



# Back-End (Part 2)

## Node.JS Basics

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- 
- A vertical timeline chart showing the evolution of Node.js. A single vertical white line serves as the timeline, with various colored circular markers placed along it at specific years. To the left of each marker is the year, and to the right is a descriptive text entry.
- 1995 JavaScript
  - 2008 Chrome
  - 2009 Node.js
  - 2011 Uber, LinkedIn, etc.
  - 2014 ES6 Support
  - 2015 Foundation > MS, IBM
  - 2020 Github acquires npm

<https://www.section.io/engineering-education/history-of-nodejs/>

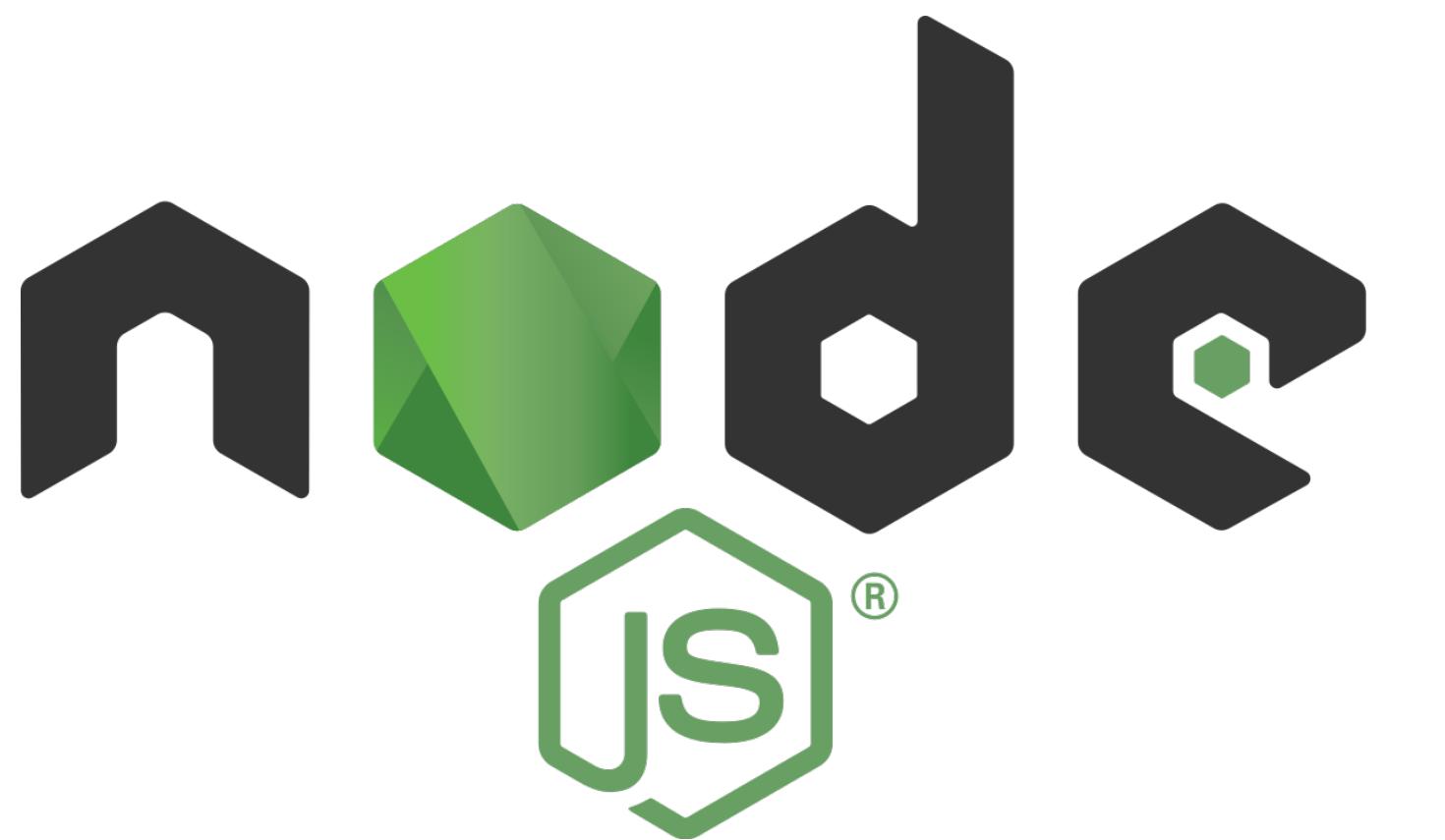
[https://en.wikipedia.org/wiki/Ryan\\_Dahl](https://en.wikipedia.org/wiki/Ryan_Dahl)

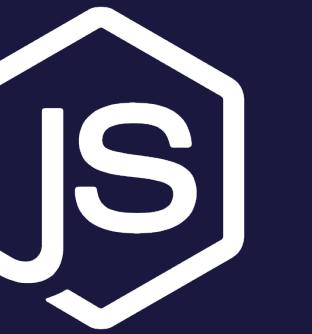
<https://www.freecodecamp.org/news/what-exactly-is-node-guide-for-beginners/>



### Simple HTTP Server

```
1  var http = require('http');
2
3  http.createServer(function (req, res) {
4    res.writeHead(200, {'Content-Type': 'text/plain'});
5    res.end('Hello World\n');
6  }).listen(1337);
7
8  console.log('Server running at http://127.0.0.1:1337/');
```

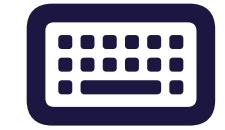




**Single  
Threaded**

**Event Loop  
Model**

**Async  
operations**



Demo

# Let's install Node JS

Node.js® is an open-source, cross-platform JavaScript runtime environment.

Download Node.js®

20.9.0 LTS

Recommended For Most Users

21.1.0 Current

Latest Features

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For information about supported releases, see the [release schedule](#).

# Core globals

fs

path

process

events

http

## Importing a module

```
const fs = require('...');
```

**fs**

`fs.read()`

`fs.write()`

`fs.mkdir()`

• • •

`fs.read()`    `fs.readSync()`

path

path.basename()

path.join()

path.relative()

... . .

process

process.argv

process.stdin

process.exit()

events

e.emit()

e.on()

e.once()

... . . .

EventEmitter



http

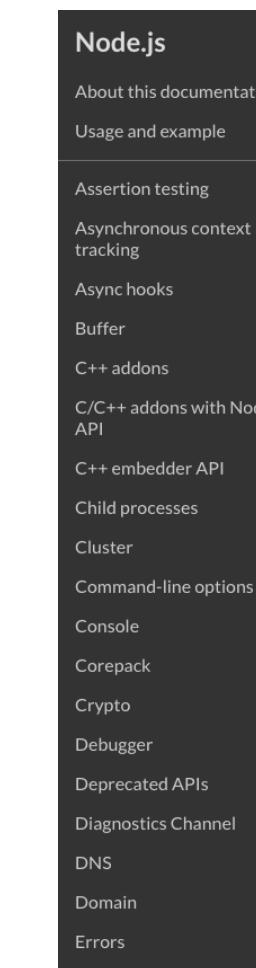
http.get()

http.request()

http.createServer()

• • •

# Let's Explore Node.js API



## Node.js v20.9.0 documentation

▶ Other versions | ▶ Options

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