

Angular Developer

Tasks

Angular CLI

Env setup and new project

1. Install node (or make sure its installed)
 - <https://nodejs.org/en/download/>
 - <https://github.com/nvm-sh/nvm#installing-and-updating> (advanced)
2. Install angular command line interface
3. Verify installation

```
ng version
```
4. Create new project
5. Serve
6. Generate some new elements
 - Component
 - Directive
 - Module
 - Component in module :)

```
ng help
```

Building the project

1. Build the project
(errors?)
2. Find dist files
3. Install [http-server](#)
4. Serve built app
(not with ng serve but with http-server)

Working with existing project

1. Clone project ([this for example](#))
2. Install dependencies
3. Run project
4. Select issues that you will help with :)

Quick intro

Template oriented
(lots of things happen in html)


```
1 <div>
2   <select>
3     <option value="opt1">Option 1</option>
4     <option value="opt2">Option 2</option>
5   </select>
6 </div>
```



```
1 <div *ngIf="showOptions">
2   <select [(ngModel)]="selected">
3     <option value="opt1">Option 1</option>
4     <option value="opt2">Option 2</option>
5   </select>
6 </div>
```

```
1 <div *ngIf="showOptions">
2   <select [(ngModel)]="selected">
3     <option *ngFor="let opt of options"
4       [value]="opt">
5       {{ opt }}
6     </option>
7   </select>
8 </div>
```

```
1 <div *ngIf="showOptions">
2   <select [(ngModel)]="selected">
3     <ng-template ngFor let-opt [ngForOf]="options">
4       <option *ngIf="selected !== opt" [value]="opt">
5         {{ opt }}
6       </option>
7     </ng-template>
8   </select>
9 </div>
```




Questions ?

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- Angular
- Ionic / NativeScript
- Yii2 (yes, php)



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KRÓL
WALENTYNEK
JEST
TYLKO
JEDEN

ŽENEK

blondynka serial

×

Wszytko

Wiadomości

Grafika

Wideo

Mapy

Więcej

Ustawienia

Narzędzia

Okolo 764 000 wynikow (0,81 s)

vod.tvp.pl > website > blondynka,1667885

Blondynka - Vod.tvp.pl - Telewizja Polska S.A.

seriale/obyczajowe. Tytulowa blondynka to Sylwia – mloda lekarka-weterynarz z Warszawy, ktora postanawia wyjechać na wieś. Trafia... WIĘCEJ. Dodaj do ...

Odc. 99 · II seria · I seria · IV seria

pl.wikipedia.org > wiki > Blondynka_(serial_telewizyjny)

Blondynka (serial telewizyjny) – Wikipedia, wolna encyklopedia

Serial odniósł sukces komercyjny i zdobył dużą liczbę widzów, co skłoniło TVP1 do zamówienia drugiej serii, która miała być realizowana wiosną 2011, jednakże ...

Obsada · Spis serii










www.filmweb.pl > serial > Blondynka-2010-532928

Blondynka (Serial TV 2010-2019) - Filmweb

Blondynka (2010) - Perypetie mlodej dziewczyny weterynarz, która pracuje w lecznicy dla zwierząt we wsi Majaki.

★★★★★ Ocena: 5/10 · 4 723 głosy

Obsada serialu Blondynka · Blondynka - galeria zdjęć · Galeria serialu Blondynka



Więcej obrazów

Blondynka

2010 · 5 sezonów

✓

Obejrzone?

🔖

Lista do obejrzenia

Ten program telewizyjny podobał się 79% użytkowników

👍

👎

Swag for best students





BIG PICTURE

- Complete set of tools - FRAMEWORK
- Single Page Applications - SPAs
- Multi-platform (web, mobile, desktop)
- PWA support
- Enterprise ready - backed by Google

Who is using Angular?

- Google (gmail, ...)
- Youtube TV
- Microsoft Office
- Xbox Live
- Apple (dev portal)

Key features

- MVC or MVVM - Model view...
 - (very) Template oriented
 - (Two way) Data Binding
 - Dependency injection
 - Componentized
 - Modular
-
- TypeScript
 - Testing support out of the box
 - Tooling (Angular CLI, ...)
 - IDE code completion and etc...



FRAMEWORK

LIBRARIES



SPA router



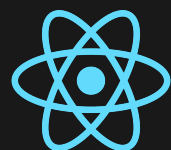
graphics



socket.io

Communication

View rendering



LIBRARY

```
1  
2  ReactJs.render( );  
3
```

```
1 (function(window){
2   function ReactJs(){
3     var _ReactLibraryObject = {
4       render: () => { console.log('rendering') }
5     };
6
7     return _ReactLibraryObject;
8   }
9   if(typeof(window.ReactJs) === 'undefined'){
10     window.ReactJs = ReactJs();
11   }
12 })(window);
```



AS THE FRAMEWORK

Complete set of rules and best practices

Defined building blocks

(Modules, Components, Directives,...)

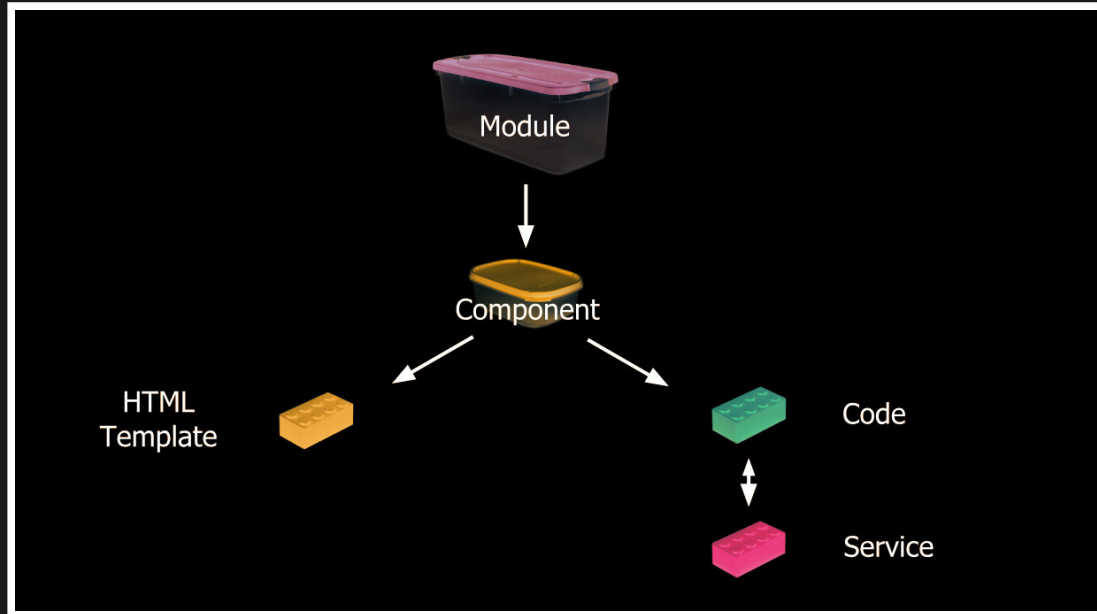


image by [@miki995](#)

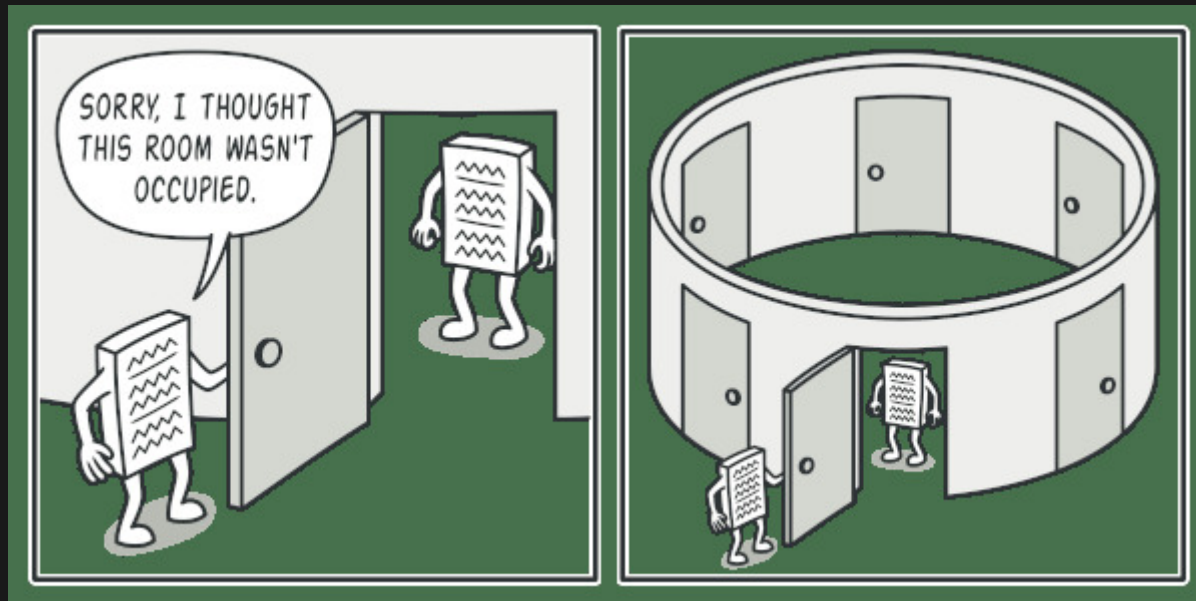
More restrictions

- Naming convention
- Application structure
- File structure

Design patterns out of the box

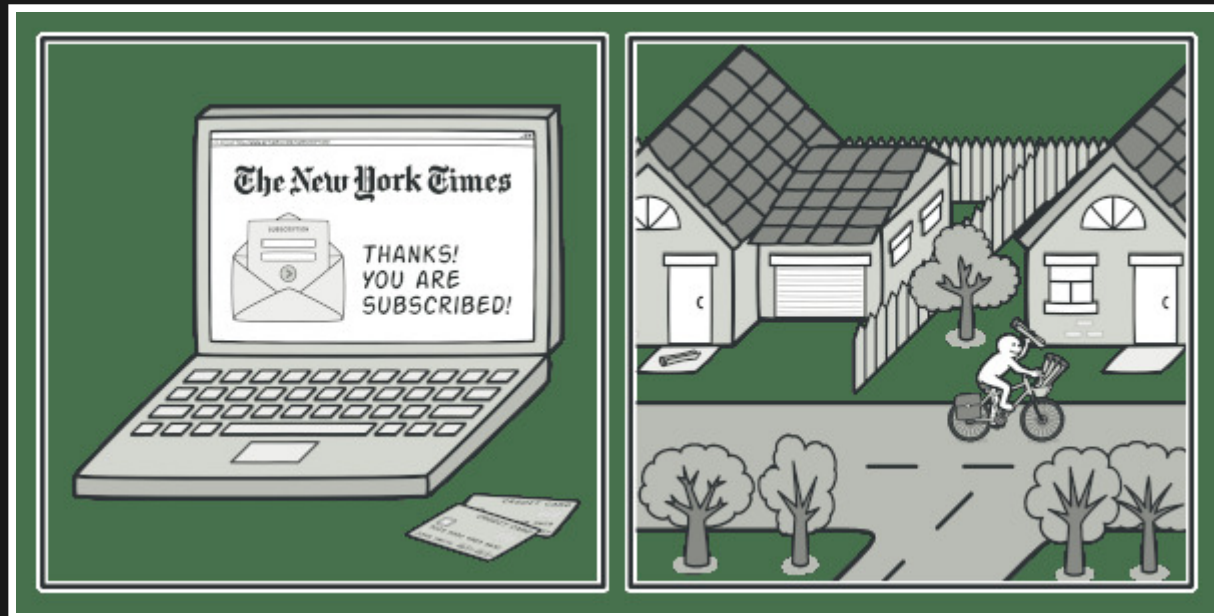
(advanced software development)

Singleton



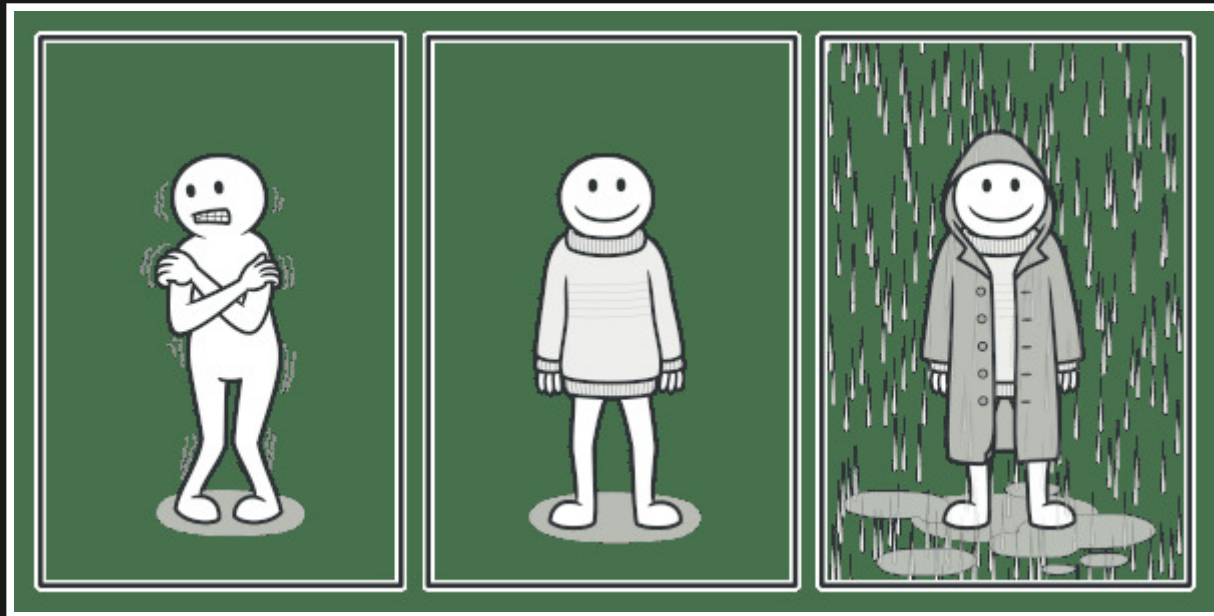
courtesy of [Refactoring Guru](#)

Observer



courtesy of [Refactoring Guru](#)

Decorator



courtesy of [Refactoring Guru](#)

Angular CLI [\(docs\)](#)

- New project creation
- Development
- Parts generation
- Testing
- Building

Installing

```
$ npm install -g @angular/cli
```

Creating new project

```
$ ng new project_name
```

Running our project

```
$ cd project_name  
$ ng serve -o
```

Project 'parts' generation

```
$ ng generate module myModule  
$ ng g component myComponent  
$ ng g pipe myPipe
```

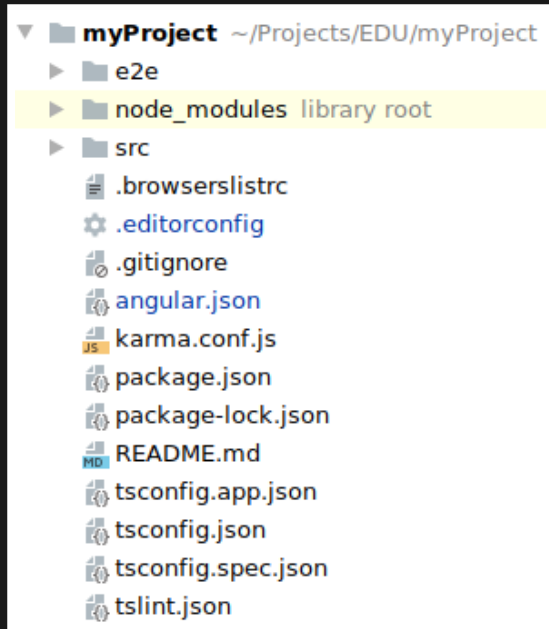
Getting help

```
$ ng help
```

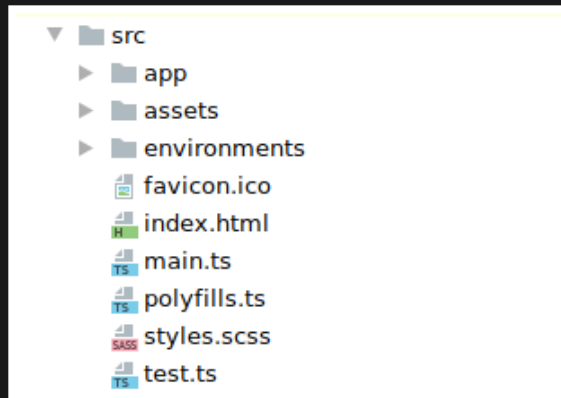
Building our project

```
$ ng build --prod
```

Project structure



- e2e - integration testing
- node_modules - libs, dependencies
- **src - project sources**
- angular.json - cli config
- package.json - dependencies list
- tsconfig.* - typescript configs
- .editorconfig
- README.md
- tslint.json



- **app** - our code
 - assets - static files
 - environments - configs
-
- index.html - main html page
 - main.ts - app entry point

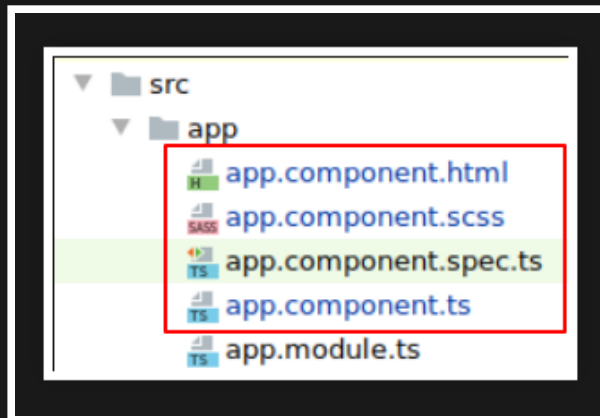
index.html

```
1 <html lang="en">
2 <head>
3   <meta charset="utf-8">
4   <title>MyProject</title>
5   <base href="/">
6   <meta name="viewport"
7     content="width=device-width, initial-scale=1">
8   <link rel="icon"
9     type="image/x-icon" href="favicon.ico">
10 </head>
11 <body>
12   <app-root></app-root>
13 </body>
14 </html>
```

(Building process adds generated files)

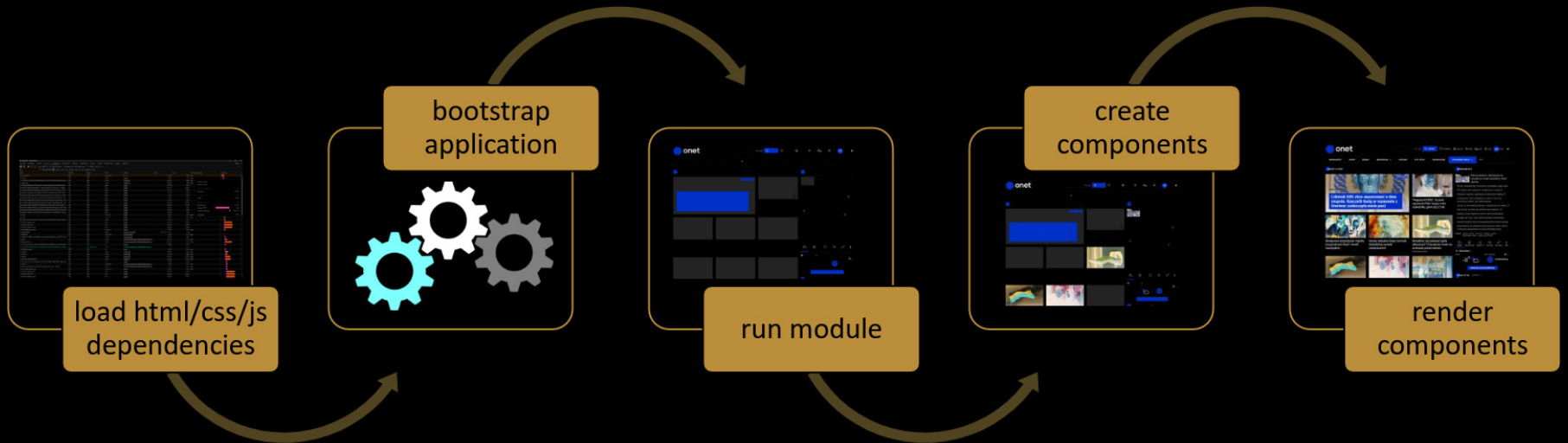
main.ts

```
1 import { enableProdMode } from '@angular/core';
2 import { platformBrowserDynamic }
3   from '@angular/platform-browser-dynamic';
4
5 import { AppModule } from './app/app.module';
6 import { environment } from './environments/environment';
7
8 if (environment.production) {
9   enableProdMode();
10 }
11
12 platformBrowserDynamic().bootstrapModule(AppModule)
13   .catch(err => console.error(err));
```



- Component files
- Module

App bootstrapping



Template

(html files)

Interpolation

`{{ }}`

```
1 <div>
2   <p>Welcome my dear friend</p>
3 </div>
```

```
1 <div>
2   <p>{{ 'Welcome my dear friend' }}</p>
3 </div>
```

```
1 <div>
2   <p>{{ 'Welcome my dear friend' }}</p>
3   <p>{{ 'Ready for a math lesson?' }}</p>
4   <p>{{ '2 + 2 equals ' + 4 }}</p>
5 </div>
```



```
1 <div>
2   <p>{{ 'Welcome my dear friend' }}</p>
3   <p>{{ 'Ready for a math lesson?' }}</p>
4   <p>{{ '2 + 2 equals ' + ( 2 + 2 ) }}</p>
5 </div>
```