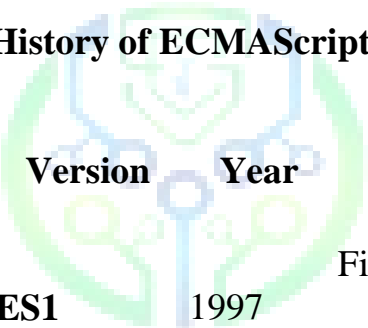


## What is ECMAScript?

ECMAScript (ES) is a scripting language specification that serves as the foundation for JavaScript. It standardizes the core features of JavaScript, ensuring consistency across different implementations like web browsers and servers. The **European Computer Manufacturers Association (ECMA)** created ECMAScript to provide a standardized language for scripting across different platforms.

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## History of ECMAScript



Version	Year	Key Features
ES1	1997	First version, introduced basic JavaScript syntax and features.
ES2	1998	Minor updates and improvements for better standardization.
ES3	1999	Introduced regular expressions, try/catch for error handling, and better string manipulation.
ES4	<i>Canceled</i>	Proposed major changes, but it was abandoned due to complexity.

Version	Year	Key Features
<b>ES5</b>	2009	Added <code>strict mode</code> , JSON support, <code>Array.prototype.map()</code> , and <code>Object.defineProperty()</code> .
<b>ES6</b> <b>(ES2015)</b>	2015	Major update: <code>let</code> & <code>const</code> , arrow functions, template literals, classes, promises, and modules.
<b>ES7</b> <b>(ES2016)</b>	2016	Introduced <code>Array.prototype.includes()</code> and <code>**</code> (exponentiation operator).
<b>ES8</b> <b>(ES2017)</b>	2017	Added <code>async/await</code> , <code>Object.entries()</code> , and <code>Object.values()</code> .
<b>ES9</b> <b>(ES2018)</b>	2018	Rest/spread properties, <code>Promise.prototype.finally()</code> , and asynchronous iteration.
<b>ES10</b> <b>(ES2019)</b>	2019	<code>Array.flat()</code> , <code>Object.fromEntries()</code> , and optional catch binding.
<b>ES11</b> <b>(ES2020)</b>	2020	<code>BigInt</code> , <code>??</code> (nullish coalescing), optional chaining ( <code>?.</code> ), and <code>Promise.allSettled()</code> .
<b>ES12</b> <b>(ES2021)</b>	2021	Logical assignment operators, <code>String.replaceAll()</code> , and <code>WeakRefs</code> .
<b>ES13</b> <b>(ES2022)</b>	2022	Top-level <code>await</code> , class fields, and improved <code>RegExp</code> features.

Version	Year	Key Features
ES14 (ES2023)	2023	New array methods like <code>toSorted()</code> , <code>toSpliced()</code> , and improved symbol support.

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## Conclusion

ECMAScript continues to evolve, introducing new features to improve JavaScript's efficiency, security, and performance. Each version adds enhancements that make JavaScript more powerful for web and server-side applications.



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