

# Angular

## New features

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# Presentation Overview

- 1 History & Legacy
  - Angular 15
  - Angular 16
  - Angular 17
- 2 Angular 18
  - New features
  - Control Flow
  - Change Detection
- 3 Referencing

# What's New

- MDC-Based Components
- Standalone components
- Stack Traces for Better Debugging
- Esbuild Support to Enable Quick Build (Experimental)
- Directive Composition API to elevate code usability (Dev Preview)

# MDC based Components

What has changed?

The new components have different internal DOM and CSS styles. However, most of the TypeScript APIs and component/directive selectors for the new components have been kept as close as possible to the old implementation.

Check the [Angular Materials Guide](#) for more info

# Standalone Components

Angular made Ngmodules optional, allowing developers to create autonomous components without continually relying on or upgrading Ng modules.

```
ng new -standalone
```

```
ng g c componentName -standalone
```

The Angular team recommends using standalone components for all new development.

# What's New

- Angular Signals (Dev Preview)
- Server-Side Rendering (Dev Preview)
- esbuild-Based Build System (Dev Preview)
- Router Inputs
- Required Inputs
- Jest Support (Experimental)

# Signals

A signal is a wrapper around a value that notifies interested consumers when that value changes. Signals can contain any value, from primitives to complex data structures.

You read a signal's value by calling its getter function, which allows Angular to track where the signal is used.

This improves Angular's change detection, which also improves performance, and makes our code more reactive.

# What's New

- New Website and brand
- Defaulting to standalone components
- Improved SSR support
- New Control flow syntax (Dev preview)
- @Defer for lazy loading components (Dev Preview)



# What's New

- Zoneless change detection (Dev preview)
- Signal APIs (Developer preview)
- Signals, defer-able views, and new control flow are now stable
- Function-based Route Redirects

# Control Flow Syntax

- The @if block replaces \*ngIf for expressing conditional parts of the UI.
- The @switch block replaces ngSwitch
- The @for block replaces \*ngFor for iteration

# Angular Signals (Contd.)

Old	New	Stable ??
@Input	input()	No
@ViewChild(ren)	viewChild(ren)	No
@ContentChild(ren)	contentChild(ren)	No
	model()	No

Table: Declarators to Signal APIs

# ZoneJS

ZoneJS is no more 😊

Angular is moving from ZoneJS change detection to a more  
"Signal-based" change detection 😊

Only in developer preview 😊

# References



Minko Gechev (2024)

Angular v18 is now available!

[blog.angular.dev](https://blog.angular.dev)



Angular

[www.youtube.com](https://www.youtube.com)



Academind

[www.youtube.com](https://www.youtube.com)



Monsterlessons Academy

[www.youtube.com](https://www.youtube.com)

# The End

Questions? Comments?