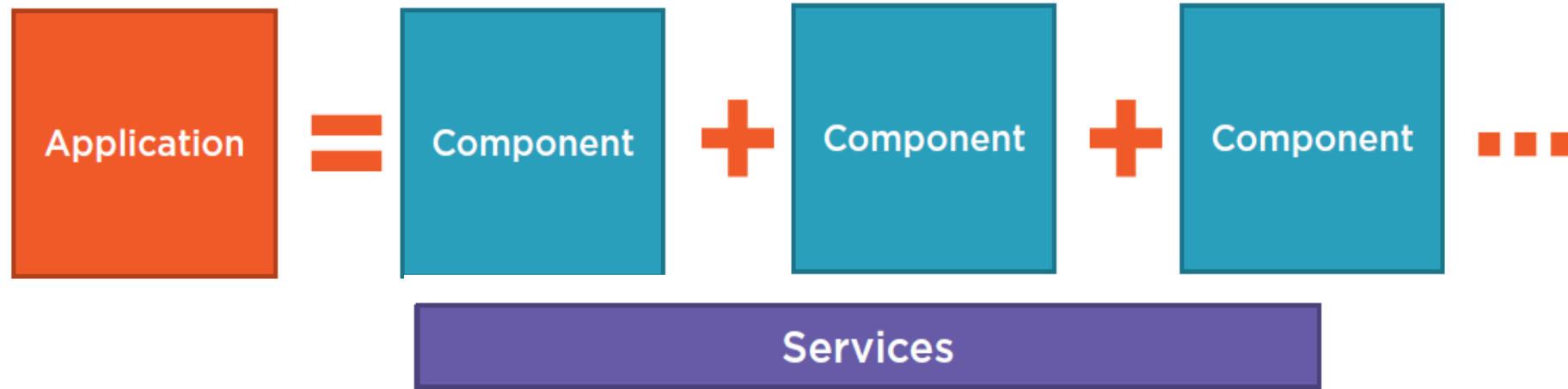


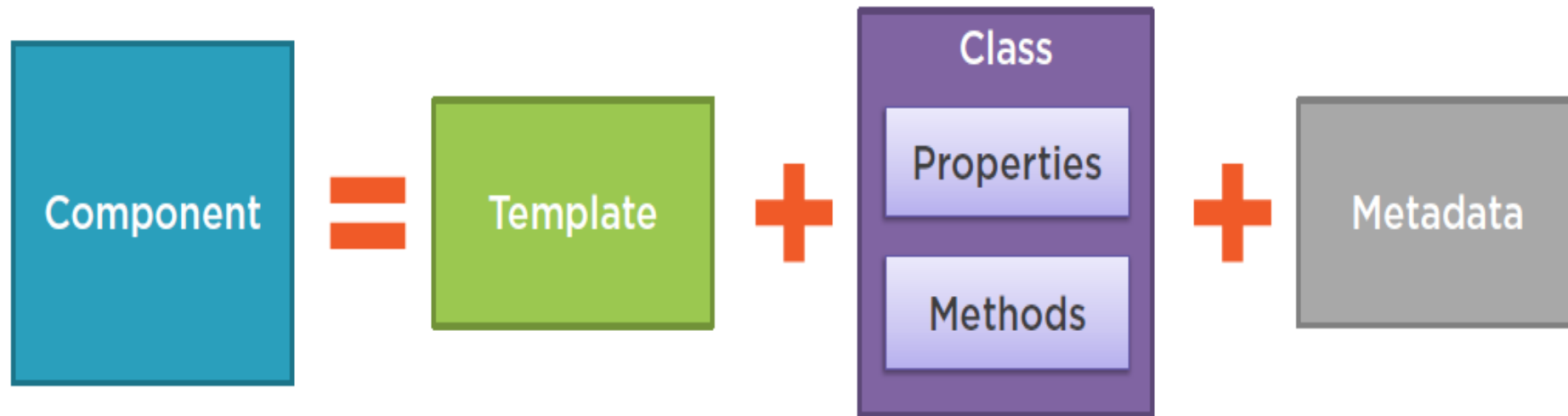


Angular :Components & Data Binding

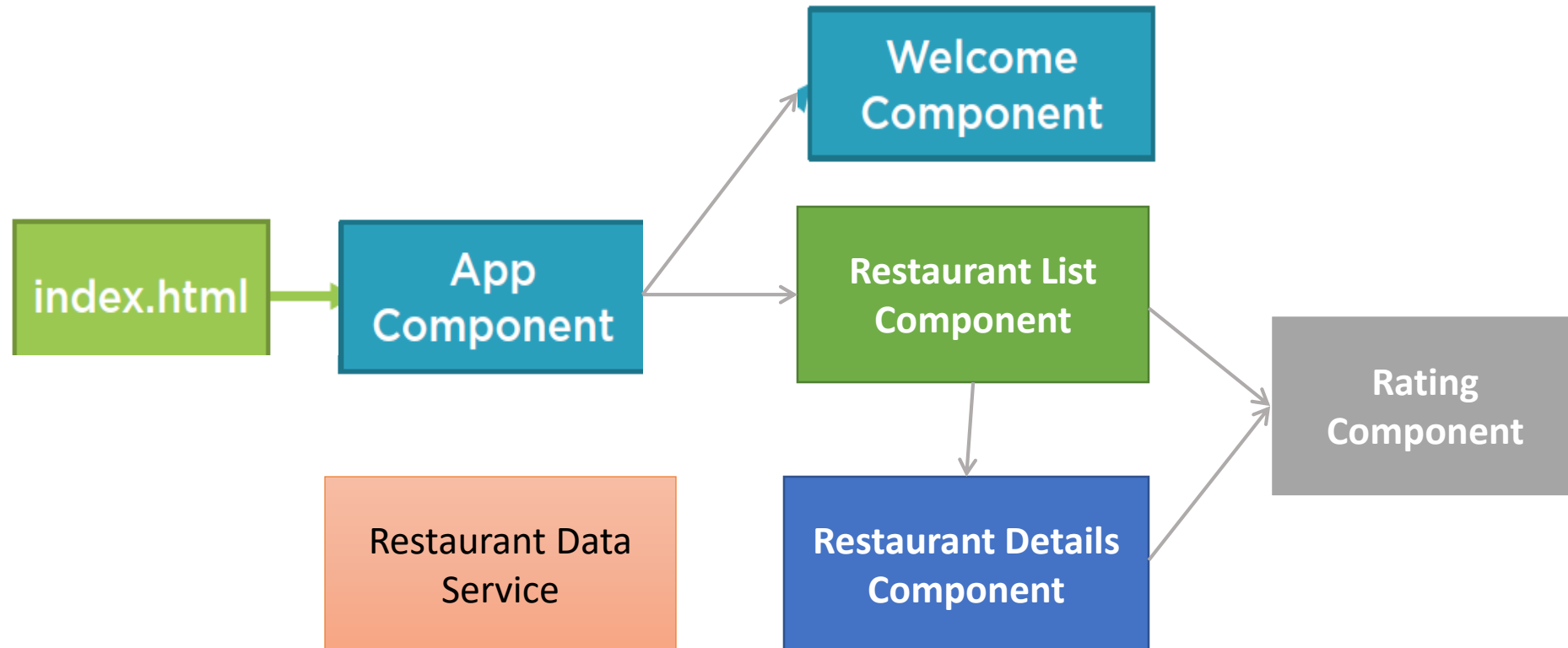
- ☐ Able to define Components
- ☐ Able to apply Templates
- ☐ Able to apply Data Binding

Big picture of Angular App



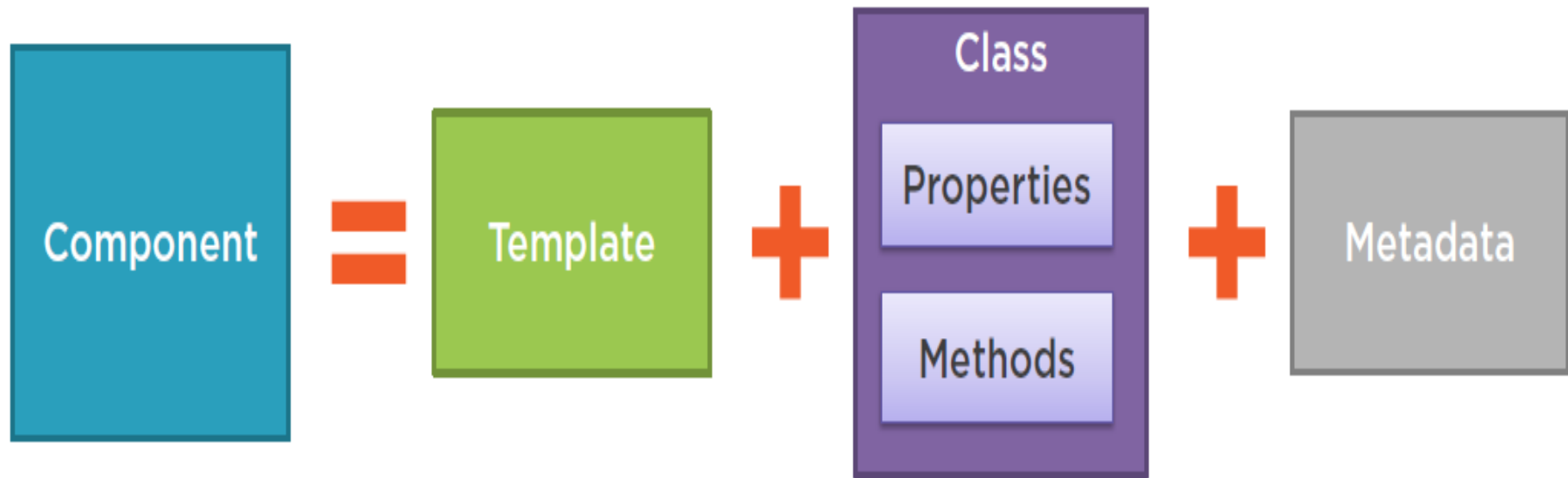


Sample Application Architecture





What is Component ?

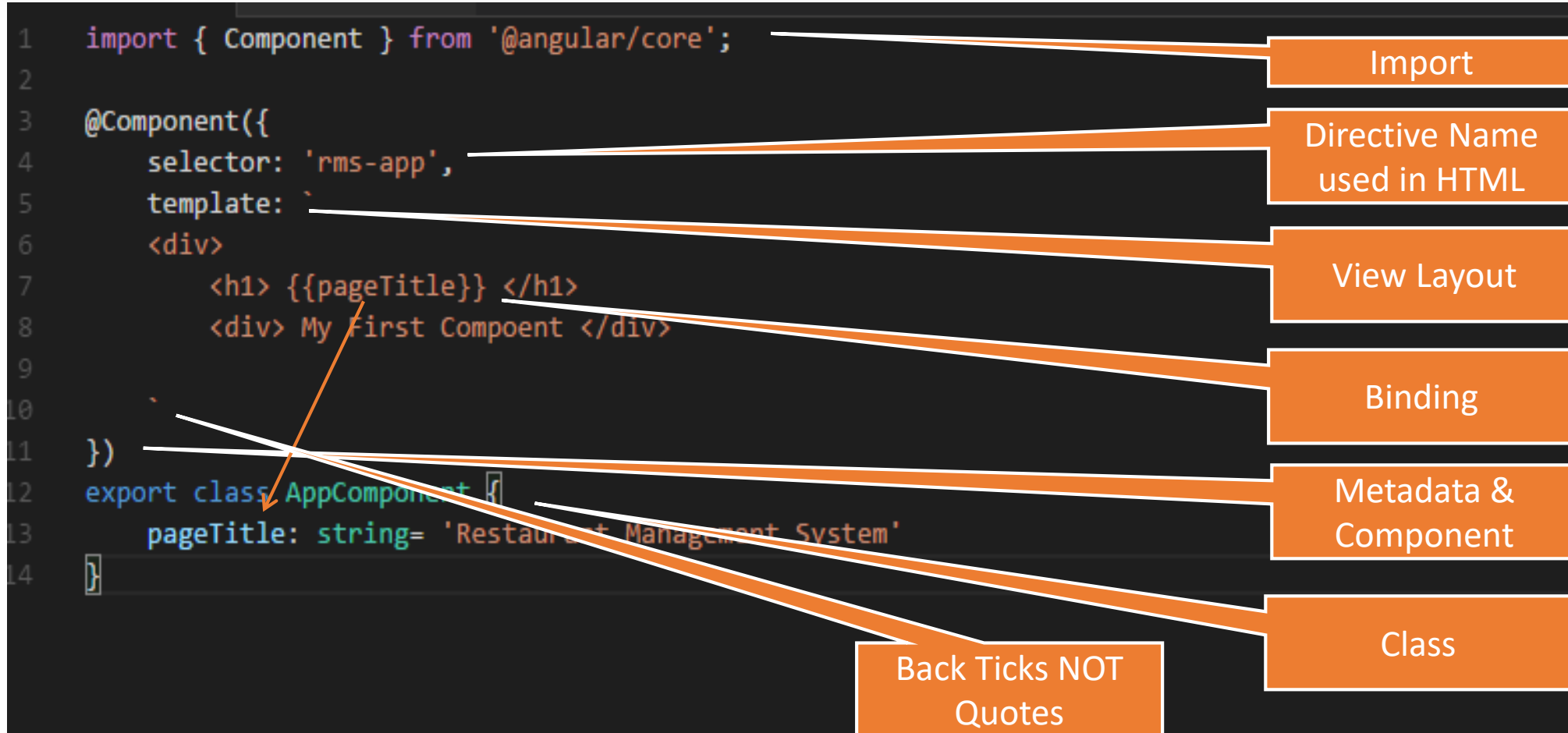


- View layout
- Created with HTML
- Includes binding and directives

- Code supporting the view
- Created with TypeScript
- Properties: data
- Methods: logic

- Extra data for Angular
- Defined with a decorator

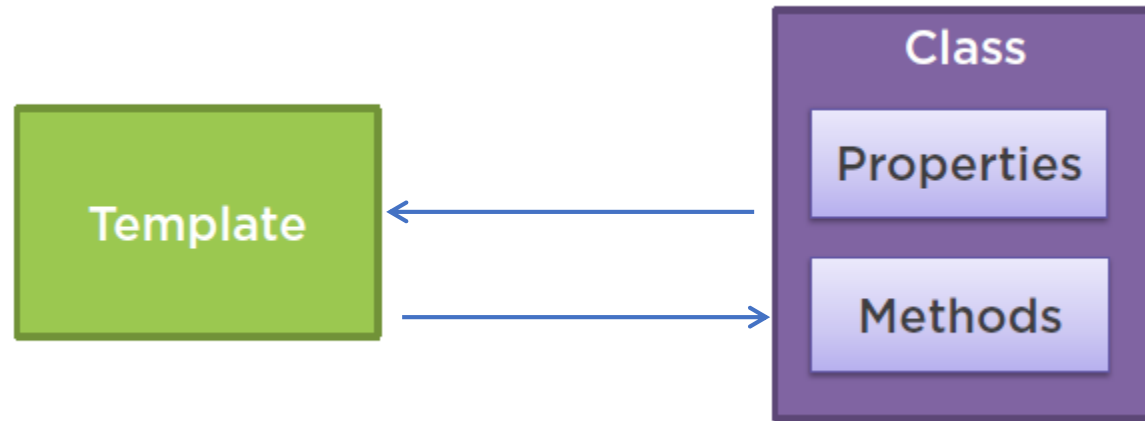
What is Component ?





- ❑ A function that adds metadata to a class, its members, or its method arguments.
- ❑ Prefixed with an @.
- ❑ Angular provides built-in decorators.
- ❑ @Component()

- ❑ Coordinates communication between the component's class and its template and often involves passing data.



Template

```
template.  
  <div>  
    <h1> {{ pageTitle }} </h1>  
  
    <rms-restaurants></rms-restaurants>  
  </div>  
  )
```

```
<h1> {{ pageTitle }} </h1>  
{{ 'title' + pageTitle }}  
{{ 2*20 +1 }}  
{{ 'Title :' + getTitle() }}  
<h1 innerText={{pageTitle}}>  
  <rms-restaurants></rms-restaurants>  
</div>
```

Class

```
export class AppComponent{  
  pageTitle: string= "Restaurant Management System App"  
}
```

```
body>  
<tr *ngFor='let restaurant of restaurants'>  
  <td>  
    <img [src]='restaurant.imageUrl' />  
  </td>  
</tr>
```

```
<img src={{restaurant.imageUrl}}></img>  
</td>
```

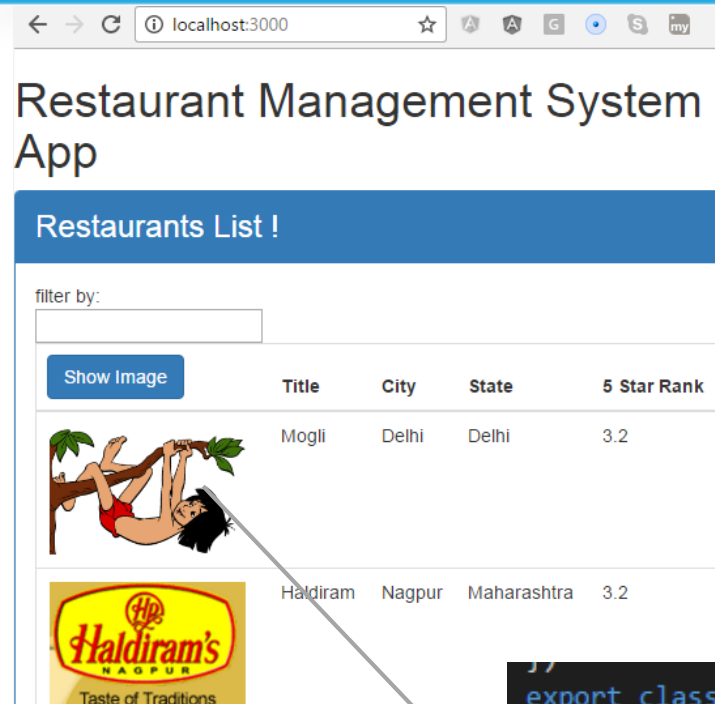
Element
Property

Template
Expression

[]
Binding Target

“ ”
Binding Source

Property Binding



```
<td>  
  <img [src]='restaurant.imageUrl'  
    [title]='restaurant.restaurantTitle'  
    [style.width.px]='imageWidth'  
    [style.margin.px]='imageMargin'  
  />  
</td>
```

```
export class RestaurantListComponent{  
  pageTitle:string ="Restaurants List !";  
  imageWidth:number=150;  
  imageMargin:number=2;  
  restaurants: any[] = [  
    {  
      "restaurantId": 1,  
      "restaurantTitle": "Mogli",  
      "restaurantCity": "Delhi",  
      "restaurantState": "Delhi",  
      "starRating": 3.2,  
      "imageUrl": "https://www.disneyclips.com/imagesnewb/images/clipmowglibranch.gif"  
    },  
  ],  
}
```

Template

```
<button class="btn btn-primary"
(click)='toggleImage()'>
  {{ (showImage ? 'Hide' : 'Show' ) }} Image
</button>
/th>
```

Class

```
export class RestaurantListComponent{
  pageTitle:string ="Restaurants List !";
  imageWidth:number=150;
  imageMargin:number=2;
  showImage: boolean = false;
  restaurants: any[] = [ ...
];

toggleImage() : void{
  this.showImage= !this.showImage;
}
}
```

<https://developer.mozilla.org/en-US/docs/web/events>

Restaurants List !

filter by:



Show Image

Title	City	State	5 Star Rank
Mogli	Delhi	Delhi	3.2
Haldiram	Nagpur	Maharashtra	3.2

Restaurants List !

filter by:

Hide Image

	Title	City	State	5 Star
	Mogli	Delhi	Delhi	3.2
	Haldiram	Nagpur	Maharashtra	3.2

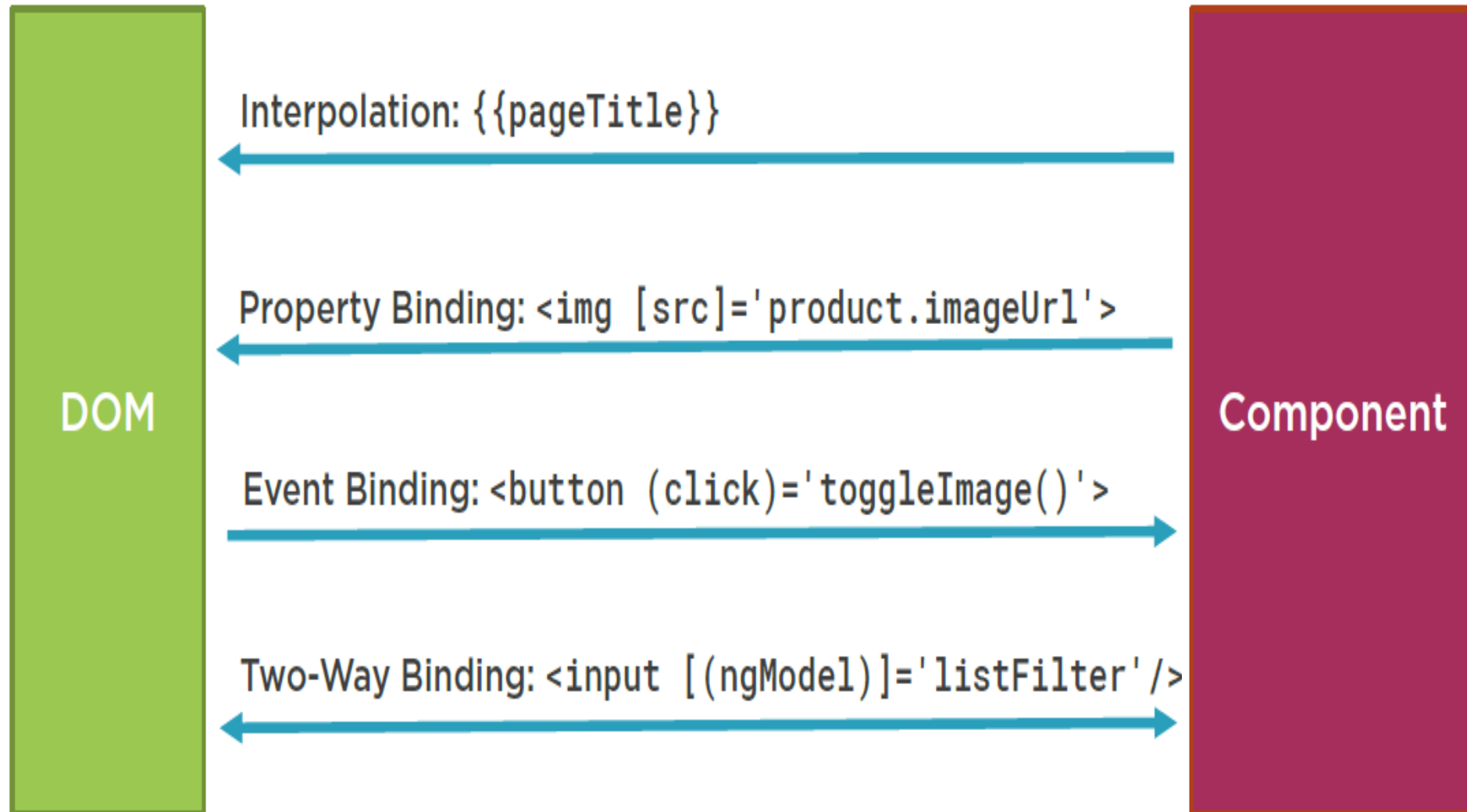
Two –way Binding



[()]
Banana In a Box

```

1  import { NgModule } from '@angular/core'
2  import { BrowserModule } from '@angular/platform-browser'
3  import { AppComponent } from './app.component'
4  import { RestaurantComponent } from './restaurants/restaurants-list.component'
5  import { FormsModule } from '@angular/forms'
6
7  @NgModule({
8    imports: [BrowserModule, FormsModule],
9    declarations: [AppComponent, RestaurantComponent],
10    bootstrap: [AppComponent]
11  })
12  export class AppModule{
13
14  }
```





Infogain Corporation, HQ

485 Alberto Way Los Gatos,
CA 95032 USA
Phone: 408-355-6000
Fax: 408-355-7000

Pune

7th Floor, Bhalerao Towers, CTS No.1669 -
1670, Behind Hotel Pride,
Shivaji Nagar, Pune - 411005
Phone : +91-20-66236700

Infogain Irvine

41 Corporate Park,
Suite 390 Irvine, CA 2606 USA
Phone: 949-223-5100
Fax: 949-223-5110

Infogain Austin

Stratum Executive Center Building D
11044 Research Boulevard Suite 200
Austin, Texas 78759

Noida

A-16, Sector 60, Noida Gautam Budh agar,
201301 (U.P.) India
Phone: +91-120-2445144
Fax: +91-120-2580406

Dubai

P O Box 500588 Office No.105,
Building No. 4, Dubai Outsource Zone,
Dubai, United Arab Emirates
Tel: +971-4-458-7336