

DWA_02.8 Knowledge Check_DWA2

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

ES5: This stands for ECMAScript 5. It was released in 2009 and introduced several new features to JavaScript. Some of the important features include strict mode, which enforces cleaner coding practices, and new array methods like `forEach`, `map`, and `filter`, which make it easier to work with arrays.

ES6: This stands for ECMAScript 6. It was released in 2015, and it brought significant changes and additions to the language. ES6 introduced `let` and `const` for declaring variables, arrow functions for shorter function syntax, template literals for easier string interpolation, and classes for creating objects in a more object-oriented manner, among many other features.

ES2015: This is another name for ES6. ES2015 is the official name for the sixth edition of ECMAScript. It is often referred to as ES6 or ES2015 interchangeably

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

JScript is a version of JavaScript developed by Microsoft, mainly used in their products. It is mostly compatible with JavaScript, but may have slight differences in syntax and behavior.

ActionScript is a scripting language used in Adobe Flash applications. It is based on ECMAScript, which is the standard specification for JavaScript. ActionScript shares similarities with JavaScript but has unique features specific to the Flash platform.

ECMAScript is the standardized specification for scripting languages like JavaScript. It defines the rules and features of the language. JavaScript is the most widely used

implementation of ECMAScript, but other languages like JScript and ActionScript also follow the ECMAScript standard to varying extents.

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

The JavaScript specification known as ECMAScript 2021 (ES2021) defines the most recent version of the language. It encompasses all the language's rules, syntax, and features, providing a comprehensive guide to JavaScript developers. The specification can be accessed and downloaded from the official website of Ecma International, the organization responsible for standardizing ECMAScript. You can find the JavaScript specification on the official website of Ecma International, the organization responsible for standardizing ECMAScript. The specification documents can be accessed and downloaded from their website.

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

V8, SpiderMonkey, Chakra, and Tamarin are different JavaScript engines used to run JavaScript code. Each engine, developed by Google, Mozilla, Microsoft, and Adobe respectively, focuses on executing JavaScript efficiently. They have different optimizations and implementations but ultimately serve the same purpose of running JavaScript code.

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

<https://caniuse.com/?search=fetch%20>

<https://w3c.github.io/ServiceWorker/#fetchevent-interface>
