

# Angular Overview



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Basic Angular

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01

# Decorators

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# Types of Decorators

## Class Decorators



@NgModule  
@Component  
@Injectable @Directive  
@Pipe



## Property Decorators

@Input @Output @HostBinding  
@ViewChild  
@ContentChildren@ViewChild  
@ViewChildren

## Method Decorators



@HostListener



## Parameter Decorators

@Inject @Host  
@Self @SkipSelf  
@Optional

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02

# Components

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# Component Lifecycle

ngOnchanges

ngDoCheck

ngOnInit

Lifecycle event  
sequence

ngDestroy

ngAfterContentInit

ngAfterViewInit

ngAfterViewChecked

ngAfterContentChecked

# View encapsulation

## ShadowDom

Despite being red, Mars is a cold place, not hot. It's full of iron oxide dust

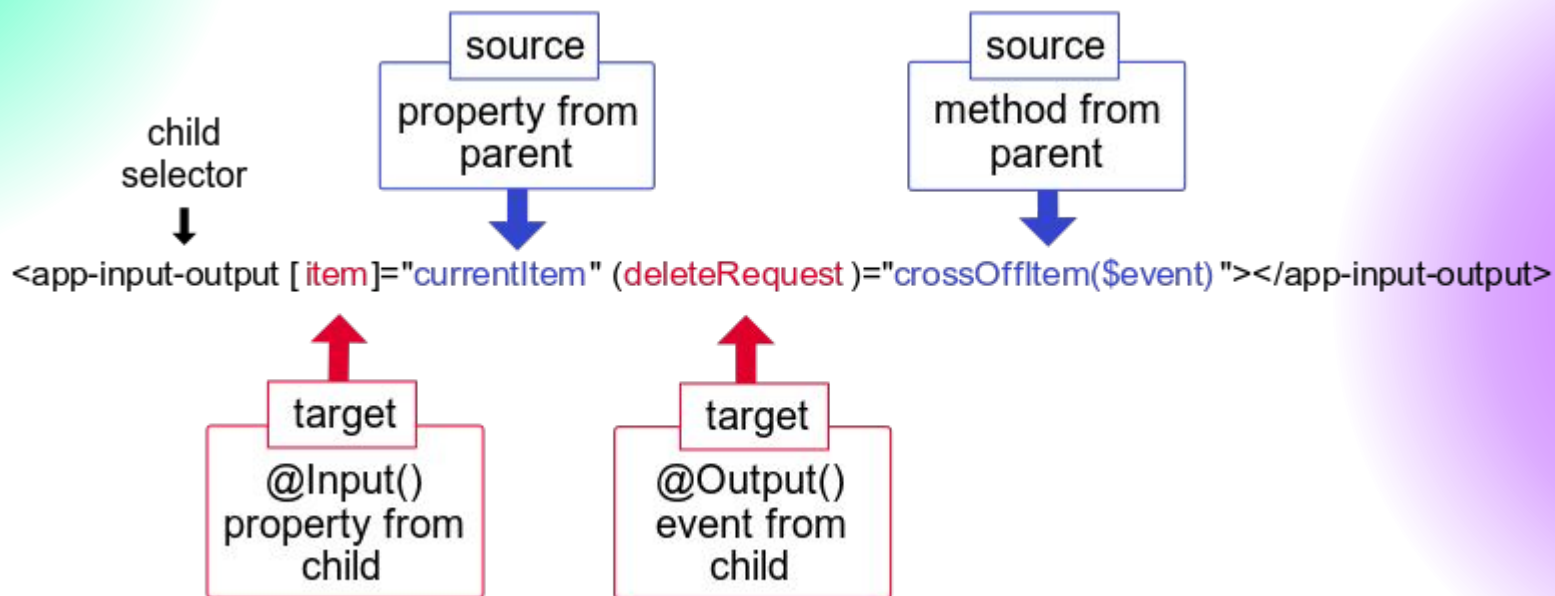
## Emulated

Jupiter is a gas giant and the biggest planet in the Solar System

## None

Mercury is the closest planet to the Sun and the smallest one

# Sharing data between child and parent





# Content Projection

Single slot

Multi-slot

Conditional

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# Dynamic Components

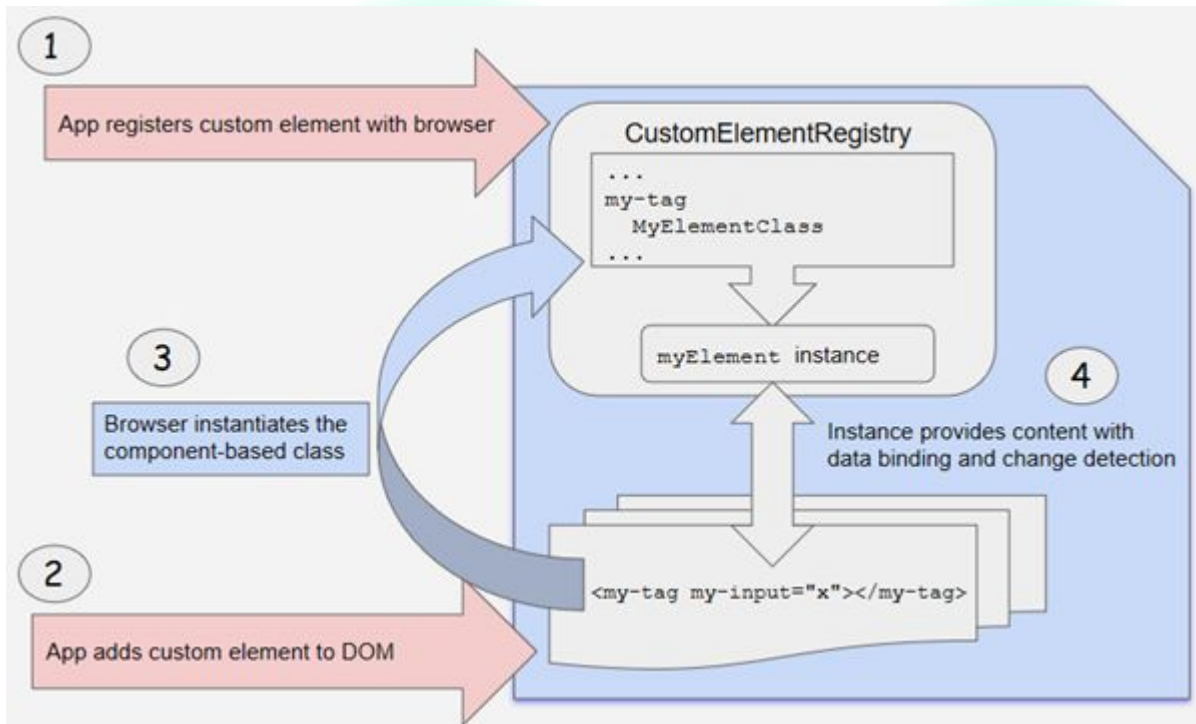
ShadowDom

Emulated

None

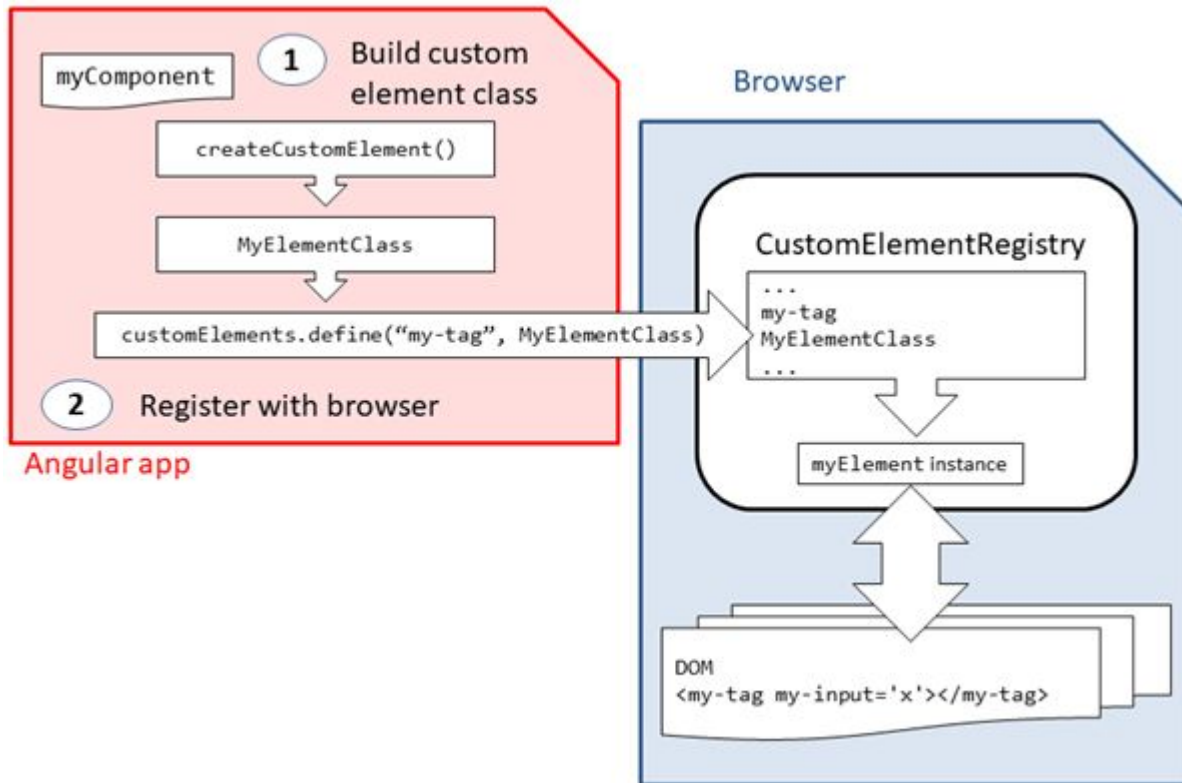
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# Angular Elements



## Using custom elements

# Angular Elements



Transforming  
components to  
custom elements

# 03

## Templates

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# Text Interpolation

Template expression `{{ }}`

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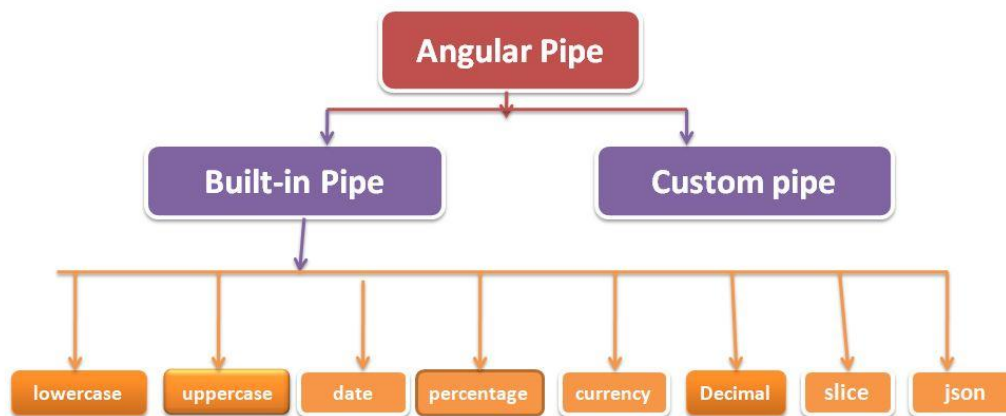
Template statement `{{ }}`

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```
<button (click)="onSave($event)">Save</button>  
<button *ngFor="let hero of heroes" (click)="deleteHero(hero)">{{hero.name}}</button>  
<form #heroForm (ngSubmit)="onSubmit(heroForm)"> ... </form>
```

# Pipe

## Pipes in Angular



# Binding

Management



**Property**

[src], [ngClass],...

[attr.colspan]  
[class]  
[style.color]

**Attribute,  
Class, Style**



**Event**

(click)

[size](sizeChange)  
[(size)]  
[(ngModel)]

**Two-way**





# 04

## Directives

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# Types of directives

## built-in

ngClass ngModel ngStyle  
ngIf ngSwitch

## attribute

[directive\_name]

## structural

[directive\_name]

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# Dependency Injection

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# Dependency providers

## Injectable service

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`@Injectable({ providedIn: 'root' })`

## Providers

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`provide, useClass, useExisting,  
useValue, useFactory`



# Thanks

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