

Node.js



About me

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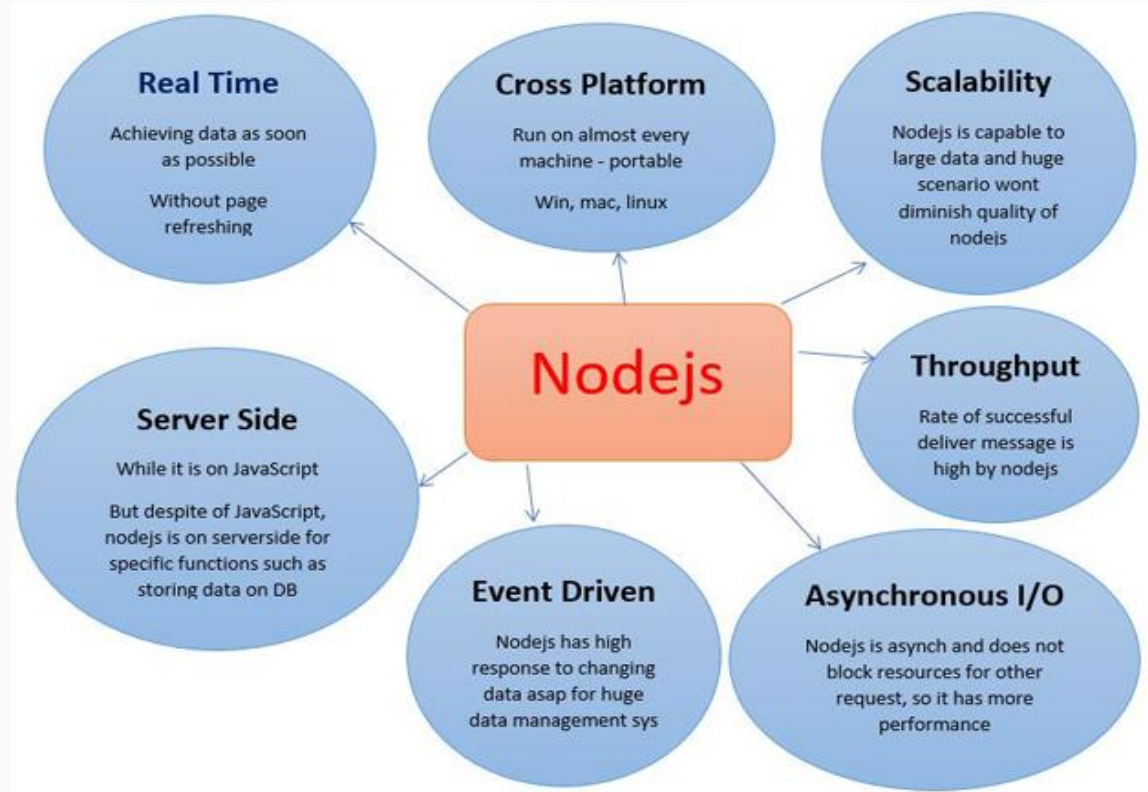
<https://about.me/sivaramnyayapati>

Agenda

- ❑ What is Node.js?
- ❑ History
- ❑ Why Node.js
- ❑ Applications
- ❑ Pros & Cons.
- ❑ Companies using Node.js
- ❑ Setup
- ❑ References

What is Node.js?

- Open Source, Cross platform Development Platform
- Uses V8 Javascript engine (Google)
- “Javascript on the Server Side”
- It is command line tool
- Event driven with non-blocking I/O

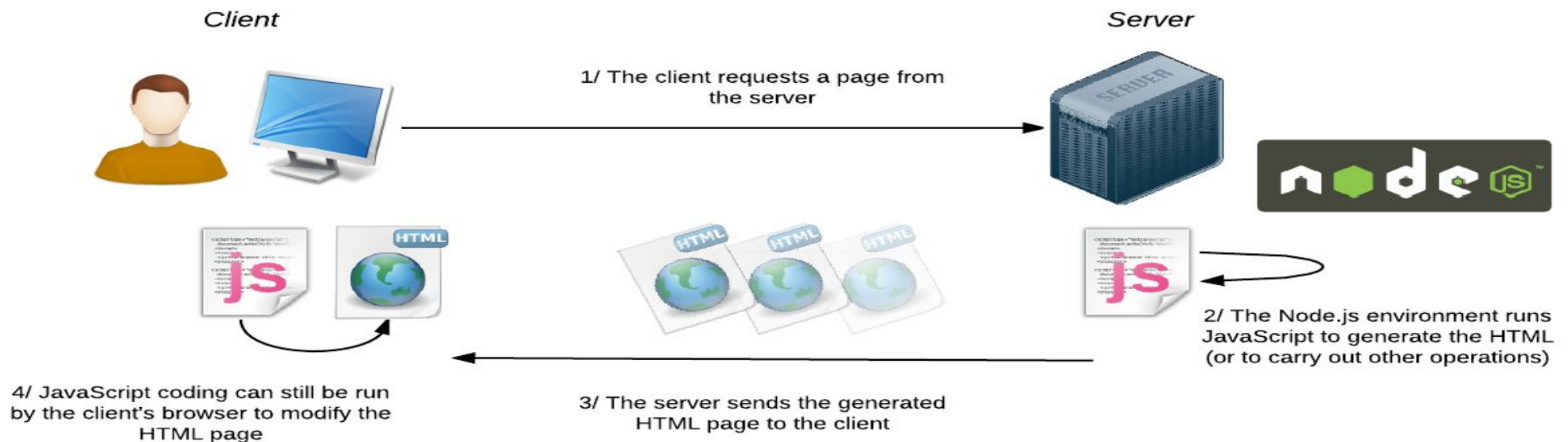


History

- Developed in 2009 by Ryan Dahl, Joyent
- From 2011, windows version available
- Official Site: <https://nodejs.org/en/blog/>

Applications

- HTTP Server
- Rest Server
- Web Sockets
- TCP Server
- Building Scalable Network Programs



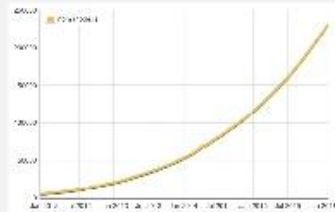
Why Node.js

WHY NODE.JS?



48% of developers are using Node.js at IoT companies

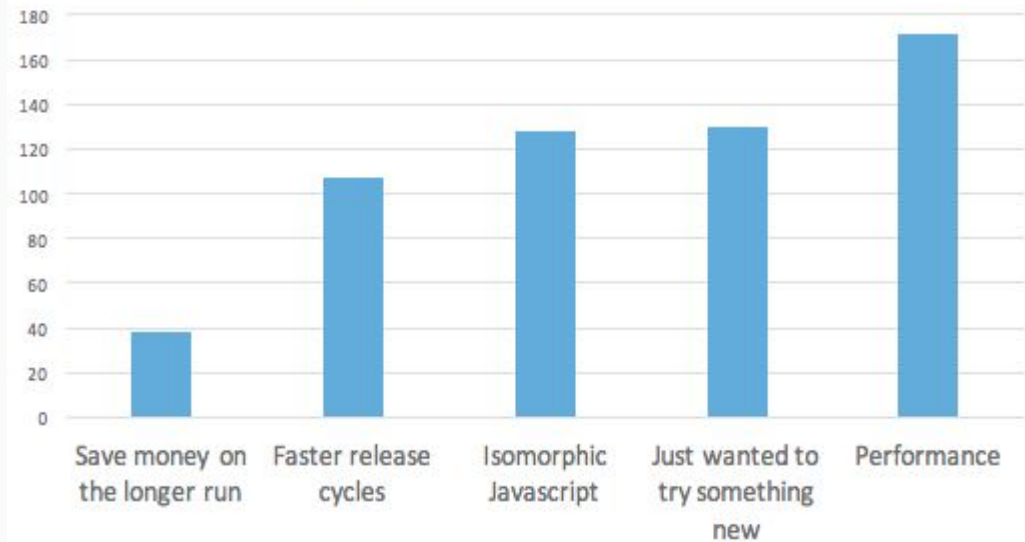
npm
231643
total packages



LOSANT

20

Why do you use Node.js?



Pros & Cons

Pros

- Asynchronous event driven.
- Can share the same piece of code with both server and client side.
- Active and vibrant community.
- Stream big files.
- npm has already become hug and still growing.
- Best solution: Web Socket server, Fast file upload client, Data streaming, Ad Server, Real time social app, Stock exchange software etc.
- Build apps end-2-end JavaScript / Coffee-script.

Cons

- Tons of nested callbacks.
- Not suited for CPU-intensive tasks.
- Async programming are more complex.

Companies using Node.js

Node.js users span a variety of industries



Setup

- Installation

```
$ curl -sL http://deb.nodesource.com/setup 6.x | sudo -E bash -  
$ sudo apt-get install -y nodejs
```

- Checking Node version

```
$ node --version
```

- Ref: <https://nodejs.org/en/download/>

References

- <https://nodejs.org/>
- <https://www.codecademy.com/learn/introduction-to-javascript>

Content

<https://github.com/sivaram143/nodeApps/blob/master/content.md>

Examples Repo

<https://github.com/sivaram143/nodeApps>

Ebooks

<https://drive.google.com/drive/folders/0BzRVqLgvtqp8fl9TQzJnWWExamJsM1ZaRHFjSmEweUZ2bFINbkJFZFRRsQIk2X0lWQWIWLU0>

Thanks for listening ...