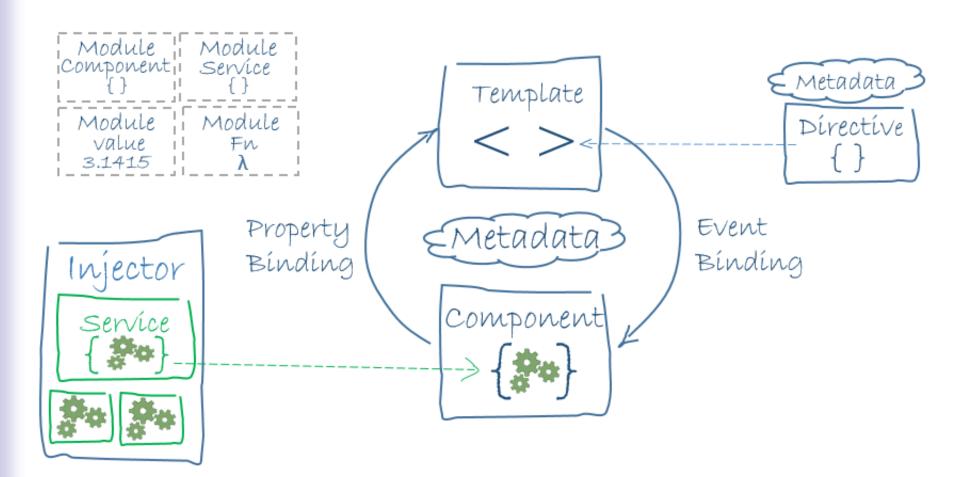
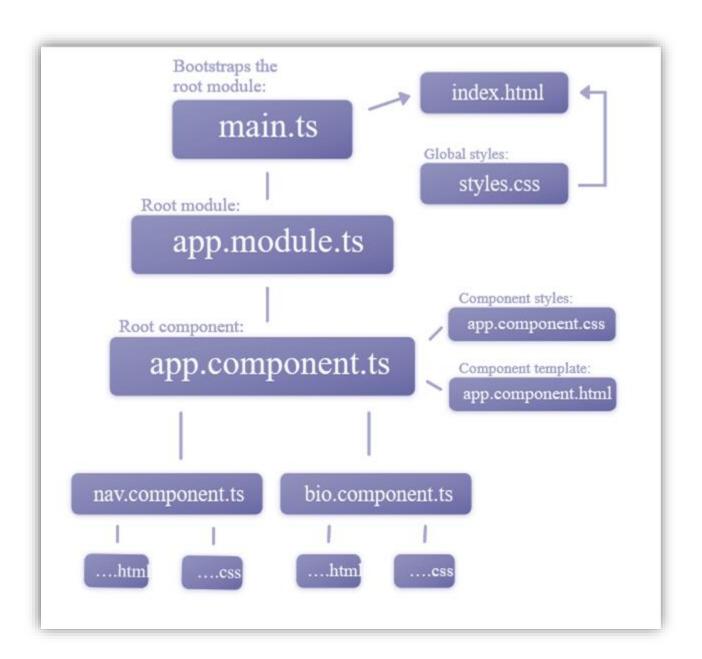
# Angular "formerly Angular 4" Benefits worth the cost

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## Day 3

### Big picture





#### The Main Building Elements

- Module
- Component
- Metadata
- Template
- Data Binding
- Directive
- Pipes
- Service

#### Directive

- A directive is a class decorated with @Directive
- Directives Types
  - structural directives
    - change (the structure of view) the DOM layout by adding and removing DOM elements. e.g. \*nglf, \*ngFor
    - Asterisks indicate a directive that modifies the HTML
    - It is syntactic sugar to avoid having to use template elements directly
  - attribute directives
    - change the appearance or behavior of an element, component, or another directive; used as attributes of elements e.g. ngStyle, ngClass
  - □ Component directive
    - A component is just a directive with added template features

#### Template Variable

- AKA Hashtag Operator
- Defines a local variable inside template
- Refers to the element of its scope

```
<tag #varElem (click)='myFun(varElem)'></tag>
```

Used with \*ngIF then else in <ng-template>

#### Safe Traversal Operator

- AKA Elvis Operator
- Denoted by a question mark immediately followed by a period ?.
- Used as guard against null and undefinedproperties
- Example

```
<div>{{std?.salary}}</div>
```

#### **Pipes**

- Used for formatting expression's value to be displayed to used
- Used in view via bar notation

```
<div>
    {{"hello "+userNm|uppercase }} !!
</div>
```

#### Angular Built-in Pipes

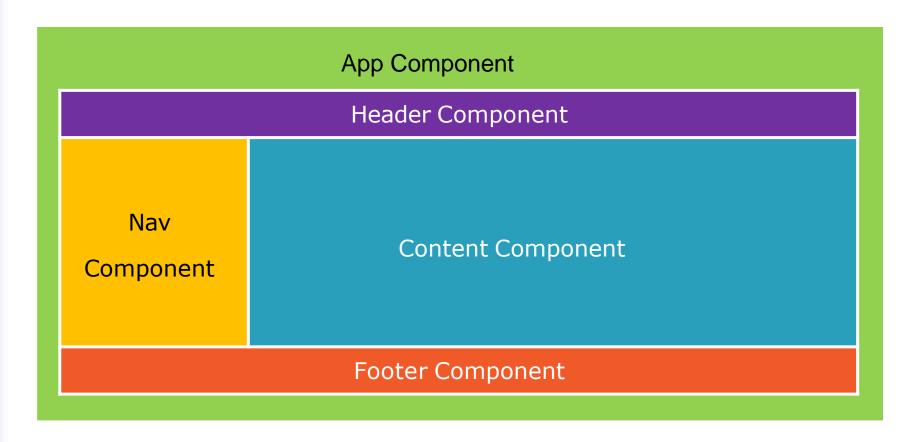
- lowercase
- uppercase
- json

- number
- date
- currency

Parameters to pass to the filter can be specified by using the colon.

additional pipes can be added.

#### Simple Example



#### SPA & Routing

SPA stands for Single Page Application

It's a web application that fits on a single page

 JavaScript values pass from page to another, content is shared between pages

#### Routing

In Module.ts

#### In app.component.html

<router-outlet></router-outlet>

#### Note:

Use routerLink attr instead of href

# Assignments