Angular

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- Angular CLI
- ng new
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- Config files

Angular CLI

- Angular CLI is a command-line interface (CLI)
- Developed to automate tasks
- It can:
 - Create a new app
 - Run a server w/ LiveReload
 - Add artifacts to our app
 - Run unit tests & end-to-end tests (e2e)
 - Build the app for different environments

Angular CLI

- CLI Website: https://cli.angular.io
- CLI Docs: https://github.com/angular/angular-cli
- Install it:

```
$ npm install -g @angular/cli
```

- To check if the package is well installed, run:

```
$ ng -v
```

ng new

- It will generate all the boilerplate code that you need
- ng new docs: https://github.com/angular/angular-cli/wiki/new

angular.json

Part 6 - Angular Architecture angular.json

- It grab all the configuration of our angular project
- Can list schematics to produce file creation (ngrx, angular-bootstrap, angular pwa, etc).
- angular.json docs: https://github.com/angular/angular-cli/wiki/angular-workspace

ng serve

ng serve

- It serve files through a local HTTP server
- Ensure to watch files and compile/reload at each changes.
- In a terminal, type (-o mean open browser):

 \$ ng serve -o
- ng server docs: https://github.com/angular/angular-cli/wiki/serve

- It use schematics to generate code and update if needed existing files
- All Angular artefacts got their schematics built-in
- ng generate docs: https://github.com/angular/angular-cli/wiki/generate

- Create a component called "foo" and add it to the root module
 \$ ng generate component foo
- Create a component called "foo" without spec files (tests)
 \$ ng g c foo --spec false
- Create a module called "feature"
 \$ ng generate module feature
- Create a component called "bar" into the module called "feature"
 \$ ng generate component bar -m feature

- Custom schematics
 - https://github.com/ngrx/platform/tree/master/docs/schematics
 - https://blog.angular.io/schematics-an-introduction-dc1dfbc2a2b2

ng test

Part 6 - Angular Architecture ng test

- It run tests into the browser
- It use Karma & watching changes to be reloaded
- In a terminal, type:\$ ng test
- ng test docs: https://github.com/angular/angular-cli/wiki/test

ng add

- New in Angular 6
- It allows to install an application/library easily into our angular project:

```
$ ng add @angular/pwa
$ ng add @ng-bootstrap/schematics
```

ng add docs: https://github.com/angular/angular-cli/wiki/add

ng build

Part 6 - Angular Architecture ng build

ng build docs: https://github.com/angular/angular-cli/wiki/build

ng doc

- It opens the Angular website on the related doc:
 - \$ ng doc component
- ng doc docs: https://github.com/angular/angular-cli/wiki/doc

config files

config files: angular.json

We already talk about it

config files: package.json

- It contains packages to build & run our application (deps & devDeps)
- It provides "script" that you can call by using:

```
$ npm run scriptName
```

- It provides meta data about the current project
 - Name
 - Version
 - etc.

config files: tsconfig.json

- It contains the TypeScript compiler configuration,
- tsconfig.json doc:

https://www.typescriptlang.org/docs/handbook/tsconfig-json.html

config files: tslint.json

- Angular has a linting tool that checks the TypeScript code for programmatic & stylistic errors.
- TypeScript tslint file: <u>https://github.com/Microsoft/TypeScript/blob/master/tslint.json</u>
- Configuring TSLint: https://palantir.github.io/tslint/usage/configuration/