**What is Angular JS?**

**AngularJS** is an open-source front-end web framework based on JavaScript to build dynamic web applications. It allows developers to use HTML as the template language and extend it’s syntax to create various application components. It also helps you to reduce writing the code by data binding and dependency injection.

From Google angular blog:

AngularJS is an open source JavaScript Framework from Google used to write web applications. It is a great tool to structure a single page application, in which all needed data is loaded dynamically. But you can use it just as well for small parts of your app. Its concept is often viewed as MVW (Model View Whatever), although it provides functionality to serve as a typical MVC (Model View Controller) framework as well. Its strength lies especially in making HTML more expressive and readable.

### Concept of AngularJS

AngularJS is based on the client-side generation of html-views and extends the html vocabulary. This way it is possible to use more functionality in the frontend without changing the DOM via jQuery. The main concept of AngularJS is underlined by **controllers and directives**. Additionally, AngularJS relies on the concept of “Single Source of Truth” which is realized with two way data binding. It is achieved with so-called “dirty checking”, which regularly checks for changes on a scope variable.

* extension for html
* abstraction of low-level-operations
* Readability of the HTML code
* A very good testability

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.

**Versions**

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

### Why not jQuery instead of AngularJS?

Well, you cannot compare these two very well. While AngularJS can be used as a whole framework which determines the way you build your app, jQuery is just a library. You can include it in your web app (even when using AngularJS).

But since Angular can be used on single parts of an app as well, it makes sense to compare them:

#### Reasons for Angular

* two way data binding
* expressive code
* excellent for single page applications

possibility to work with models

* use of modules

#### Reasons for jQuery

* file size is smaller, so loading the small jQuery library for simple tasks might be better
* Angular might be hard to master because of its slow learning curve
* often you cannot use known libraries in Angular, even though there are often Angular-based alternatives
* two way data binding of Angular can cause performance issues if two many objects are binded