Why Angular?

Angular 2 is not a simple upgrade from angular 1. Anuglar 2 is completely re return. It has lot of improvement compare to angular 1. Let’s take a look at this to view these performances.

**Performance:** From a performance stand point angular 2 has fast initial load, change detection and rendering time. Not just performances we also have improve modularity, dependency injection and modularity. Angular 2 is 5 times faster compare to angular JS 1.

**Mobile Support**: With angular 2 we can build a single application that works across mobile and desktop devices.

**Component Based Development**: Component base development is the future of web development. In angular 2, everything is a component. Components are the building blocks of an Angular application. The advantage of component based approach is that it’s facilitate great a code reuse and from unit testing stand point the use of component make angular 2 more testable.

More language choices:

ESMAScript 5

ESMAScript 6 (also called ES 2015)

TypeScript

Dart

PureScript

Elm, etc.

Among all these language TypeScript is the most popular language.

Angular 2 itself, is building using TypeScript. TypeScript has great support of ECMAScript 6 standard.

What is ESMAScript

* The JavaScript language standard is officially called ECMAScript.

What is Typescript?

* TypeScript is free and open source programming language developed by Microsoft.
* It is superset of JavaScript
* Process calls Transpilation compiles Typescript to JavaScript that browser can understand.

Using Typescript to build angular application provides all these benefits (Typescript Benefits):

* Intellisense
* Autocompletion
* Code navigation
* Advance refactoring
* Strong Typing
* Supports ES 2015 (ES 6) features like classes, interfaces & inheritance.