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Node.js

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Node.js — Run JavaScript Everywhere

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Event Loop

Event Loop Explained. When Node.js starts, it initializes the ...

Environment variables

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Package Manager

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Introduction to Node.js

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Node.js

Article Talk

From Wikipedia, the free encyclopedia

Node.js is a cross-platform, open-source ^{JavaScript} runtime environment that can run on Windows, Linux, Unix, macOS, and more. Node.js runs on the V8 JavaScript engine, and executes JavaScript code outside a web browser.

Node.js lets developers use JavaScript to write command line tools and for server-side scripting. The ability to run JavaScript code on the server is often used to generate dynamic web page content before the page is sent to the user's web browser. Consequently, Node.js represents a "JavaScript everywhere" paradigm,¹⁰ unifying web-application development around a single programming language, as opposed to using different languages for the server- versus client-side programming.

Node.js has an event-driven architecture capable of asynchronous I/O. These design choices aim to optimize throughput and scalability in web applications with many input/output operations, as well as for real-time Web applications (e.g., real-time communication programs and browser games).¹¹

The Node.js distributed development project was previously governed by the Node.js Foundation,¹² and has now merged with the JS Foundation to form the OpenJS Foundation. OpenJS Foundation is facilitated by the Linux Foundation's Collaborative Projects program.¹³

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