

# 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?

These refer to different versions of the ECMAScript standard. From the early version to the latest version, each build on the previous version(s).

ES5 - key features include introduction of 'use strict', 'JSON.parse()', 'filter()' and 'map()' to array objects.

ES6 - key features introduction of the 'let' and 'const' for variable declarations.

ES2015 - is the alias of ES6.

(ECMA International, 2017)

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

JScript is a Microsoft scripting language which was founded by reverse engineering JavaScript. It is a scripting language like JavaScript except that it was exclusive to Internet Explorer..

ActionScript is an object oriented scripting language founded by Macromedia. This feature is also available in JavaScript. ActionScript can be considered to be quite limiting with respect to JavaScript.

ECMAScript - It is a general purpose cross-platform scripting language composed of JavaScript, JScript, and ActionScript as the most recent addition in the compound. (stack Overflow, 2008)

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

Below is the example extract from the specifications list of JavaScript, and it can be found from the reference below the extract (ECMA 262: 1st Edition):

*Because a single-line comment can contain any character except a "LineTerminator" character, and because of the general rule that a token is always as long as possible, a single-line comment always consists of all characters from the "/" marker to the end of the line. However, the "LineTerminator" at the end of the line is not considered to be part of the*

*single-line comment; it is recognized separately by the lexical grammar and becomes part of the stream of input elements for the syntactic grammar. This point is very important because it implies that the presence or absence of single-line comments does not affect the process of automatic semicolon insertion (see section 7.8.2).*

— [ECMA 262: 1st Edition](#) (1997)

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

These are types of compilers or JavaScript engines. It might be an advantage to highlight that these are developed for respective specific search engines in order to translate JavaScript lines in a compatible way for their respective search engines before execution. However, across all platforms, the compilers adhere to ECMAScript standard, ensuring that JavaScript codes behave consistently across different search engines. (The coding cloud, 2023)

The answer depends on the intentional perspective behind the question to be concise.

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5. Show a practical example using [caniuse.com](#) and the MDN compatibility table. Caniuse.com is a platform used to test a variety of technologies compatibility with a variety of browsers or search engines. Below 'display' feature is tested.

