



链滴

# 如何构建一个 Angular6 的第三方 npm 包

作者: [someone27889](#)

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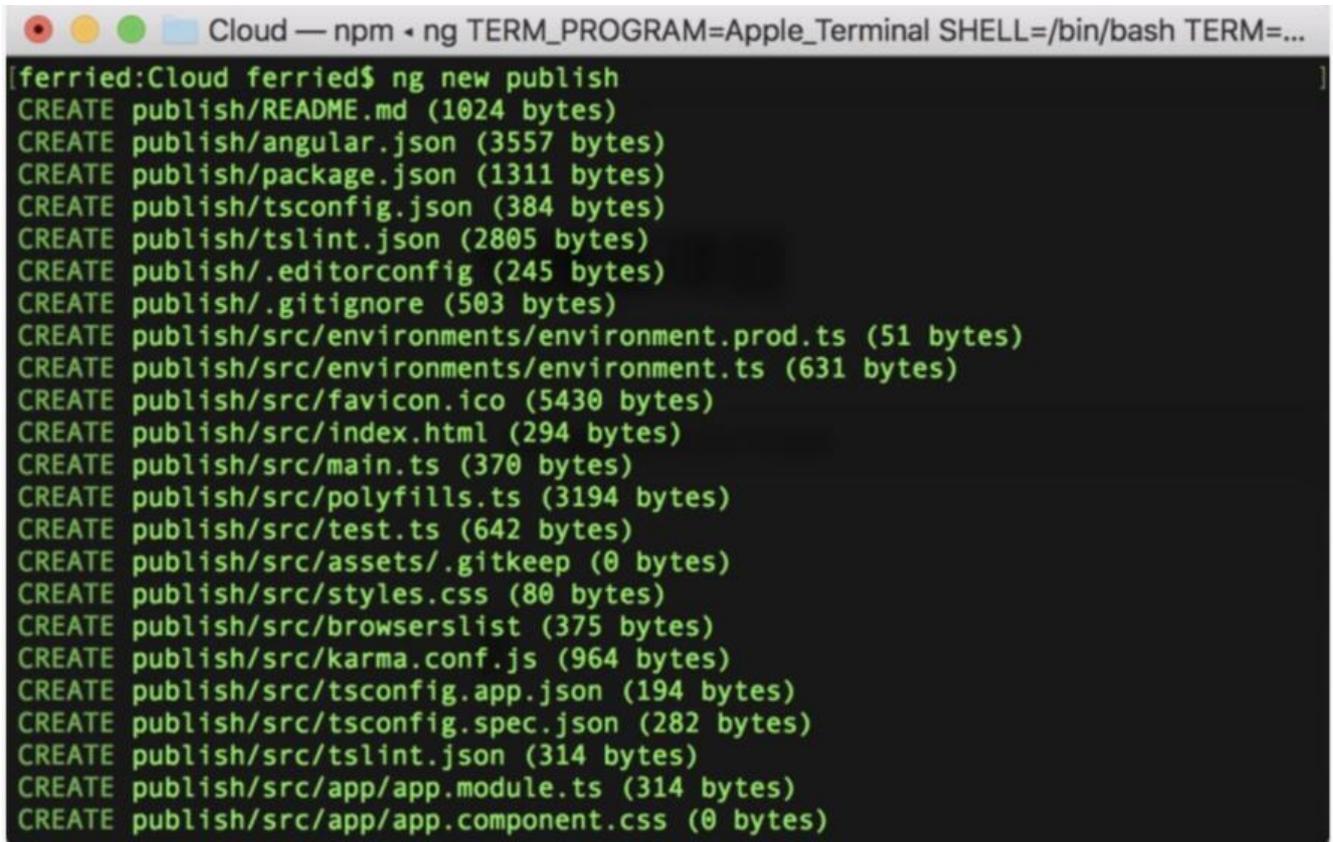
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不废话直接上教程

## 1.建立项目

ng new projectname

A terminal window screenshot showing the output of the command 'ng new publish'. The terminal title bar reads 'Cloud — npm • ng TERM\_PROGRAM=Apple\_Terminal SHELL=/bin/bash TERM=...'. The output lists 25 files being created, including README.md, angular.json, package.json, tsconfig.json, tslint.json, .editorconfig, .gitignore, environment.prod.ts, environment.ts, favicon.ico, index.html, main.ts, polyfills.ts, test.ts, .gitkeep, styles.css, browserslist, karma.conf.js, tsconfig.app.json, tsconfig.spec.json, tslint.json, app.module.ts, and app.component.css, along with their respective sizes in bytes.

```
[ferried:Cloud ferried$ ng new publish
CREATE publish/README.md (1024 bytes)
CREATE publish/angular.json (3557 bytes)
CREATE publish/package.json (1311 bytes)
CREATE publish/tsconfig.json (384 bytes)
CREATE publish/tslint.json (2805 bytes)
CREATE publish/.editorconfig (245 bytes)
CREATE publish/.gitignore (503 bytes)
CREATE publish/src/environments/environment.prod.ts (51 bytes)
CREATE publish/src/environments/environment.ts (631 bytes)
CREATE publish/src/favicon.ico (5430 bytes)
CREATE publish/src/index.html (294 bytes)
CREATE publish/src/main.ts (370 bytes)
CREATE publish/src/polyfills.ts (3194 bytes)
CREATE publish/src/test.ts (642 bytes)
CREATE publish/src/assets/.gitkeep (0 bytes)
CREATE publish/src/styles.css (80 bytes)
CREATE publish/src/browserslist (375 bytes)
CREATE publish/src/karma.conf.js (964 bytes)
CREATE publish/src/tsconfig.app.json (194 bytes)
CREATE publish/src/tsconfig.spec.json (282 bytes)
CREATE publish/src/tslint.json (314 bytes)
CREATE publish/src/app/app.module.ts (314 bytes)
CREATE publish/src/app/app.component.css (0 bytes)
```

## 2.创建第三方库

项目创建完毕，依赖安装完毕后

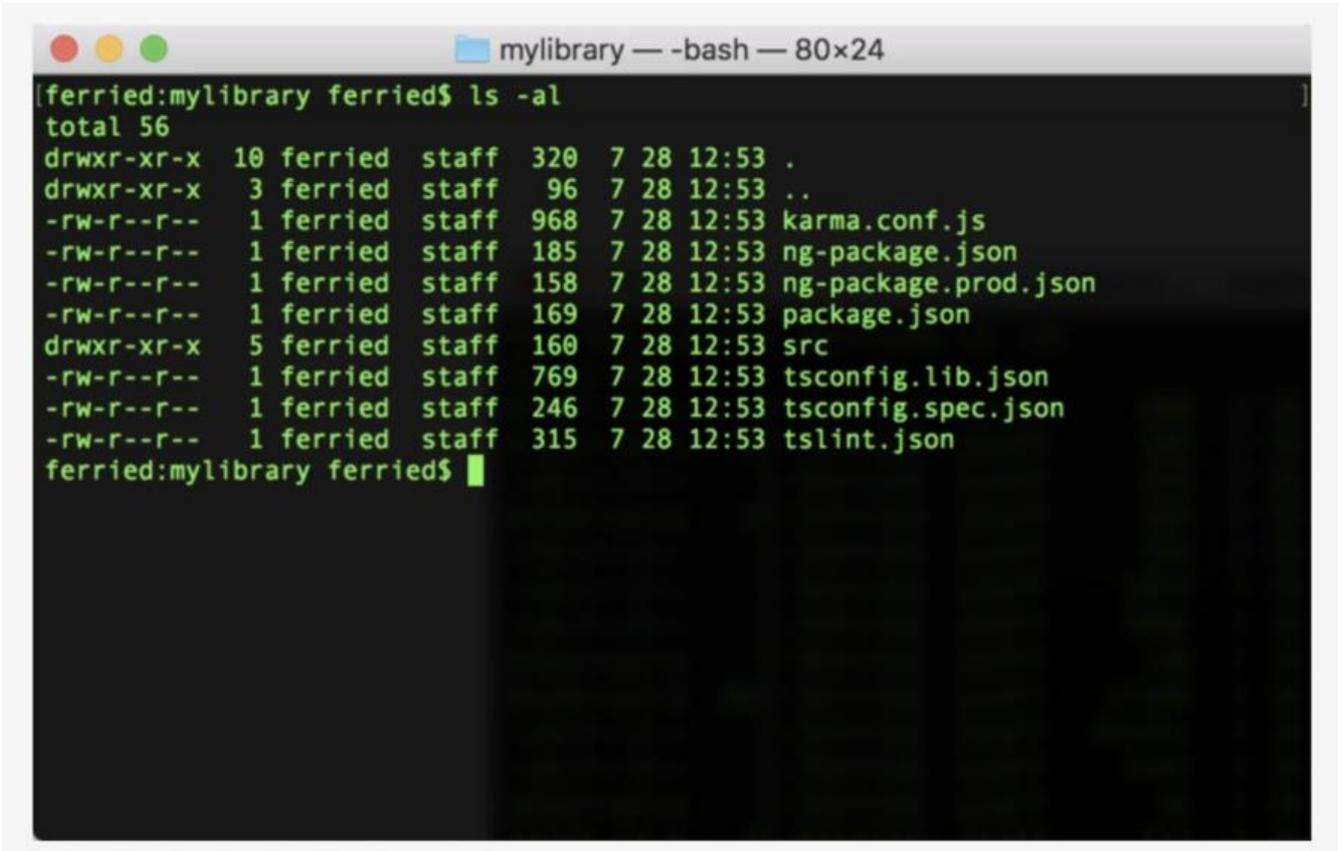
```
# libraryname : 第三方包名字
# prefix : 组件前缀(如 nz-zorro 的组件前都是 nz-xxx)
cd projectname
ng g library libraryname --prefix prefix
```

```
publish — -bash — 80x24
[ferried:publish ferried$ ls
README.md          node_modules       src
angular.json       package-lock.json  tsconfig.json
e2e                package.json       tslint.json
[ferried:publish ferried$ ls
README.md          node_modules       src
angular.json       package-lock.json  tsconfig.json
e2e                package.json       tslint.json
ferried:publish ferried$ ng g library mylibrary --prefix my
```

### 3.查看项目目录

```
projects — -bash — 80x24
[ferried:publish ferried$ ls -al
total 832
drwxr-xr-x  15 ferried  staff   480  7 28 12:53 .
drwxr-xr-x  12 ferried  staff   384  7 28 12:46 ..
-rw-r--r--   1 ferried  staff   245  7 28 12:46 .editorconfig
drwxr-xr-x  12 ferried  staff   384  7 28 12:49 .git
-rw-r--r--   1 ferried  staff   503  7 28 12:46 .gitignore
-rw-r--r--   1 ferried  staff  1024  7 28 12:46 README.md
-rw-r--r--   1 ferried  staff  4804  7 28 12:53 angular.json
drwxr-xr-x   5 ferried  staff   160  7 28 12:46 e2e
drwxr-xr-x 865 ferried  staff 27680  7 28 12:53 node_modules
-rw-r--r--   1 ferried  staff 391661  7 28 12:53 package-lock.json
-rw-r--r--   1 ferried  staff  1445  7 28 12:53 package.json
drwxr-xr-x   3 ferried  staff    96  7 28 12:53 projects
drwxr-xr-x  16 ferried  staff   512  7 28 12:46 src
-rw-r--r--   1 ferried  staff   518  7 28 12:53 tsconfig.json
-rw-r--r--   1 ferried  staff  2805  7 28 12:46 tslint.json
[ferried:publish ferried$ cd projects/
[ferried:projects ferried$ ls
mylibrary
ferried:projects ferried$
```

多出一个projects目录,目录里就是刚才generate的第三方library

A terminal window titled 'mylibrary — -bash — 80x24' showing the output of the command 'ls -al'. The output lists files and directories with their permissions, owner, group, size, and modification time. The files listed are: '.', '..', 'karma.conf.js', 'ng-package.json', 'ng-package.prod.json', 'package.json', 'src', 'tsconfig.lib.json', 'tsconfig.spec.json', and 'tslint.json'.

```
[ferried:mylibrary ferried$ ls -al
total 56
drwxr-xr-x  10 ferried  staff   320  7 28 12:53 .
drwxr-xr-x   3 ferried  staff   96  7 28 12:53 ..
-rw-r--r--   1 ferried  staff  968  7 28 12:53 karma.conf.js
-rw-r--r--   1 ferried  staff  185  7 28 12:53 ng-package.json
-rw-r--r--   1 ferried  staff  158  7 28 12:53 ng-package.prod.json
-rw-r--r--   1 ferried  staff  169  7 28 12:53 package.json
drwxr-xr-x   5 ferried  staff  160  7 28 12:53 src
-rw-r--r--   1 ferried  staff  769  7 28 12:53 tsconfig.lib.json
-rw-r--r--   1 ferried  staff  246  7 28 12:53 tsconfig.spec.json
-rw-r--r--   1 ferried  staff  315  7 28 12:53 tslint.json
ferried:mylibrary ferried$
```

可以看到实际和 ng new 出的项目无多大差别,第三包的依赖直接加入package.json中,然后依赖的Module按照常规方法加入到src/app.module.ts即可.

## 4.愉快的构建自己的模块

```
src — -bash — 80x24
[ferried:src ferried$ ls -al
total 16
drwxr-xr-x  5 ferried  staff  160  7 28 12:53 .
drwxr-xr-x 10 ferried  staff  320  7 28 12:53 ..
drwxr-xr-x  7 ferried  staff  224  7 28 12:53 lib
-rw-r--r--  1 ferried  staff  167  7 28 12:53 public_api.ts
-rw-r--r--  1 ferried  staff  700  7 28 12:53 test.ts
[ferried:src ferried$ cat public_api.ts
/*
 * Public API Surface of mylibrary
 */

export * from './lib/mylibrary.service';
export * from './lib/mylibrary.component';
export * from './lib/mylibrary.module';
ferried:src ferried$
```

图中是模块的导出文件，应该会去自动去扫描的，如果引用时遇到问题直接从public\_api.ts导出然后新打包即可

## 5.构建第三方包

这一步需要注意的是，**打包前修改package.json中的项目信息，起码version信息需要修改**

```
#切到根目录
cd 项目根目录路径
ng build mylibrary
```

```
publish — -bash — 80x24
[ferried:publish ferried$ ng build mylibrary
Building Angular Package
Building entry point 'mylibrary'
Rendering Stylesheets
Rendering Templates
Compiling TypeScript sources through ngc
Bundling to FESM2015
Bundling to FESM5
Bundling to UMD
Minifying UMD bundle
Copying declaration files
Writing package metadata
Removing scripts section in package.json as it's considered a potential security
vulnerability.
Built mylibrary
Built Angular Package!
- from: /Users/ferried/Cloud/publish/projects/mylibrary
- to: /Users/ferried/Cloud/publish/dist/mylibrary
ferried:publish ferried$ █
```

看一眼打出的包

```
mylibrary — -bash — 80x24
[ferried:mylibrary ferried$ ls -al
total 32
drwxr-xr-x  12 ferried  staff   384  7  28  13:02 .
drwxr-xr-x   3 ferried  staff    96  7  28  13:02 ..
drwxr-xr-x   6 ferried  staff   192  7  28  13:02 bundles
drwxr-xr-x   5 ferried  staff   160  7  28  13:02 esm2015
drwxr-xr-x   5 ferried  staff   160  7  28  13:02 esm5
drwxr-xr-x   4 ferried  staff   128  7  28  13:02 fesm2015
drwxr-xr-x   4 ferried  staff   128  7  28  13:02 fesm5
drwxr-xr-x   5 ferried  staff   160  7  28  13:02 lib
-rw-r--r--   1 ferried  staff    78  7  28  13:02 mylibrary.d.ts
-rw-r--r--   1 ferried  staff  1289  7  28  13:02 mylibrary.metadata.json
-rw-r--r--   1 ferried  staff   562  7  28  13:02 package.json
-rw-r--r--   1 ferried  staff   124  7  28  13:02 public_api.d.ts
[ferried:mylibrary ferried$ cat public_api.d.ts
export * from './lib/mylibrary.service';
export * from './lib/mylibrary.component';
export * from './lib/mylibrary.module';
ferried:mylibrary ferried$
```

## 6.发布包

```
#切到目录  
cd dist/mylibrary  
#发布  
npm publish
```

这里npm publish相关的可以自行百度