

# Node.js



# About me

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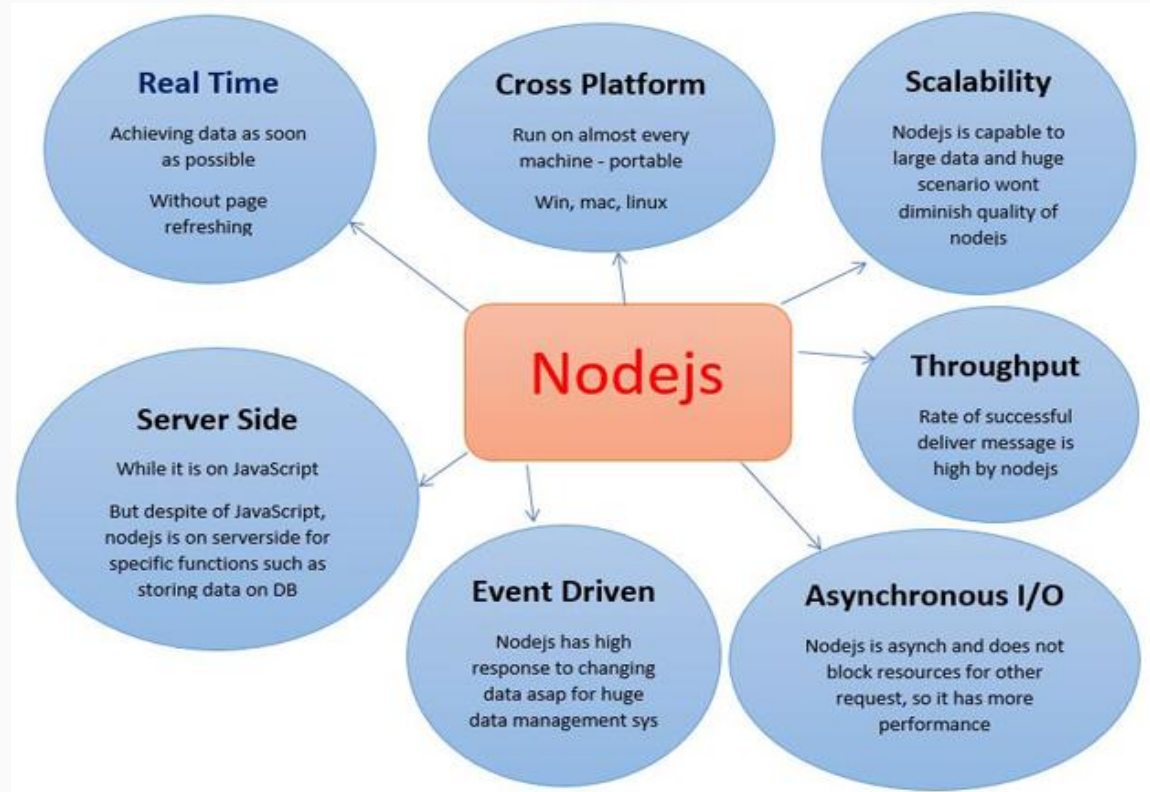
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# Agenda

- ❑ 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

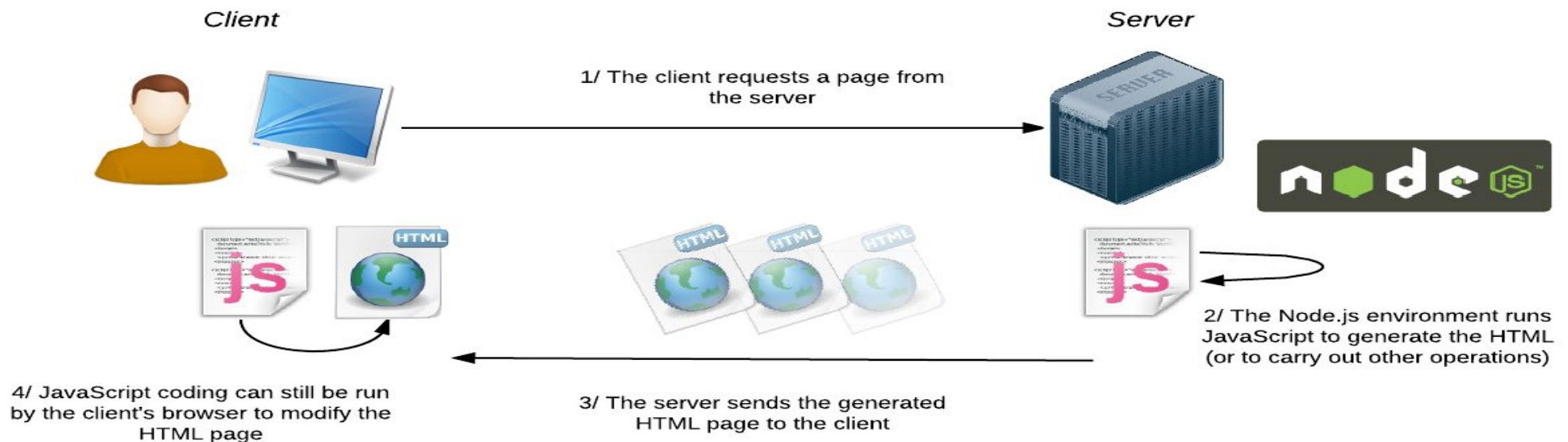


# History

- 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



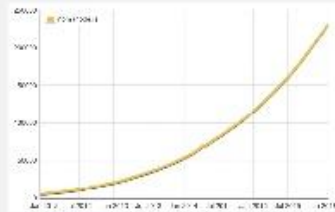
# Why Node.js

## WHY NODE.JS?



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

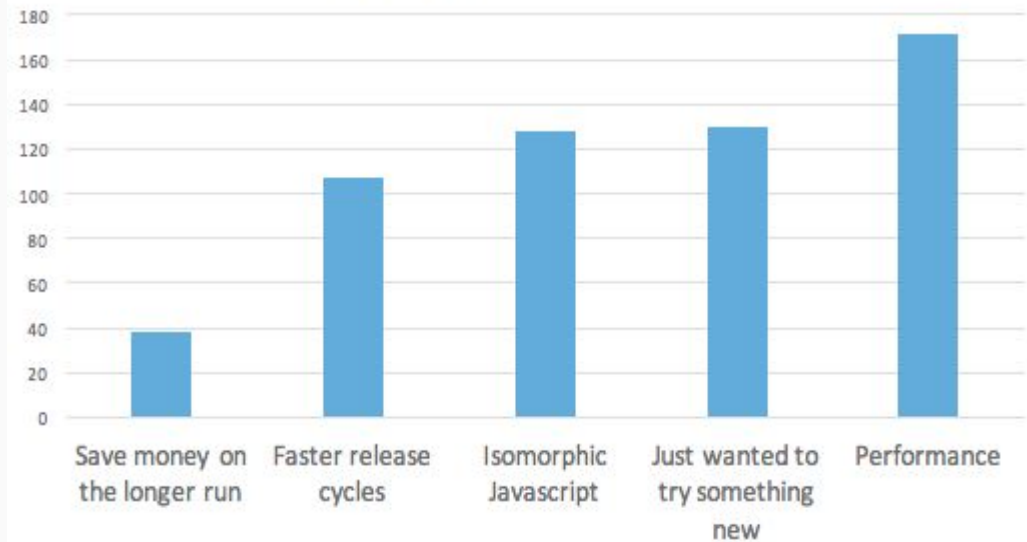
npm  
231643  
total packages



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## 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



node

# 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>
- <https://openclassrooms.com/courses/ultra-fast-applications-using-node-js/node-js-what-is-it-for-exactly>

Content:

[https://docs.google.com/document/d/1K66jpxKhLgj-rbD31aUGF1-p4B1Z\\_HLCatsmwIjeLco/edit#](https://docs.google.com/document/d/1K66jpxKhLgj-rbD31aUGF1-p4B1Z_HLCatsmwIjeLco/edit#)

Thanks for listening ...