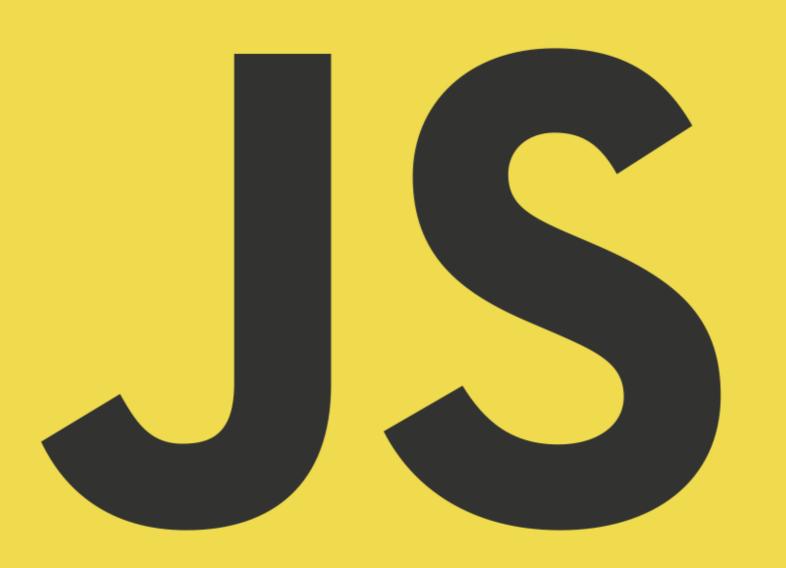
Introducción a JavaScript con Node.JS, TypeScript, AngularJS2

Alejandro Romero - @alejo8591

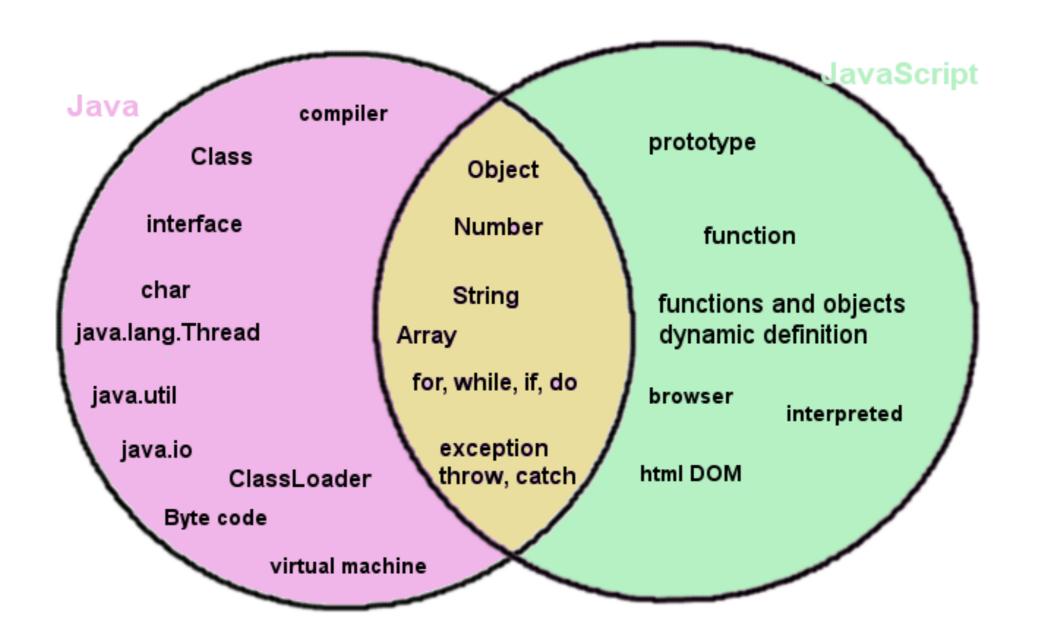








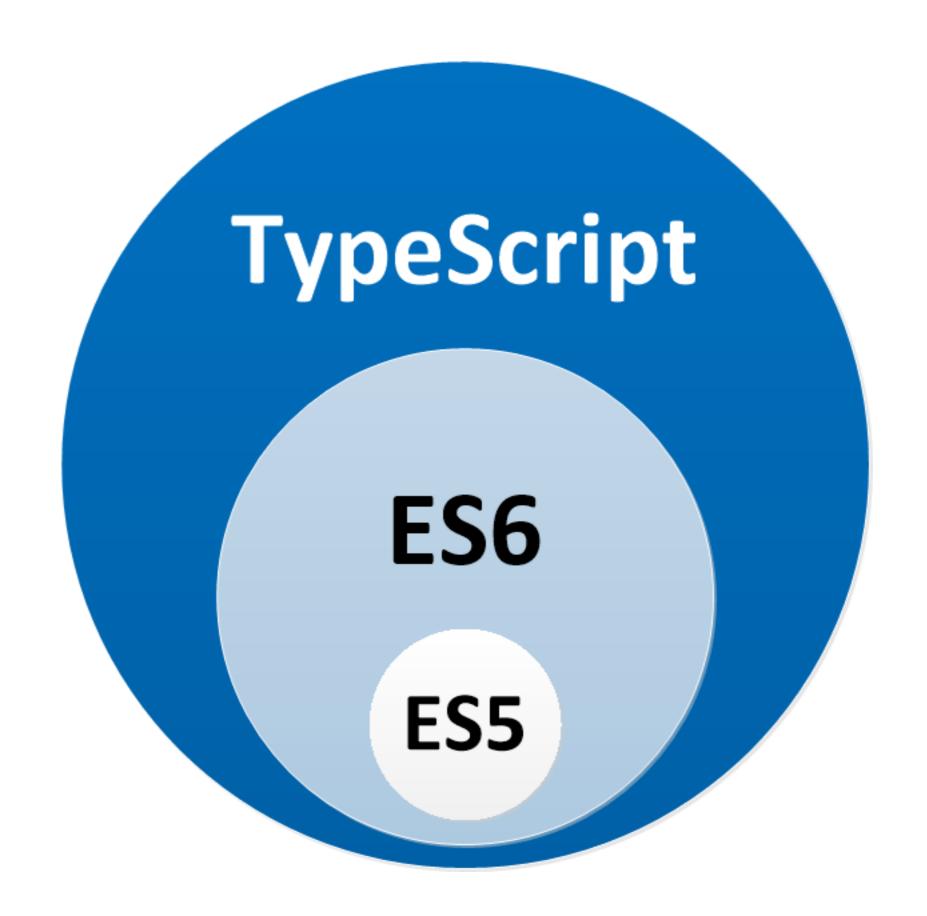
Java is NOT JavaScript









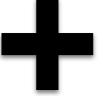




TypeScript













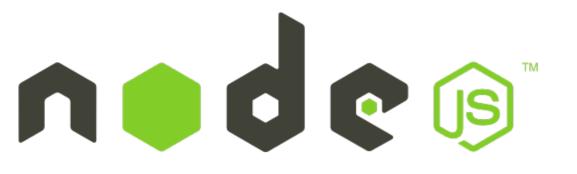


Node Package Modules (NPM)





Imagen: http://ow.ly/M4ZMZ

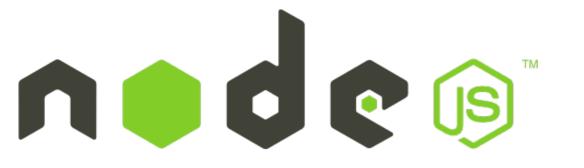






JS

package.json





Variables y Comentarios en TypeScript



Arrays en TypeScript



Objetos y Funciones en TypeScript



Loops y Saltos en TypeScript



OOP en TypeScript



TypeScript

JS

Accesibles en	public	private	protected
Instancias de clases	Sí	No	No
clases	Sí	Sí	Sí
Clases hijas	Sí	No	Sí



Eventos: Document Object Model (DOM)



TypeScript

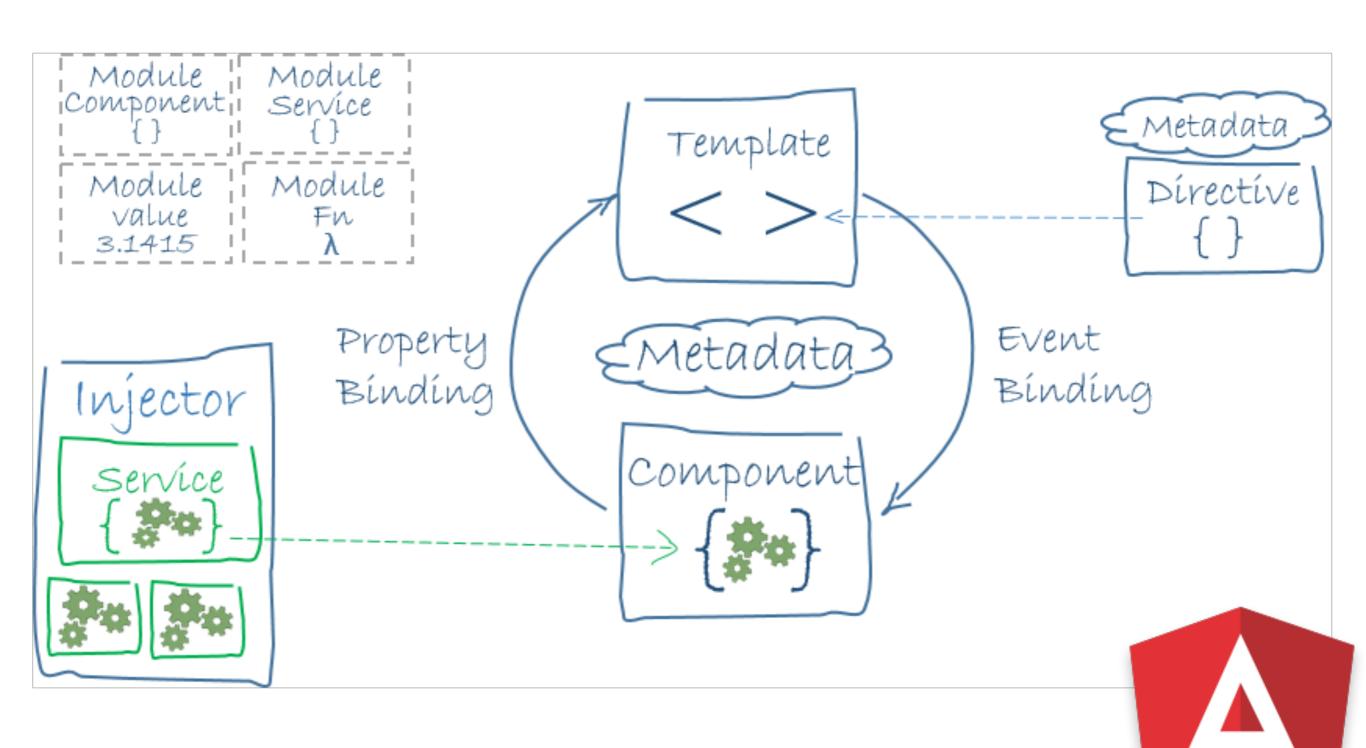


















Module Component {}





app/app.module.ts







app/main.ts

```
import { platformBrowserDynamic } from '@angular/platform-browser-dynamic';
import { AppModule } from './app.module';

platformBrowserDynamic().bootstrapModule(AppModule);
```





Library Module		
Component Directive { }		
Service Value Fn 3.1415 \lambda		





app/app.module.ts (minimal)

```
from '@angular/core';
import { NgModule }
import { BrowserModule } from '@angular/platform-browser'
import
       { AppComponent } from './app.component';
@NgModule({
  imports: [ BrowserModule ],
  declarations: [ AppComponent ],
  bootstrap: [ AppComponent ]
})
export class AppModule { }
```





app/app.component.ts (minimal)

```
import { Component } from '@angular/core';

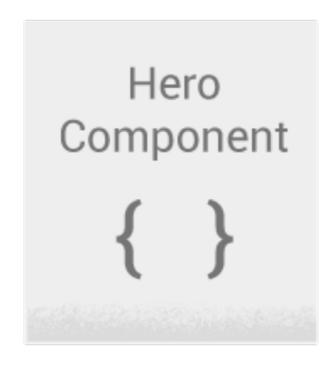
@Component({
   selector: 'my-app',
   template: '<h1>{{title}}</h1>',
})

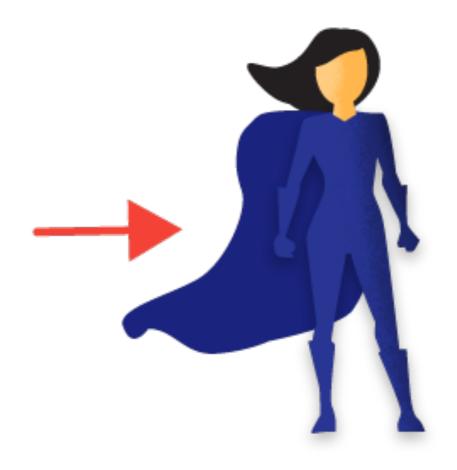
export class AppComponent {
   title = 'Minimal NgModule';
}
```















app/hero-list.component.ts (class)

```
export class HeroListComponent implements OnInit {
  heroes: Hero[];
  selectedHero: Hero;

  constructor(private service: HeroService) { }

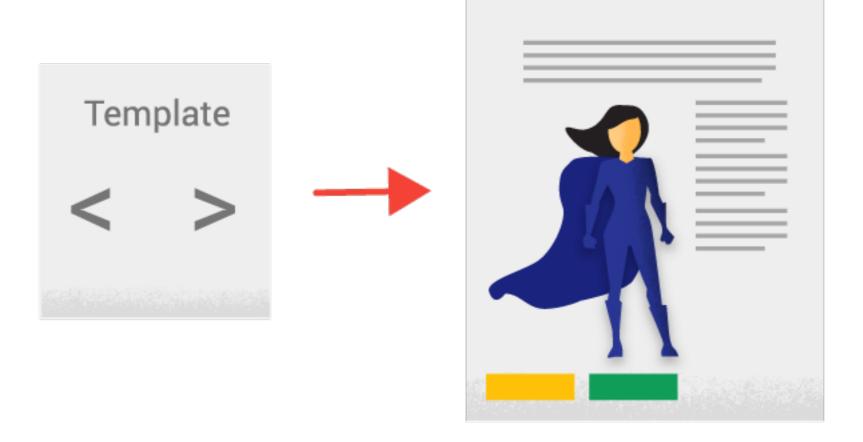
  ngOnInit() {
    this.heroes = this.service.getHeroes();
  }

  selectHero(hero: Hero) { this.selectedHero = hero; }
}
```













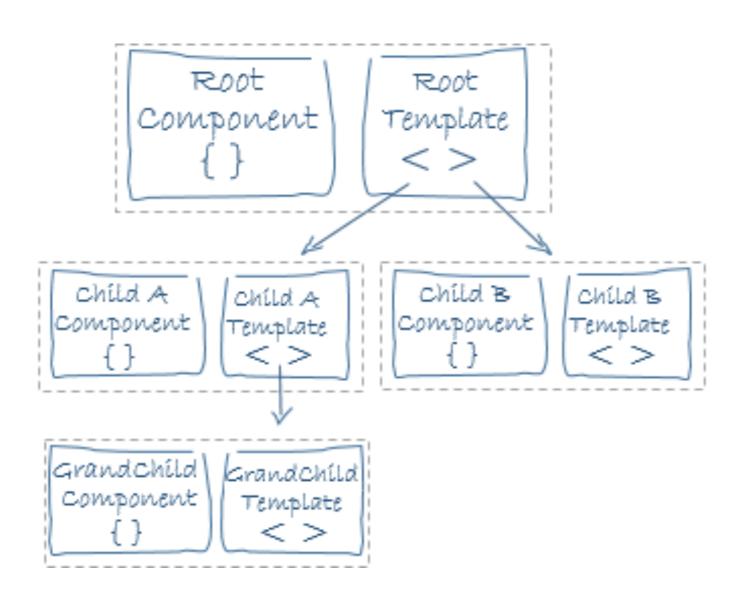
app/hero-list.component.html

```
1. <h2>Hero List</h2>
2.
3. <i>Pick a hero from the list</i>
4. 
5. 
6. {{hero.name}}
7. 
8. 
9. 
10. <hero-detail *ngIf="selectedHero" [hero]="selectedHero"></hero-detail>
```





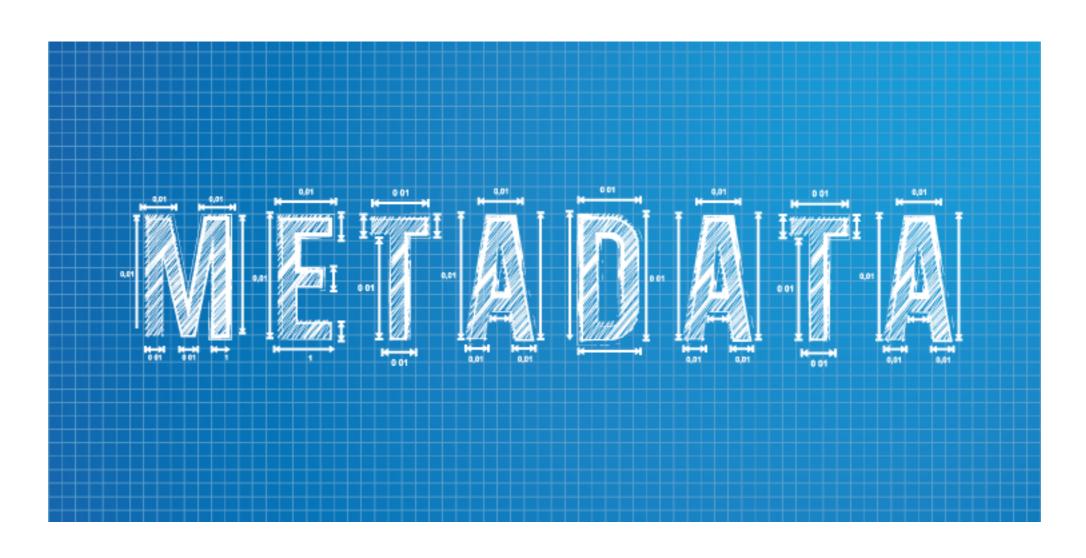








JS







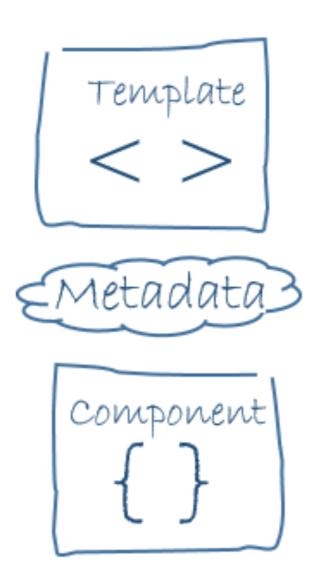
app/hero-list.component.ts (metadata)

```
@Component({
    moduleId: module.id,
    selector: 'hero-list',
    templateUrl: 'hero-list.component.html',
    providers: [ HeroService ]
})
export class HeroListComponent implements OnInit {
/* . . . */
}
```











```
{{value}}
```

[property] = "value"

(event) = "handler"





app/hero-list.component.html (binding)

```
{\li>{\lineq\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\line{\li
```











app/hero-list.component.html (structural)

```
<hero-detail *ngIf="selectedHero"></hero-detail>
```









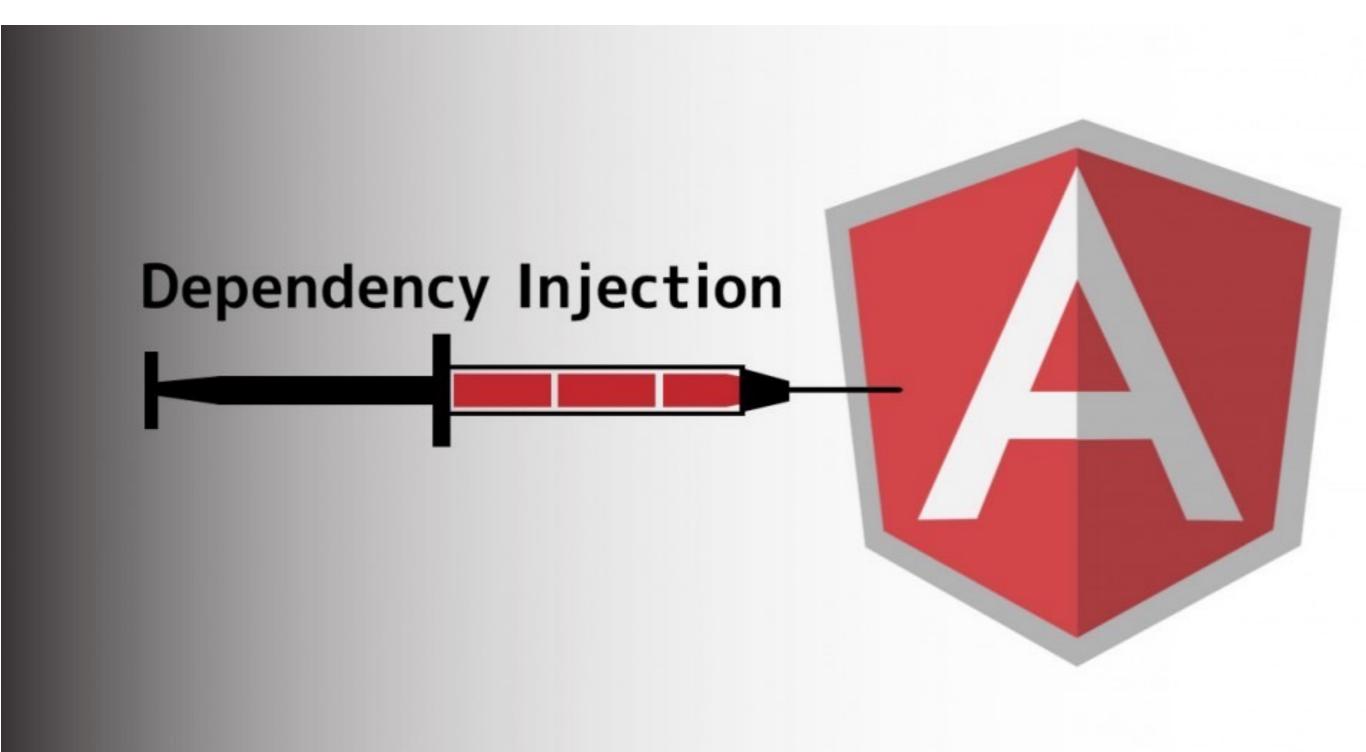




app/hero.service.ts (class)

```
export class HeroService {
  private heroes: Hero[] = [];
  constructor(
    private backend: BackendService,
    private logger: Logger) { }
  getHeroes() {
   this.backend.getAll(Hero).then( (heroes: Hero[]) => {
      this.logger.log(`Fetched ${heroes.length} heroes.`);
      this.heroes.push(...heroes); // fill cache
   });
    return this.heroes;
```

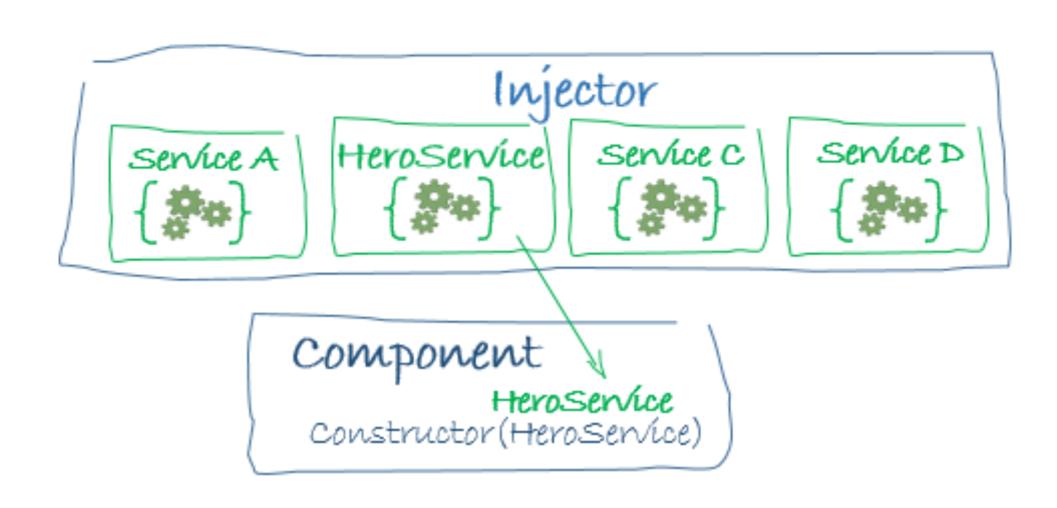


















app/app.module.ts (module providers)

```
providers: [
   BackendService,
   HeroService,
   Logger
],
```





app/hero-list.component.ts (component providers)

```
@Component({
    moduleId: module.id,
    selector: 'hero-list',
    templateUrl: 'hero-list.component.html',
    providers: [ HeroService ]
})
```

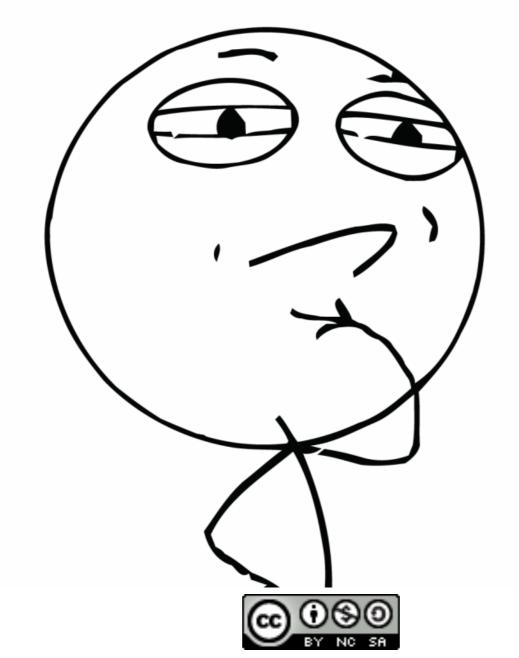




First Application

JS

CHALLENGE CONSIDERED







package.json







tsconfig.json







typings.json







system.config.json







Aplicando Clase de un modelo







Aplicando Clase de un modelo y separando templates







Aplicando Clase de un modelo e iterando

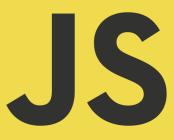






Multiples Componentes







¿Qué es un Mock?



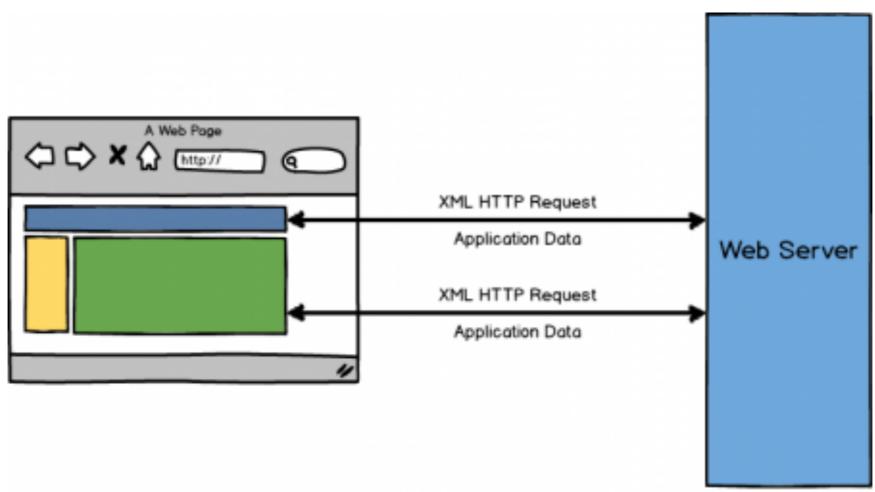




SPI







Single Page Application Elements within a Page



Imagen: https://goo.gl/ANWZWx





Multiples Componentes + mock + routing







Multiples Componentes más mock y routing



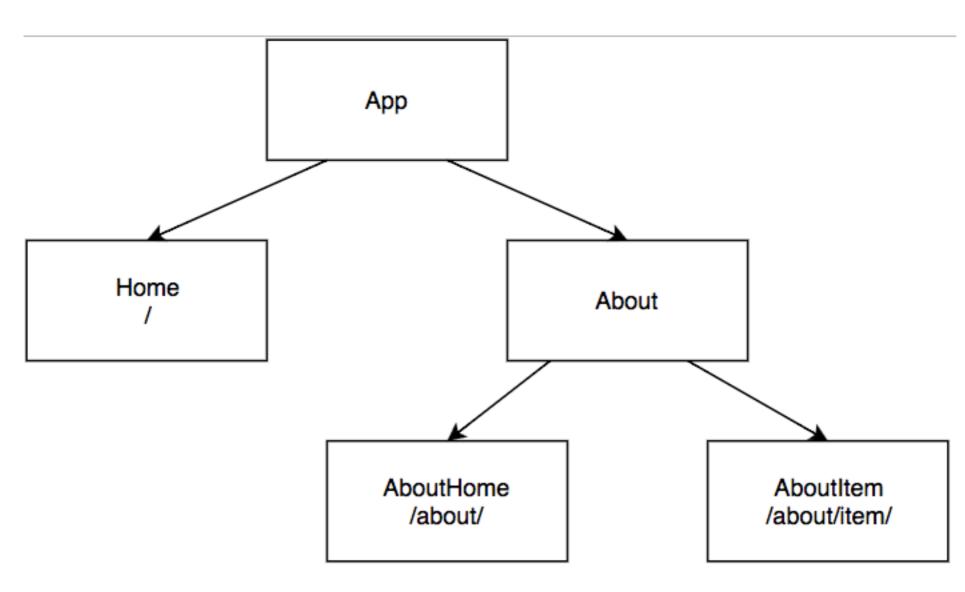


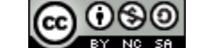


Routing





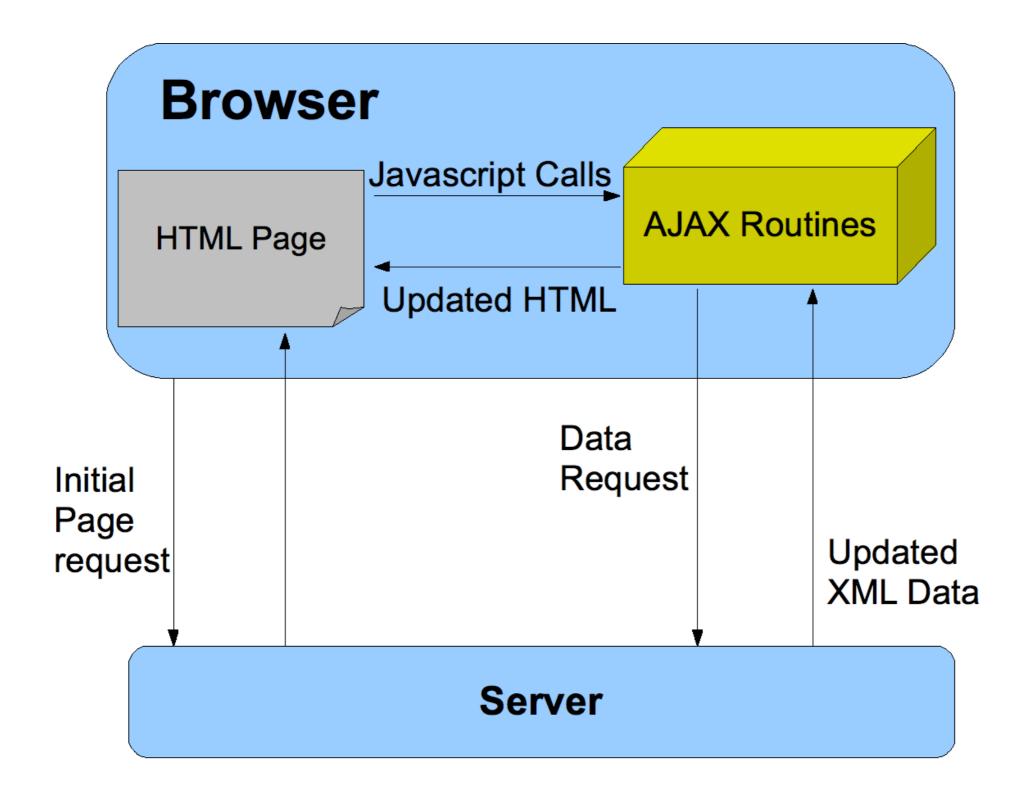








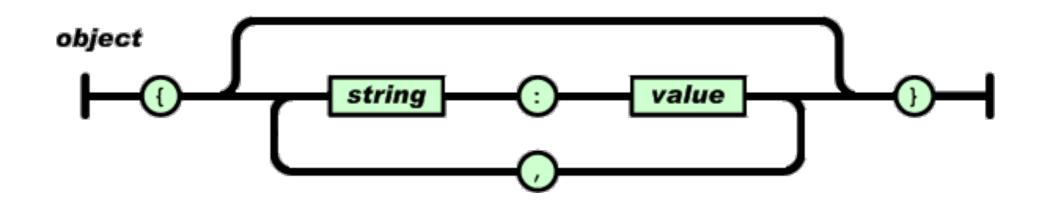




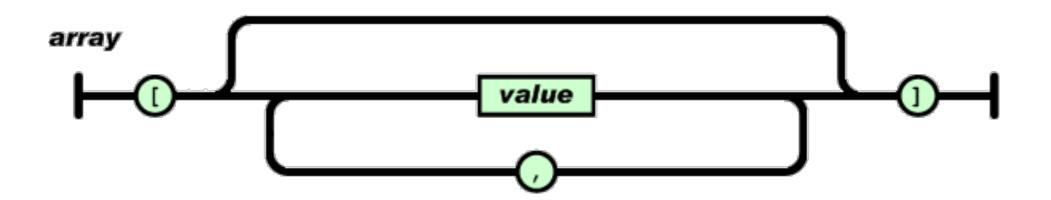




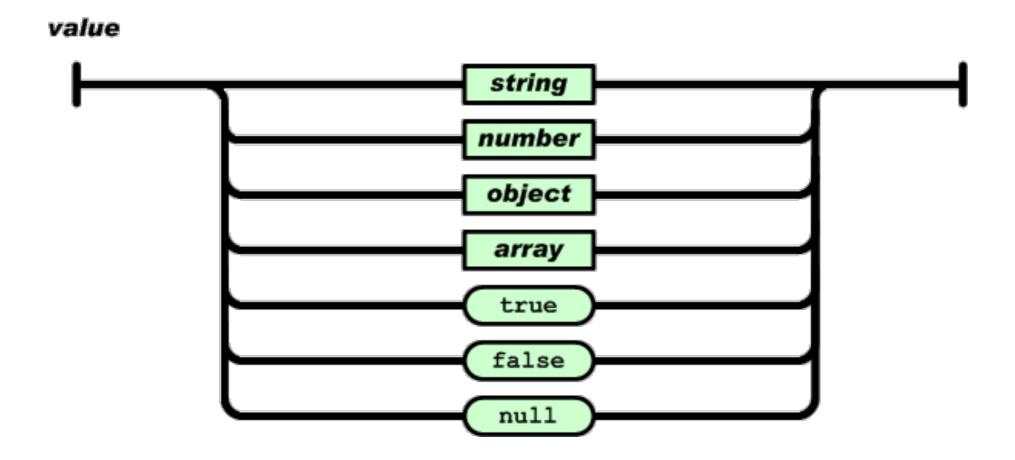














In Memory

Web API





http://

Imagen: https://goo.gl/VmrtBv







Imagen: https://goo.gl/YPu3Qy

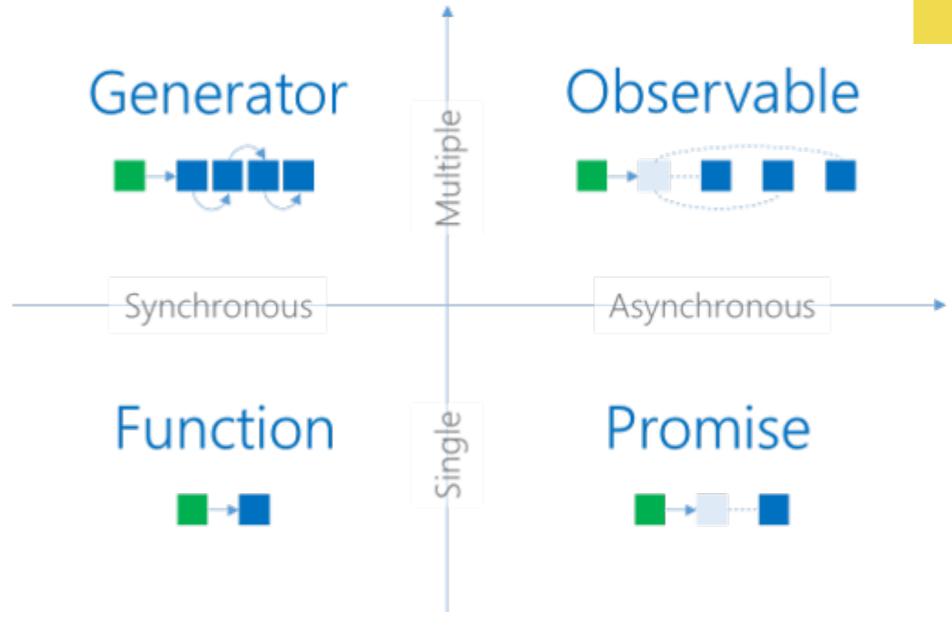


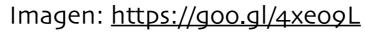


Observables	Promise
Observables handle multiple values over time	Promises are only called once and will return a single value
Observables are cancellable	Promises are not cancellable













i Gracias!

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