node.js

A runtime environment (executable) for creating networked event-driven applications

A library

Builds on the javascript language by providing asynch I/O functionality

REPL

Read eval print loop

command line test facility for testing javascript

Libraries

Why libraries?

To add functionality to node

How do you get libraries?

Use Node’s package manager - npm

Code is written in javascript

Code is executed by the node.js runtime

node foo.js

How can node.js be used?

Standalone programs executed by the node.js runtime

How is js development in node.js different from js development in a browser?

It runs in a different runtime, and has access to a different set of functions

Why node.js instead of a different stack?

Why not httpd and mod\_php or mod\_ajp / mod\_proxy?

We can specify the protocol clients use to connect.

The application includes not only the application, but also the endpoint

Can you connect to a database / read a file in node.js?

yes

Why callbacks in node.js?

Because there is only a single process in node.js

Waiting on an event in a single process would delay all processing.

an event loop programming library for use in javascript

Modules?

Externally loaded files

loaded using global require

Variable into which module is loaded becomes an object

How is functionality exposed in modules?

exports global mechanism

Variables local to a module are private

Uses libuv

Event emitter

Nodejs stuff

Static files

Many people say node shouldn’t serve up static files.

Many move static resources to a separate domain, like a web server, or CDN.

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