

Presentation #1

INTRODUCTION TO NODE JS

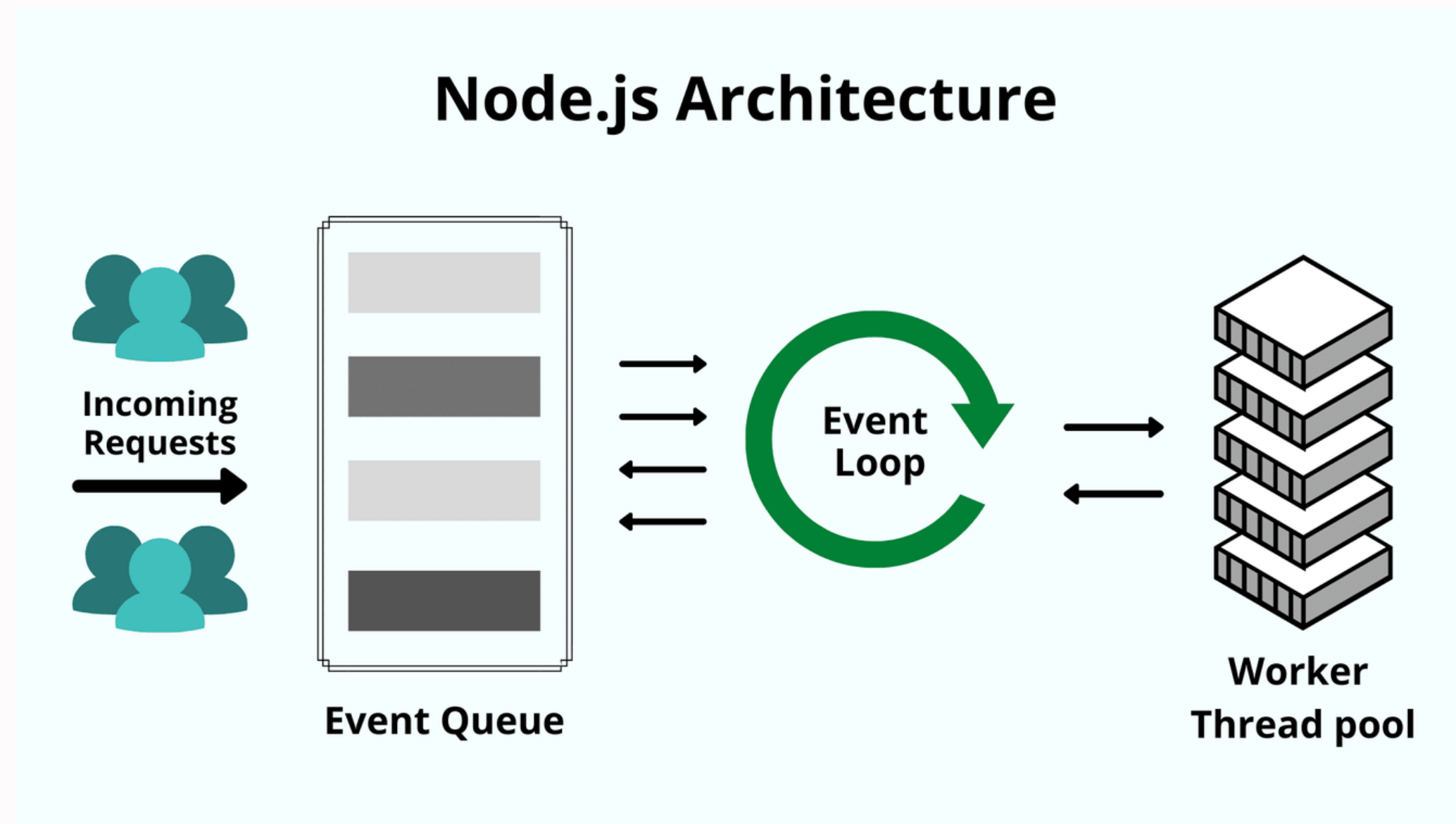
Github Organization

CREATED BY

KETI ELIZBARASHVILI

Overview of Node.js

- JavaScript runtime environment based on Chrome's V8 engine.
- Executes JavaScript code server-side.
- Used for building fast and scalable network applications.



What is Node.js?

JavaScript Runtime Environment Based on Chrome's V8 Engine:

Leverages Google Chrome's V8 engine for executing JavaScript.
Converts JavaScript into efficient machine code for faster execution.

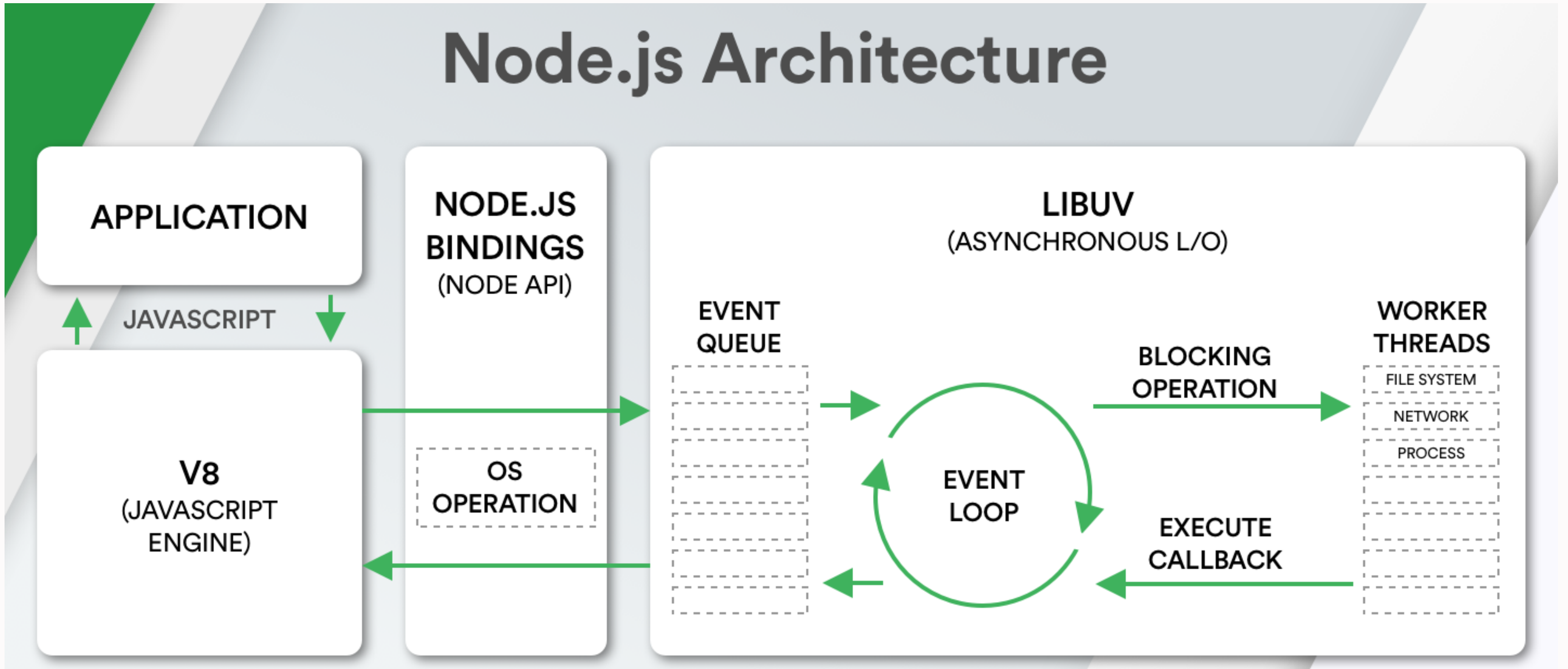
Executes JavaScript Code Server-Side:

Extends JavaScript capabilities from browser to server.
Enables server-side scripting, APIs, and application logic in JavaScript.

Used for Building Fast and Scalable Network Applications:

Ideal for real-time applications and data-intensive tasks.
Facilitates high-performance networking with its event-driven model.

Node.js Architecture

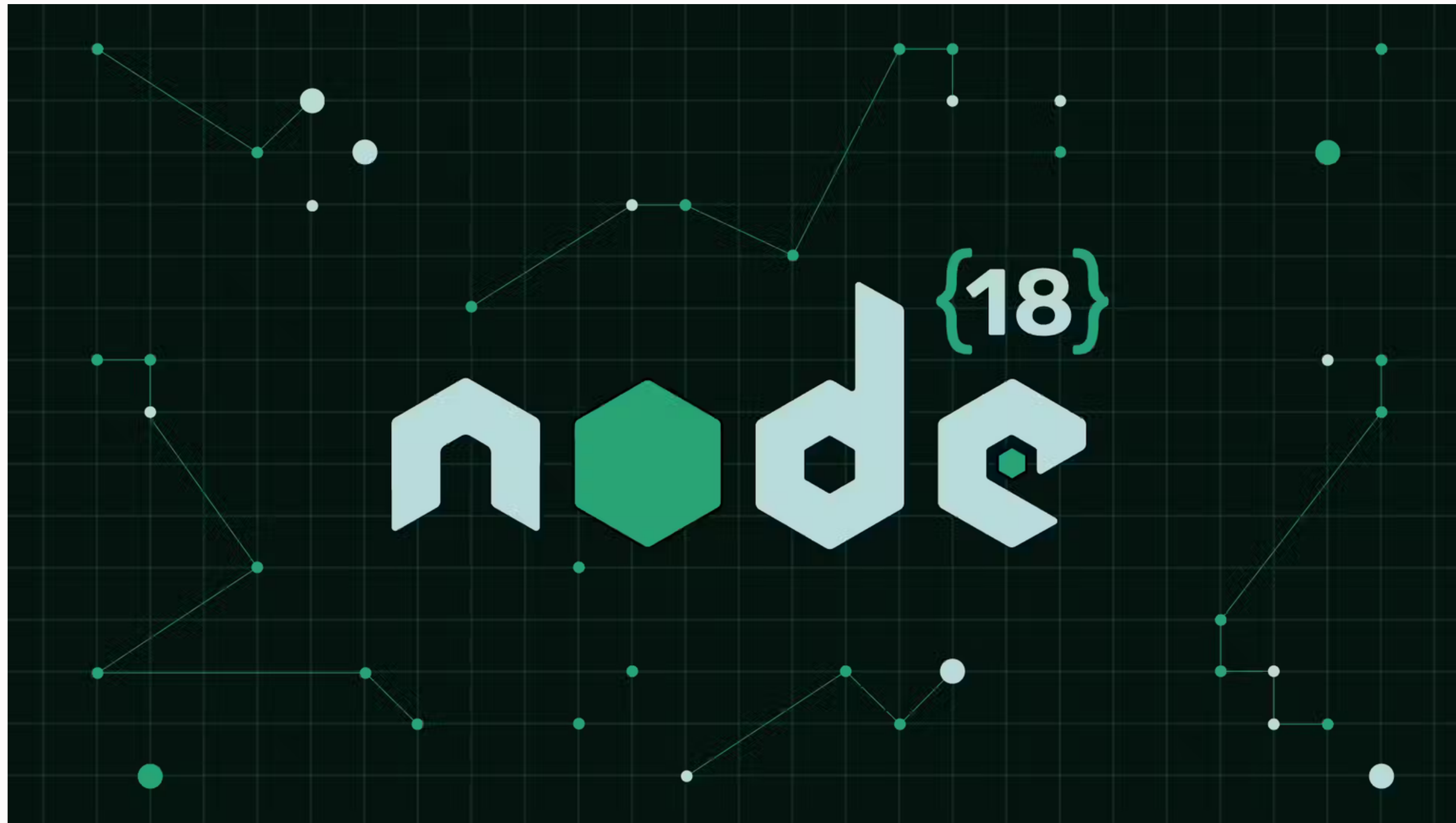


Setting Up Node JS

Downloading Node.js from nodejs.org.

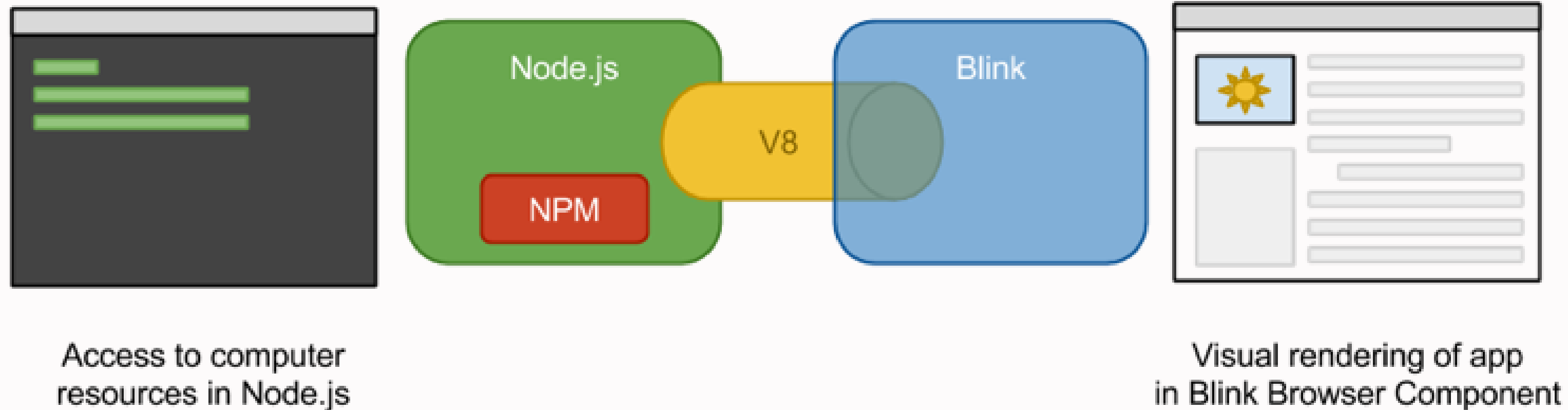
Verifying installation via the command line.

Creating a simple Node.js application.



The Node.js Ecosystem

Rich package ecosystem with npm (Node Package Manager).
Wide variety of libraries and frameworks (Express.js, Socket.io, etc.).
Strong community support and resources.



Summary

Node.js as a versatile JavaScript runtime environment for server-side programming.
Its non-blocking, event-driven architecture that enables efficient handling of I/O operations.
The benefits it brings to full-stack development and real-time applications.

Resources for Further Learning:

- Official Node.js <https://nodejs.org/en> for documentation and downloads.
- Node.js GitHub repository: <https://github.com/nodejs/node> to view the source code, contribute to the project, or report issues.



Node JS - 1

Node JS - 1 has one repository available. Follow their code on GitHub.



GitHub