Angular Architecture



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Agenda

One Way Data Flow

Dependency Injection

Components

Directives

Templates

Zone.js

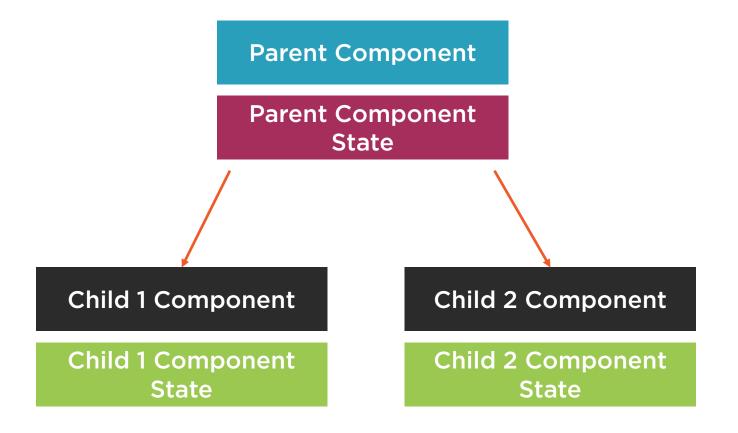
Rendering Targets



One Way Data Flow



One Way Data Flow





Dependency Injection



Dependency Injection

```
export class AddNewTagComponent {
   constructor(private articleSvc: ArticleService) {}
}
```



Components



Custom Components

```
@Component({
    selector: 'add-new-tag',
}
export class AddNewTagComponent {
}
```



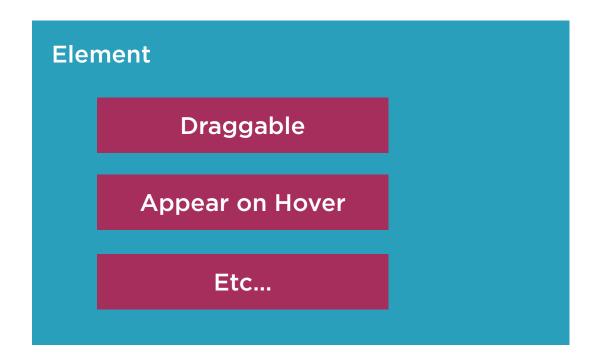
Custom Components - HTML



Directives



Directives





Directives - HTML

```
<div hover-trigger>
   Hover Over Me to See
</div>
<div appear-on-hover>
   Some Content
</div>
```



Directives - HTML

```
<div hover-trigger>
   Hover Over Me to See
</div>
<div appear-on-hover>
   Some Content
</div>
```



Templates



Templates in Components

```
@Component({
  selector: 'app-about',
  templateUrl: './about.component.html'
})
export class AboutComponent {
}
```



Templates in-line in Components

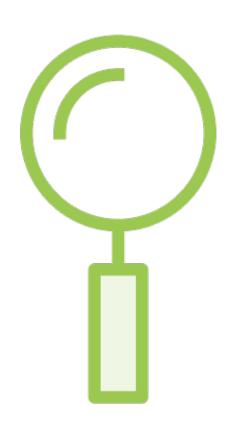
```
@Component({
selector: 'app-about',
template: `<div>
  <h1>Title</h1>
</div>`
export class AboutComponent {
```



Zone.js & Change Detection



State Change



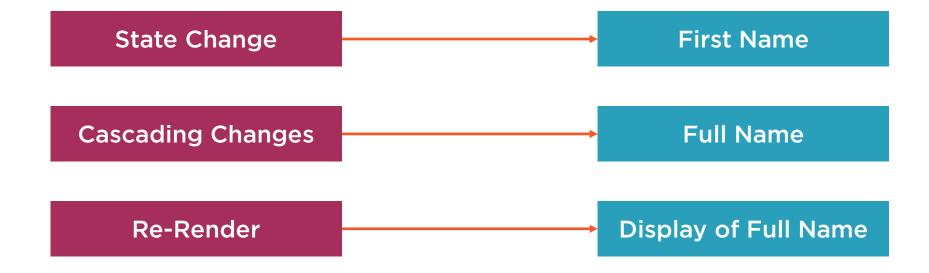
User Interaction

HTTP

Timer

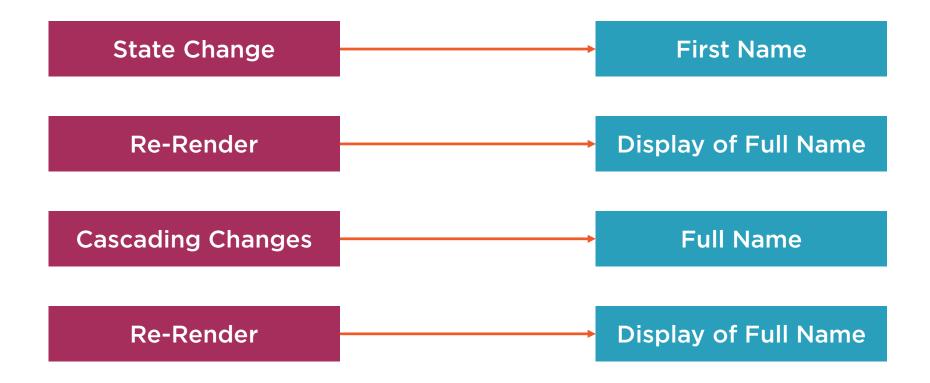


Change Detection



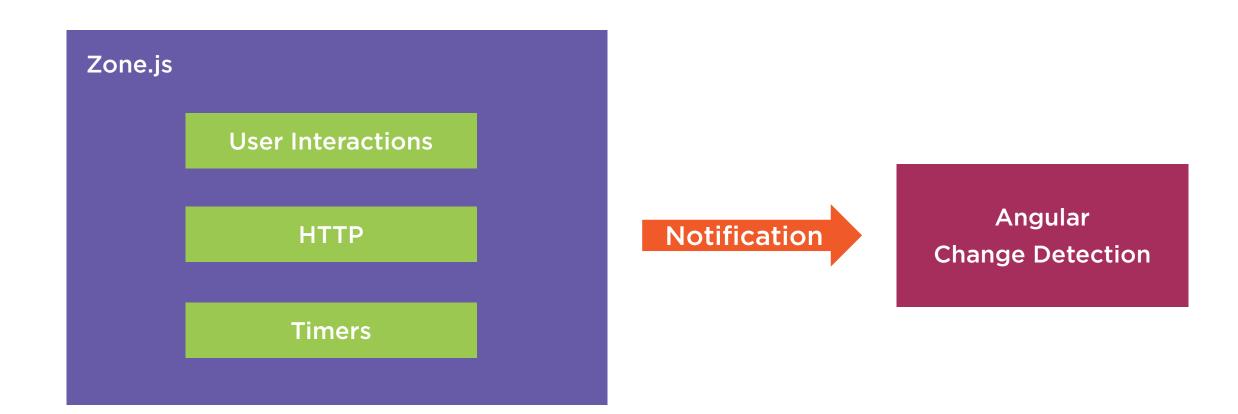


Inefficient Change Detection





Zone.js

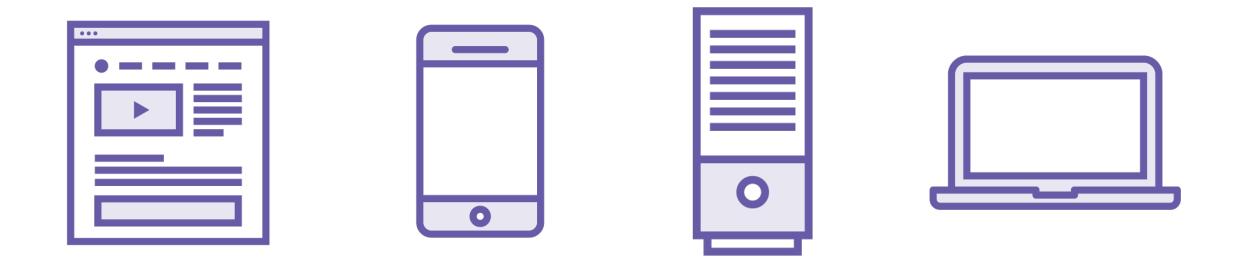




Rendering Targets

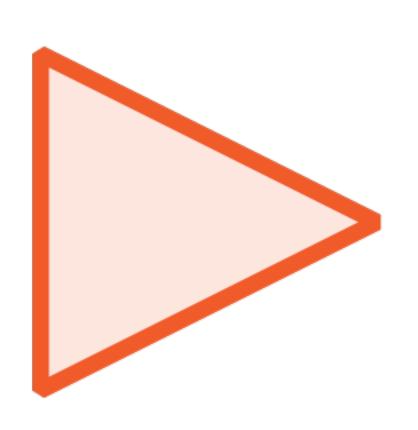


Rendering Needs





Rendering Options



Browser-platform

Browser-platform-dynamic

Rendering Targets

- Browser/DOM
- Server-Side
- Native Mobile Apps
- Native Desktop Apps
- Others



Summary



Faster

Dependency Injection

Zone.js

Multiple Rendering Targets

