

## #angular : What are Directives?

- Directives are instructions in the DOM.
- They allow us to manipulate the DOM or alter the appearance and behavior of the HTML element.

There are different ways, we can categorize directives:

e.g.

- Built-in directives
- Custom directives

e.g.

- Components - These are directives with an associated template.
- Structural directives - These add or remove elements from DOM. e.g. `ngIf`, `ngFor`, `ngSwitch`
- Attribute directives - These modify the appearance or define a custom behavior of a DOM element. e.g. `ngStyle`, `ngClass`

following command is used to create directive:

*ng generate directive name-of-directive*

or

*ng g d name-of-directive*

Yes, we can also create our own customized Directives.

**How custom directive looks like in general:**

```
@Directive(  
  selector: '[appTurnGreen]'  
)  
export class TurnGreenDirective{  
  ...  
}
```

Now we can use above directive in our HTML file:

```
<div appTurnGreen>App Container</div>
```

use cases:

### 1. Displaying data conditionally

```
<p *ngIf="name === 'Boothstomper'; else noHero">{{name}} hero works!</p>
<ng-template #noHero>
  <p>Hero was not found</p>
</ng-template>
```

- The ngIf directive adds or removes an HTML element in the DOM, based on the evaluation of an expression.
- You have probably noticed the asterisk, \*, that prepends ngIf. Structural directives have such an asterisk. It is syntactic sugar that acts as a shortcut for a more complicated syntax.
- The else statement refers to a noHero variable that is activated if the condition of the ngIf directive is not satisfied.
- The noHero variable is a template reference variable

### 2. Iterating through data

```
<ul>
  <li *ngFor="let hero of heroes">
    {{hero.name}}
  </li>
</ul>
```

- The ngFor directive allows us to loop over a collection of items and render a template for each one.
- We turn each object fetched from the heroes array into a hero local reference so that we can easily bind the name property in our template using interpolation.

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