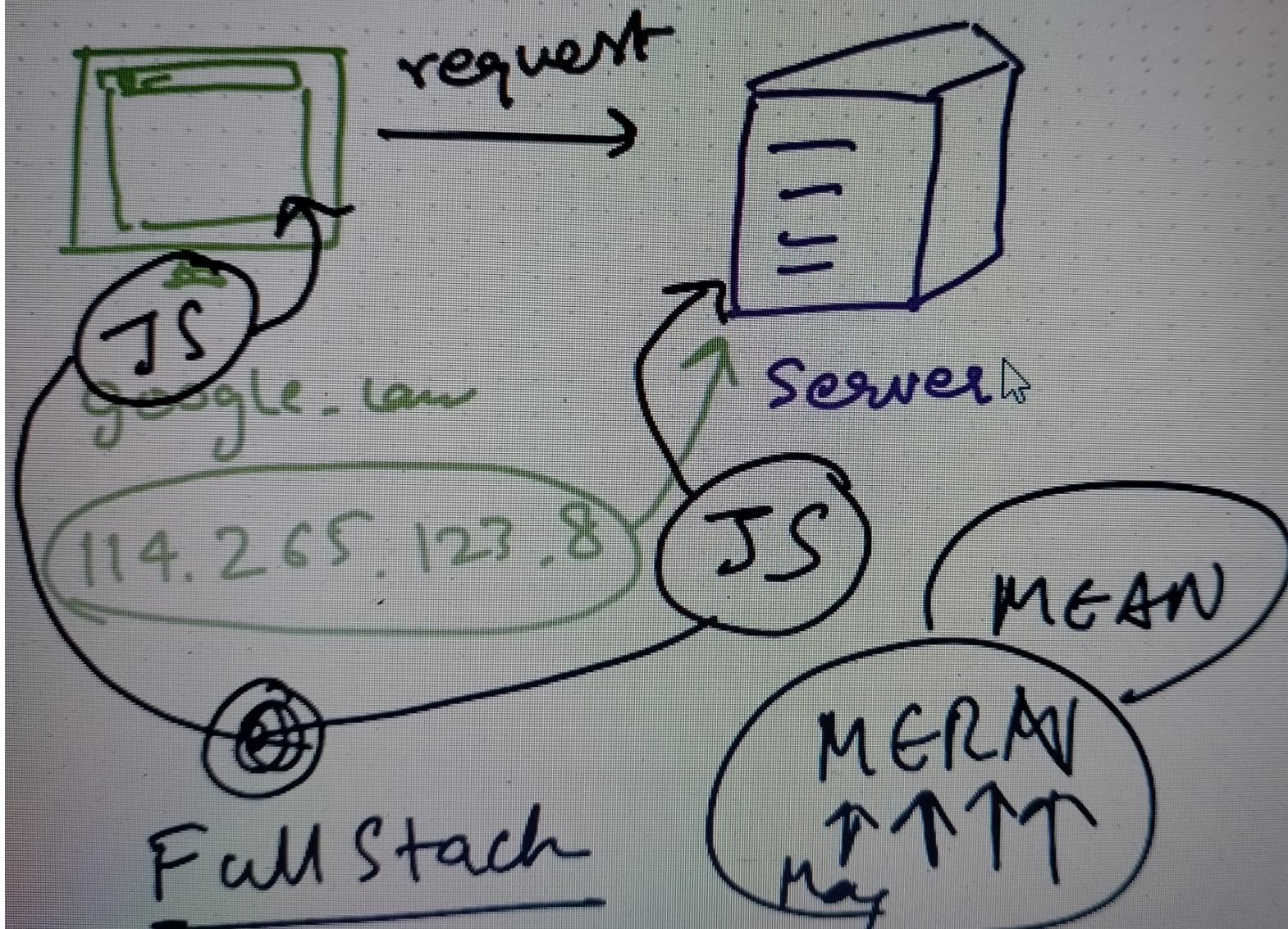


Node JS — JS on Server



Node.js is C++ code? ..

JS Engine - V8 (Google)

↓
C++ program

»

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What is V8?

V8 is Google's open source high-performance JavaScript and WebAssembly engine, written in C++. It is used in Chrome and in Node.js, among others. It implements ECMAScript and WebAssembly, and runs on Windows, macOS, and Linux systems that use x64, IA-32, or ARM processors. V8 can be embedded into any C++ application.

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ode-02

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ECMAScript

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From Wikipedia, the free encyclopedia

ECMAScript (/ɛk'mæskrɪpt/; ES)^[1] is a standard for scripting languages, including **JavaScript**, **JScript**, and **in-kind** script. It is best known as a JavaScript standard intended to ensure the interoperability of web pages across different web browsers.^[2] It is standardized by Ecma International in the document ECMA-262.

ECMAScript is commonly used for client-side scripting on the World Wide Web, and it is increasingly being used for server-side applications and services using runtime environments - **Node.js**,^[3] **deno**^[4] and **bun**.^[5]

ECMAScript, ECMA-262, JavaScript

ECMA-262, or the *ECMAScript Language Specification*, defines the *ECMAScript Language*, or just **ECMAScript**.^[6] ECMA-262 specifies only language syntax and the semantics of the core application programming interface (API), such as **Array**, **Function**, and **globalThis**, while valid implementations of JavaScript add their own functionality such as input/output and file system handling.

History

The ECMAScript specification is a standardized specification of a scripting language developed by Brendan Eich of Netscape; initially named Mocha, then LiveScript, and finally JavaScript.^[7] In December 1995, Sun Microsystems and Netscape announced JavaScript in a press release.^[8] In November 1996, Netscape announced a meeting of the Ecma International standards organization to advance the standardization of JavaScript.^[9] The first edition of ECMA-262 was adopted by the Ecma General Assembly in June 1997. Several editions of the language standard have been published since then. The name "ECMAScript" was a compromise between the organizations involved in standardizing the language, generally Netscape and Microsoft, whose

ECMAScript

Paradigm	Multi-paradigm: prototype-based, functional, imperative
Designed by	Brendan Eich, Ecma International
First appeared	1997; 27 years ago
Typing discipline	weak, dynamic
Website	www.ecma-international.org/publications-and-standards/standards/ecma-262/
Major implementations	
JavaScript, ActionScript, JScript, QScript, InScript, Google Apps Script	
Influenced by	
Self, HyperTalk, AWK, C, CoffeeScript, Perl, Python, Java, Scheme	

ECMAScript (file format)

Filename extensions	.es
Internet media type	application/ecmascript
Developed by	Sun Microsystems, Ecma International
Initial release	June 1997; 27 years ago

Text

Small

Standard

Large

Width

Standard

Wide



ECMA Script Standards ←

- Standards / Rules

(JS Engines follow these standards)

- V8 - Google
- SpiderMonkey - Firefox
- Chakra - MS,
- JSCore - Safari

Node JS is a C++ application
with V8 embedded into it

