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ANGULAR 17 FEATURES

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SWIPE→

@Component annotation

A new property 'styleUrl' has been introduced and it takes a string value. Previously, we only had 'styleUrls' property which takes an array of strings.

```
@Component({
    selector: 'app-root',
    templateUrl: './app.component.html',
    styleUrl: './app.component.css'
})
export class AppComponent {}
```

Application builder

On previous versions, we have the below 2 builds:

- @angular-devkit/buildangular:browser to build a clientside rendering application
- @nguniversal/builders:ssr-devserver to build a server-side rendering application.

In Angular 17, we have a new builder which can be used to build both a client-side and a server-side applications:

@angular-devkit/build-angular:application

Angular Control Flow

In previous versions, we used ngIf, ngSwitch, ngFor in the template to manage the structure.

Now, here we have a different approach

- @if replaces *nglf
- @for replaces *ngFor
- @switch replaces *ngSwitch

```
@if (user.role === 'admin') {
                                      @switch (condition) {
 <span>Admin dashboard
                                         @case (caseA) {
} @else if (user.role === 'editor') {
                                           Case A.
 <span>Editor dashboard</span>
} @else {
                                         @case (caseB) {
 <span>User dashboard</span>
                                           Case B.
@for (item of items; track item.name) {
                                         @default {
  {| item.name | }
                                           Default case.
} @empty {
 There are no items.
```

Defer

Angular 17 has brought up a new way to **lazy load** components, directives and pipes used inside a component template which is '@defer'.

With the release of **@defer**, **standalone components** are now better solution for every possible use-case.

Trigger

Trigger provides conditions when to trigger a **defer loaded** components.

- on idle: when the browser reports idle state (default)
- on viewport(<elementRef>?): when
 the element enters the viewport
- on interaction(<elementRef>?): when clicked, touched, or focused
- on hover(<elementRef>?): when element has been hovered
- on immediate: when the page finishes rendering
- on timer(<duration>): after a specific timeout
- when <condition>: on a custom condition

View Transitions API

Angular 17 has introduced View

Transitions API that helps in better
seamless animations on transitioning
between the pages.

Input as Signal

In **Angular 17**, converting **@Input** to a **Signal Input** is the new feature.

Initially, we used @input like below:

```
import { Component, Input, OnChanges, SimpleChanges } from '@angular/core';

@Component({
    selector: 'app-header',
    templateUrl: './header.component.html',
    styleUrls: ['./header.component.scss'],
})

export class HeaderComponent implements OnChanges {
    @Input()
    value = 0;

    ngOnChanges(changes: SimpleChanges) {
        const change = changes['value'];

    if (change) {
        console.log(`New value: ${change.currentValue}`);
     }
}
```

Now, we use input as below:

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

@Component({
    selector: "counter",
    standalone: true,
    template: ` <h1>Counter value: {{ value() }}</h1>`,
})

export class CounterComponent {
    value = input(0);
}
```

New look

A fresh new UI has come up with Angular 17. Have a look in the new website. Just open and start scrolling, you'll get amazed. Along with this new trendy UI, it has brought in a modern version of Angular. Let's learn Angular in a new way.





thecodemitter.bio.link











