**Step 1 - Installing Angular CLI v9**

Let's get started by installing [Angular CLI v9](https://cli.angular.io/) if it is not yet installed on your machine.

Head over to a new command-line interface and run the following command to install the latest version of the Angular CLI:

$ npm install -g @angular/cli

***Note****: This will*[*install the Angular 9 CLI*](https://www.ahmedbouchefra.com/angular/install-angular-9-cli-and-create-project-with-routing/)*globally on your system so depending on your npm configuration you may need to add sudo (for superuser access) in macOS and Linux or use a command prompt with admin access in Windows.*

After the installation, you'll have at your disposal the *ng* utility. Let's use it to generate a new Angular 9 project.

$ ng new angular-bootstrap-examples

You will be prompted for a couple of questions:

? Would you like to add Angular routing? Yes

? Which stylesheet format would you like to use? (Use arrow keys)

> CSS

SCSS [ https://sass-lang.com/documentation/syntax#scss ]

Sass [ https://sass-lang.com/documentation/syntax#the-indented-syntax ]

Less [ http://lesscss.org ]

Stylus [ http://stylus-lang.com ]

Most importantly, choose CSS as the stylesheet format because we'll use ths CSS version of Bootstrap in our tutorial.

The command will generate the directory structure and necessary files for the project and will install the required dependencies.

Next, navigate inside the root folder of your project

$ cd angular-bootstrap-examples

You can then serve your Angular 9 application using the ng serve command as follows:

$ ng serve

Your app will be served from http://localhost:4200/

**Step 2 - Installing Bootstrap 4 in Your Angular 9 Project**

In this step, we'll proceed to add Bootstrap 4 to our Angular 9 application.

There are various ways that you can use to install Bootstrap in your project:

* Installing Bootstrap from npm using the npm install command,
* Downloading Bootstrap files and adding them to the src/assets folder of your Angular project,
* Using Bootstrap from a CDN.

Let's proceed with the first method. Go back to your command-line interface and install Bootstrap 4 via npm as follows:

$ npm install --save bootstrap

This will also add the *bootstrap* package to package.json.

As the time of writing this tutorial, **bootstrap v4.3.1** will be installed.

The Bootstrap 4 assets will be installed in the node\_modules/bootstrap folder. You'll need to tell Angular where to look for them.

Next, you also need to install jQuery using the following command:

$ npm install --save jquery

At the time of this tutorial **jquery v3.4.1** will be installed.

**Step 3 (Method 1) - Adding Bootstrap 4 to Angular 9 Using angular.json**

Open the angular.json file of your project and include:

* node\_modules/bootstrap/dist/css/bootstrap.css in the projects->architect->build->styles array,
* node\_modules/bootstrap/dist/js/bootstrap.js in the projects->architect->build->scripts array,
* node\_modules/bootstrap/dist/js/bootstrap.js in the projects->architect->build->scripts array,

As follows:

{

"$schema": "./node\_modules/@angular/cli/lib/config/schema.json",

"version": 1,

"newProjectRoot": "projects",

"projects": {

"angular-bootstrap-examples": {

"projectType": "application",

"schematics": {},

"root": "",

"sourceRoot": "src",

"prefix": "app",

"architect": {

"build": {

"builder": "@angular-devkit/build-angular:browser",

"options": {

"outputPath": "dist/angular-bootstrap-examples",

"index": "src/index.html",

"main": "src/main.ts",

"polyfills": "src/polyfills.ts",

"tsConfig": "tsconfig.app.json",

"aot": true,

"assets": [

"src/favicon.ico",

"src/assets"

],

"styles": [

"./node\_modules/bootstrap/dist/css/bootstrap.css",

"src/styles.css"

],

"scripts": [

"./node\_modules/jquery/dist/jquery.js",

"./node\_modules/bootstrap/dist/js/bootstrap.js"

]

},

*Note: You also need to add the jQuery JavaScript library file.*

**Step 3 (Method 2) - Adding Bootstrap 4 to Angular 9 Using index.html**

You can also include Bootstrap files from node\_modules/bootstrap using the index.html file.

Open the src/index.html file and add the following:

* A <link> tag for adding the bootstrap.css file in the <head> section,
* A <script> tag for adding the jquery.js file before the closing </body> tag,
* A <script> tag for adding the bootstrap.js file before the </body> tag.

<!doctype html>

<html lang="en">

<head>

<meta charset="utf-8">

<title>Angular Bootstrap 4 Examples</title>

<base href="/">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="icon" type="image/x-icon" href="favicon.ico">

<link rel="stylesheet" href="../node\_modules/bootstrap/dist/css/bootstrap.css">

</head>

<body>

<app-root></app-root>

<script src="../node\_modules/jquery/dist/jquery.js"></script>

<script src="../node\_modules/bootstrap/dist/js/bootstrap.js"></script>

</body>

</html>