

Angular 2 Directives: Built-in

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“Code with Passion!”

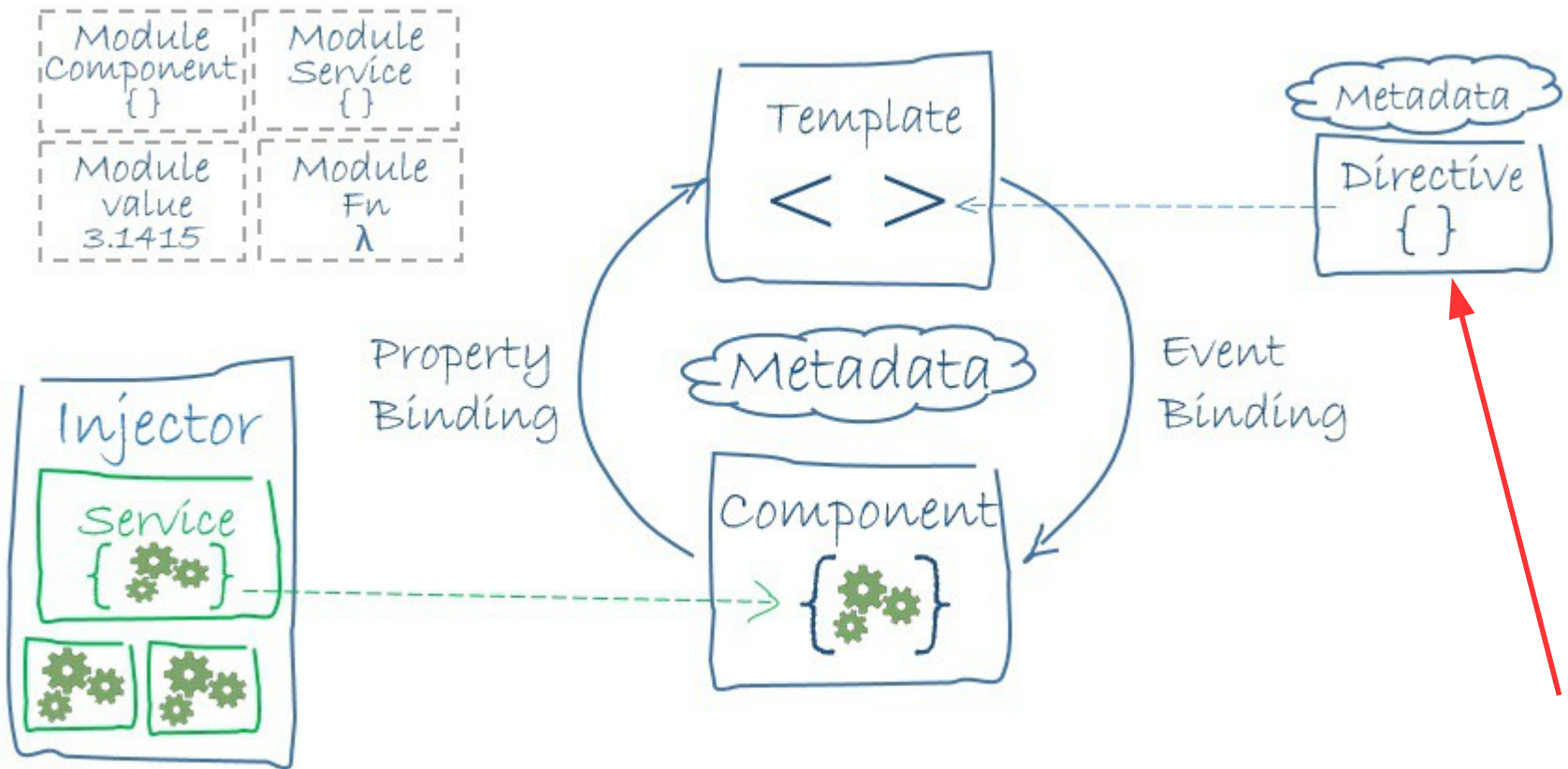


Topics

- What is a directive?
- Attribute directives
 - > `ngClass`, `ngStyle`
- Structural directives
 - > `*ngFor`, `*ngIf`, `ngSwitch` with `*ngSwitchCase`

What is Directive?

Building Blocks of Angular 2 Application



What is a Directive?

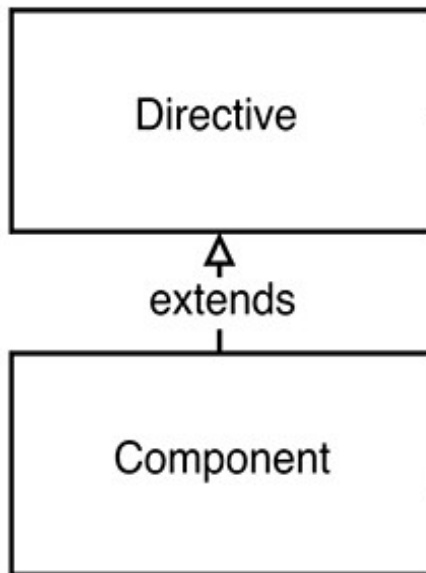
- Angular templates are dynamic
- By using directives, you are instructing Angular to transform DOM dynamically

Two Kinds of Directives

- Attribute directive
 - > Interacts with the element it is applied to
 - > Alters the appearance or behavior of the element
 - > Applied as if they are attributes, hence the name
 - > Examples: `ngClass`, `ngStyle`
- Structural directive
 - > Interacts with the current view container
 - > Alters layout by adding, removing, and replacing elements in DOM
 - > Examples: `*ngFor`, `*ngIf`

Component IS a Directive

- A component is a directive with a template
 - > Directive + Template => Component
- Both are instructions to Angular telling what to do



Attribute Directives

Lab: ngClass



- Use *ngClass* directive – the target of property binding could be a directive (in addition to DOM property or component property)

```
<div [ngClass]="{ border: false, background: true }"></div>
```

- Add styles

```
.border {  
  border: 1px solid blue;  
}  
.background {  
  background-color: green;  
}  
div {  
  width: 50px;  
  height: 50px;  
}
```

Lab: ngClass



- Use ngStyle directive - is used to interpolate javascript object into style attribute, not css class

```
<div [ngStyle]="{'background-color': 'green'}"></div>
```

Structural Directives

*ngFor Directive



- Loop through all items and, in each iteration, assign the current element to a variable called item. Also replicate the element for each iteration
- index is also provided

```
<ul>
```

```
  <li *ngFor="let item of items; let i=index"> {{item}} {{i}} </li>
```

```
</ul>
```

- Apple
- Orange
- Banana

*ngIf Directive



- If switch property is set to true, insert the element, otherwise remove the element

```
<div *ngIf="switch">Display or Hide me</div>
```

ngSwitch and *ngSwitchCase



```
<div [ngSwitch]="switchValue">  
  <p *ngSwitchCase="100">100</p>  
  <p *ngSwitchCase="200">200</p>  
  <p *ngSwitchCase="300">300</p>  
  <p *ngSwitchDefault>default-template</p>  
</div>
```

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