Almaviva
digitale assoluto

Components

Fravezzi Mattia
m.fravezzi@almaviva.it

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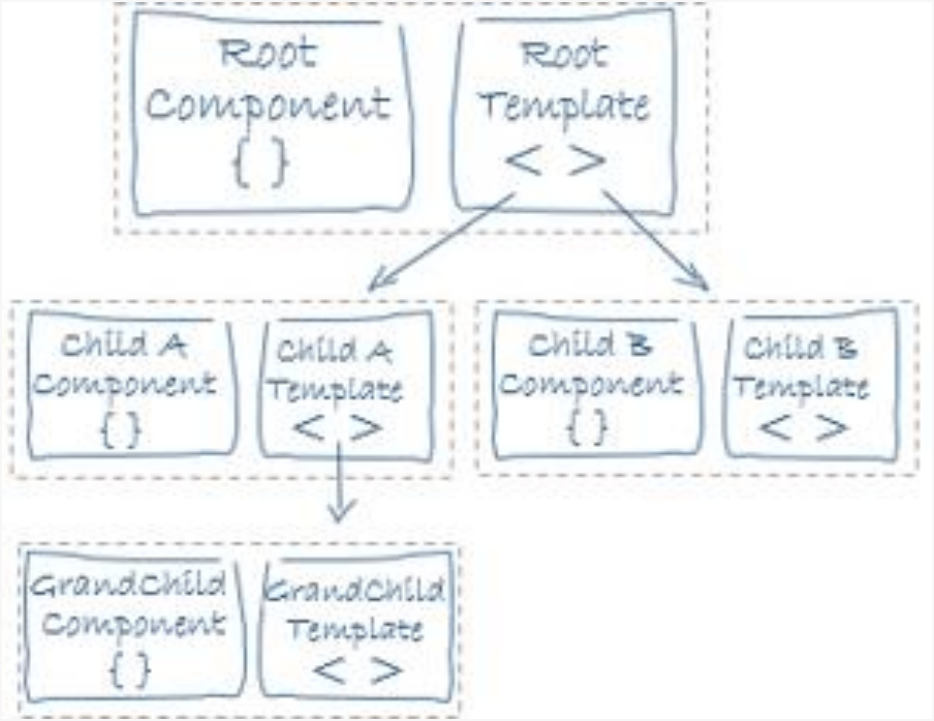
Components

```
import { ChangeDetectionStrategy, Component } from '@angular/core';

@Component({
  selector: 'app-root',
  templateUrl: './app.component.html',
  template:'<h1>Hello World!</h1>',
  styleUrls: ['./app.component.scss'],
  styles:['h1 { font-weight: normal; }'],
  changeDetection : ChangeDetectionStrategy.OnPush,
  providers :[],
  animations: []
})
export class AppComponent {
  title = 'my-app';
}
```

Templates and Views



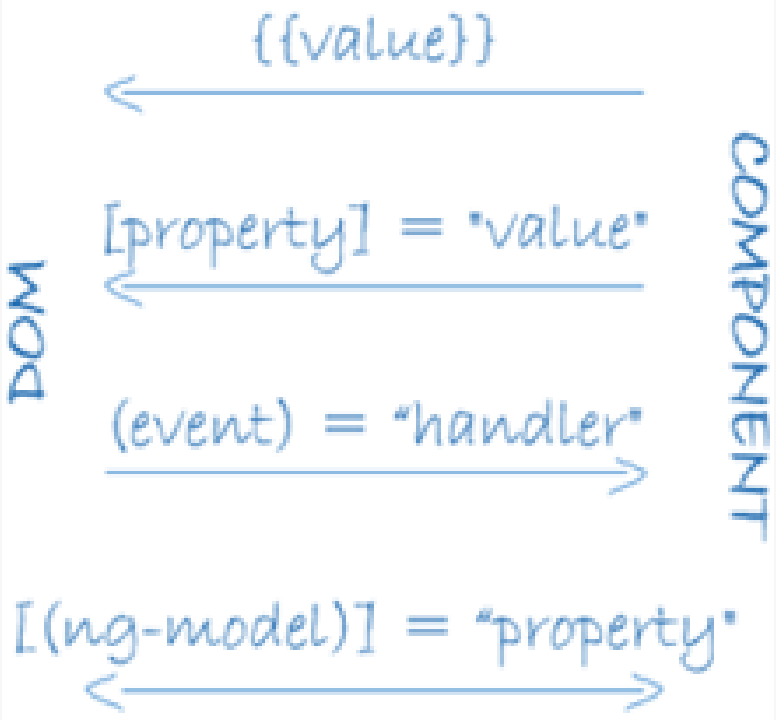
Angular Template syntax

```
<h2>Hero List</h2>

<p><i>Pick a hero from the list</i></p>
<ul>
  <li *ngFor="let hero of heroes" (click)="selectHero(hero)">
    {{hero.name}}
  </li>
</ul>

<app-hero-detail *ngIf="selectedHero" [hero]="selectedHero"></app-hero-detail>
```

Data binding



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Events

```
<button (click)="doSomething()">

<input (key.enter)="submit()" [(ngModel)]="name">

<tab-bar [items]='countries' (tabClick)="doSomething()">
```

Directives

```
<mat-list-item *ngFor="let item of heroList; let i=index">


<button *ifAdmin>add user</button>

<div url="http://www.google.com"></div>
```

- *ngFor
- *ngIf
- *ngSwitch
- ngStyle
- ngClass

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Pipes

```
{{ birthday | date:'dd MM yyyy' }}
```

- number
- currency
- date
- async
- json

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Component interaction

```
export class ParentComponent {

    public item = new ItemDto();

    public onIconClick(id: number) {
        // doSomething
    }
}

<app-child
      [item]="item"
      (iconClick)="onIconClick($event)">
</app-child>
```

```
export class ChildComponent {
    @Input()
    public item: ItemDto;

    @Output('iconClick')
    public iconClick = new EventEmitter<number>();

    public onClick() {
        this.iconClick.emit(this.item.id);
    }
}

<h1>{{ item.title }}</h1>
<mat-icon (click)="onClick()">
{{ item.icon }}</mat-icon>
```

LifeCycle hooks

- **ngOnChanges**: When an input/output binding value changes.
- **ngOnInit**: After the first ngOnChanges.
- **ngDoCheck**: Developer's custom change detection.
- **ngAfterContentInit**: After component content initialized.
- **ngAfterContentChecked**: After every check of component content.
- **ngAfterViewInit**: After a component's views are initialized.
- **ngAfterViewChecked**: After every check of a component's views.
- **ngOnDestroy**: Just before the directive is destroyed.


Constructor
NgOnInit

View Encapsulation

- **`Emulated`**: (default) Emula il comportamento dello ShadowDom
- **`ShadowDom`**: ShadowDom nativo del browser
- **`None`**: Non viene incapsulato ma usa globalmente css etc.

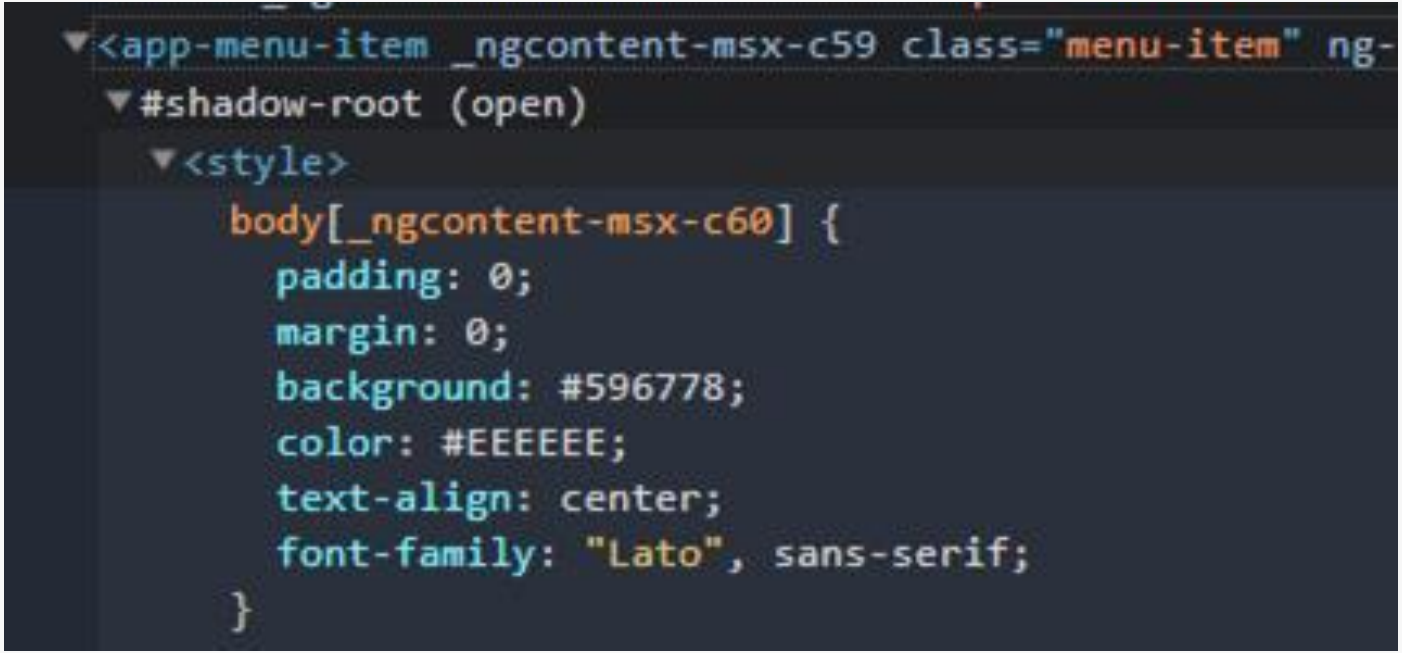
Emulated

```
<hero-details _nghost-pmm-5>
  <h2 _ngcontent-pmm-5>Mister Fantastic</h2>
  <hero-team _ngcontent-pmm-5 _nghost-pmm-6>
    <h3 _ngcontent-pmm-6>Team</h3>
  </hero-team>
</hero-detail>
```

```
[_nghost-pmm-5] {
  display: block;
  border: 1px solid black;
}

h3[_ngcontent-pmm-6] {
  background-color: white;
  border: 1px solid #777;
}
```

ShadowDom


<app-menu-item _ngcontent-msx-c59 class="menu-item" ng-
#shadow-root (open)
<style>
body[_ngcontent-msx-c60] {
padding: 0;
margin: 0;
background: #596778;
color: #EEEEEE;
text-align: center;
font-family: "Lato", sans-serif;
}

ChangeDetectionStrategy

- **`OnPush`**: Automatic change detection is deactivated

- **`Default`**: automatic

Third-party components

```
<nouislider
      [tooltips]="tooltips"
      [config]="config"
      [min]="min"
      [max]="max"
      [step]="step"
      [(ngModel)]="value">
</nouislider>
<div (click)="onSave()"></div>
```

```
@Component({
    selector: 'sem-slider',
    templateUrl: './slider.component.html',
    styleUrls: ['./slider.component.scss']
})
export class SliderComponent{
    @Input() tooltips: boolean;
    @Input() min: number;
    @Input() max: number;
    @Input() step: number;
    @Input() config: any;
    @Input() value: number;
    @Output() valueChange = new EventEmitter<number>();
    onSave() {
        this.valueChange.emit(this.value);
    }
}
```

DEMO

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