# 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?


- ES5 stands for ECMAScript 5
- ES5 stands for ECMAScript 2015
- ES2015 is just another name for ES6


**What are the differences between them?**
**ES5**
- It was released in 2009.
- We can only define the variables by using the var keyword.
- It is time-consuming.
- It is the fifth edition of the ECMAScript.
- Both function and return keywords are used to define a function.

**ES6**
- It was released in 2015.
- There are two ways to define variables, which are let and const.
- Due to destructuring and speed operators, object manipulation can be processed more smoothly in ES6.
- It is the sixth edition of the ECMAScript.
- It has an arrow function feature which allows the user to define the function without using function keyword

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

- JScript is a scripting language developed by Microsoft Corporation. It is an implementation of the ECMAScript (ECMA-262) standard, which is the same standard on which JavaScript is based.
- ActionScript is a scripting language developed by Adobe Systems. ActionScript and JavaScript are both based on ECMAScript.
- ECMAScript is a standardized scripting language specification. It defines the syntax, semantics, and behavior of a scripting language, providing a common foundation for

various implementations. JavaScript is one of the most popular implementations of the ECMAScript standard.

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

ECMAScript 2021 (ES2021) specification, It can be found on the official website of Ecma International:  https://www.ecma-international.org/publications/standards/Ecma-262.htm.

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

 **v8**
It is a free and open-source JavaScript and WebAssembly engine developed by the Chromium Project for Chromium and Google Chrome web browsers. It i's the JavaScript engine developed by Google for the Chrome browser

**SpiderMonkey**
It is an open-source JavaScript and WebAssembly engine by the Mozilla Foundation. It is the JavaScript engine developed by Mozilla for the Firefox browser.

**Chakra**
It is a proprietary JScript engine developed by Microsoft. It is used in the Internet Explorer web browser. It is the JavaScript engine developed by Microsoft.

**Tamarin**
It is a discontinued free software virtual machine with just-in-time compilation (JIT) support intended to implement the 4th edition of the ECMAScript (ES4) language standard. It was a JavaScript engine developed by Adobe Systems for the Adobe Flash Player.

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

# JavaScript function: get 📄

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 | QQ Browser | Baidu Browser | KaiOS Browser |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 6-8 | | | | | | | 2.1-4.3 | | | | |
| 4-112 | 12-112 | 3.1-16.4 | 2-112 | 10-98 | 9-10 | | 3.2-16.4 | 4-20 | | 12-12.1 | | 4.4-4.4.4 | | | | 2.5 |
| 113 | 113 | 16.5 | 113 | 99 | 11 | 113 | 16.5 | 21 | all | 73 | 13.4 | 113 | 113 | 13.1 | 13.18 | 3.1 |
| 114-116 | | 16.6-TP | 114-115 | | | | | | | | | | | | | |

Notes | Test on a real browser | Sub-features | Feedback

See full reference on MDN Web Docs.

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