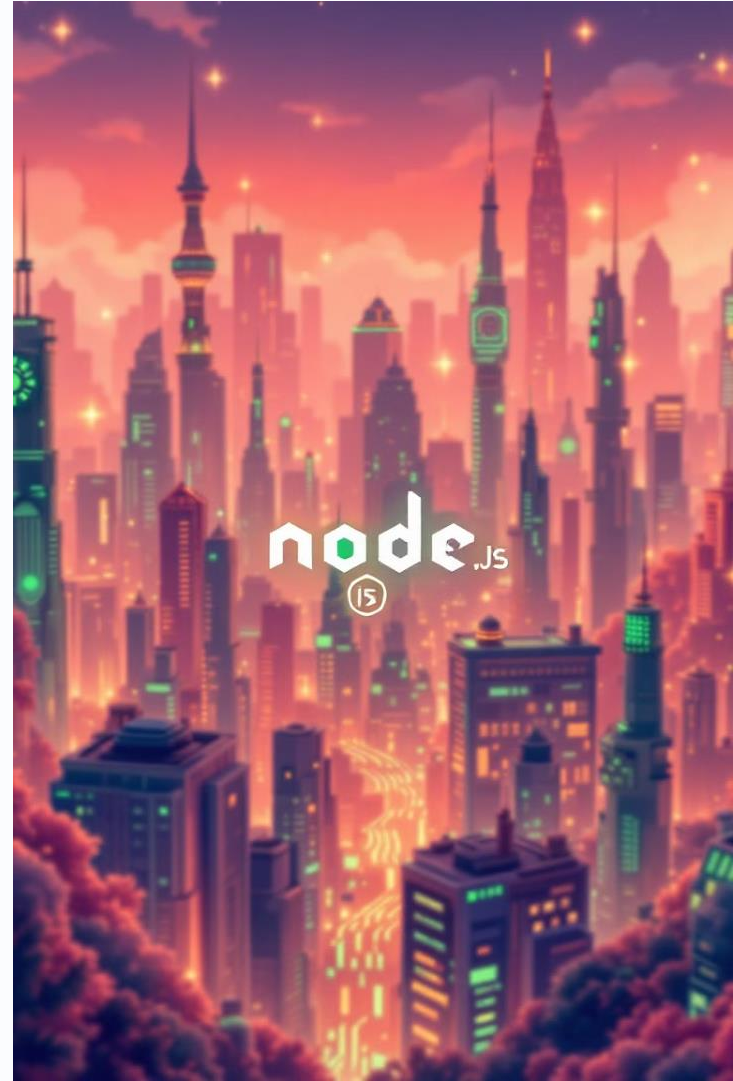
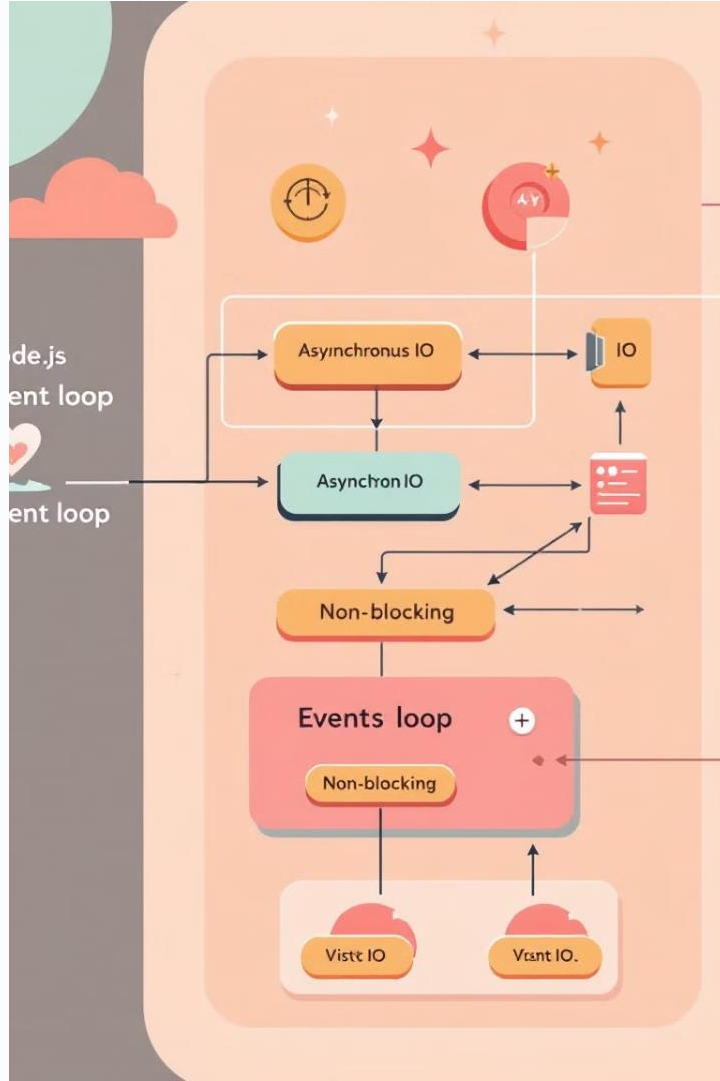


Introduction to Node.js

JavaScript runtime powering modern web development.

경한 작성자: 경한 김





What is Node.js?

Open-Source Runtime

Cross-platform JavaScript environment for server-side applications.

V8 Engine

Built on Chrome's high-performance JavaScript engine.

Created in 2009

Developed by Ryan Dahl, revolutionizing server-side JavaScript.



Key Features



Event-Driven

Efficiently handles concurrent operations.



NPM

Vast ecosystem of reusable modules.



Scalable

Easily handles growing demands of applications.



Cross-Platform

Runs on various operating systems seamlessly.



Why Choose Node.js?

1

Fast Execution

V8 engine optimizes for high-speed performance.

2

JavaScript Everywhere

Use same language for front-end and back-end.

3

Rich Ecosystem

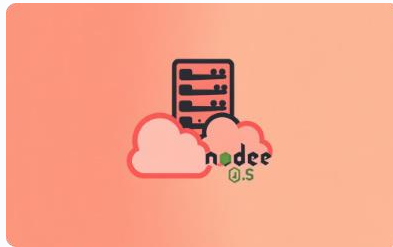
NPM offers extensive libraries and tools.

4

Enterprise Ready

Scalable and reliable for large-scale applications.

Popular Use Cases



Web Servers

Build robust and scalable web applications.



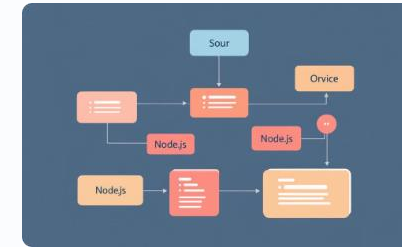
Real-time Apps

Create responsive, real-time communication systems.



CLI Tools

Develop powerful command-line utilities efficiently.



Microservices

Build flexible, modular application architectures.

Code Example

```
const http = require('http');
const server = http.createServer((req, res) => {
  res.writeHead(200, { 'Content-Type': 'text/plain' });
  res.end('Hello World!');
});
server.listen(3000, () => {
  console.log('Server running at http://localhost:3000/');
});
```

1 Import HTTP Module

Node.js core module for server creation.

2 Create Server

Define request handler and response.

3 Listen on Port

Start server on specified port.





Getting Started

1

Download Node.js

Visit nodejs.org and choose LTS version.

2

Verify Installation

Check node and npm versions in terminal.

3

Create First App

Initialize project, write code, run application.

4

Explore NPM

Install packages and manage dependencies.

Learning Resources

Official Documentation

Comprehensive guides at nodejs.org.

GitHub Repository

Explore source code and contribute.

Online Courses

- [Udemy](#)
- [Coursera](#)
- [freeCodeCamp](#)

Community Forums

Engage with experienced developers for advice or support.

Workshops and Meetups

Attend local events to network and learn.