AngularJS 1 vs 2 vs 4 vs 5: What's the Difference?

What is Angular JS?

AngularJS was created by Misko Heavery. He had built a framework to handle the downfalls of HTML and also taking ideas and best practices of the libraries which were never done earlier.

This first version of the framework known as AngularJS was launched in the year 2009. It laid the foundation of the present-day front-end application development. Angular JS was one of the best single-page application development solution. Gradually, it wide adoption and become very popular.

Features of Angular JS

- A JavaScript MVW Framework
- Extends HTML support by adding tags, attributes, and expressions
- Allows easy event Handling
- Supports for Data Binding
- Built-In Template Engine and Routing
- Form Validations and Animations
- Dependencies Injection

In this tutorial, you will learn

- What is Angular JS?
- What is Angular 2?

What is Angular 2?

After, releasing Angular JS, Angular team released Angular 2 which is complete rewrite of its original Andujar 1 or AngularJS. Angular 2 version is built around the concept of the component. It was rewritten from scratch by the Angular team using Typescript. It offers better performance to web developers. There are many new features along with other improvements and tweaks.

Some Important Features of Angular 2 are:

- Modern, faster, and highly scalable framework
- Equally useful framework for web, mobile, and desktop apps
- Web components based architecture
- Supports Hierarchical Dependency Injection

Why not Angular 3?

Angular 2 has been a single repository. Each package downloadable with the @angular/package-name convention. For example @angular/HTTP, @angular/router

All package names were assigned version 2, but router package by mistaken was given version 3. Therefore, the development team skipped Angular Version 3 and directly named it version 4 to maintain compatibility with Angular Router's version.

What is Angular 4?

Angular 4 is unlike Angular 2 (which is completed rewritten version of Angular 1). There are in fact only few minor changes and new features added in it. Angular 4 supports TypeScript, which compiles to JavaScript and displays the same in the browser.

Some other features of Angular 4 are:

- Reduce the size of the generated bundled code up to 60%
- Animation moved out to a separated package @angular/animations
- Supports for if/else statement
- Supports for email validator

What is Angular 5?

Angular 5 doesn't bring any significant change from Angular 4. However, lots of new features and many new improvements are done in this version.

Features of Angular 5:

- Make AOT the default
- Easier to build progressive web apps
- Type checking in templates
- Support for Internationalized Number, Date, and Currency Pipes
- An update to Httpclient
- Zone speed improvements
- New Router Lifecycle Events

History of Angular Versions

- Angular version 1.0 which is known as AngularJS was released in 2010 by Google
- Angular version 2.0 was released in September 2016
- Angular 4.0 was released in March 2017
- Angular 5.0 was released in Nov 2017

Let see Angular versions history in detail:

History of Angular 1

Angular 1 which was also referred as AngularJS is a JavaScript open-source framework. It was designed especially for single-page web apps which is fully owned by Google. This was the first Angular version launched in the year 2010.

History of Angular 2

Angular 2 is a fully built and completed rework version from Angular 1. It is compatible with mobile devices. Moreover, Angular 2 gives you an option to choose more languages where you can choose your language like ES5, ES6, or TypeScript to write the codes of Angular 2.
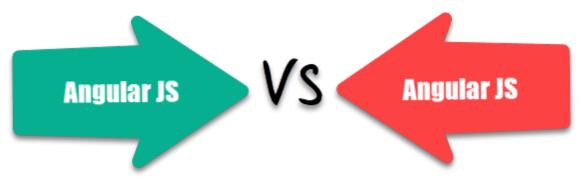
History of Angular 4

As discussed earlier, Angular 3 was not released by the Angular team. Angular 4 was released on March 6, 2017, which is compatible with most of the applications. However, there is not any major changes in Angular 4 from Angular 2, and it offers better bug fixed, and alerts compare to Angular 2.

History of Angular 5

Angular five was released in November 2017. In this Angular version, there are some biggest changes has also been made compared to previous Angular. In this version, there is a Build Optimizer that created with the Angular CLI by which allows you to apply build optimizer by default. Besides this, there is an Angular Universal State Transfer also given that supports API and DOM.

Difference between AngularJS and Angular 2

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Angular JS	Angular 2
Released by Google in the year 2010.	Released in Sept 2016.
JavaScript-based framework for creating SPA.	Complete re-write of AngularJS version.
Still supported but no longer will be developed.	It's updated version regularly released because of Semantic Versioning.
The architecture of AngularJS is based on MVC.	The architecture of Angular 2 is based on service/controller.
AngularJS was not developed with a mobile base in mind.	Angular 2 is a mobile-oriented framework.
AngularJS code can write by using only ES5, ES6, and Dart.	We can use ES5, ES6, Typescript to write an Angular 2 code.
Based on controllers whose scope is now over.	Nowadays, the controllers are replaced by components, and Angular two is completely component based.
Factory, service, provider, value and constant are used for services	The class is the only method to define services in Angular2
Run on only client-side	Runs on client-side & server-side
ng-app and angular bootstrap function are used to initialize	bootstrapmodule() function is used to initialize

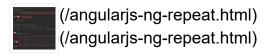# Difference between Angular 2 and Angular 4

Angular 2	Angular 4
The code generated using Angular 2 is bigger, and the file size is also larger.	Angular 4.0 has reduced the bundled file size by 60%. Thus code generated is reduced which helps to accelerate the application performance.
Angular two is not backward compatible with Angular JS.	Angular four is backward compatible with Angular 2 for most applications.
There is no specific no proper disapproval phases to adjust codes.	There will be proper disapproval phases to allow developers to adjust their code
There is no animation feature offers in Angular 2.	Animation features are pulled out of @angular/core and included into their package

Difference between Angular 4 and Angular 5

Angular 4	Angular 5
Support for Router ParamMap	New Router Lifecycle Event
Dynamic Components with NgComponentOutlet	Compiler Improvements
TypeScript 2.4 with this version that functions as a JavaScript superset that can be used for optional static typing, interfaces, and classes	Angular 5 comes with build optimizer which is a part of the platform's command like a tool.
HTTP Request Simplified	Optimization with HttpClient Feature
Includes Animation Package	Internationalized Date & Currency

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