**[Node.js](https://www.educba.com/course/node-js-training/)** is server-side scripting language which runs at server side, inventor of Node.js is **Ryan Dahl**.

It is open source, cross-platform, [Javascript runtime environment](https://www.educba.com/course/javascript-tutorials/) which is capable to Execute javascript code at server side earlier javascript was used at client side validation only With node.js it is playing its role from both side front end and backed.

Node.js is a platform built on Chrome’s JavaScript runtime it helps to develop building scalable network applications. It uses an event-driven, non-blocking I/O model which makes it an ideal option for developing for data-intensive [real-time applications](https://www.educba.com/course/real-time-face-detection-python/).

Node.js is a server-side JavaScript environment. It uses an asynchronous event-driven model and is designed for writing scalable Internet applications, notably web servers. Thus, Node.js gets excellent performance based on the architectures of many Internet applications

Node.js offers greater performance and speed. It is an ideal solution for developing messaging or chatting applications. It is also useful for developing heavy-load applications and e-commerce sites that depend on the speed of processing.

Maintenance and Handling of large volumes of customer data

[Node.js uses a single threaded model](https://www.educba.com/node-js-commands/) with event looping. This type of event mechanism benefits the server to respond in a non-blocking way. Is built on V8 JavaScript Engine makes it fastest code execution library. There is no buffering in Node.js as applications output the data in pieces.