

# 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 is the fifth version of ECMAScript and it was released in 2009, it supports primitive data types, strings and numbers.

ES6 or ES2015 is the sixth version of ECMAScript, released in 2015, it has a new primitive data type named symbol and it supports unique values.

Therefore ES5 is the fifth version while ES6 and ES2015 is the same thing meaning they are both 6th version of ECMAScript.

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

JScript- is Microsoft's legacy dialect of ECMAScript standard that is used in Microsoft's Internet Explorer web browser.

ActionScript- is an object oriented programming language originally developed by Macromedia Inc.

ECMAScript- is a scripting language specification standardized by ECMA International. Therefore they are all alternative names for JavaScript, JavaScript and JScript are two different implementations with JavaScript developed by Netscape and JScript is Microsoft implementation while ECMAScript is a standard developed by ECMA from the original JavaScript implementation.

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

Collection of documents explaining how javascript and its variants should work, For example MDN Web Docs, it can explain how a single-line commenting should work and all javascript compilers should follow those standard rules.

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

V8- is a free and open source javascript and webAssembly engine developed by Chromium project for Chromium and Google Chrome web browser.

SpiderMonkey- is an open-source javascript and webAssembly engine by mozilla foundation.

Chakra- is a proprietary JScript engine developed by Microsoft. It is used in the internet explorer web browser.

Tamarin- is a discontinued free software virtual machine with in time compilation support intended to implement the 4th edition language standard.

They run differently V8 and SpiderMonkey use javascript , Chakra uses JScript and Tamarin uses ActionScript/ECMAScript.

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5. Show a practical example using [caniuse.com](https://caniuse.com) and the MDN compatibility table.

MDN provide more detailed information to all web technologies, supplementing the reference information provided by MDN Web Docs

Caniuse provide higher level glance information on features supported

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