Angular Libraries via ng-packagr in CLI v6

Vancouver Angular Meetup - May 11, 2018

Libraries and NPM

- Not an alternative to NPM (or is it?)
- Easier to share and maintain?

Generate library

- ng generate library my-lib
 - Goes into projects/my-lib folder.
- ng build my-lib
- ng build my-lib --prod
 - Goes into dist/my-lib folder.

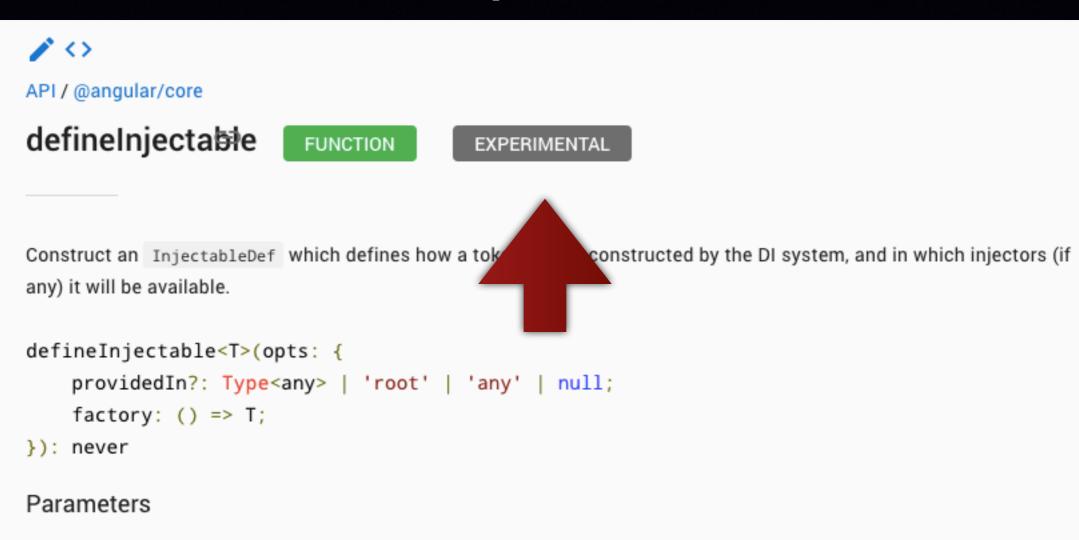
Structure

	•
	•
✓ src	
₄ lib	
TS my-lib.component.spec.ts	U
TS my-lib.component.ts	U
TS my-lib.module.ts	U
TS my-lib.service.spec.ts	U
TS my-lib.service.ts	U
TS public_api.ts	U
TS test.ts	U
K karma.conf.js	U
{} ng-package.json	U
{} ng-package.prod.json	U
{} package.json	U
{} tsconfig.lib.json	U
{} tsconfig.spec.json	U
{} tslint.json	U

Import your library

- Angular 6 is required to import
- import { something } from 'library-name';

More experimental



```
opts    Type: { providedIn?: Type | 'root' | 'any' | null; factory: () => T; } .
```

Returns

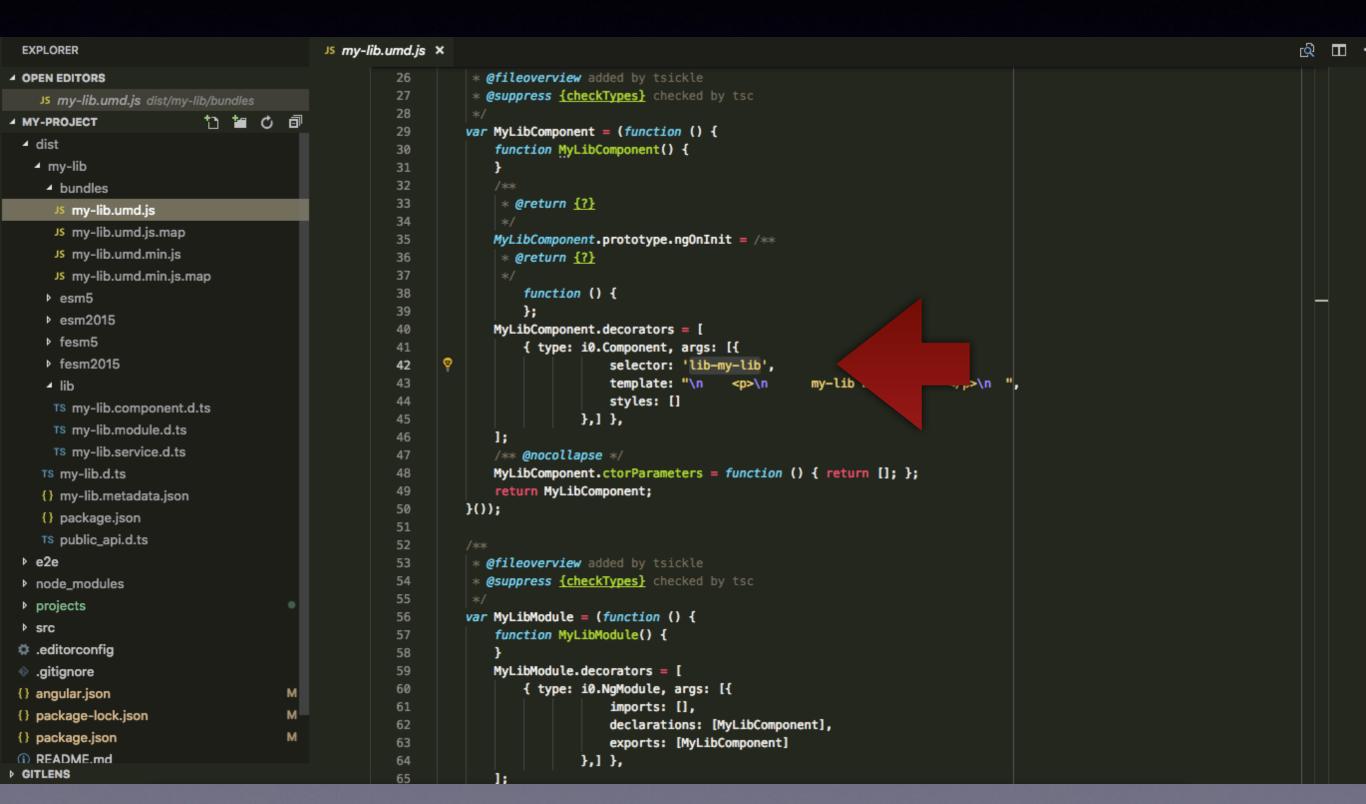
never

Using CLI build

```
{} tsconfig.json ×
      You, a few seconds ago | 1 author (You)
 2
         "compileOnSave": false,
        "compilerOptions": {
           "baseUrl": "./",
           "outDir": "./dist/out-tsc",
           "sourceMap": true,
 6
           "declaration": false,
           "moduleResolution": "node",
           "emitDecoratorMetadata": true,
 9
 10
           "experimentalDecorators": true,
           "target": "es5",
11
12
           "typeRoots": [
13
             "node_modules/@types"
 14
           "lib": [
15
16
             "es2017".
             "dom"
 17
 18
           "paths": {
19
20
             "my-lib": [
21
               "dist/my-lib"
22
23
24
25
```

you can also put it in node_modules as a hack

my-lib.umd.js



my-lib.component.d.ts

