ANGULARJS 2 BASIC

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WHAT IS ANGULARJS 2



- ➤ Angular 2 is the next version of Google's massively popular MV* framework for building complex applications in the browser (and beyond).
- ➤ Base on Angular 1, but better, more simple & modern
- ➤ Angular 2 is used to build web app & mobile app (Nativescript)
- ➤ Angular is component/module driven.

ANGULAR 2 CONCEPTS

- ➤ Angular is Functional / Component / Module driven.
- ➤ Routing & AMD (Asynchronous Module Definition)
- ➤ Directive
- ➤ Service & Provider
- Dependency Injection
- ➤ Property binding
- ➤ HTTP & RXJS

COMPONENT BASE DEVELOPMENT



- > separation of concerns
- independence, pluggable, reusable
- > easier for testing, maintenance

MODULE

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

ROUTE & MODULE LAZY LOADING

```
import { NgModule } from '@angular/core';
import { Routes, RouterModule } from '@angular/router';
export const routes: Routes = [
  { path: ", redirectTo: 'contact', pathMatch: 'full'},
  { path: 'crisis', loadChildren: 'app/crisis/crisis.module#CrisisModule' },
  { path: 'heroes', loadChildren: 'app/hero/hero.module#HeroModule' }
@NgModule({
  imports: [RouterModule.forRoot(routes)],
   exports: [RouterModule]
export class AppRoutingModule {}
```

COMPONENT

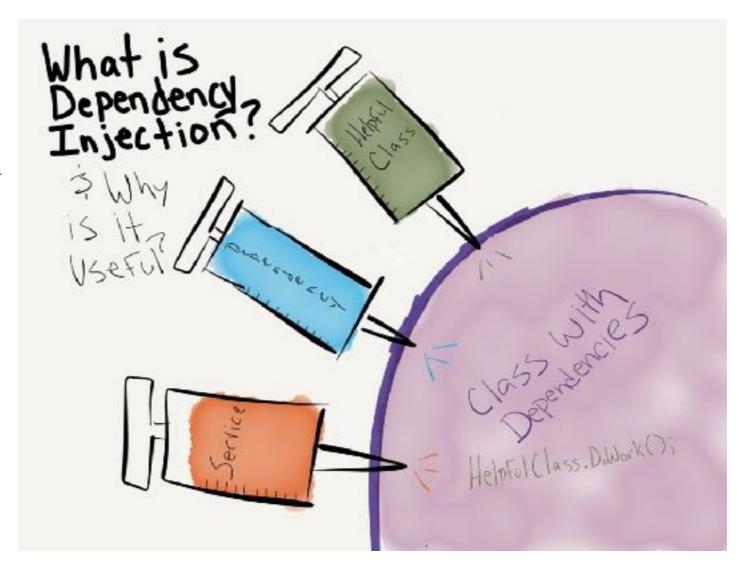
```
import { Component, Input } from '@angular/core';
@Component({
  moduleId: module.id,
  selector: 'app-title',
  templateUrl: 'title.component.html',
export class TitleComponent {
  @Input() subtitle = ";
  title = 'Angular Modules';
```

DIRECTIVE

```
import { Directive, ElementRef, Renderer } from '@angular/core';
@Directive({ selector: '[highlight]' })
/** Highlight the attached element in gold */
export class HighlightDirective {
   constructor(renderer: Renderer, el: ElementRef) {
     renderer.setElementStyle(el.nativeElement, 'backgroundColor', 'gold');
Using directive:
 html: <h1 highlight>some title...</h1>
```

DEPENDENCY INJECTION

dependency injection is a software design pattern that implements inversion of control for resolving dependencies ...



SERVICE & PROVIDER

import {Injectable} from "@angular/core"; @Injectable() export class ContactService { import {ContactService} from "./contact.service"; @NgModule({ providers: [ContactService] export class ContactModule { }

ZONEJS

AngularJS 2 use ZoneJS for property binding.

What is ZoneJS: Implements Zones for JavaScript

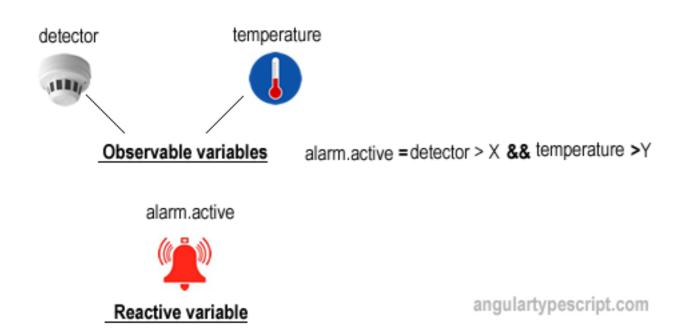
What is Zone: A Zone is an execution context that persists across async tasks. Basically, it will monkey-patching all the async tasks of browser.

What can ZoneJS do: it monkey-patching every async browser API with zone.wrap.

RXJS

- ➤ An API for asynchronous programming
- ➤ with observable streams
- ➤ Base on Observer & Iterator pattern

RXJS Reactive Programming





НТТР

this.heroes = this.searchTerms .debounceTime(300) // wait for 300ms pause in events .distinctUntilChanged() // ignore if next search term is same as previous .switchMap(term => term // switch to new observable each time ? this.heroSearchService.search(term) : Observable.of<Hero[]>([])) .catch(error => { **}):** // Active next flow this.searchTerms.next(term);

THE END THANKS YOU