<https://cli.angular.io/>

<https://angular.io/api> (Angular 4)

<https://v2.angular.io/docs/ts/latest/cli-quickstart.html>

<https://angular.io/guide/form-validation> (form validation)

<https://angular.io/guide/pipes>

<http://angularexpo.com/> (Angular Example)

<https://v2.angular.io/docs/ts/latest/cookbook/component-communication.html>

<https://v2.angular.io/docs/ts/latest/api/> (Angular 2)

<https://docs.npmjs.com/>

<https://bootswatch.com/> (Bootstrap Theme)

<https://www.typescriptlang.org/docs/home.html>

[https://blog.thecodecampus.de/angular-2-animate-creating-sliding-side-navigation/ (Animation)](https://blog.thecodecampus.de/angular-2-animate-creating-sliding-side-navigation/)

<https://github.com/angular/angular-cli> (Angular Github)

<https://www.youtube.com/watch?v=c8w5y7iUztw> (guard)

<https://codecraft.tv/courses/angular/routing/router-guards/> (guard)

<https://netbasal.com/exploring-the-new-meta-service-in-angular-version-4-b5ba2403d3e6> (meta)

<https://angular.io/guide/set-document-title> (For title tag)

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Video Tutorial

<https://www.youtube.com/watch?v=DwTNR3EBSJQ&list=PL4cUxeGkcC9jqhk5RvBiEwHMKSUXPyng0> (Old Version)

<https://www.youtube.com/channel/UCVyRiMvfUNMA1UPlDPzG5Ow> (New Version)

<https://www.youtube.com/watch?v=r-xlmXE7bJU>

<https://www.youtube.com/watch?v=kFTmoLm9Jwg>

<https://www.youtube.com/watch?v=umiW-pfbB5c> (image search app)

<https://www.youtube.com/watch?v=NUCAcuAptoE> (input / output)

<https://www.youtube.com/watch?v=V5-CIZTLyvw> (image gallery)

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For manually

<script src="https://code.angularjs.org/2.0.0-beta.8/angular2-polyfills.js"></script>

<script src="https://code.angularjs.org/tools/system.js"></script>

<script src="https://code.angularjs.org/tools/typescript.js"></script>

<script src="https://code.angularjs.org/2.0.0-beta.8/Rx.js"></script>

<script src="https://code.angularjs.org/2.0.0-beta.8/angular2.dev.js"></script>

<script src="https://code.angularjs.org/2.0.0-beta.8/http.dev.js"></script>

<script src="config.js"></script>

===================================================================================

System.import to bootstrap and run your application.

====================================================================

What is component

<https://angular.io/api/core/Component>

[https://angular.io/guide/quickstart#!#add-config-files](about:blank)

***How to delete node\_modules folder***

<http://www.nikola-breznjak.com/blog/javascript/nodejs/how-to-delete-node_modules-folder-on-windows-machine/>

**Add node\_module**

npm install

=====================================================================

Install Angular2 By CLI  
1. ***C:\Users\Admin> npm install -g angular-cli***

***2. Target directory in htdocs> ng new contact-manager (contact-manager is folder name)***

***3. ng serve (Run Application)***

Some Useful Command

***4. ng generate component home (Create home name component)***

nvm(node version manager)

***5. npm install nvm***

***6. npm outdated (check outdated file)***

***7. ng serve -p 1234 (change port and make sure use 4 number in port)***

***8. ng new projectname --style=scss (create new project with scss)***

***9. ng build --output-path buildproject/ (final build)***

***10. npm install bootstrap (install only bootstrap folder)***

***11. npm install --save @ng-bootstrap/ng-bootstrap (install bootstrap for component)***

***12. ngDoCheck***

<https://ng-bootstrap.github.io/#/getting-started> (Integrate Bootstrap)

=================================================================================

File Description

***tslint.json*** For syntax check. check application is based on or not according to tslint rule

***Protractor.conf.js*** For unit test (check test in browser it used jasmine)

***Package.json*** Define dependency

***karma.conf.js*** It's also testing framework

***Angular-cli.json*** configuration of cli

=================================================================================

**Some Basic INformation**

1. (click) -> Event Binding

2. [contact]=”contact” -> Property Binding

3. [(ngModel)] -> Property and Event Binding

FOR UBUNTU

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<https://tecadmin.net/install-latest-nodejs-npm-on-ubuntu/>

<https://www.npmjs.com/package/angular2-cli/tutorial>

**Install node**

sudo apt-get install nodejs

**Update Node**

sudo npm install -g n

sudo n latest

**Install Angular**

npm install angular2-cli

**Install NG**

sudo apt install ng-common

**Animation**

[**https://blog.thecodecampus.de/angular-2-animate-creating-sliding-side-navigation/**](https://blog.thecodecampus.de/angular-2-animate-creating-sliding-side-navigation/)

[**https://angular.io/api/core/Component#animations**](https://angular.io/api/core/Component#animations)

**For Interview:-**

[**https://www.wisdomjobs.com/e-university/angular-2-interview-questions.html**](https://www.wisdomjobs.com/e-university/angular-2-interview-questions.html)

[**https://www.youtube.com/watch?v=56VKkyOj7EE**](https://www.youtube.com/watch?v=56VKkyOj7EE)

Declaration:- Declaring all the component

Imports- declare all module that you need as dependencies

Providers:- Any kind of service that is required as a dependency that need to be injected into your classes

<https://www.quora.com/What-is-the-difference-between-Angular-2-and-Angular-4>

**File Introduction:-**

**1. What is tslint.json**

**Ans.** TSLint is an extensible static analysis tool that checks TypeScript code for readability, maintainability, and functionality errors.

**2. Tsconfig.json**

**Ans.**

**3. Protractor.conf.js**

**Ans.**

***4. Package.json***

**Ans.**

**a) dependency**

**Ans.** This section need for both development and production

**b) devdependency**

**Ans.** This section need only development

**c) codelyzer**

**Ans.** validate code with cli and custom angular specific rule

***5. Karma.conf.js***

**Ans.**

***6. Angular-cli.json***

**Ans.**

***7. Tsconfig.spec.json***

**Ans.**

***8. Tsconfig.app.json***

**Ans.**

***9. Test.ts***

**Ans.**

***10. Pollyfills.ts***

**Ans.**

**11. Main.ts**

**Ans.** Boots our Application

***12. environment.ts***

**Ans.**

**13. App.module.ts**

**Ans.** Declare all your environments for your Application

Declaration of component, module, service

**14. Meta Data**

**Ans.** @component({

Selector:

templateUrl:

styleUrls:

})

Note:-

\*selector, templateUrl, styleUrl these are metadata

\*Metadata that’s provide you with the opportunity to combine the functionality of component clause with template and tell the component how which needs to be instantiated how it needs to behave

\*Template and functionality of component is going to joined with something called as metadata

**15. Types of data binding**

**Ans.** 1. Interpolation => {{value}}

2. Property Binding => [property] = “value”

3. Event Binding => (event) = “event handler”

4. 2 way data binding => [{ngModel}]

**Angular Features:-**

1. ES6 and typescript support
2. Speed and performance
3. Modular
4. Support tablet, mobile, etc…

**Need to Understand in js**

1. Basic data types
2. Array and manipulation
3. Object and manipulation

**Building Blocks of Angular**

1. Module
2. Component
3. Metadata
4. Template
5. Data binding
6. Services
7. Directive

**Error label**

1. Debug
2. Error
3. Fatal
4. Info
5. Off
6. Trace
7. Warn

**We can use Angular without node with git compiler**

**#f means f is variable in template**

**TSON :- Typescript object notation**

**Angular 4 Typescript (Min 2.1.0)**

**Angular 2 Typescript (Max 2.0.0)**

**Arrow function (=>) similar to (function(){ })**

**Guard Function:-**

[**https://blog.thoughtram.io/angular/2016/07/18/guards-in-angular-2.html**](https://blog.thoughtram.io/angular/2016/07/18/guards-in-angular-2.html)

**Angular Material**

[**https://material.angular.io/components/sidenav/overview**](https://material.angular.io/components/sidenav/overview)

**Observables?**

**interface SquareConfig {  
 color?: string;  
}**

**Means color is optional no need to define in method**

**Difference between { module-name } and module-name**

{ module-name } it will export all function

Module-name it will export only default function instead of all function

Exa. export default class abc(){}

**ngOnInit :- when you want data on load than write code under ngOnIt**

**Enable production mode**

[**http://tattoocoder.com/angular-cli-using-the-environment-option/**](http://tattoocoder.com/angular-cli-using-the-environment-option/)

**Best Practise**

[**https://angular.io/guide/setup-systemjs-anatomy**](https://angular.io/guide/setup-systemjs-anatomy)

[**https://angular.io/guide/architecture**](https://angular.io/guide/architecture)

[**https://github.com/kennymkchan/interview-questions-in-javascript#array**](https://github.com/kennymkchan/interview-questions-in-javascript#array)

[**http://www.c-sharpcorner.com/UploadFile/b7dc95/typescriptts-anatomy-part-1/**](http://www.c-sharpcorner.com/UploadFile/b7dc95/typescriptts-anatomy-part-1/)

[**http://perfectionkills.com/javascript-quiz-es6/**](http://perfectionkills.com/javascript-quiz-es6/)

[**http://jstherightway.org/**](http://jstherightway.org/)

[**https://code.tutsplus.com/tutorials/24-javascript-best-practices-for-beginners--net-5399**](https://code.tutsplus.com/tutorials/24-javascript-best-practices-for-beginners--net-5399)

[**https://www.npmjs.com/package/angular-cli**](https://www.npmjs.com/package/angular-cli)