What is Node JS?

- JavaScript runtime environment that executes JavaScript code outside of a web browser.

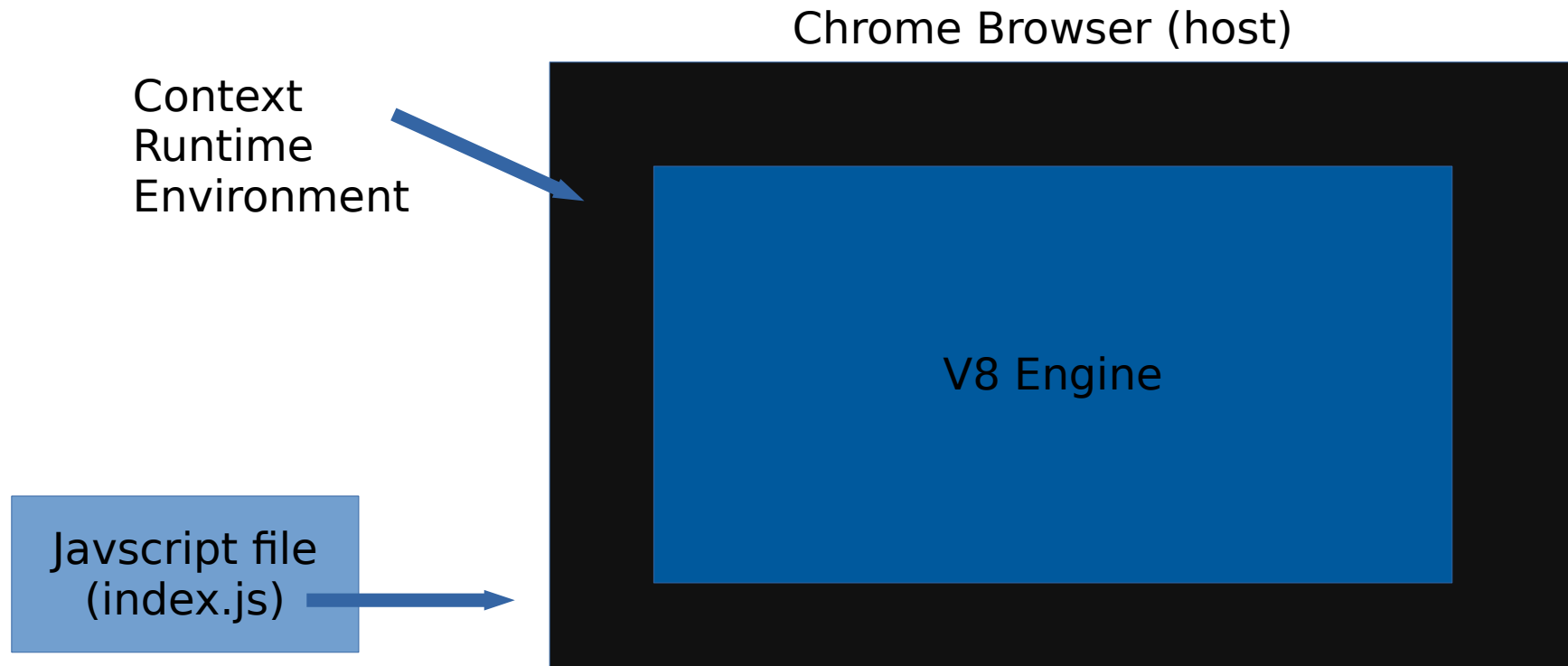- Node.js was written initially by Ryan Dahl in 2009

- It is built on Google's Chrome V8 open-source JavaScript engine.

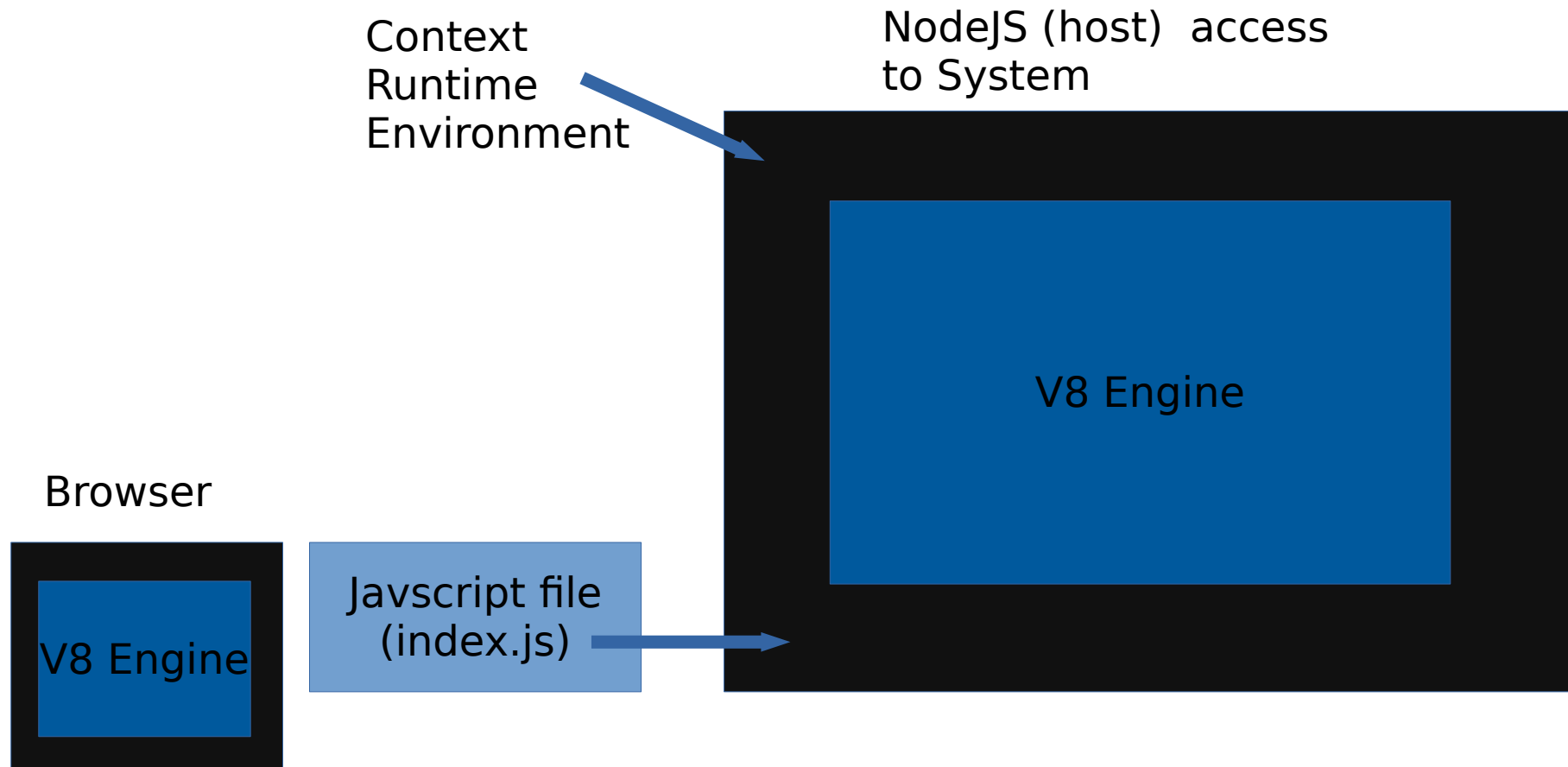- It uses an event-driven, non-blocking I/O model.

- NodeJs uses asynchronous programming!

- It primarily uses the npm package ecosystem.

Javascript in Browser

Chrome Browser (host)

Context
Runtime
Environment

V8 Engine

Javscript file
(index.js)

Javascript in NodeJs

Context
Runtime
Environment

NodeJS (host) access
to System

V8 Engine

Browser

V8 Engine

Javscript file
(index.js)

What Can NodeJs Do?

NodeJs lets developers use JavaScript to write command line tools and for server-side scripting—running scripts server-side to produce dynamic web page content before the page is sent to the user's web browser.

NodeJs can create, open, read, write, delete, and close files on the server

NodeJs can establish connection with your databases and can add, delete, modify data in your database

Etc......