Gessa Tutoring

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Agenda

- What is node.js?
- Setting up node.js
- Requirements for a node application
- Demo

Disclaimer

I am not an expert in node.js!

If I don't know something, I'll try to get back to you later
or you can let me know :)

References

1. Node.js - Wikipedia
2. Node Beginner by Manuel Kiessling
3. https://www.npmjs.com/

What is node.js?

Node.js is a cross-platform single threaded event driven non-blocking asynchronous runtime environment used to build server-side applications.

What is a server?

- Java (Servlets, JSP)
- Python (Flask, Django)
- Ruby (Rails)

Non-Blocking

- What is a blocking operation?
- How does node.js execute a blocking operation?
- Why is blocking important?

Single Threaded

Node.js operates on a single thread, using non-blocking I/O calls, allowing it to support tens of thousands of concurrent connections without incurring the cost of thread context switching.

Setting up Node.js

- Download from https://nodejs.org/en/download/
- Running on console - node <server-file>.js

What do we need?

To build a cool node.js
application...

- HTTP Server
- Routers
- Request Handlers
- View Logic

The Traditional Hello World Program

```
var http = require("http");

http.createServer(function(request, response) {

    response.writeHead(200, {"Content-Type": "text/plain"});

    response.write("Hello World");

    response.end();

}).listen(8888);
```

DEMO