

DWA_02.8 Knowledge Check_DWA2

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

- these are the different versions of Javascript released from 2009 onwards till current.
- ES5 was released in 2009 which brought minor improvements while ES6 brought big improvements such as arrow functions, template literals, classes, modules and the spread operator.
- ES2015 and onwards is when the naming scheme changed to reflect the year of the update to avoid confusion.

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

-JScript was the original javascript language written reverse engineered by microsoft to be used by their new web browser "internet explorer", ActionScript was written by third competitor Macromedia. ECMAScript is the standardised scripting language introduced by netscape to be compatible to be used by all browsers.

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

-a specification is how a certain code should work in the language eg. how comments should work -In short:

- The compiler should not execute single-line comments.
- Single-line comments should always start with "//"
- Single-line comments accept any character except line breaks.
- Single-line comments end before the first line breaks

-can be found on

<https://www.ecma-international.org/publications/files/ECMA-ST-ARCH/ECMA-262,%201st%20edition,%20June%201997.pdf>] or the github link for dynamic updates and thoughts on what should be changed by the community [<https://github.com/tc39>]

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

-the different engines developed by various browsers to execute the javascript code

- V8 is used by google chrome
- Spidermonkey is used by mozilla firefox
- Chakra is used internet explorer
- Tamarin is used by adobe for flash player

-each engine varies in performance and compatibility.

(chakra is now used in edge because internet explorer was discontinued)

(tamarin is now not used anymore because adobe flash player was discontinued)

















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

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	QQ Browser	B
												2.1-4.3			
4-112	12-112	3.1-16.4	2-112	10-97	6-10		3.2-16.4	4-19.0		12-12.1		4.4-4.4.4			
113	113	16.5	113	98	11	113	16.5	20	all	73	13.4	113	113	13.1	
114-116		16.6-TP	114-115												

Notes Test on a real browser Feedback

See full reference on [MDN Web Docs](https://mdn.com).

Caniuse compatibility of certain browser support for the toString

													
	 Chrome	 Edge	 Firefox	 Opera	 Safari	 Chrome Android	 Firefox for Android	 Opera Android	 Safari on iOS	 Samsung Internet	 WebView Android	 Deno	 Node.js
<code>toString</code>	✓ 1	✓ 12	✓ 1	✓ 3	✓ 1	✓ 18	✓ 4	✓ 10.1	✓ 1	✓ 1.0	✓ 4.4	✓ 1.0	✓ 0.10.0

Tip: you can click/tap on a cell for more information.