

DWA_02.8 Knowledge Check_DWA2

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

- They are different versions of JavaScript writing standards.
 - ES5 is the first revision of JS and uses a one way of defining variables using var as a keyword
 - ES6/ES2015 introduced 2 more ways of defining variables making use of let and const, where variables defined by const are immutable/unchangeable.
 - ES6/ES2015 provides a more easy way to define objects when the keys and variables are the same.
 - ES6 was renamed to ES2015
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2. What are JScript, ActionScript and ECMAScript - and how do they relate to JavaScript?

- ECMAScript is a subset(part of a larger group) of JavaScript and a standard for performing computations in Web applications.
 - JScript is a scripting language owned by Microsoft. Reverse engineered from JS.
 - Action script is a knock-off version of JavaScript.
 - ECMAScript is the core script used by JavaScript, JScript and ActionScript.
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3. What is an example of a JavaScript specification - and where can you find it?

- Single-line comments should always start with "//"

Can be found in :

ECMA 262: 1st Edition (1997)

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

- They are all different JavaScript compilers .
- Chakra is a JScript engine developed by Microsoft.
- A new JavaScript engine was created for its Microsoft Edge browser, however Microsoft Edge switched to the v8 JavaScript engine in 2020.
- SpiderMonkey is an open sourced JavaScript engine.
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5. Show a practical example using caniuse.com and the MDN compatibility table.

The screenshot shows the CanIUse website interface. At the top, there's a search bar with "chrome" entered. Below it, a summary shows "4 results found" with checkboxes for "CanIuse (3)" and "MDN (1)". The main content area displays the feature "CSS at-rule: @media: monochrome media feature" with a usage bar indicating "Global" usage at "95.29%". Below this, a detailed compatibility table is shown, listing various browsers and their versions that support the feature. A green callout box highlights "Opera 73 for Android" with support info.

| Browser | Version | Support |
|------------------------|------------------|-----------------------|
| Chrome | 4-114 | Supported |
| Edge | 79-114 | Supported |
| Safari | 3.1-16.4 | Supported |
| Firefox | 2-114 | Supported |
| Opera | 10-99 | Supported |
| IE | 6-10 | Not supported |
| Chrome for Android | 114 | Supported |
| Safari on iOS | 3.2-16.4 | Supported |
| Samsung Internet | 4-20 | Supported |
| Opera Mini | all | Supported |
| Opera Mobile | 12-12.1 | Supported |
| UC Browser for Android | 73 | Supported |
| Android Browser | ✓ Supported | Released Jan 16, 2023 |
| Firefox for Android | Usage Global: 0% | |
| QQ Browser | | |
| Brave | | |