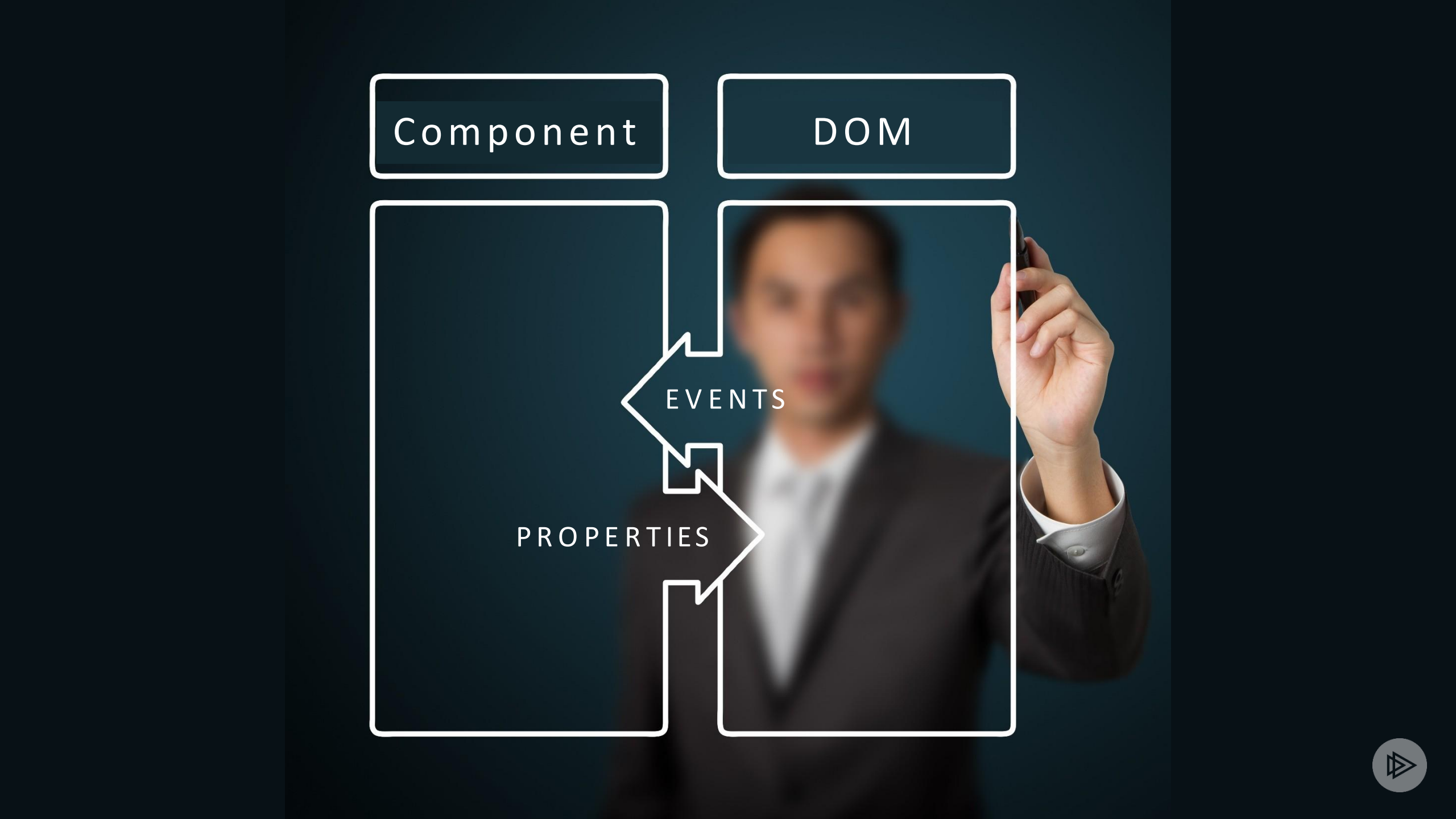

Component
DOM
EVENTS
PROPERTIES

Module Overview

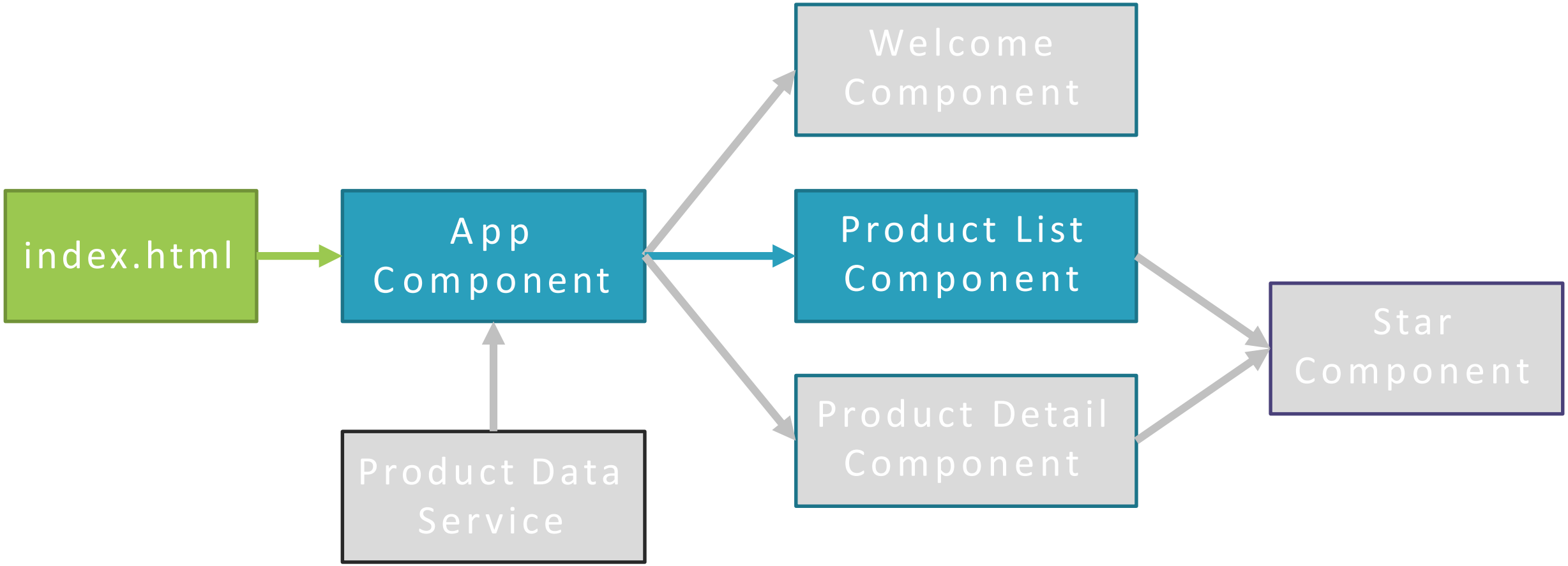
Property Binding

Handling Events with Event Binding

Handling Input with Two-way Binding

Transforming Data with Pipes

Application Architecture



Property Binding

```
<img [src]='product.imageUrl'>

<img src={{product.imageUrl}}>
```

Element Property

penc

Template Expression

```
t.imageUrl}}'>
```

Event Binding

Template

Class

```
<h1>{{pageTitle}}</h1>
<img [src]='product.imageUrl'>
<button (click)='toggleImage()'>
```

```
export class ListComponent {
```

https://developer.mozilla.org/en-US/docs/Web/Events

( )
Target Event

' '
Template
Statement

Two-way Binding

Template

Class

```
<input [(ngModel)]='listFilter'>
```

```
export class ListComponent {
 listFilter: string = 'cart';
}
```

Two-way Binding

Template

Class

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Two-way Binding

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Class

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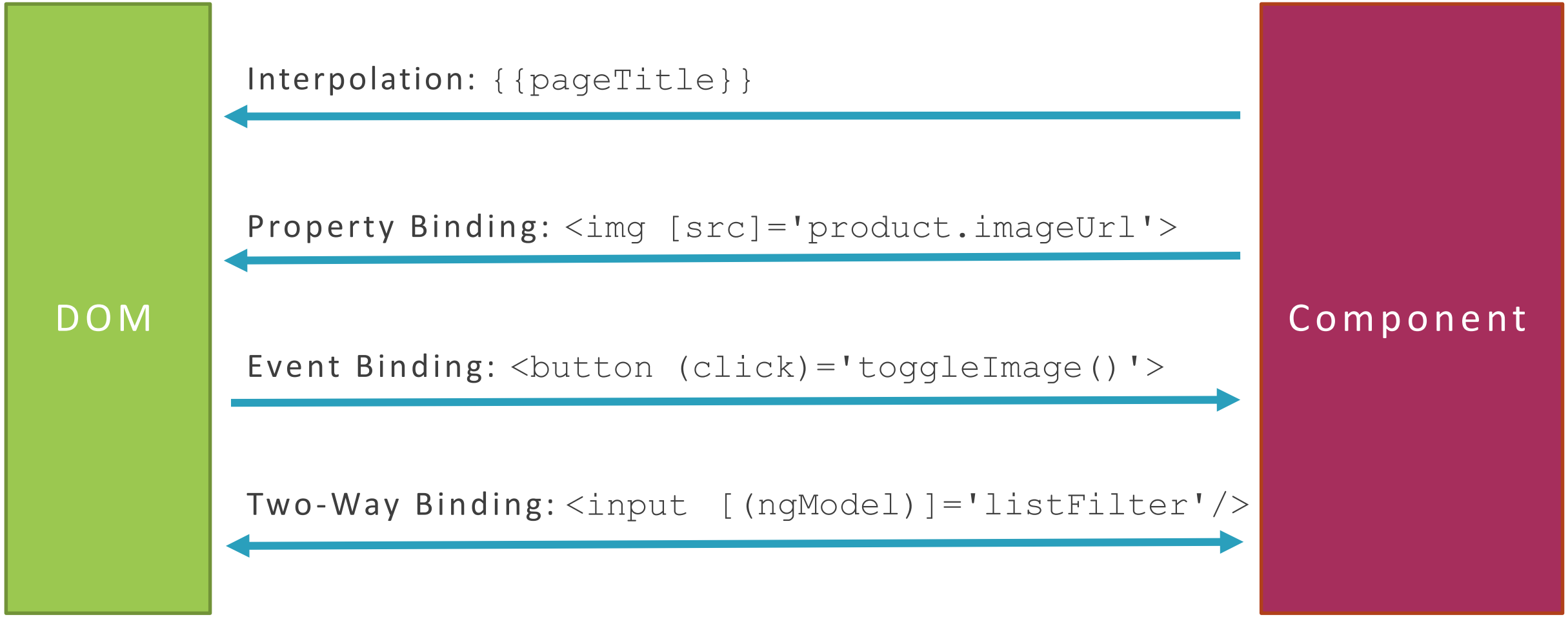
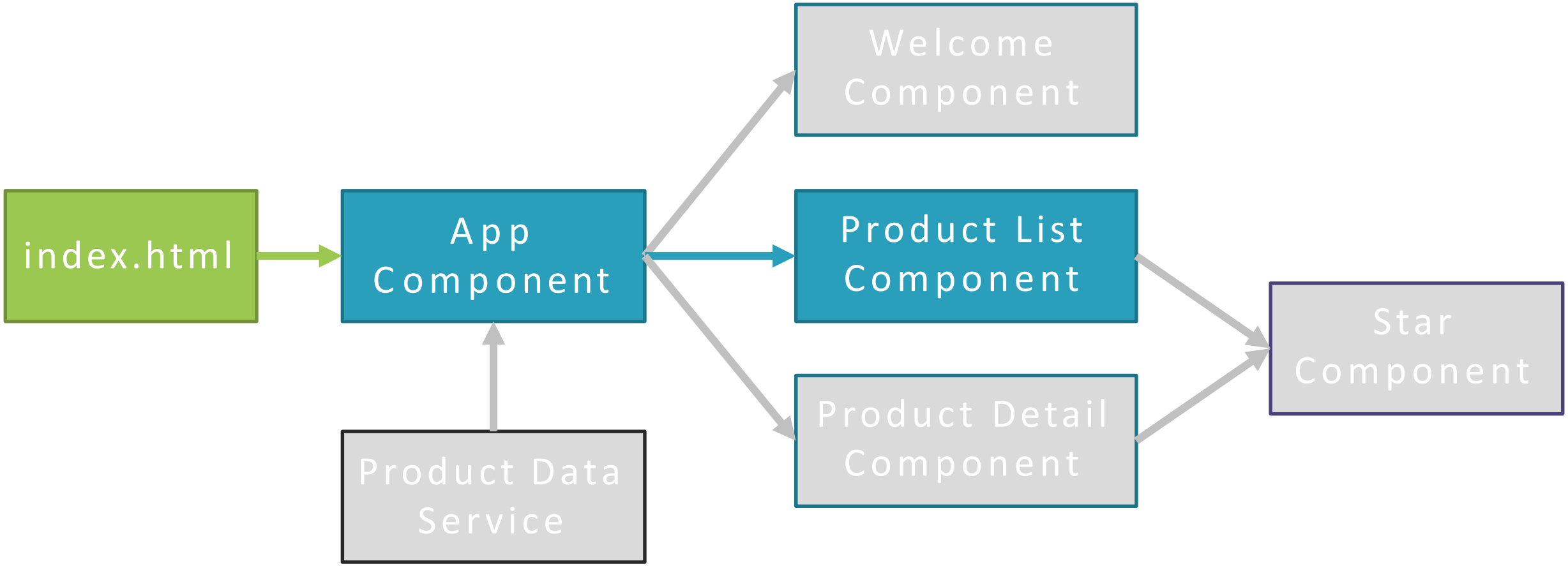
<input [(ngModel)]='listFilter'>
```

```
export class ListComponent {
 listFilter: string = 'cart';
}
```

[()]
Banana in a Box

Transforming Data with Pipes

Transform bound properties before display

Built-in pipes

- date
- number, decimal, percent, currency
- json, slice
- etc

Custom pipes

Pipe Examples

```
{{ product.productCode | lowercase }}

<img [src]='product.imageUrl'
     [title]='product.productName | uppercase'>

{{ product.price | currency | lowercase }}

{{ product.price | currency:'USD':true:'1.2-2' }}
```

Data Binding

DOM

```
▼<pm-app>
  ▼<div>
      <h1>Acme Product Management</h1>
    ▼<pm-products>
      ▼<div class="panel panel-primary">
          <div class="panel-heading">
                Product List
            </div>
        ▼<div class="panel-body">
            ::before
          ▶<div class="row">…</div>
          ▶<div class="row">…</div>
          ▼<div class="table-responsive">
              <!--template bindings={}-->
            ▼<table class="table">
              ▶<thead>…</thead>
              ▶<tbody>…</tbody>
              </table>
            </div>
            ::after
          </div>
        </div>
      </pm-products>
    </div>
  </pm-app>
```

product-list.component.ts

```
@Component({
  selector: 'pm-products',
  templateURL: 'product-list.component.html'
})
export class ProductListComponent {
  pageTitle: string = 'Product List';
  listFilter: string = 'cart';
  products: any[] = […];
  toggleImage(): void {…}
}
```

Data Binding



Checklist: Pipes

Pipe character |

Pipe name

Pipe parameters

- Separated with colons

Example

- ```
  {{ product.price |
  currency:'USD':true:'1.2-2' }}
  ```
  ```

Summary

- Property Binding
- Handling Events with Event Binding
- Handling Input with Two-way Binding
- Transforming Data with Pipes

Application Architecture