

DWA_02.8 Knowledge Check_DWA2

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

ES5 is a version of the ECMAScript standard that introduced significant improvements to JavaScript. It brought enhanced syntax and new methods, making it easier to work with arrays, strings, and objects.

ES6, also known as ES2015, is an upgrade to JavaScript. It introduced modern features like arrow functions, classes, and template literals, enhancing code readability and developer productivity. Modules and let/const declarations were also added.

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

ECMAScript serves as a standardized blueprint that outlines how scripting languages should function.

JavaScript is a dynamic programming language designed for web development. It also adheres to the ECMAScript standard.

JScript is Microsoft's implementation of the ECMAScript specification. It was used for scripting within Internet Explorer.

ActionScript was devised by Macromedia as a scripting language.

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

A JavaScript specification is a formal document that outlines the rules, features, and behavior of the JavaScript programming language. You can find the latest JavaScript specifications on the Technical Committee 39 website (<https://tc39.es/>).

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

V8 is Google's JavaScript engine, used in Chrome. It compiles JavaScript to machine code, enabling fast execution of web apps.

SpiderMonkey is Mozilla's JavaScript engine, powers Firefox. It interprets and compiles JavaScript, enhancing browser performance.

Chakra is Microsoft's JavaScript engine, formerly in Edge. It balances between interpreting and compiling JavaScript for efficient execution.

Tamarin is Adobe's JavaScript engine for Flash. Focuses on optimizing performance and enhancing multimedia experiences.

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

