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?

The "ES" in ES5, ES6 and ES2015 stand for ECMAScript which is a standard for scripting languages such as JavaScript, the 5 and 6 in both ES5 and ES6 is the revision number for ECMAScript standard. ES2015 is the new name for ES6 as this revision was released in 2015, ES5 was the revision released in 2009. Each revision correlates to a new version of JavaScript as ECMAScript is the standardization for JavaScript.

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

ECMAScript is a standard for scripting languages including JScript, ActionScript and JavaScript, and therefore these languages are a dialect of ECMAScript and conform to its specifications. JScript was used in Microsoft's Internet Explorer and ActionScript was used by Adobe for AdobeFlash.

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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 Undefined Type" which can be found at 6.1.1 within the ECMAScript 2024 Language Specification.

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

These are all a JavaScript engine, which is a program or interpreter that reads JavaScript code, converts it into machine code and then runs and executes that machine code. The v8 engine is used in Google Chrome, the SpiderMonkey engine is used in Firefox, the Chakra engine is used in Microsoft Edge, and the Tamarin engine was used by Adobe in Adobe Flash but is now discontinued. All of these engines will run JavaScript the same way, the only difference being the way in which that is done and time it takes to run and execute.

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5. Show a practical example using **caniuse.com** and the MDN compatibility table.

I want to know if AbortController is compatible with the latest version of the Google Chrome browser, so I will type in "AbortController" within caniuse.com and check under the "Chrome" tab for the latest version number, since it is green that means AbortController is supported and compatible with the latest version of Google Chrome, similarly I want to do the same thing within MDN, so I click on the "AbortController" tab and scroll down to "Browser compatibility" and check the support status under the Chrome column that correlates to the "AbortController" row, since it is ticked and green that means it is supported.

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