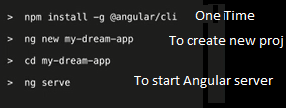
**Angular**

**Installing Angular:**

1. First download the **Nodejs** from nodejs.org and install by running the installer exe
2. Node –v will give the version
3. Install the **Angular cli/**Command Line interface from the official site cli.angular.io



1. Ng –v will give the version.

**Updating/Upgrading Angular CLI Software**

If you're using Angular CLI 1.0.0-beta.28 or less, you need to uninstall angular-cli package. It should be done due to changing of package's name and scope from angular-cli to @angular/cli:

npm uninstall -g angular-cli

npm uninstall --save-dev angular-cli

To update Angular CLI to a new version, you must update both the global package and your project's local package.

Global package:

npm uninstall -g @angular/cli

npm cache clean

# if npm version is > 5 then use `npm cache verify` to avoid errors (or to avoid using --force)

npm install -g @angular/cli@latest

Local project package:

rm -rf node\_modules dist # use rmdir /S/Q node\_modules dist in Windows Command Prompt; use rm -r -fo node\_modules,dist in Windows PowerShell

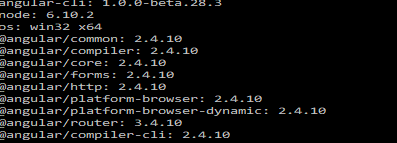
npm install --save-dev @angular/cli@latest

npm install

**Upgrade Project from Angular 2 to Latest Angular Project - steps: (details in** [**https://github.com/angular/angular-cli#updating-angular-cli**](https://github.com/angular/angular-cli#updating-angular-cli)**)**

Inside the project cd and run following commands:

1. Check current version by ng –v



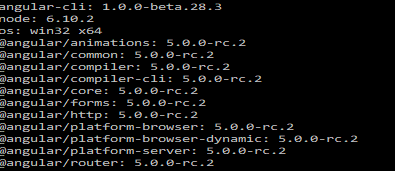
1. To Upgraded to latest angular

npm install @angular/common@next @angular/compiler@next @angular/compiler-cli@next @angular/core@next @angular/forms@next @angular/http@next @angular/platform-browser@next @angular/platform-browser-dynamic@next @angular/platform-server@next @angular/router@next @angular/animations@next –save

1. To upgrade TypeScript

npm install [typescript@2.2.1](mailto:typescript@2.2.1) –save

1. ng –v shows the project is upgraded to Angular 5



**Code:**

Different Angular Events can be found in

<https://developer.mozilla.org/en-US/docs/web/events>

**Order of videos to learn Angular:**

<https://www.youtube.com/playlist?list=PL0lNJEnwfVVNZ9_rtfJvwg87Q9EKzin_S>

<https://www.youtube.com/watch?v=KhzGSHNhnbI>

<https://www.youtube.com/watch?v=k5E2AVpwsko&list=PLTjRvDozrdlxAhsPP4ZYtt3G8KbJ449oT>

Build using:

<https://www.youtube.com/watch?v=XgWRKT2SRac>

<https://www.youtube.com/watch?v=MWnyQWktr1s&t=293s>

**Full Angular 2 Project:**  
<https://github.com/akveo/ngx-admin>

**BootStrap:**

Basic Bootstrap Functionality is in - <https://www.youtube.com/watch?v=5GcQtLDGXy8>

**NG BootStrap:** To use the functionalities of Ng Bootstrap install it using the below cmd and refer link: <https://ng-bootstrap.github.io/#/home>

1. Install Ng BootStrap using below command:

G:/SpringBoot/src/angularscript>**npm install --save @ng-bootstrap/ng-bootstap**

**Angular Material:** To use the functionalities of Angular Material install it using the below cmd and refer link <https://material.angular.io/guide/getting-started>

1. Install Angular Material using below command:

G:/SpringBoot/src/angularscript> **npm install --save @angular/material @angular/cdk**

**Different Ng Commands:** [**Link**](https://scotch.io/tutorials/use-the-angular-cli-for-faster-angular-2-projects)

|  |  |
| --- | --- |
| Component | ng g component my-new-component |
| Directive | ng g directive my-new-directive |
| Pipe | ng g pipe my-new-pipe |
| Service | ng g service my-new-service |
| Class | ng g class my-new-class |
| Guard | ng g guard my-new-guard |
| Interface | ng g interface my-new-interface |
| Enum | ng g enum my-new-enum |
| Module | ng g module my-module |

**Creating BootStrap3, Angular 4, SpringBoot, Maven Project From Scratch**

|  |  |
| --- | --- |
| **SpringBoot** | 1. Create a SpringBoot Project “SpringBootApp” (G:/SpringBoot) 2. Web 3. MySql 4. JPA |
| **Angular4** | 1. Inside the /src directory create an Angular project   G:/SpringBoot/src> **ng new angularsript**   1. Change the below line in file “.angular-cli.json” to point to Angular output folder to the webapp directory:   "outDir": **"../src/main/webapp",**   1. Start the Angular watcher to compile and put output in the outputDir   **ng build -watch** |
| **BootStrap &**  **Jquery** | 1. Install Bootstrap and Jquery using below command:   G:/..angularscript>**npm install bootstrap@3 jquery –save**   1. Add the below line in file “.angular-cli.json” to add the Bootstrap and Jquery to project scope:   "styles": [  "styles.css",  "../node\_modules/bootstrap/dist/css/bootstrap.min.css"  ],  "scripts": [  "../node\_modules/jquery/dist/jquery.min.js",  "../node\_modules/bootstrap/dist/js/bootstrap.min.js"  ], |
| **NgBootStrap** | 1. Install Ng BootStrap using below command:   G:/..angularscript> **npm install --save @ng-bootstrap/ng-bootstap**   1. To make use of it in the project the below lines needs to be added in app.module.ts   import { NgbModule } from '@ng-bootstrap/ng-bootstrap';  imports: [  BrowserModule,  NgbModule.forRoot()  ],   1. Start using NgBootStrap refer samples in <https://ng-bootstrap.github.io/#/home> |
| **Angular Material** | 1. Install Angular Material using below command:   G:/..angularscript> **npm install --save @angular/material @angular/cdk**  G:/..angularscript> **npm install --save @angular/animations**   1. Add below line to root style.css   **@import "~@angular/material/prebuilt-themes/indigo-pink.css";**   1. To make use of it in the project the below lines needs to be added in app.module.ts   **import {BrowserAnimationsModule} from '@angular/platform-browser/animations';**   1. Install Angular hammerjs using below command:   G:/..angularscript> **npm install –save hammerjs** |