

DWA_02.8 Knowledge Check_DWA2

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

They refer to a specific version of JavaScript or even by a suffixed date. Each new version of JavaScript adds new features and new improvements.

-ES5 was released in 2009 and was when they added strict mode.

-ES6 is also known as ES2015 and added the arrow function to JavaScript.

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

-JScript was reverse engineered from JavaScript by Microsoft to be used in Internet Explorer.

-ActionScript was created by Macromedia as a knock-off language of JavaScript.

-ECMAScript stands for European Computer Manufacturers Association Script and JavaScript is an implementation of ECMAScript.

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

A JavaScript specification is a requirement or set of requirements that are standardized by ECMA, they outline how JavaScript should be written and how it behaves. You can find the Specification on the ECMA international website you can follow the latest developments of the language from the TC39 github. .

4. What are v8, SpiderMonkey, Chakra and Tamarin? Do they run JavaScript differently? v8(google), SpiderMonkey(Mozilla firefox), Chakra(Microsoft internet explorer) and Tamarin(adobe systems) are compilers that run your code in the browser. They do run JavaScript differently as they are managed by different companies though all of them use just-in-time(JIT) compilation besides Chakra.

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

The screenshot shows the caniuse.com website for the feature 'globalThis'. It displays a compatibility table for various browsers and their versions. The table is color-coded: green for 'All versions supported', orange for 'Partial support', and red for 'No support'. The 'globalThis' feature is supported in all modern browsers.

Browser	Version	Support
Chrome	4-70	Full support
Edge	12-18	Full support
Safari	3.1-12	Full support
Firefox	2-64	Full support
Opera	10-57	Full support
IE	6-10	Full support
Chrome for Android	3.2-12.1	Full support
Safari on iOS	4-9.2	Full support
Samsung Internet	12.2-16.4	Full support
Opera Mini	10.1-19.0	Full support
Opera Mobile	12-12.1	Full support
UC Browser for Android	7.3	Full support
Android Browser	13.4	Full support
Firefox for Android	11.3	Full support
QQ Browser	11.3	Full support
B	13.1	Full support

The screenshot shows the MDN Web Docs page for the 'this' keyword. It includes a compatibility table for various browsers and their versions. The table is color-coded: green for 'Full support', orange for 'Partial support', and red for 'No support'. The 'this' keyword is supported in all modern browsers.

Browser	Version	Support
Chrome	1	Full support
Edge	12	Full support
Firefox	9.5	Full support
Opera	1	Full support
Safari	1	Full support
Chrome Android	1	Full support
Firefox for Android	1	Full support
Opera Android	10.1	Full support
Safari on iOS	1	Full support
Samsung Internet	1	Full support
WebView Android	1	Full support
Deno	1.0	Full support
Node.js	0.10.0	Full support

Both of them show which browser is compatible with the “This” JavaScript keyword.
