Node js Kickoff

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Moon Highway

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-xmldown
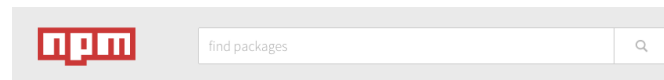
What We Will Build


```
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:mh-xmldown alexbanks$
```

npm | find packages

★ 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
Linux Foundation Sponsored
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

http://github.com/nodejs/node
Now on version 4

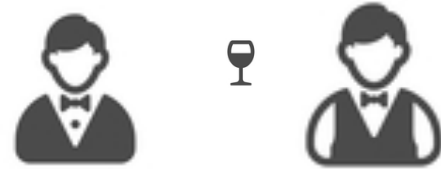# Node js Pros and Cons

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
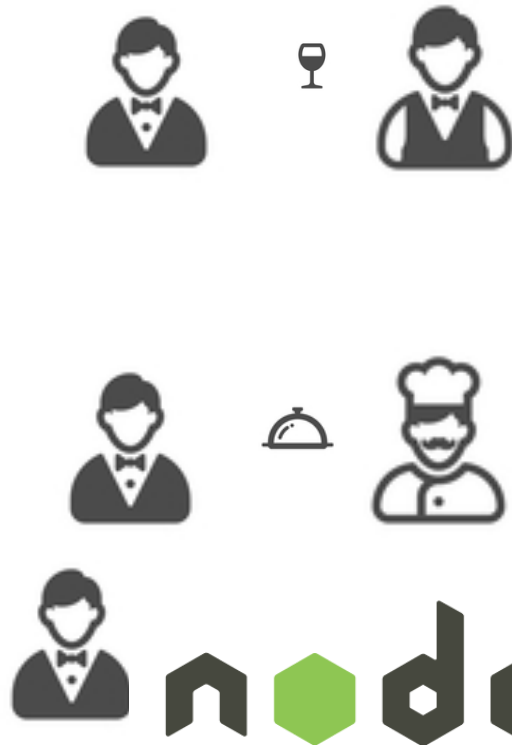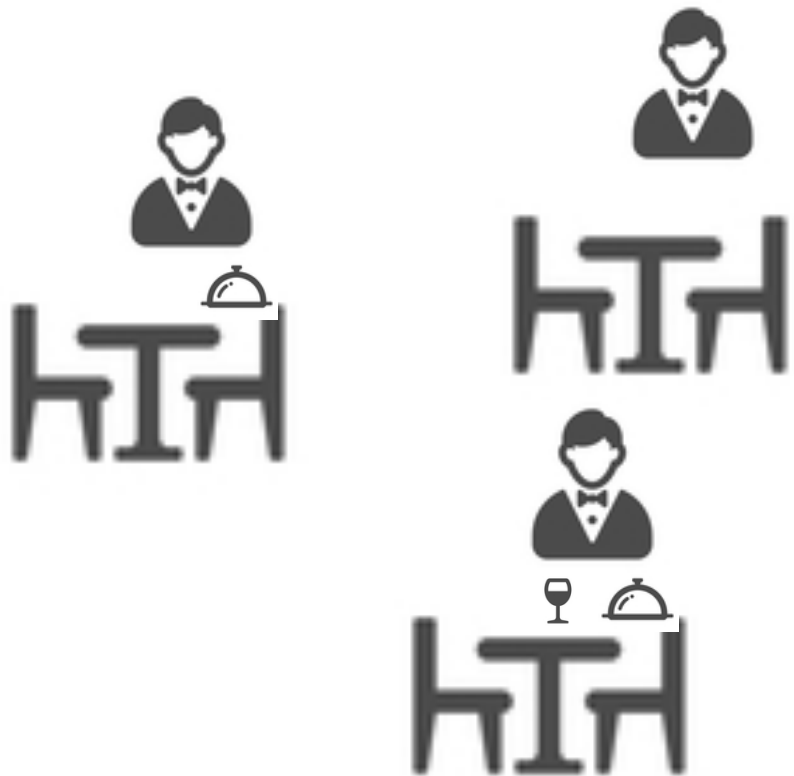- Reuse code between client and server

Reasons not to use

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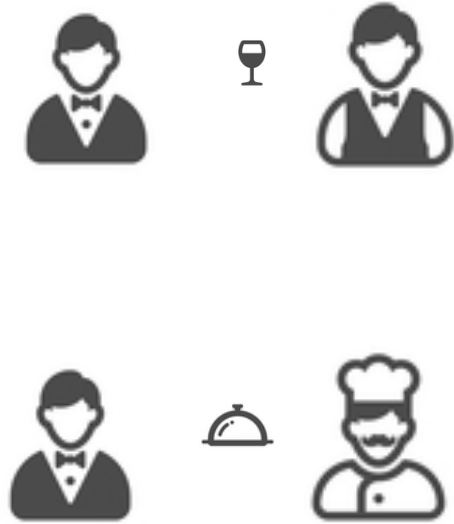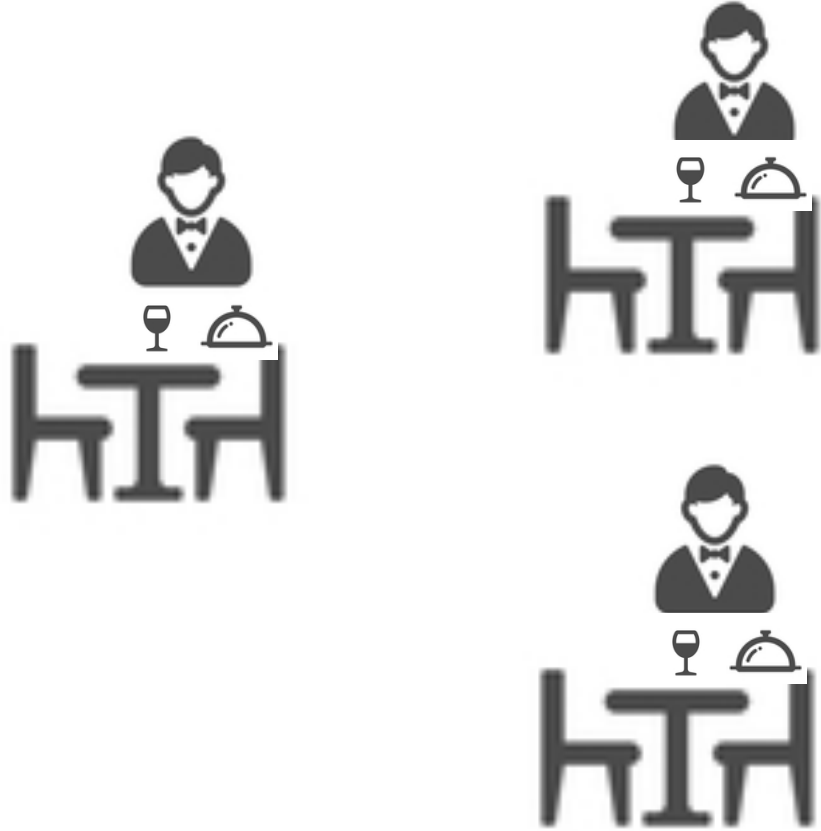- You think JavaScript is horrible

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/

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

Thanks for Attending

- Files

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

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