



Node js Kickoff

Alex Banks

`alex@moonhighway.com`

`linkedin.com/in/banksalex`



Hello World

- Your Name?
- Your Day to Day work?
- Goals?



Agenda

Topics

- Introducing Node.js
- Node Core
- fs module
- Making Requests
- HTTP Servers
- Node Package Manager
- Using Node Modules
- Testing and Debugging

Hands On

- Building a Mood Server
- Building and Publishing mh-xmlidown



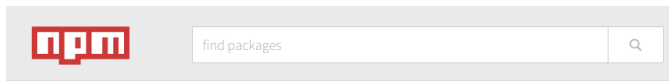
What We Will Build



```
XML downloader
✓ creates an output directory as './output/'
✓ downloads an xml file
✓ returns xml parsed as json
✓ saves a json file

4 passing (30ms)

Alexs-MacBook-Pro:~ alexbanks$
```



★ mh-xmldown

A module that downloads and parses xml files. This module is developed as a class exercise by students who attend Moon Highway's ILT for node.js

XML Downloader

This module will download a remote xml file and save the results as both xml and parsed json. This module is designed to be a tool for learning node.js. Students in Moon Highway ILT will develop and use this module in their class projects.



What is Node js

What

JavaScript without a Browser
Based on Chrome's V8 Engine
Officially Called “node”

How

Open source project
Sponsored by Joyent
Community written modules

What it can do

Act as a web server
Build command-line tools
Build socket applications
Anything you can do in JS
Ideal for simple “web stuff”

Node Source

github.com/joyent/node
Still on version 0



Node js Pros and Cons

Reasons to use

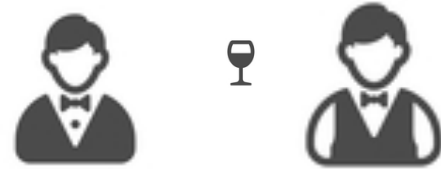
- Already JavaScript savvy
- IO heavy applications take advantage of non-blocking IO
- You love JavaScript
- Building a web service
- Wish you could code everything in JavaScript
- Reuse code between client and server

Reasons not to use

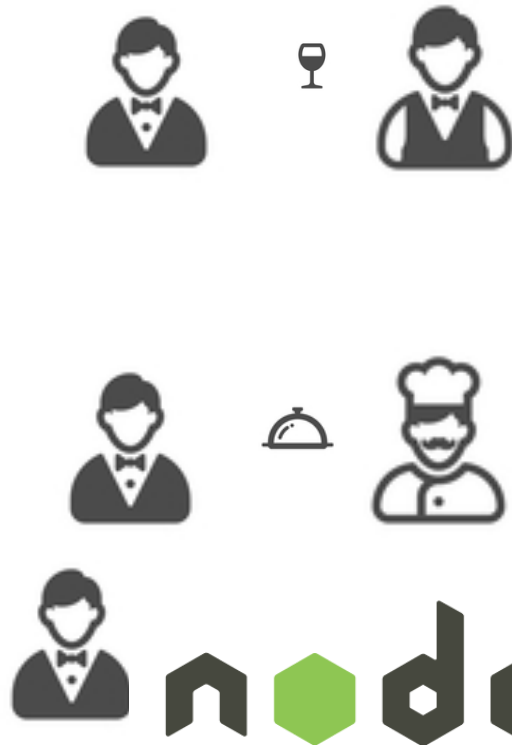
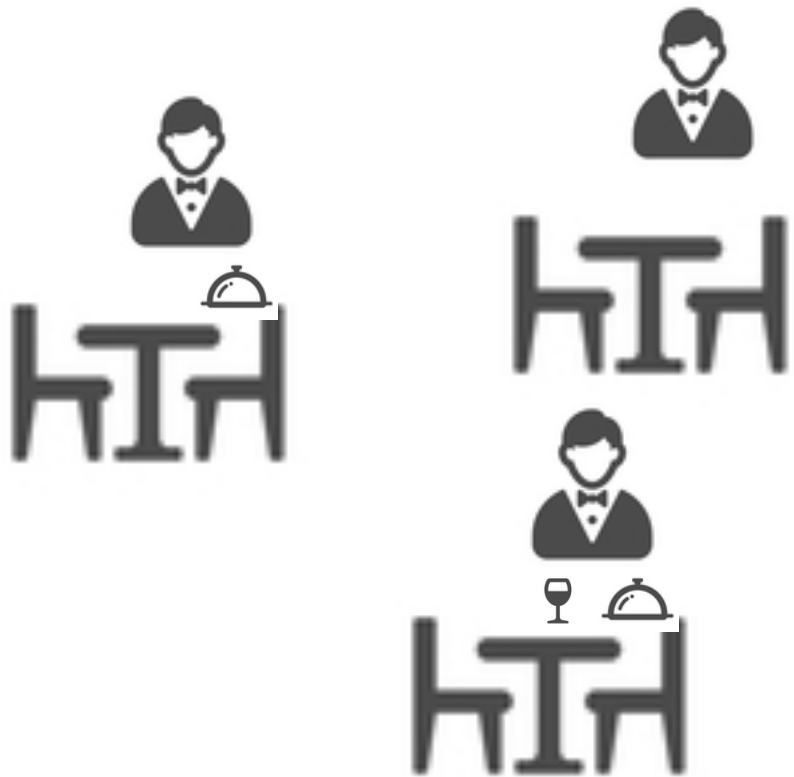
- Building command line tools
- Replacing shell scripts
- Intense, CPU bound applications
- You think JavaScript is horrible



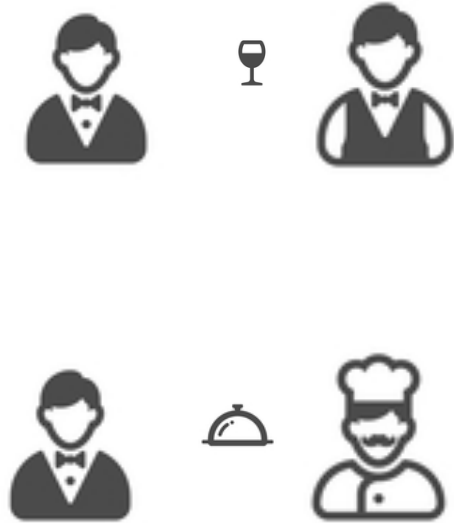
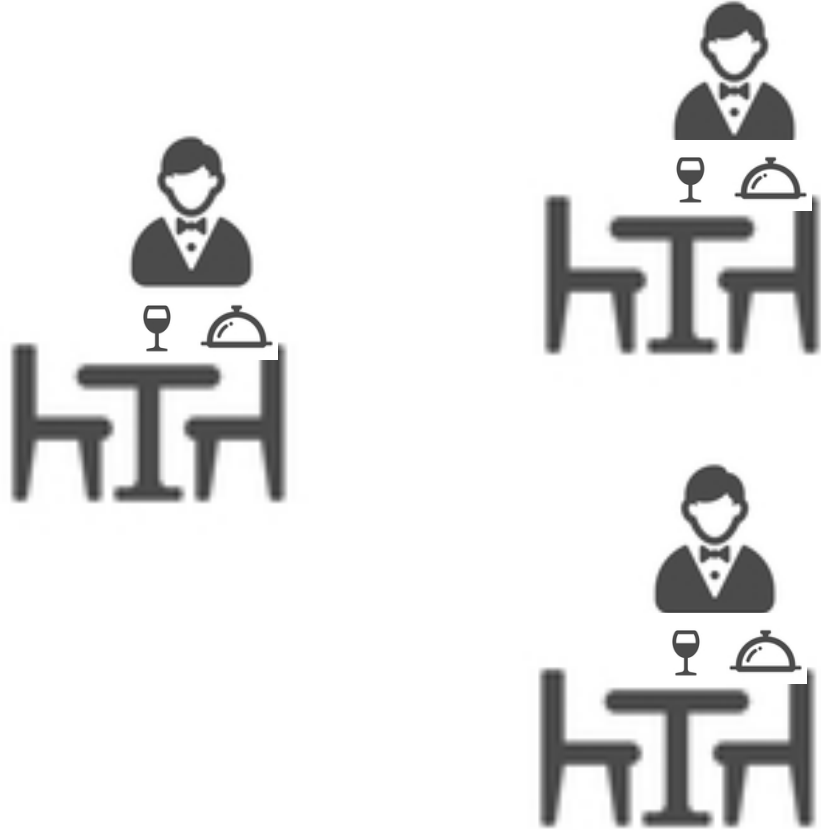
Apache Steak House



Apache Steak House



Chez Node



How Node Works



- Single Thread
- Event Loop
- Respond to Events in Order
- Callback Functions
- Asynchronous
- Shared Global



Installing node

Platforms

Windows

OSX

Linux

Installing

run installer

(nodejs.org)

NVM

<https://github.com/creationix/nvm>



Getting the Files

- Course files are hosted on GitHub.
- Files

[www.github.com/Moonhighway/node-js-kickoff/](https://github.com/Moonhighway/node-js-kickoff/)

```
$ git clone https://github.com/Moonhighway/node-js-kickoff.git
```



Thanks for Attending

- Files

www.github.com/Moonhighway/node-js-kickoff/



Alex Banks

`alex@moonhighway.com`

`linkedin.com/in/banksalex`