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 (ECMAScript 5)was released in December 2009 and introduced strict mode, array methods, enhanced JSON support, and new object creation methods.
ES6 (ECMAScript 2015)was released in June 2015 and introduces let and const, arrow functions, template literals, destructuring assignment, classes, promises, and block-scoped variables.
ECMAScript released in 2015 is often referred to as ES6.

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2. What are JScript, ActionScript and ECMAScript - and how do they relate to JavaScript?
ECMAScript serves as the standardized scripting language, with JavaScript being its main implementation known for web development. JScript was developed by Microsoft for Internet Explorer, and ActionScript was utilized in Adobe Flash and Apache Flex, are alternative implementations of ECMAScript. JavaScript and these dialects share a common foundation in ECMAScript, they do differ due to vendor-specific features and extensions.

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3. What is an example of a JavaScript specification - and where can you find it?
JavaScripts specification is ECMAScript, which defines the core features of the language. Specifications like ECMAScript 2022, are available on the Ecma International website under Technical Committee 39 (TC39). While the specific URL may change, visiting the official Ecma International site and navigating to TC39 or searching for the latest ECMAScript specification provides access to the detailed documentation. Additionally, browser vendors usually offer documentation specific to their JavaScript implementations, aiding developers in understanding practical implementations of JavaScript features.

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4. What are v8, SpiderMonkey, Chakra and Tamarin? Do they run JavaScript differently?
These are all different implementations of javascript engines, associated with specific web browsers. V8 is used in Google Chrome and Chromium-based browsers and it uses direct compilation for high performance. SpiderMonkey is the engine for Mozilla Firefox which combines interpretation and just-in-time (JIT) compilation. Chakra, formerly used

in Microsoft Edge, utilized both an interpreter and JIT compilation. Tamarin was once used in Adobe Flash Player, executed ActionScript and is now associated with the deprecated Flash technology. While these engines share the goal of executing JavaScript, they may differ in their approaches to optimization and features.

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5. Show a practical example using **caniuse.com** and the MDN compatibility table. Checking if css grid can be used on specific browser versions

Browser compatibility

Report problems with this compatibility data on GitHub ↗

	Chrome	Edge	Firefox	Opera	Safari	Chrome Android	Firefox for Android	Opera Android	Safari on iOS	Samsung Internet	WebView Android
grid	✓ 57	✓ 16	✓ 52	✓ 44	✓ 10.1	✓ 57	✓ 52	✓ 43	✓ 10.3	✓ 6.0 ✳	✓ 57

Tip: you can click/tap on a cell for more information.

✓ Full support   ✳ See implementation notes.

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