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Javascript Version Basics

Typescript ?

Javascript ?



ES6 ?

Ecmascript ?

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Javascript

- Javascript is a **synchronous single threaded scripting** language
- Browsers use JavaScript as a scripting language for doing **dynamic** things on the web. It can **calculate, manipulate and validate** data.
- It can be used on both **client side & server side**

Uses

- Adding interactivity to websites
- Developing mobile applications
- Creating web browser based games
- Back end web development



Ecmascript

- ECMAScript or ES is a **JavaScript standard** meant to ensure the **interoperability** of web pages across **different web browsers**
- It is commonly used for client-side scripting on the World Wide Web, and it is increasingly being used for writing server applications and services using Node.js.
- ECMAScript **releases its new version** probably every year.
- **ES5**, was the **first major** revision to JavaScript and **ES6** was the **most popular version**

Ecmascript Versions

- **ES1** : ECMAScript 1 - First edition
- **ES2** : ECMAScript 2 - Editorial changes in First edition
- **ES3** : ECMAScript 3
 - Added regular expressions
 - Added try/catch
 - Added switch
 - Added do-while
- **ES4** : ECMAScript 4 - Never Released
- **ES5** : ECMAScript 5

Added "strict mode", JSON support
String.trim(), Array.isArray(),
Array iteration methods, Allows trailing
commas for object literals

ES6

The 6th edition, ECMAScript 6 (ES6) and later renamed to ECMAScript 2015

Features:

- let and const
- default parameter values
- Array.find()
- Array.findIndex()
- exponential operator (**)
- Array.includes()
- string padding
- Object.entries()
- Object.values()
- async functions
- shared memory
- rest / spread properties
- asynchronous iteration
- Promise.finally()
- Additions to RegExp

Javascript Vs EcmaScript

ECMAScript is a standardized specification.
JavaScript is an implementation of the
ECMAScript standard

caniuse.com website

A website that allows us to check the
compatibility of ECMAScript features
across browsers.

Typescript



Super Set of JavaScript = Typescript

Typescript

- TypeScript is an Open Source Object Oriented programming language and strongly typed language.
- Every existing JavaScript Code is a valid TypeScript Code
- It can prevent a lot of type-related errors. Along with the Clever IntelliSense.

Features:

- lightweight easy-to-learn language
- adds enhanced features to JavaScript ES6 version
- support for Classes and Objects



Typescript VS ES6

ES6 : sixth edition of ECMAScript
trademarked scripting language

Typescript : free and open-source pure
object-oriented programming language

ES6 : does not support all data types

Typescript : supports all primitive data types.

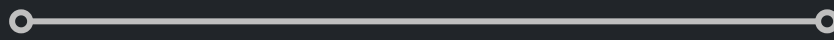
ES6 : modules can be used by importing and
exporting.

Typescript : Modules are of 2 types: Internal
and external modules

ES6 : has 2 scopes Global Scope, Local Scope.

Typescript : has 3 scopes, Global Scope, Class
Scope, Local Scope.

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