Directives overview

There are three kinds of directives in Angular:

1. Components—directives with a template.
2. Structural directives—change the DOM layout by adding and removing DOM elements.
3. Attribute directives—change the appearance or behavior of an element, component, or another directive.

<p appHighlight>Highlight me!</p>

import { Directive, ElementRef } from '@angular/core';

@Directive({

selector: '[appHighlight]'

})

export class HighlightDirective {

constructor(el: ElementRef) {

el.nativeElement.style.backgroundColor = 'yellow';

}

}

## Respond to user-initiated eventslink

import { Directive, ElementRef, HostListener } from '@angular/core';

@HostListener('mouseenter') onMouseEnter() { this.highlight('yellow'); } @HostListener('mouseleave') onMouseLeave() { this.highlight(null); }

private highlight(color: string) { this.el.nativeElement.style.backgroundColor = color; }

import { Directive, ElementRef, HostListener } from '@angular/core';

@Directive({

selector: '[appHighlight]'

})

export class HighlightDirective {

constructor(private el: ElementRef) { }

@HostListener('mouseenter') onMouseEnter() {

this.highlight('yellow');

}

@HostListener('mouseleave') onMouseLeave() {

this.highlight(null);

}

private highlight(color: string) {

this.el.nativeElement.style.backgroundColor = color;

}

}

app.ts

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

@Component({

selector: 'app-root',

templateUrl: './app.component.html'

})

export class AppComponent {

color: string;

}

app.html

<h1>My First Attribute Directive</h1>

<h4>Pick a highlight color</h4>

<div>

<input type="radio" name="colors" (click)="color='lightgreen'">Green

<input type="radio" name="colors" (click)="color='yellow'">Yellow

<input type="radio" name="colors" (click)="color='cyan'">Cyan

</div>

<p [appHighlight]="color">Highlight me!</p>

<p [appHighlight]="color" defaultColor="violet">

Highlight me too!

</p>

appHighlight.ts

/\* tslint:disable:member-ordering \*/

import { Directive, ElementRef, HostListener, Input } from '@angular/core';

@Directive({

selector: '[appHighlight]'

})

export class HighlightDirective {

constructor(private el: ElementRef) { }

@Input() defaultColor: string;

@Input('appHighlight') highlightColor: string;

@HostListener('mouseenter') onMouseEnter() {

this.highlight(this.highlightColor || this.defaultColor || 'red');

}

@HostListener('mouseleave') onMouseLeave() {

this.highlight(null);

}

private highlight(color: string) {

this.el.nativeElement.style.backgroundColor = color;

}

}

ngIf

<h1>Contact List</h1>

<table>

<thead>

<th>Name</th>

<th>Email</th>

<th \*ngIf="showActions">Actions</th>

</thead>

<tbody>

<tr \*ngFor="let contact of contacts">

<td>

{{contact.name}}

</td>

<td>

{{contact.email}}

</td>

<td \*ngIf="showActions">

<button>Delete</button>

<button>Update</button>

</td>

</tr>

</tbody>

</table>