

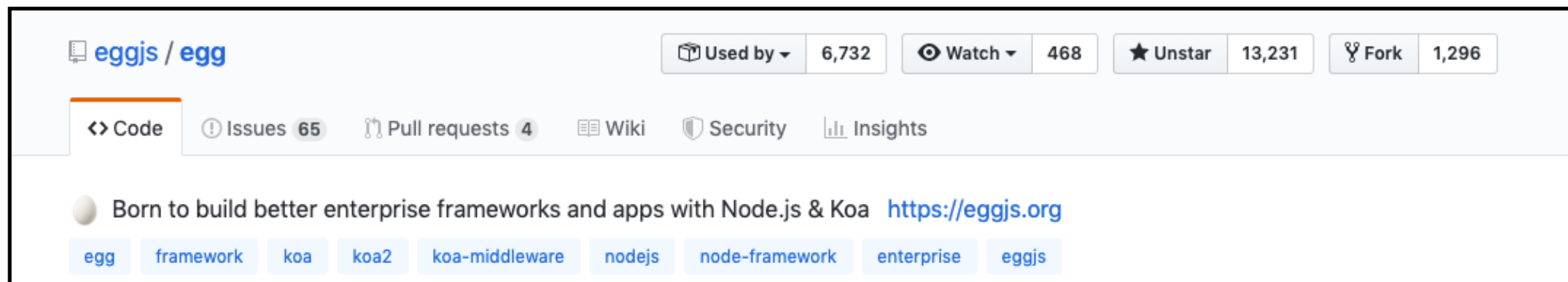
# npm依赖版本管理

stormqx

- 两个故事
- package-lock.json
- 问题复盘
- 最佳实践
- 参考内容

# 两个故事

# egg.js



## 故事一

### nodejs.TypeError: Cannot set property router of #<Object> #3459

Closed hsuehic opened this issue on 14 Feb · 10 comments

hsuehic commented on 14 Feb · edited ▾

**What happens?**

A clear and concise description of what the bug is.

```
ee_fe_release_server | 2019-02-14 07:41:19,661 ERROR 62 [~/172.25.0.2/~3ms GET /api/snippets?pageSize=10&pageIndex=1&keywords=] nodejs.TypeError:
not set property router of #<Object> which has only a getter
ee_fe_release_server |   at dispatch (/usr/src/server/node_modules/@eggjs/router/lib/router.js:173:18)
ee_fe_release_server |   at dispatch (/usr/src/server/node_modules/koa-compose/index.js:42:32)
ee_fe_release_server |   at /usr/src/server/app/middleware/wrap-response.ts:11:11
ee_fe_release_server |   at dispatch (/usr/src/server/node_modules/koa-compose/index.js:42:32)
ee_fe_release_server |   at /usr/src/server/app/middleware/soup-client.ts:32:11
ee_fe_release_server |   at fn (/usr/src/server/node_modules/egg-core/lib/loader/mixin/middleware.js:108:12)
ee_fe_release_server |   at dispatch (/usr/src/server/node_modules/koa-compose/index.js:42:32)
ee_fe_release_server |   at dispatch (/usr/src/server/node_modules/koa-compose/index.js:42:32)
ee_fe_release_server |   at /usr/src/server/node_modules/koa-static-cache/index.js:82:22
```

**Assignees**  
No one assigned

**Labels**  
None yet

**Projects**  
None yet

**Milestone**  
No milestone

atian25 commented on 14 Feb · edited ▾

Member + 🗨️ ...

check `node_modules/@eggjs/router` version.

the lastest had set to 1.2.0 (which 1.3.0 is rollback)


2019/2/14 发布了有问题的@eggjs/router v1.3.0版本  
虽然发现问题后及时回滚版本，仍导致安装v1.3.0版本的用户报错

# highlight.js



## 故事二

### install 9.15.1 fail #1984

 **Closed**

fengmk2 opened this issue on 25 Feb · 62 comments



fengmk2 commented on 25 Feb


2019年2月25日 GMT+8 下午2:04

Error: ENOENT: no such file or directory, chmod '.../node\_modules/\_highlight.js@9.15.1@high  
missing tools/build.js file.

 50

 5

 1

 5

Assignees


No one assigned

Labels

None yet

Projects


None yet



marcoscaceres commented on 26 Feb

2019年2月26日 GMT+8 上午8:53

Folks, I've published 9.15.5.... any better? 🙌

 1

Collaborator

+ 😊 ...

2019/2/25 发布了有问题的highlight.js v9.15.1版本  
直到2019/2/26才修复完成

- 前端工程开发重度依赖第三方包
- npm采用语义化版本(semver), 默认安装语义兼容的最新版本依赖包


**现状：不确定性！**



**目的：** 保证线上环境和开发环境相同

**方法：** 锁定依赖版本

## Q & A

**Q:** 我直接把工程中的依赖版本固定，不就好了么？

**A:** 间接依赖锁不住

**package-lock.json:** 是当前依赖关系树的快照，允许不同机器间的重复构建。

package-lock.json

# package-lock.json

- 前身为npm-shrinkwrap.json, npm@5改名为package-lock.json。
- npm 5.0.x版本, 不管package.json怎么变, npm i都会根据lock文件描述版本下载 (设计缺陷) 。
- npm 5.1.0 - 5.4.1版本, npm i会无视lock文件, 去下载semver兼容的最新的包。导致lock文件并不能完全锁住依赖树 (bug) 。
- npm 5.4.2版本之后 (正常) ,
  1. 如果package.json和lock文件版本不同, 那么执行npm i时npm会根据package中的版本号和语义含义去下载最新的包, 并更新至lock。
  2. 如果两者是同一状态, 那么执行npm i都会根据lock下载, 不会理会包的版本是否更新。

# 问题复盘

## 问题复盘一

client/package.json

View file @ 6dd54dc1

```
@@ -65,8 +65,8 @@
65      "@kaola-mkt/kaola-kpm-joiner": "^0.0.2",
66      "@kaola-mkt/mobileweb-datool": "^1.1.22",
67      "@kaola-mkt/iph5-helper": "0.0.40",
68      - "@kaola/mobile-ui": "0.12.2",
69      - "@kaola/mobileweb-callapp": "0.1.3",
68      + "@kaola/mobile-ui": "0.12.1",
69      + "@kaola/mobileweb-callapp": "0.1.2",
70      "addeventlistener-with-dispatch": "^1.0.2",
71      "core-js": "^2.5.7",
72      "vue": "2.5.16",
...
```

一、只提交package.json, 未提交package-lock.json

## 问题复盘二

```
"@kaola/mobile-ui": {  
  "version": "0.9.0",  
  "resolved": "http://rnpn.hz.netease.com/@kaola/mobile-ui/download/@kaola/mobile-ui-0.9.0.tgz",  
  "integrity": "sha1-jaLtz/A9A/BsdTsQzfj3KI2RrVc=",  
  "requires": {  
    "@kaola-core/app": "^1.0.22",  
    "@kaola-core/business": "^1.0.22",  
    "@kaola-core/share": "^1.0.22",  
    "@kaola-core/util": "^1.0.22",  
    "@kaola-mkt/mobileweb-datool": "^1.1.18-3",  
    "@kaola/mobileweb-callapp": "0.0.27",  
    "babel-plugin-transform-runtime": "^6.23.0",  
    "better-scroll": "^1.13.2",  
    "image-compressor.js": "^1.1.4",  
    "svg-sprite-loader": "^3.8.0",  
    "vue-property-decorator": "^7.0.0"  
  },  
}
```

```
"dependencies": {  
  "@kaola-mkt/kaola-kpm-joiner": "^0.0.2",  
  "@kaola-mkt/mobileweb-datool": "^1.1.22",  
  "@kaola-mkt/mp5-helper": "0.0.40",  
  "@kaola/mobile-ui": "0.12.1",  
  "@kaola/mobileweb-callapp": "0.1.2",  
  "addeventlistener-with-dispatch": "^1.0.2",  
  "core-js": "^2.5.7",  
  "vue": "2.5.16",  
  "weex-html5": "^0.4.1",  
  "weex-vue-render": "0.12.21",  
  "weixin-js-sdk": "1.3.2"  
},
```

## 二、package.json与package-lock.json版本不同

## 问题复盘三

```
"@kaola/mobile-ui": {
  "version": "0.12.2",
  "resolved": "http://rnpn.hz.netease.com/@kaola/mobile-ui/download/@kaola/mobile-ui-0.12.2.tgz",
  "integrity": "sha1-UkMGVQ2zLzUBXtSrIYHz8RjHn04=",
  "requires": {
    "@kaola-core/app": "^1.0.22",
    "@kaola-core/business": "^1.0.22",
    "@kaola-core/share": "^1.0.22",
    "@kaola-core/util": "^1.0.22",
    "@kaola-mkt/mobileweb-datool": "^1.1.18-3",
    "@kaola/mobileweb-callapp": "0.0.27",
    "babel-plugin-transform-runtime": "^6.23.0",
    "better-scroll": "^1.13.2",
    "image-compressor.js": "^1.1.4",
    "svg-sprite-loader": "^3.8.0",
    "vue-property-decorator": "^7.0.0"
  },
```

```
"@kaola/mobile-ui": {
  "version": "0.12.2",
  "resolved": "http://rnpn.hz.netease.com/@kaola/mobile-ui/download/@kaola/mobile-ui-0.12.2.tgz",
  "integrity": "sha1-UkMGVQ2zLzUBXtSrIYHz8RjHn04=",
  "requires": {
    "@kaola-core/app": "^1.0.22",
    "@kaola-core/business": "^1.0.22",
    "@kaola-core/share": "^1.0.22",
    "@kaola-core/util": "^1.0.22",
    "@kaola-mkt/mobileweb-datool": "^1.1.18-3",
    "@kaola/mobileweb-callapp": "^0.1.1-6",
    "@kaola/vue-cli-mock-middleware": "0.0.1",
    "babel-plugin-transform-runtime": "^6.23.0",
    "better-scroll": "^1.13.2",
    "clustery.js": "^1.0.0",
    "image-compressor.js": "^1.1.4",
    "svg-sprite-loader": "^3.8.0",
    "vue-property-decorator": "^7.0.0"
  }
},
```

## 三、错误的解决package-lock.json冲突



最佳实践

## 最佳实践

- 使用 npm  $\geq 5.4.2$  版本，提交 package.json, package-lock.json
- 不要手动修改 package-lock.json

## 最佳实践

### 升级依赖包:

- 升级小版本: 本地执行 `npm update` 升级到新的小版本
- 升级大版本: 本地执行 `npm install <package-name>@<version>` 升级到新的大版本
- 也可手动修改 `package.json` 中版本号为要升级的版本并指定所需的 `semver`, 然后执行 `npm install`
- 本地验证升级后新版本无问题后, **提交**新的 `package.json`, `package-lock.json` 文件

## 最佳实践

### 降级依赖包:

- `npm install <package-name>@<old-version>` 验证无问题后, 提交 `package.json` 和 `package-lock.json` 文件

## 最佳实践

### 删除依赖包:

- Plan A: `npm uninstall <package>` 并提交 `package.json` 和 `package-lock.json`
- Plan B: 把要卸载的包从 `package.json` 中 `dependencies` 字段删除, 然后执行 `npm install` 并提交 `package.json` 和 `package-lock.json`

## Q & A

**Q：** 当package-lock.json出现冲突时，怎么办？

**A：** 当遇到package-lock.json文件发生冲突时，由于git diff的限制，冲突点有时候很迷，稍有不慎就会安装错版本。

建议先使用远程分支的package-lock.json文件（保证其他人更新的包版本是正确的），再执行`npm i <package-name>@<version>` 命令，将本地分支变动的包版本更新。

潜在风险：执行`npm i <package-name>@<version>`的过程中，本地分支变动的包版本可能会因为semver发生更新（间接依赖与测试时不符合，不过有测试环节兜底，风险可控）。

- egg/router升级报错
- highlightjs升级报错
- semver
- npm依赖管理那些事
- package-lock.json file not updated after package.json file is changed
- why is package-lock being ignored?
- weex 工程上线冲突

谢谢