

# DWA\_02.8 Knowledge Check\_DWA2

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1. What do ES5, ES6, and ES2015 mean - and what are the differences between them?

ES5, ES6, and ES2015 refer to different versions of the ECMAScript specification, which is the standard for scripting languages like JavaScript.

ES5 (ECMAScript 5) is the fifth edition of the ECMAScript standard, released in 2009, which introduces several new features to JavaScript like strict mode.

ES6 (ECMAScript 6), also known as ES2015, is the sixth edition of the ECMAScript standard, released in 2015. It introduced significant changes and new features to the language. Some of the notable features include arrow functions, block-scoped variables (let and const), classes, modules for better code organization, template literals for enhanced string handling, and the spread operator for arrays and objects

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2. What are JScript, ActionScript, and ECMAScript - and how do they relate to JavaScript?

JScript is a dialect of JavaScript that was developed by Microsoft. It was primarily used for client-side scripting in Internet Explorer.

ActionScript is a scripting language that was used in Adobe Flash. It was primarily used for creating interactive content and animations within the Flash environment.

ActionScript had its own syntax and features, but it was also based on ECMAScript, the standard that JavaScript is derived from.

ECMAScript is a standard specification for scripting languages. It defines the syntax, types, and behavior of a scripting language.

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3. What is an example of a JavaScript specification - and where can you find it?

An example of a JavaScript specification is the ECMAScript specification, which defines the standard for the JavaScript programming language

You can find the ECMAScript specification on the official website of ECMA International, the organization responsible for maintaining the standard.

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4. What are v8, SpiderMonkey, Chakra and Tamarin? Do they run JavaScript differently?

V8, SpiderMonkey, Chakra, and Tamarin are all JavaScript engines used by web browsers and other runtime environments to execute JavaScript code.

V8 is an open-source JavaScript engine developed by Google. It is used in the Google Chrome browser, as well as other Chromium-based browsers like Microsoft Edge.

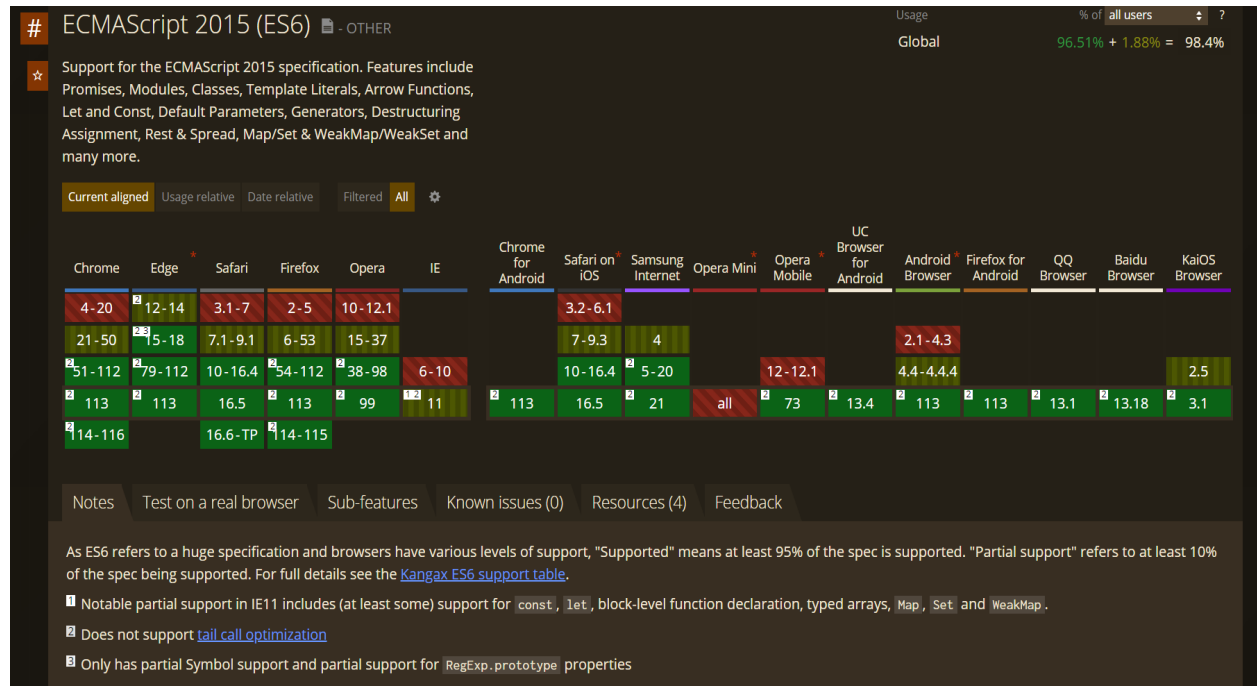
Mozilla created the SpiderMonkey JavaScript engine. The Firefox browser used it. One of the first JavaScript engines to be developed was SpiderMonkey. It runs JavaScript code using both an interpreter and a JIT compiler. To increase its speed and effectiveness, SpiderMonkey has undergone numerous iterations and adopted a number of performance enhancements.

Chakra was the JavaScript engine developed by Microsoft for their Edge browser. The most recent iterations of Edge, however, are powered by a new engine called "ChakraCore" that has now taken Chakra's place within Microsoft.

Tamarin is a JavaScript engine created by Adobe Systems. It was created especially for the Adobe Acrobat and Flash Player programs. Tamarin is distinctive in that it combines the similarly-structured ActionScript and JavaScript programming languages to offer a productive environment for both of their execution.

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5. Show a practical example using [caniuse.com](https://caniuse.com) and the MDN compatibility table.



As shown on the image above, ES6 was not supported on Chrome versions 4-20, Firefox versions 2-5, but partially supported on Edge versions 12-14.