

DWA_02.8 Knowledge Check_DWA2

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

- ES5 , ES6 & ES2015 are terms used to refer to different versions of the ECMAScript specification.
- The difference between the them are :
 - The years they were released (ES5 was released in 2009 and ES6/ ES2015 was released in 2015)
 - The features:
ES5 used the variable var , ES6 uses let/const .
ES6 introduced new features such as Classes,
Modules,Template literals,Destructuring assignment and many more .

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

- ECMAScript is the core scripting language standard which is the foundation for JavaScript, JScript, and ActionScript.
- JavaScript is the most well-known implementation of ECMAScript, used primarily for web development.
- JScript is Microsoft's version of ECMAScript, used in Internet Explorer, with some Windows-specific features.
- ActionScript is Adobe's version used for Flash applications.

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

```
// Function to add two numbers
function add(a, b) {
  if (typeof a !== 'number' || typeof b !== 'number') {
    throw new TypeError('Both arguments must be numbers.');
```

```
  }
  return a + b;
}
```

In the example there's a JavaScript function called `add` that takes two numbers as arguments and returns their sum. If the arguments are not numbers, it throws an error

- You can find the specifications on the website of Ecma International.

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

- V8, SpiderMonkey, Chakra, and Tamarin are JavaScript engines, and they do run JavaScript code differently in terms of their implementation and execution strategies.

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

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JavaScript statement: let

Usage % of all users ?
Global 93.18% + 0.56% = 93.74%

☆

Current aligned Usage relative Date relative Filtered All

Chrome	Edge	Safari	Firefox	Opera	IE	Chrome for Android	Safari on iOS	Samsung Internet	Opera Mini	Opera Mobile	UC Browser for Android	Android Browser	Firefox for Android
4-40													
41-48	12-13	3.1-9.1	2-43	10-16			3.2-9.3	4					
49-116	14-116	10-16.5	44-116	17-101	6-10		10-16.6	5-21		12-12.1		2.1-4.4.4	
117	117	16.6	117	102	11	117	17.0	22	all	73	15.5	117	117
118-120		17.0-TP	118-120				17.1						


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	Desktop					Mobile	
	Chrome	Edge	Firefox	Opera	Safari	Firefox for Android	Safari on iOS
<code>action</code>	✓ 88	✓ 88	✓ 109	✓ 74	✓ 15.4	✓ 109	✓ 15.4
<code>action.browser_style</code>	✗ No	✗ No	✗ 109-117	✗ No	✗ No	✗ No	✗ No
<code>action.default_area</code>	✓ 88	✓ 88	✓ 109	✓ 74	✗ No	✗ No	✗ No
<code>action.default_icon</code>	✓ 88	✓ 88	✓ 109	✓ 74	✓ 15.4	✗ No	✓ 15.4

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