Cheat Sheet – Angular CLI

What is it?

The Angular (2) CLI allows you to quickly create new projects, project components, directives, services etc. as well as build, test and deploy (to Github pages) those projects.

Installation

Installing the Angular CLI is very simply, just follow these steps:

1. Install the latest version of NodeJS
2. Run this code: `[sudo] npm install –g angular-cli` (sudo is only required on Mac/ Linux)

Create a New Project

A new project can be created with this command:

```
ng new PROJECT_NAME
```

Serve Project (locally)

To see your project/ app in action, run this command:

```
ng serve
```

Then, open your browser and navigate to localhost:4200 (this is the default). The browser tab will automatically update whenever you change something in your project.

Folder/ Project Structure

The Angular CLI creates quite some files and folders, which makes it easy to get lost if you've never worked with it before.

Generally, you'll work inside the **src/** folder. This is the folder where you write your TS (or any other) code as well as create template (HTML) and CSS files.

The content of this folder will get compiled (TypeScript, SCSS – if used) and copied to the **dist/** folder. Therefore, never touch the dist/ folder, it is created and managed automatically!

For compilation, a **temp/** folder is created, in which you, also, shouldn't change anything.

The **node_modules** folder holds all the (dev) dependencies. The dependencies needed for production will automatically be copied into the **dist/** folder.

The **public/** folder allows you to place any other content which should be made available for production/ deployment. It will also be copied over to dist/ automatically.

As the name implies, the **config/** folder holds files configuring various parts of your project. You may change some settings here, but the defaults should be fine most of the time.

In the root folder, the **angular-cli.json** and **angular-cli-build.js** allow you to configure the angular cli "behavior" as well as parts of the build process (important when using third-party packages, see below for more information).

There are some other configuration files and in general, the official documentation + the course module about the Angular CLI is strongly recommended.

Other Commands

It doesn't make much sense that I list all the commands and possible flags for those commands. Check out the official docs (https://github.com/angular/angular-cli#table-of-contents) for more information or run `ng --help` for an overview of available commands and flags.

Third-Party Packages

You may add third-party packages to your projects created with the Angular CLI. Check out this part of the official documentation to learn how to do this: https://github.com/angular/angular-cli#3rd-party-library-installation