(脚手架工具) + GRUNT(构建工具) + BOWER(包管理器)

**YO ：Yeoman核心工具，项目工程依赖目录和文件生成工具，项目生产环境和编译环境生成工具，（创建项目模板，自带web server, live reload, compile sass, unit test, minimize code, optimize images）**

**BOWER ：Web开发的包管理器**，概念上类似npm，npm专注于nodeJs模块，而bower专注于CSS、JavaScript、图像等前端相关内容的管理。需要注意的是，Bower的运行，依赖于版本控制工具git，从github拉取以来信息。 如《Node.js介绍》所说，很多前端工具，都是由Node.js所编写的，Bower也不例外。所以要想成功安装Yeoman,需先安装 Git。

**GRUNT ：前端构建工具**，jquery就是使用这个工具打包的。(C/C++程序通过makefile管理编译测试打包的过程，Java程序通过gradle, Maven,Ant实现项目构建管理功能，Python有pip，Ruby有gem。在Nodejs的领域，我们同样需要一个项目构建工具，这就是Grunt。Grunt可以执行像压缩, 编译, 单元测试, 代码检查以及打包发布的任务)



实战: (please refer to : <http://yeoman.io/>)

# angular + bootstrap + sass (please refer to <http://yeoman.io/codelab/index.html>)

## pre-condition: node, ruby, compass and git

**set sys env: ruby\bin; npm; git\bin**

after install npm, set proxy for npm

**> npm config set proxy** [**http://165.225.96.34:10015**](http://165.225.96.34:10015)

**> npm config set https-proxy** [**http://165.225.96.34:10015**](http://165.225.96.34:10015)

(验证：>npm config get proxy)

1) install yo and other required tools

**> npm install -g yo bower grunt-cli gulp**

after install bower, set proxy for bower

set env

**HTTP\_PROXY =** [**http://165.225.96.34:10015**](http://165.225.96.34:10015)

**HTTPS\_PROXY =** [**http://165.225.96.34:10015**](http://165.225.96.34:10015)

Please restart cmd to make setting effective

或者

在.bowerrc文件添加代理

{"directory": "bower\_components",

"registry": "http://bower.herokuapp.com",

"proxy": "http:// 165.225.96.34:10050/",

"https-proxy": "http://161.92.51.225:8080/"}

或者

C:\Users\310031267\AppData\Roaming\npm\node\_modules\bower\node\_modules\bower-config\lib\util\default.js

"proxy": "http://161.92.51.225:8080/",

"https-proxy": "http://161.92.51.225:8080/"

set env

HTTP\_PROXY = http://161.92.51.225:8080/

HTTPS\_PROXY = http://161.92.51.225:8080/

## project template

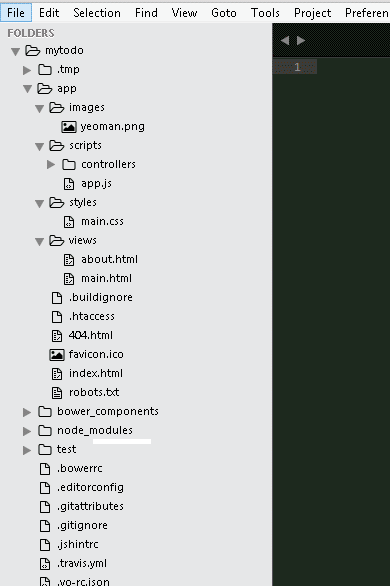
**project-parent-directory> mkdir mytodo && cd mytodo**

**mytodo > node --version && npm --version && git --version**

**mytodo > yo --version && bower --version && grunt --version**

**mytodo > npm install -g generator-angular**

**mytodo > yo angular**



In mytodo, we have:

*app:* a parent directory for our web application

index.html: the base html file for our Angular app

*404.html, favicon.ico, and robots.txt:* commonly used web files so you don’t have to create them yourself

*scripts:* our own JS files

*app.js:* our main Angular application code

*controllers:* our Angular controllers

*styles:* our CSS files

*views:* a place for our Angular templates

*bower\_components, bower.json:* our JavaScript/web dependencies, installed by Bower

*Gruntfile.js, package.json, and node\_modules:* configuration and dependencies required by our Grunt tasks

*test:* a scaffolded out test runner and the unit tests for the project, including boilerplate tests for our controllers.

**mytodo > grunt serve //start the server (local Node-based http server on localhost:9000**

若port:9000被占用，用如下脚本杀死

cmd> netstat –ano|findstr 9000 //查看谁占用9000端口

//杀死占用9000的应用程序

cmd> taskkill /pid 6856 /f //其中6865是使用9000端口的进程

从而可以在浏览器访问localhost:9000

**mytodo > ctrl + c**  // terminate

Note: could not delete file “ because the path is too long?” (because npm nests dependencies)

**mytodo> npm install –g rimraf**

**mytodo> rimraf node\_modules**

// use bower to install packages

**mytodo > bower list** // list current packages

**mytodo > bower search angular-ui-sortable** // search for packages

**mytodo > bower search jquery-ui**

现有项目当中，添加包

**mytodo> bower install --save angular-ui-sortable jquery-ui**

则会下载包到bower\_components文件夹下，且--save会自动更新bower.json,执行grunt serve会自动更新index.html, 执行grunt test会自动更新test/karma.conf.js

//write your code

modify views/\*.html

styles/\*.scss

scripts/app.js

controllers/\*.js

(note: yeoman will autowatch and update browser)

//write unit test

modify test/spec/controller/\*.js

mytodo > grunt test

(note: if error “jit-grunt plugin for the karma task not found”, please install)

mytodo > npm install grunt-karma karma-phantomjs-launcher karma-jasmine --save-dev

//deploy

lint our code, run our tests, concatenate and minify our scripts and styles to save on those network requests, optimize images if we were using any, compile the output of any preprocessors we are using, and generally make our application really lean

mytodo >**grunt**

(note:if error “Running imagemin:dist task failed, use grunt –force)

dist文件夹整个作为应用，可以发布到Server上

mytodo >**grunt serve:dist** //启动服务，运行dist

//创建自定义模块

bower\_components/common/scripts/filters/customFilter.js

angular.module(“customFilters”, []) ; //自定义模块

index.html:

<script src=” bower\_components/common/scripts/filters/customFilters.js”></script>

app.js:

angular.module(‘mytodoApp’, [‘customFilters’]) ; //声明依赖

//给模块mytodoApp添加控制器，过滤器, 指令

mytodo > **yo angular:controller form**

**mytodo > yo angular: filter form**

**mytodo > yo angular:directive form**

**mytodo > yo angular:view form**

// npm clean cache, bower clean cache

mytodo> **npm cache clean**

mytodo> **bower cache clean**

# Sass & Compass

* install sass and compass

(安装插件到C:\Ruby193\bin)

E:\Work\Script\Javascript\docs\sass\Devkit-mingw64> gem install sass

E:\Work\Script\Javascript\docs\sass\Devkit-mingw64> gem install compass

sass and compass will installed into ..\ruby-2.0.0-p598-x64-mingw32\bin

* how to create compass framework with blueprint ?

1. gem install compass-blueprint (安装插件到C:\Ruby193\lib\ruby\gems\1.9.1\gems)
2. 项目父目录> compass create my\_project --using blueprint

or添加给已有项目

b.1)require ‘compass-blueprint (in config.rb)

b.2)已经项目目录> compass install blueprint

c. compile scss to css

my\_project> compass clean

my\_project> compass watch

(note: 编译若出现error: not such file …”.lock”, 原因是compass compile .sasss-cache file full path length over 255 will failed，解决办法是在config.rb文件里添加:

cache = true

cache\_path = 'H:/temp/sass/')

## create compass framework with 960:

1. gem install compass-960-plugin
2. 项目父目录>compass create compass\_blueprint -r ninesixty --using 960

## create compass framework with Bootstrap:

1. gem install bootstrap-sass
2. compass create compass\_bootstrap -r bootstrap-sass --using bootstrap

# less

download and install WinLess from <http://winless.org>

import project bootstrap

right click less/bootstrap.less -> choose “select output file” -> output file name “bootstrap.css” -> compile

# Reactive Native

Install android SDK

(<http://facebook.github.io/react-native/docs/android-setup.html#content>

Android SDK Build-tools version 23.0.1

Android 6.0 (API 23)

Android Support Repository)

Install npm > 4.0

>npm install –g react-native-cli

>react-native init AwesomeProject

(note: fails to connect to git://github.com

>git config –global url.<https://github.com/>.insteadOf [git@github.com](mailto:git@github.com)

>git config –global url.https://.insteadOf git://

Current progress requires several minutes)