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 It is a functional programming that can be used at its best, or worst, depending on how you view it. All modern browsers support it. It's extremely flexible but also has many factors that contribute to apps that can become train wrecks.Also you can use property on the strings and trailing commas in array and object literals
- ES6, also known as ECMAScript 2015, is the sixth version of the ECMAScript standard. It was published in 2015 and introduced many new features to the JavaScript language. Some of these features include the `let` and `const` keywords, arrow functions, the spread operator, for/of loops, Map and Set objects, classes, promises, symbols, default parameters, function rest parameters, and new methods for strings and arrays.

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

- ECMAScript is a standard published by ECMA International that defines a general-purpose scripting language. JavaScript is a scripting language that conforms to the ECMAScript specification. JavaScript was submitted to ECMA for standardization but due to trademark issues with the name Javascript the standard became called ECMAScript1. Every browser has a JavaScript interpreter1.

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

- The ECMA-262 specification contains the most in-depth, detailed and formalized information about JavaScript.So if you need the most trustworthy source of information about the language details, the specification is the right place.

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

- Yes, there are all Javascript engines that can run javascript differently.
- V8 is a free and open-source JavaScript and WebAssembly engine developed by the Chromium Project for Chromium and Google Chrome web browsers and it is written in C++ and used in google chrome and Node.js
- SpiderMonkey is Mozilla's JavaScript and WebAssembly Engine used in Firefox, Servo and various other projects1. It is written in C++, Rust and JavaScript. You can embed it into C++ and Rust projects, and it can be run as a stand-alone shell.
- Chakra is a free and open-source JavaScript engine developed by Microsoft for its Microsoft Edge Legacy web browser.

- The goal of the **"Tamarin"** project is to implement a high-performance, open source implementation of the ECMAScript 4th edition (ES4) language specification.

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