

## Directives

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#### **∆lmaviv∆**

## Directives

 Components—directives with a template. This type of directive is the most common directive type.

 Attribute directives—directives that change the appearance or behavior of an element, component, or another directive.

 Structural directives—directives that change the DOM layout by adding and removing DOM elements.

### **Attribute Directives**

- NgClass—adds and removes a set of CSS classes.
- NgStyle—adds and removes a set of HTML styles.
- NgModel—adds two-way data binding to an HTML form element.

# NgClass

```
<div [ngClass]="isSelected ? 'isSelected' : 'isNotSelected'"></div>
<div [ngClass]="{'isSelected': isSelected}"></div>
```

```
public currentClasses = {
        saveable: true,
        modified: false,
        isSelected: true
    };

<div [ngClass]="currentClasses"></div>
```

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# NgModel

```
<input MatInput [(ngModel)]="heroName">
<button (click)="saveHero()" >Save</button>
```

```
public heroList: string[] = [];
public heroName: string = '';

public saveHero() {
    this.heroList.push(this.heroName);
    this.heroName = '';
}
```

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

## **Custom Directives**

```
ng g directive
```

```
@Directive({
    selector: '[appHighlight]'
})
export class HighlightDirective {

    constructor(el: ElementRef) {
        el.nativeElement.style.backgroundColor = 'yellow';
     }
}
```



# Custom Directives - Handling user events

```
export class HighlightDirective {
   @Input()
    public color: string = 'yellow';
   @HostListener('mouseenter') onMouseEnter() {
        this.highlight(this.color);
   @HostListener('mouseleave') onMouseLeave() {
        this.highlight('');
    private highlight(color: string) {
        this.element.nativeElement.style.backgroundColor = color;
    constructor(
        private element: ElementRef
    ) { }
```

# Structural Directives

- \*ngIf
- \*ngFor
- \*ngSwitch

## **Custom Directives**

```
export class UnlessDirective {
   @Input() set appUnless(condition: boolean) {
        if (!condition && !this.hasView) {
            this.viewContainer.createEmbeddedView(this.templateRef);
            this.hasView = true;
        } else if (condition && this.hasView) {
            this.viewContainer.clear();
            this.hasView = false;
    private hasView = false;
    constructor(
        private templateRef: TemplateRef<any>,
        private viewContainer: ViewContainerRef
    ) { }
```

```
Show (A).
Show (B).
```