

Angular in 2025

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What is Angular?

- A complete, batteries-included framework for single-page apps
- Built-in solutions for routing, forms, HTTP, testing, and UI
- Dependency Injection and two-way data binding baked in
- CLI for scaffolding, builds, and deployment
- TypeScript first
- Opinionated structure that enforces consistency across teams

Why Angular

Pros

- All-in-one framework: routing, forms, testing, HTTP, UI all built-in
- Consistent structure and tooling across projects
- Strong CLI and TypeScript integration
- Reactive data binding and Dependency Injection
- Maintained by Google, ideal for large-scale apps

Cons

- Steeper learning curve for newcomers
- Verbose syntax and configuration
- Larger bundle size than React
- Ecosystem is not as active as React anymore
- Opinionated, less flexibility for library choice

Changes (v11 - 20)

1. No More NgModules!

- Standalone components become default in Angular v19
- No **NgModule** boilerplate required
- Simplified project structure: components, directives and pipes
- Less indirection, easier lazy-loading

3. Signals instead of RxJS

- Introduction of the Signals API — reactive primitives (`signal`, `computed`, `effect`) for tracking state changes.
- Enables state updates without Zone.js overhead; only the affected component parts re-render.
- Leads to simpler code, fewer subscriptions, better performance

2. Full SSR Support

- Modern SSR integration via **@angular/ssr** replaces the old **@nguniversal** setup
- No separate “Angular Universal” project layer.
- Support for hybrid rendering, pre-rendering and incremental hydration
- Less server-side complexity

When to Use Angular

- Enterprise-scale apps with large development teams and long lifespans.
- Projects where maintainability, consistency, and governance matter.
- Applications that benefit from a full, integrated framework

When to Consider Alternatives

- Small/short-lived projects or prototypes where rapid time-to-market matters.
- Teams that prefer maximum flexibility and minimal framework opinion
- Projects with limited budget or team expertise in Angular's broader stack.