

Narrative Node.js

Chapter - 01 - Introduction to Node.js

Q) What is Node.js ?

- A) i) Node.js is a Javascript runtime environment built on chrome's V8 Javascript engine.
- ii) Node.js made possible for developer to use Javascript to write a) command line tools b) server side scripting.
- iii) It made possible to use only one language (Javascript) for both server as well as client side programming thus unifying web-application development around a single programming language.
- iv) Node.js made possible to run and execute Javascript code outside a web browser.
- v) Node.js has an event-driven architecture capable of asynchronous (non-blocking) I/O, (this very property make Node.js popular)

If wherever there is JavaScript in use,
there should be JS Engine for running the
JS code.

↳ History of Node.js

2009



- Ryan Dahl (creator of Node.js)
 - ↳ start developing with SpiderMonkey (Firefox JS Engine)
 - ↳ After 2 days, he adopted Chrome's V8 JS engine

- Joyent (a company)
 - also want to JS on server-side and at the same time they were working on the same

→ they get fascinated by the Ryan Dahl's idea and invited him to work with them on Node.js project and we will find it.

→ Ryan Dahl agrees becomes the employee of Joyent and they were the first to use Node.js (correctly web.js) in their projects.

^{originally named by Dan}

web.js → creates web server

Node.js

(name change when Dahl realizes
web.js can be much more)

~~Q~~ what the problem Node.js solved?

A) → Earlier, most of the tools which are used to create HTTP servers are blocking in nature (e.g. Apache HTTP server, ASP.NET classic, Java servlets) (can't handle many simultaneous connections) (consumes one thread per request)

→ Node.js becomes the non-blocking, as well as single-threaded.
(many simultaneous connection via that consuming fewer threads.)

2009

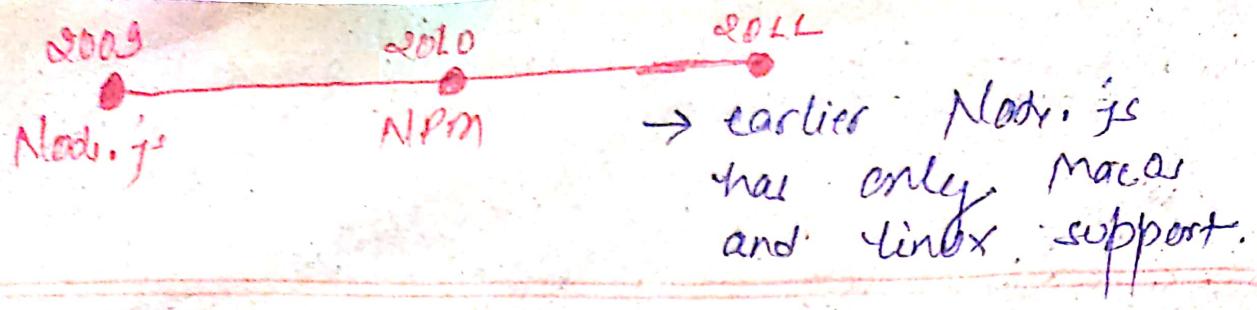
2010

Ryan Dahl
(Node.js)

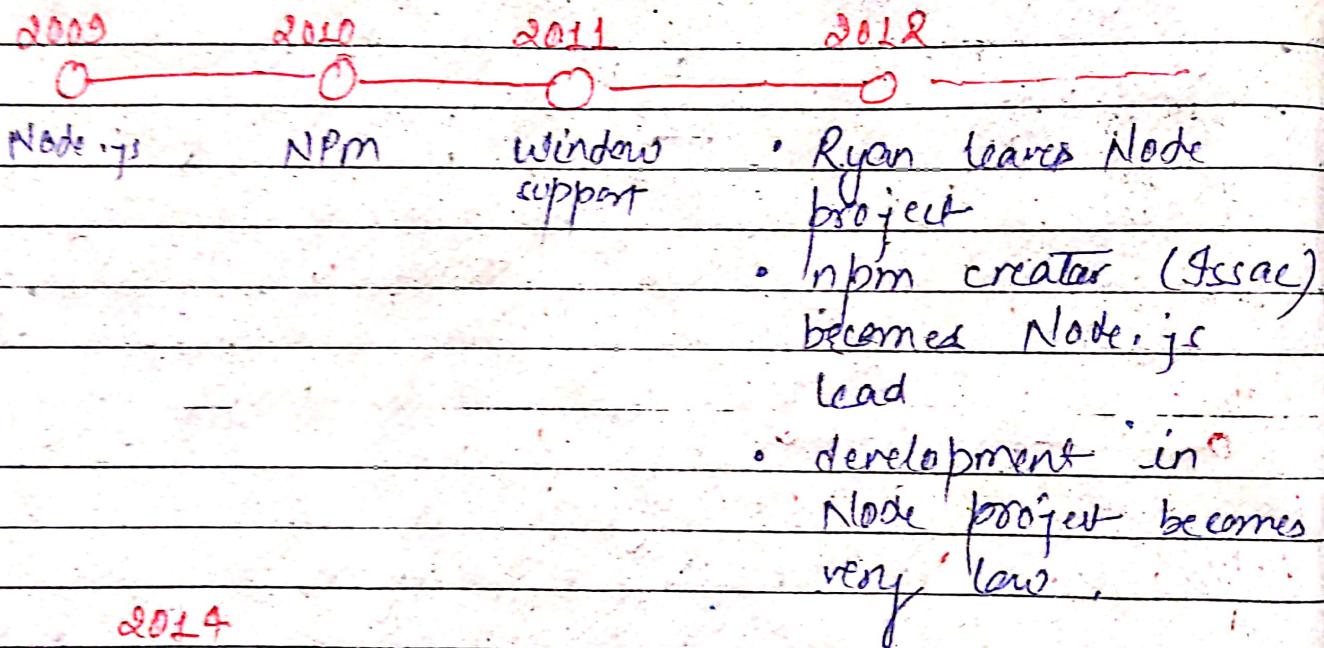
NPM (Joyent)

→ Node Package Manager
→ package manager for node
(a registry) where a developer can add package for different functional capabilities
(e.g. axios, mongoose)

→ popularized Node.js



→ Joyent and Microsoft worked together to make Node.js accessible in Windows as well.
 (much wait developer community.)



2014

- a developer created a fork of Node.js named **IO.js** (becoming fed up with slow release of Node.js versions)
- two Node.js versions are up and running (with different release cycles and versions).

Drama
Building up
Social

→ Node.js
(maintained by
Joyent)

70. js
(Fedor)

Feb 2015
2015 +
---○---

→ Node.js foundation gets created
and merged these both versions
which is currently in use.

2019

---○ (JS Foundation + Node.js Foundation)

→ JS Foundation and Node.js Foundation gets
merged to become OpenJS Foundation which
currently managing Node.js project.