

**** Angular Directives ****

- Allows us to add additional behaviors to elements e.g. components, HTML tags, etc.

*** Types of Angular directives:**

1. Components
2. Attribute directives
3. Structural directives

to create a directive:

new folder ↖ ↗ eg. highlight-completed-todo
> ng g directive directives/<name>
↳ its a directive

*** Components directive:**

A component is technically a directive with a template.

*** Structural Directives:**

Changes the layout by adding & removing DOM elements

Eg:-

1. ***ngIf** → show/hide elements

Eg: `<p *ngIf="isLoggedIn"> Welcome back! </p>`

2. ***ngFor** → loop through a list

Eg. `<li *ngfor="let user of users"> {{ user.name }} `

3. ***ngSwitchCase/*ngSwitchDefault** → switch-case logic

Eg. `<div [ngSwitch]="role">
 <p *ngSwitchCase="'admin'"> Admin Panel </p>
 <p *ngSwitchDefault> Guest Access </p>
</div>`

*** Attribute Directives:**

Change the appearance or behavior of an element

Built-in Eg:-

1. **ngClass** → apply classes dynamically

Eg: `<p [ngClass]="{'highlight': isImportant}"> Hello </p>`

2. **ngStyle** → apply styles dynamically

Eg: `<p [ngStyle]="{'color': isImportant ? 'red' : 'black'}">
 Hello </p>`

3. **[(ngModel)]** → two way data binding

Eg: `<input [(ngModel)]="username">`

Custom eg:

In the .directive.ts file

```
@Directive({  
  selector: '[appHighlight]'  
})  
export class HighlightDirective {  
  constructor(private el: ElementRef) {  
    el.nativeElement.style.backgroundColor = 'red';  
  }  
}
```

to call in the .html file

`<p appHighlight> Highlight text </p>`