

# Angular Data Binding

# Data Binding

# Module Objectives

**At the end of this module, you should be able to:**

- Understand what is data binding in Angular
- Understand the different types of data binding



# Topic List

#No	Module Topics
1	Data Binding in Angular
2	Types of Data Binding
3	Activity on Data Binding



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# Data Binding in Angular

## What is Data Binding?

Data binding in Angular apps allows the automatic synchronization of data between the model and view .

- Helps to define the interaction between the DOM template and the components
- Different types of data bindings can be implemented between the UI and the models
- Supports across all the Angular versions



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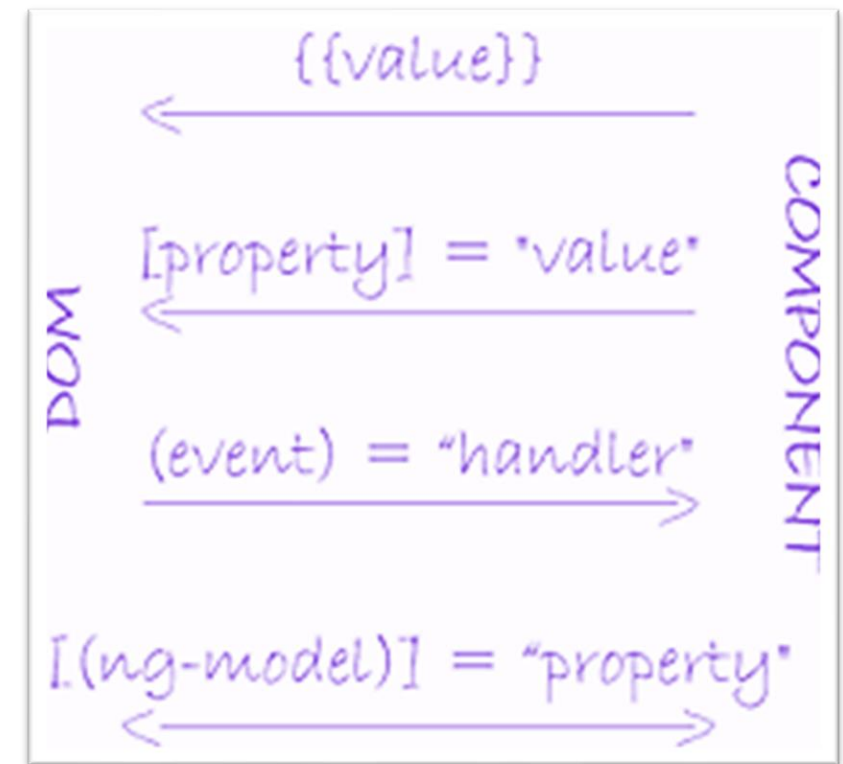


# Types of Data Binding

## What is Data Binding?

The Data binding in Angular can be implemented in 4 ways.

Data Binding	Description
Interpolation Binding	Component to View
Property Binding	Component to View
Event Binding	View to Component
Two-way Data Binding	Bi- directional. From Component to View and from view to component

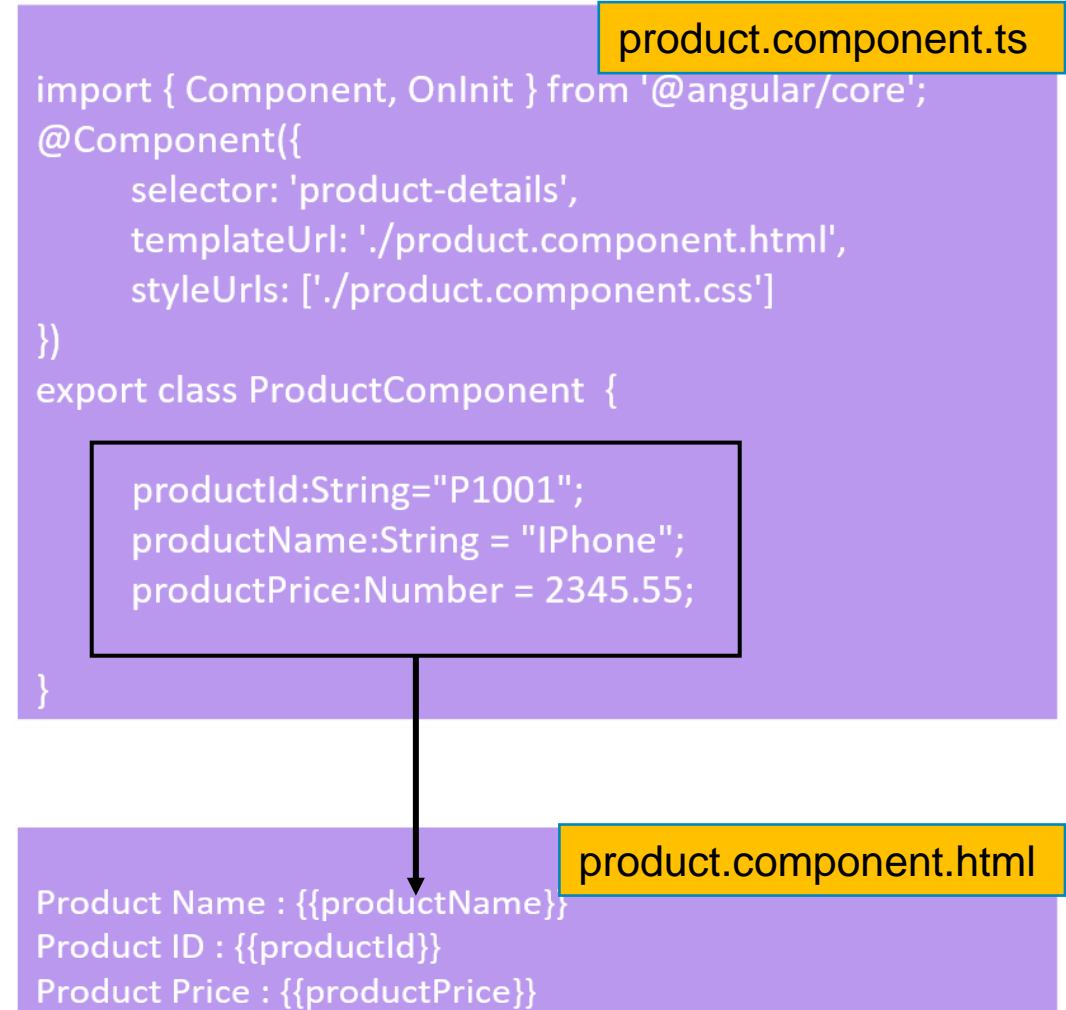




# Types of Data Binding

## Interpolation Data Binding

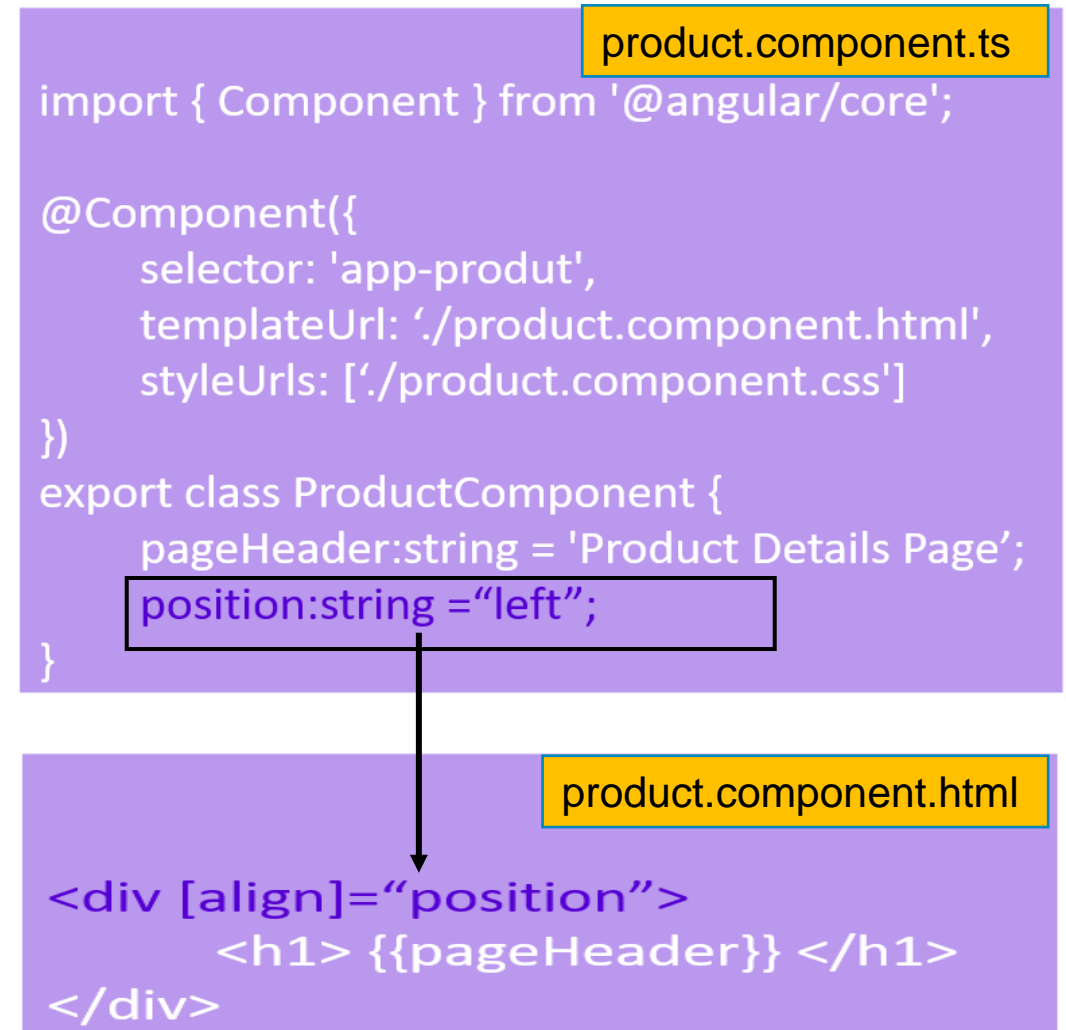
- One way binding from a Component class property to an element.
- Use curly brackets {{ }} to represent for template expression.
  - Example: {{propertyName}}



# Types of Data Binding

## Property Binding

- Property binding is another way of one-way data binding from Component to View Template
- Use square brackets [] for the property and assign the component's property to it
  - Example: `<div [align]="position">`  
`</div>`



# Types of Data Binding

## Event Binding

- One way binding from a DOM element to a Component
- Components listen to user actions using event Binding
- Use method brackets () to represent the event binding.
  - Example: `<button (click) = "onClicked()">`  
`</button>`

product.component.ts

```
import { Component, OnInit } from '@angular/core';

@Component({
  selector: 'app-event-binding',
  templateUrl: './event-binding.component.html'
})
export class EventBindingComponent {
  onClicked = function() {
    alert('Button Clicked !!');
  };
}
```

product.component.html

```
<p>
  <button (click)="onClicked()">
    Click Me
  </button>
</p>
```

# Types of Data Binding

## Two way Data Binding

- Two Way data binding is the ability to flow data in both direction
- Allows data to flow from component to View Template and from View template to Component
- Use [()] representation for the input elements in the view template

Output is

Name :   
You entered : Accenture Bangalore

product.component.ts

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

@Component({
  selector: 'app-root',
  templateUrl: './app.component.html',
  styleUrls: ['./app.component.css']
})
export class AppComponent {
  companyName:string="Accenture";
}
```

product.component.html

```
Company Name : <input [(ngModel)]=companyName'>
<br>
You entered : {{Name}}
```



# Topic List

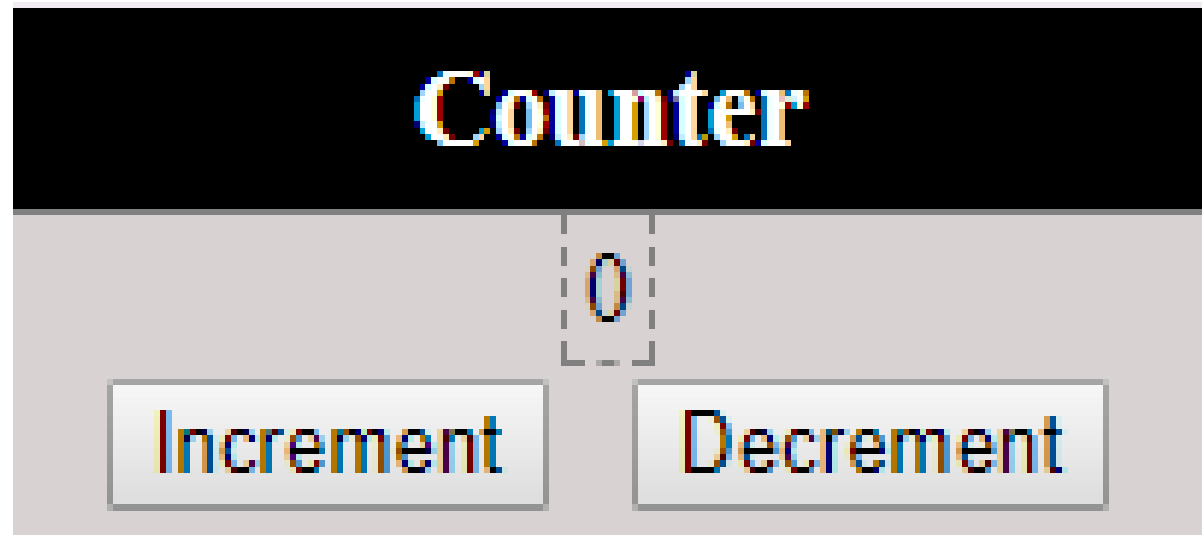
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# Activity on Data Binding

# Activity 1

Complete an activity on Data Binding

Refer the Hands On Workbook :  
[LKM\\_MEAN\\_Angular\\_Directives\\_HONWorkbook.docx](#)



# Module Summary

**Now, you should be able to:**

- Understand what is data binding in Angular
- Understand the different types of data binding





# Reference

Heading	Description
Data Binding	<a href="#">Link</a>

# Thank You

