

Angular 2

<https://github.com/buckyroberts/angular-2-template>

cd in proj directory

npm install //searchs for the package.json in the current dir and installs the dependencies that appear in this file

```
{
  "name": "angular-2",
  "version": "1.0.0",
  "scripts": {
    "start": "concurrently \"npm run tsc:w\" \"npm run lite\" ",
    "tsc": "tsc",
    "tsc:w": "tsc -w",
    "lite": "lite-server",
    "typings": "typings",
    "postinstall": "typings install"
  },
  "license": "ISC",
  "dependencies": {
    "angular2": "2.0.0-beta.13",
    "systemjs": "0.19.25",
    "es6-shim": "^0.35.0",
    "reflect-metadata": "0.1.2",
    "rxjs": "5.0.0-beta.2",
    "zone.js": "0.6.6"
  },
  "devDependencies": {
    "concurrently": "^2.0.0",
    "lite-server": "^2.1.0",
    "typescript": "^1.8.9",
    "typings": "^0.7.11"
  }
}
```

npm start // start the server - see package.json for additional server settings - with this console window connection opened each time you save a file in your project the page will refresh

the project will pop-up in the browser at the address <http://localhost:3000/>

-we write typescript, not javascript ;

- we convert typescript at [typescriptlang.org/play](https://www.typescriptlang.org/play) in javascript so the browser understand it, but as it is set up the project will convert automatically
- **never edit** the files from app/js/app.component.js — main.ts(from app/ts) gets converted to main.js
- — we edit only files from app/ts directory
- — main.js.map file to debug(if there are any in the afferent ts file
-

Don't ever touch "**node_modules library root**", "typings" folder
typings files help to interpret into javascript

.gitignore // in this file you add what you do not what to upload on git

tsconfig.json // contains details about how you want to convert ts to js
 for ex. the line:

"outDir": "app/js" // tells: whenever we are finished to convert ts into js , put final files into: app/js folder - to have a more clean project

typingscript.json // contains the rules on how plain js is supposed to understand js

————— in **app/ts/app.components.ts** file

```
import {Component} from 'angular2/core';
```

```
@Component({
  selector: 'my-app', //the selector is the name of the component
  template: '<h1>Angular 2 Template</h1>'
})
```

```
export class AppComponent {} //this component is public
```

————— in main.ts we have

```
import {bootstrap} from 'angular2/platform/browser';
import {AppComponent} from './app.component'; //look for the file with .ts
extension, in the same directory as I am right now - by default, imports from
"node_modules library root" dir
```

bootstrap(AppComponent); //prepare or load in your root component
 Every angular app needs a root component or a main component

_____ in index.html

you have your system js library - all the code that we write it gets included automatically

```
<!-- Configure SystemJS -->
<script>
  System.config({
    packages: {
      app: {
        format: 'register',
        defaultExtension: 'js'
      }
    }
  });
  System.import('app/js/main').then(null, console.error.bind(console));
</script>
```