

# Angular

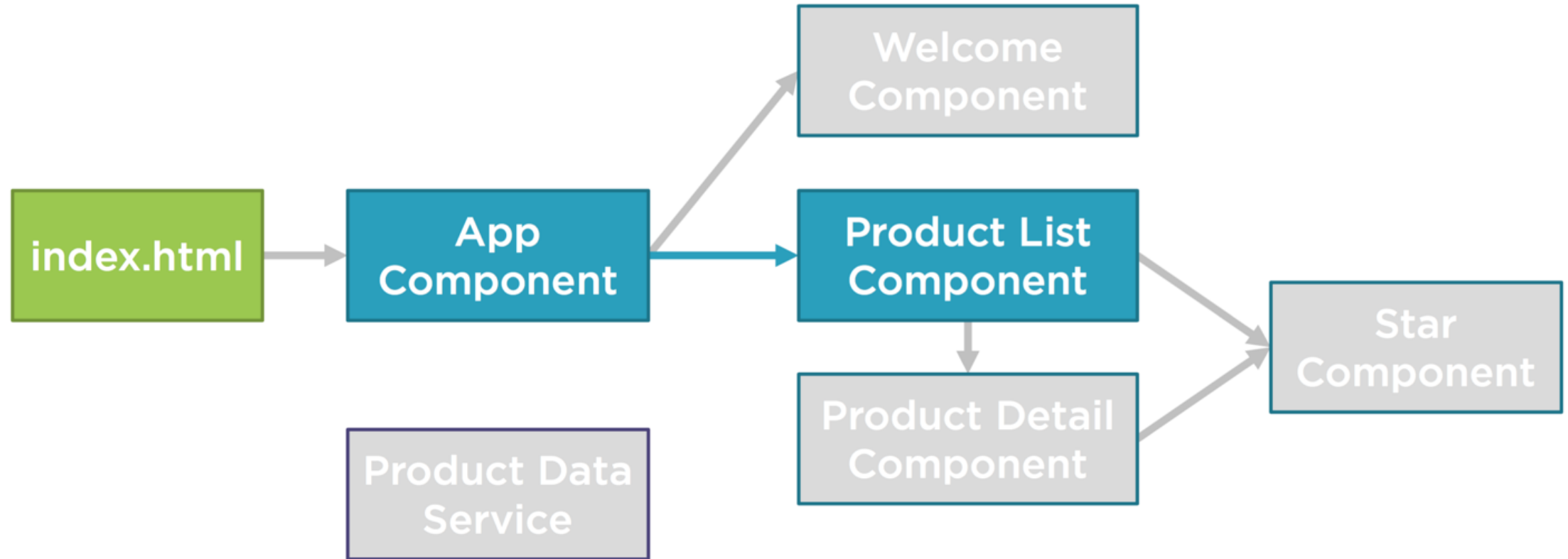
## Data bindings & Pipes



# Module Overview

- Property Binding
- Event Binding
- Two-way binding
- Transforming data with Pipes

# Application Architecture



# Property Binding

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

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

```
<img src='http://mydomain.com/{{imageUrl}}'>
```



Target Property  
[]



Template Expression  
" or {{{

# Event Binding

Template

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

Event Property  
( )

Template statement  
"

Class

```
export class ListComponent {  
  product: IProduct = {  
    imageUrl: 'http://image'  
  };  
  toggleImage(): void {  
    this.imageUrl =  
    'http://mynewimage'  
  }  
}
```

# Two-way Binding

Template

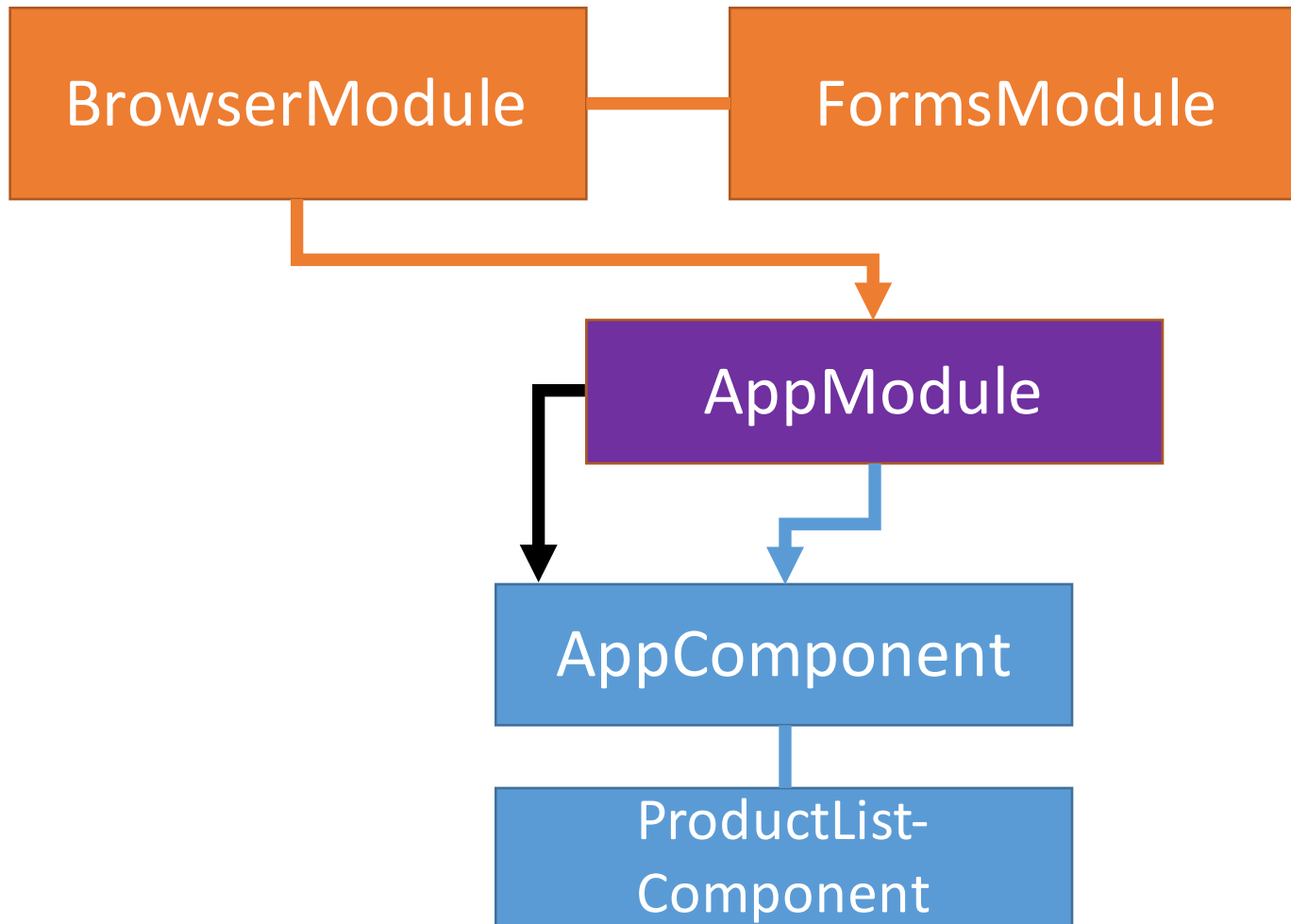
Class

```
<input [(ngModel)]='listFilter'  
type="text"  
value="cart">
```

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

Banana in a box  
[()]

Component property  
"



- Imports
- Bootstrap
- Déclarations

# Transforming Data with Pipes

- Pure functions which transform properties before display
- Built-in pipes
  - date
  - number, decimal, percent, currency
  - json, slice,
  - More on the angular.io documentation  
<http://>
- Custom pipes



# Pipe Examples

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

```

```

```
{{ product.price | currency | lowercase }}
```

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

# Data Binding

// DOM

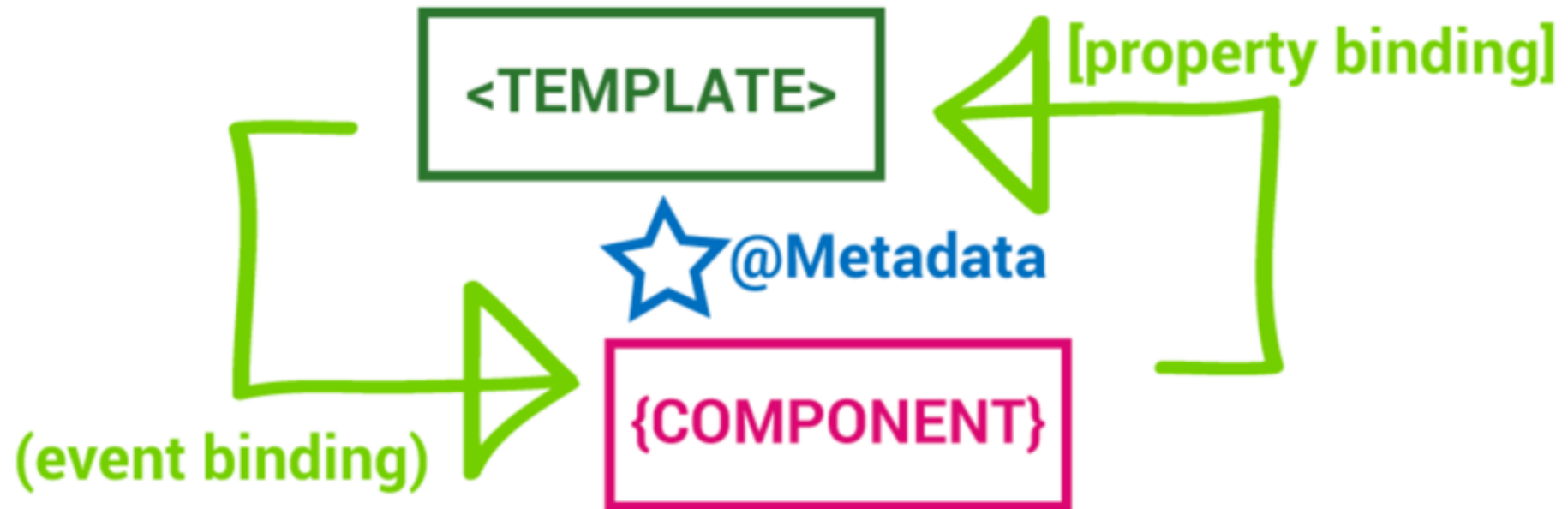
```
▼ nat-products>
  ▼ <div class="panel panel-primary">
    <div class="panel-heading">
      Product list
    </div>
    ▼ <div class="panel-body">
      ::before
      ▼ <div class="table-responsive">
        <!--template bindings={
          "ng-reflect-ng-if": "5"
        }-->
        ▼ <table class="table">
          ▼ <thead>
            ▶ <tr>...</tr>
          </thead>
          ▼ <tbody>
            <!--template bindings={
              "ng-reflect-ng-for-of": "[object
              Object],[object Object],[object Object],
              [object Object],[object Object]"
            }-->
            ▶ <tr>...</tr>
            ▶ <tr>...</tr>
            ▶ <tr>...</tr>
            ▶ <tr>...</tr>
            ▶ <tr>...</tr>
          </tbody>
        </table>
      </div>
      ::after
    </div>
  </div>
</nat-products>
```



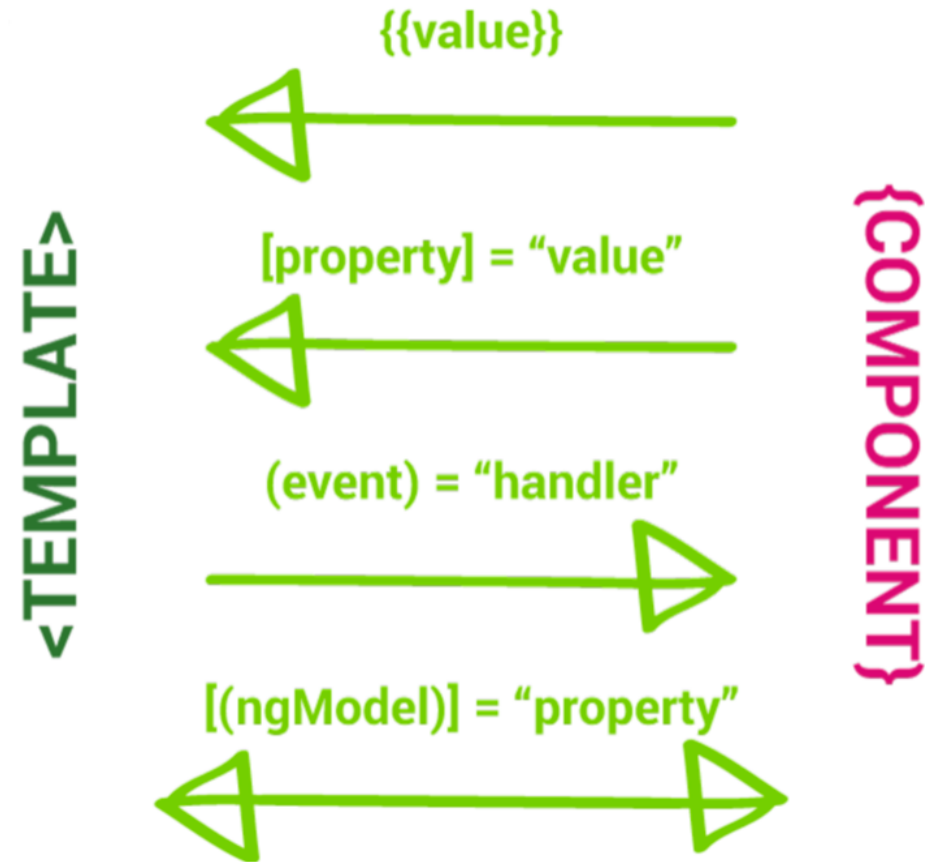
// product-list.components.ts

```
import { Component } from '@angular/core';
@Component({
  selector: 'nat-products',
  templateUrl: 'app/products/product-
list.component.html'
})
export class ProductListComponent {
  pageTitle: string = 'Product List';
  listFilter: string = 'cart';
  products: Array<any> = [...];
  toggleImage(): void {...}
}
```

# Data Binding



# Data Binding



# Checklist: [(ngModel)]

```
// product-list.component.html
```

```
<div class="col-md-4">  
  <input type="text"  
    [(NgModel)]="listFilter" />  
</div>
```

```
// app.module.ts
```

```
import { NgModule } from '@angular/core';  
@NgModule({  
  imports: [  
    BrowserModule,  
    FormsModule  
  ],  
  declarations: [  
    AppComponent,  
    ProductListComponent  
  ],  
  bootstrap: [ AppComponent ]  
})  
export class AppModule {}
```

# Checklist: Pipes

- ✓ Pipe character is |
- ✓ Pipe name
- ✓ Pipe parameters
  - ✓ Colons-separated
- ✓ Example
  - ✓ {{ product.price | currency:'USD':true:'1.2-2'

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# Application Architecture

