# Angular

## Getting Started

Practice:

<https://jcoop.io/angular-practice-exercises/>

Git hub:

<https://github.com/jmcooper/angular-fundamentals-files>

### Angular JS vs Angular

**Angular js**

* MVC Framework

**Angular**

### Start with angular

Install angular CLI

$ sudo npm install –g @angular/cli@7.1.2

Create a project using CLI

$ ng new ng-fundamentals

You may can copy existing project package.json and package-lock.json contents.

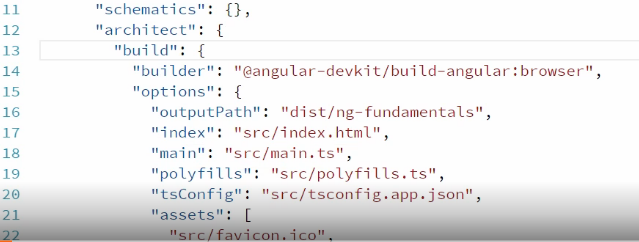
Delete the “node\_modules” and then npm install

$ npm install

To start

$ npm start

If we access the app (default port 4200), it will launch the file **src/main.ts** This mapping can be found under package.json **build** mapping section.



The **main.ts** file will be loaded by web pack i.e. **angular.json** file.

Then the main.ts file will load the **app.module** and that makes angular aware about our app component, which will load the index.html

## Creating and communicating between components

### Creating a component

We need to create a ts file as below

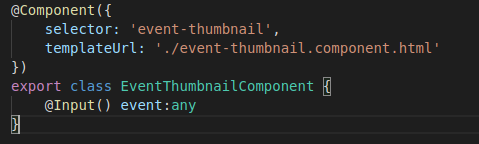


Register the component to root module file (app.module.ts) in **declarations[]**

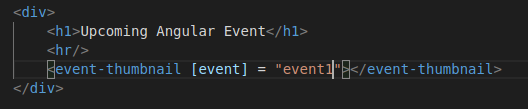
### Passing data to child component

We need to pass through **@Input()** decorator

Child component:



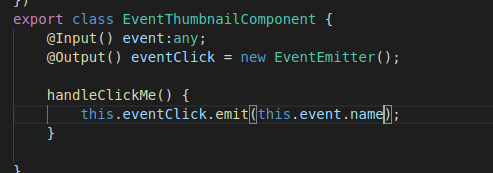
Parent component (especially template file):



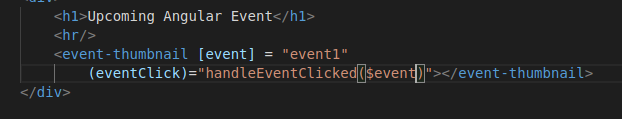
### Passing the data from child to parent

We will do that with **@Output()** decorator, especially we will pass back events generated in child component to parent component.

Capture event in child component:



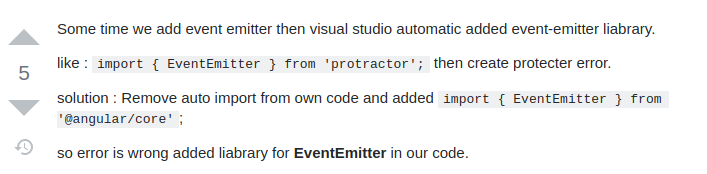
Capture the event emitted in parent template:



Define a method in parent component.ts

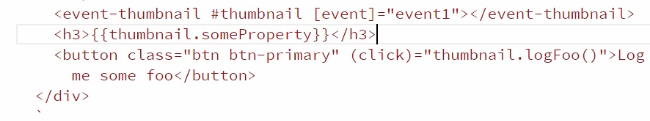


A Issue faced with **EventEmitter** import, many compilation packages were failing:



### Template Reference Variable

Template reference variable is a simple and straight forward way to use methods and variables of child component in parent component



In above **#thumbnail** is the template reference variable.