What are Decorators?

"Decorators are to Classes and Properties what Dragons are to Daenerys"

HBO

Decorators

- Stage 2 proposal for JavaScript
- Experimental feature of TypeScript.
- Functions or Higher Order Function if they accept an Argument.
- Used with @ sign prefixed.
- Angular classes & properties in them are defined by the decorators that sit on them.
- In Angular, almost everything is essentially a class. But these decorators transform them into a module, component, service, pipe or a directive.
- Following are a few commonly used Decorators used in Angular

@NgModule	@Component	@Directive	@Pipe
@Injectable	@Inject	@Input	@Output
@ViewChild	@ViewChildren	@ContentChild	@ContentChildren
@HostListener	@HostBinding		

```typescript
import { NgModule } from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';
import { FormsModule } from '@angular/forms';

import { AppComponent } from './app.component';
import { HelloComponent } from './hello.component';
import { SampleService } from './sample.service';
import { APipe } from './a.pipe';
import { SomeDirective } from './some.directive';

@NgModule({
  imports:      [ BrowserModule, FormsModule ],
  declarations: [ AppComponent, HelloComponent, APipe, SomeDirective ],
  bootstrap:    [ AppComponent ],
  providers: [SampleService]
})
export class AppModule { }
```

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

@Component({
  selector: 'my-app',
  templateUrl: './app.component.html',
  styleUrls: [ './app.component.css' ]
})
export class AppComponent  {
  name = 'Angular';
}
```

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```typescript
import { Directive } from '@angular/core';

@Directive({
  selector: '[appSome]'
})
export class SomeDirective {

  constructor() { }

}
```

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```typescript
import { Pipe, PipeTransform } from '@angular/core';

@Pipe({
  name: 'a'
})
export class APipe implements PipeTransform {

  transform(value: any, args?: any): any {
    return null;
  }

}
```

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```typescript
import { Injectable } from '@angular/core';

@Injectable()
export class SampleService {

  constructor() { }

}
```

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We'll discuss in-depth about Decorators in a later section

Angular Modules and the @NgModule Decorator

Next Video

Credits

Special thanks to all the people who made and released these awesome resources for free:

- Presentation template by SlidesCarnival
- Photographs by Unsplash

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