

DWA_02.8 Knowledge Check_DWA2

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

ES5 is short for ECMAScript 5. ECMAScript 5 is also known as JavaScript 5.
ECMAScript 5 is also known as ECMAScript 2009.

ES6 is short for ECMAScript 6. ECMAScript was created to standardize JavaScript, and ES6 is the 6th version of ECMAScript, it was published in 2015, and is also known as ECMAScript 2015.

ES2015 is essentially just ECMAScript 6

Difference between ES5 and ES6 :

SR.NO.	ES5	ES6
1.	ECMAScript is a trademarked scripting language specification defined by Ecma international. The fifth edition of the same is known as ES5	ECMAScript is a trademarked scripting language specification defined by Ecma international. The sixth edition of the same is known as ES6
2.	It was introduced in 2009.	It was introduced in 2015.

3.	It supports primitive data types that are string, number, boolean, null, and undefined.	In ES6, there are some additions to JavaScript data types. It introduced a new primitive data type 'symbol' for supporting unique values.
4.	There is only one way to define the variables by using the var keyword.	There are two new ways to define variables that are let and const.
5.	It has a lower performance as compared to ES6.	It has a higher performance than ES5.
6.	Object manipulation is time-consuming in ES5.	Object manipulation is less time-consuming in ES6.
7.	In ES5, both function and return keywords are used to define a function.	An arrow function is a new feature introduced in ES6 by which we don't require the function keyword to define the function.

8.	It provides a larger range of community supports than that of ES6	It provides a less range of community supports than that of ES5
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2. What are JScript, ActionScript and ECMAScript - and how do they relate to JavaScript?

JScript is a language developed by Microsoft which is basically a dialect of Javascript, Jscript was primarily used by the internet explorer browser.

ActionScript is a language developed by Adobe Systems used with Adobe Flash and multimedia software. ActionScript is also based on Javascript

ECMAScript is the standardization of JavaScript, ActionScript and JScript. Javascript is the most widely known and used of ECMAScript

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

Example:

12.4 Comments

Comments can be either single or multi-line. Multi-line comments cannot nest.

<https://262.ecma-international.org/14.0/#sec-white-space>

You can find all these specifications at:

<https://262.ecma-international.org/14.0/>

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

V8, SpiderMonkey, Chakra, and Tamarin are JavaScript engines used in web browsers.

V8 - used in Chrome (

SpiderMonkey - used in FireFox

Chakra - used in Internet Explorer

Tamarin - used in Adobe Systems

Each engine is used to execute Javascript code, All engines have their own way of executing the code for their browsers. Each engine might have different implementations and performance characteristics.

V8 is said to be the fastest JS engine available currently.

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

Here I search Can I use Object.entries?

The caniuse website will show me which websites and versions are compatible with full support, partial support or no support

<https://caniuse.com/object-entries>

On MDN you can also see the browser compatibility however caniuse makes it much easier to see other versions of browsers

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object/entries#browser_compatibility
