

What's new to Angular 5

Size and Speed improvement -

An improved compiler and general code structure to make things more tree-shakable wrt Ang4

The Compiler now supports incremental compilation – giving faster builds – esp prod'n builds

Also added features to decorators – producing smaller bundles

TypeScript Compiler – operates as a TypeScript transform – for faster builds

This should reduce the code size of Angular 4 to about 50% again.

Angular 4 produced an approx. size reduction from Angular 2 of about 50% or more.

AoT (Ahead of Time) Compilation – is on by default

Means we can do offline compilation and remove compiler from build output

Angular CLI 1.5+

Embeds Angular 5.0.0 within it – so you have a very modern version

New Router Life-cycle Events –

For tracking router cycles from beginning of running guards until completion of activation.

Simpler building PWAs(Progressive Web Apps) apps can be cached in browser

Service Workers - Ang CLI 1.6.0-beta.0 – supports `–service-worker` flag to build SWs

Build optimizer -

Eliminates unnecessary code - cmd line tool

Making Material Design components – compatible with SSR

Angular Universal – now with State Transfer API + DOM support

For sharing code between server and client side versions in an app'n

Pipes for internationalized number | date | currency

Increases stds across browsers and eliminates need for i18n polyfills

StaticInjector is now used wrt ~~ReflectiveInjector~~

Removes more polyfills – reducing app'n size for most developers

An updated HttpClient wrt Angular 4.3

Angular Forms – validation + value updates on blur | submit evts

Rather than on every event – key press etc.

RxJS library has been updated to 5.5.2 + has Pipeable operators

Operators eliminate side effects of code-splitting | tree version problems

It distributes a version using ECMAScript modules – pulled from Angular CLI

Angular (Angular 5) is now a mature framework

It is easy to get started – especially with the Angular CLI

Better documentation

Although opinionated – it offers a lot of flexibility –

We can utilize functional programming to simplify Unit Testing – (Redux | ngrx)

More complex things

PWAs and Service Workers

SSR with Angular Universal

Scaling applications with ngrx

 Scaled Agile teams –

Mobile -

Desktop –