

APS-2- NODE JS

NODE JS – NPM

Node.js



A JavaScript runtime



Until recently, we could only run JS code in a web browser.



Node is a JS runtime that executes code outside of the browser.



We can use the same JS syntax we know and love to write server-side-code, instead of relying on other languages like Python or Ruby.



[Popularity](#)

History

1994

Netscape was the first implementation of JS for server-side rendering

- Netscape history

2009

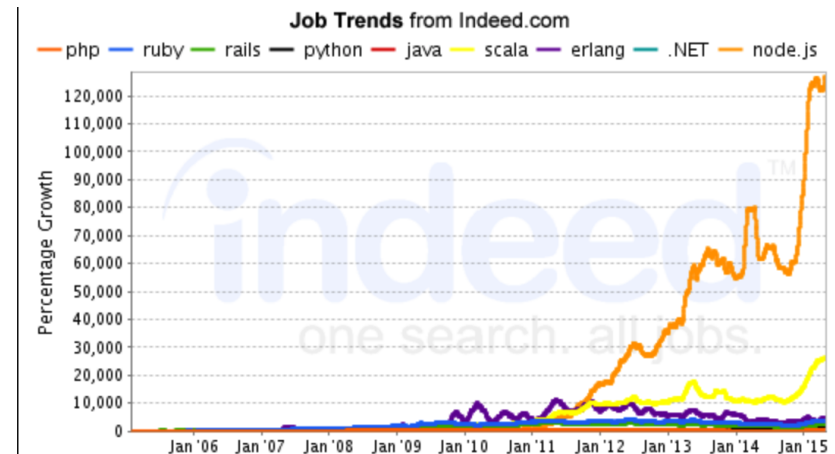
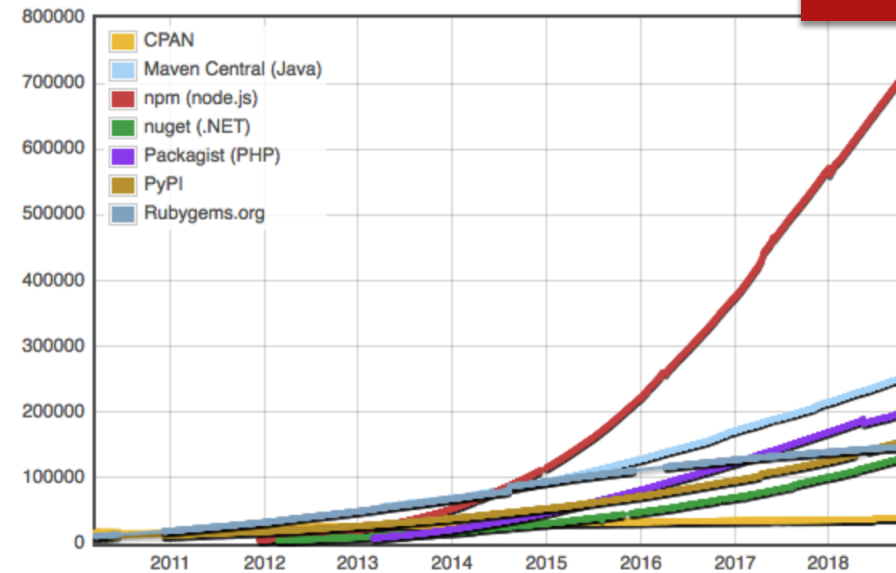
Node.js was written initially by Ryan Dahl

- node js history

popularity

- ▶ How many modules has been written for node js in compare with other languages
- ▶ How many job trends are coming up for node js
- ▶ It doesn't mean I want to discourage you for learning other languages, it is why we are learning Node js at this point of time

Module Counts



What do people build with it?

- ▶ Web servers
- ▶ Command line tools
- ▶ Native apps (VSCode is a Node app!)
- ▶ Video games
- ▶ Drone software
- ▶ A lot more!

```
mirror_mod = modifier_ob.  
# Add mirror object to mirror_mod  
mirror_mod.mirror_object =  
# operation == "MIRROR_X":  
mirror_mod.use_x = True  
mirror_mod.use_y = False  
mirror_mod.use_z = False  
# operation == "MIRROR_Y":  
mirror_mod.use_x = False  
mirror_mod.use_y = True  
mirror_mod.use_z = False  
# operation == "MIRROR_Z":  
mirror_mod.use_x = False  
mirror_mod.use_y = False  
mirror_mod.use_z = True  
  
# Selection at the end -add  
mirror_ob.select= 1  
modifier_ob.select=1  
context.scene.objects.active  
("Selected" + str(modifier_ob.name))  
mirror_ob.select = 0  
= bpy.context.selected_objects  
data.objects[one.name].select  
  
print("please select exactly  
-- OPERATOR CLASSES --  
  
types.Operator):  
X mirror to the selected  
object.mirror_mirror_x"  
mirror X"  
  
context):  
context.active_object is not None
```

Node js use cases

- ▶ [NASA](#)
- ▶ VS Code
- ▶ Good to know:
 - ▶ [electron.js](#)

COMPANIES THAT USE NODE.JS

Walmart

ebay

PayPal

DOWJONES

intuit

NETFLIX

LinkedIn

The New York Times

Microsoft

Uber

YAHOO!

Kingfisher

Bank of America

NBC

STAPLES

NASA

BEST BUY

Cigna

Bloomberg

Alibaba.com

TARGET

FANDANGO

PG&E

WELLS FARGO

Symantec

Go Daddy

macy's

DIRECTV

Install node

1. check if you have node installed first
 - ▶ Just write node in your command line
2. If don't use this [link](#)
3. If you are professional and want to have multiple node versions on your machine, you can use NVM (node version manager)



REPL

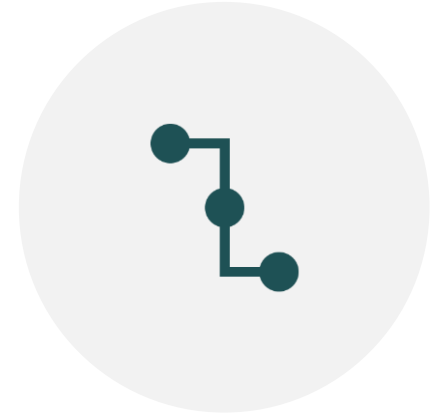
- ▶ In your terminal, write: node
- ▶ You will be in repl environment,
- ▶ Now you have access to js commands (not all of them)
 - ▶ `2 + 2` , `'Hello' + 'World'`
 - ▶ You don't have access to `window`, `document` and etc.
 - ▶ These are all for browser
 - ▶ You have new node functionalities
 - ▶ `.help` `.clear` `.exit` `.load` `.save`
 - ▶ You can use `'global'` to have `setTimeout` and etc. in node js
 - ▶ Reminder: `setTimeout`, `interval` are things live inside window in browser
- ▶ Use `ctrl+c` 2 times or `ctrl+d` or `.exit` to exit this repl environment



IT IS NODE JS WEBSITE ITSELF, NOT
W3SCHOOLS, NOT ANYWHERE
ELSE



USE THIS
[HTTPS://NODEJS.ORG/API/](https://nodejs.org/api/) LINK
TO SEE WHAT WE HAVE IN NODE



[LINK](#)

Our Node documentary

Process & argv



We are not going to learn
much about node



Go to `script.js`

File system

- ▶ What is Require? (1. math.js - 2. app.js – shelter)
- ▶ Let's use mkdir here, it's a scheme of using node js, and how node js works outside of web browser 😊
- ▶ What is sync version of everything?
- ▶ Let see an example in filesys.js

Npm

Npm is really do two things:

- A library of thousands of packages published by other developers that we can use for free!
- A command line tool to easily install and manage those packages in our Node project

Npmjs.com

Npm install

- ▶ Npm install package name
- ▶ If you want it globally use flag '-g'
- ▶ If you have access error use sudo chown, just google it
- ▶ If you want to call it into your project use:
npm link packageName

I am not going to install anything on my machine globally

Package.json

Npm init



Answer questions



You can just hit
enter for all of
them or fill it if
you want to



gitignore

WHY YOU SHOULD USE IT AND WHAT IS IT?

WELL DONE

Node is all over
for us