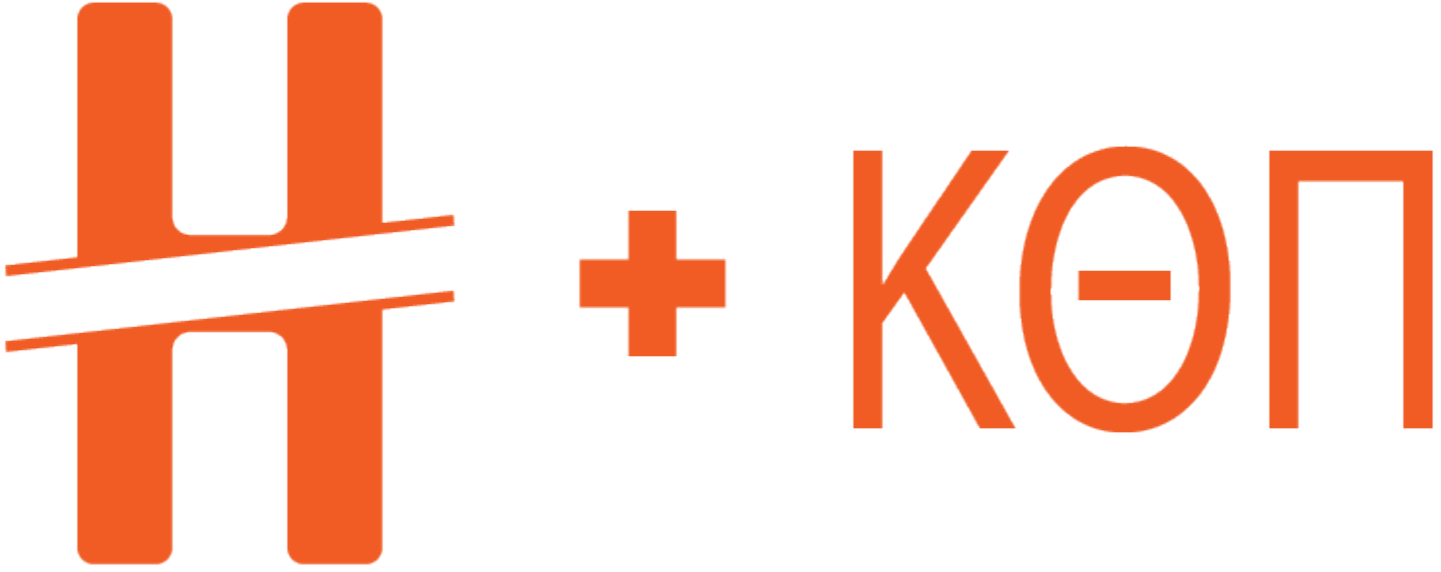
JS


КΘП

Node.js

Dom + Otto

Dom Parise

Tech Chair - Kappa Theta Pi (ΚΘΠ)

Junior - Computer Science

Otto Sipe

Exec. Board - Michigan Hackers

Senior - Computer Science

History

Ryan Dahl

Creator ~2009

Joyent

What?

Set of Libraries + V8 JavaScript Runtime

What?

Domino
"We'll Always Be Your Sugar!"
SUGAR
PREMIUM
PURE CANE
GRANULATED
NET WT 10 LB (4.53 kg)

+

Why?

Non Blocking I/O

Why?

Single-Threaded Event Loop

Fancy, indubitably!

Screw this guy.

Node.js is the culmination of well thought out, open-source technology.

Node.js is easy to learn and makes it simple to write powerful applications.

Don’t be afraid of it.

Install Node

nodejs.org/download

Run

```
node app.js
```

Modules

Install Module

```
npm install <module>
```

```
var http = require('http');

http.createServer(function (req, res) {
    res.end("Hello, Michigan Hackers");
}).listen(1024);

console.log("Starting Server");
```

```
var http = require('http');
```

Include the http module.

```
http.createServer(callback).listen(1024);
```

Create a server, listen on port 1024.

```
function (req, res) {
    res.end("Hello, Michigan Hackers");
}
```

End the response with text.

KRAFT
EASY Cheese
Cheddar
NET WT 8 OZ (226g)

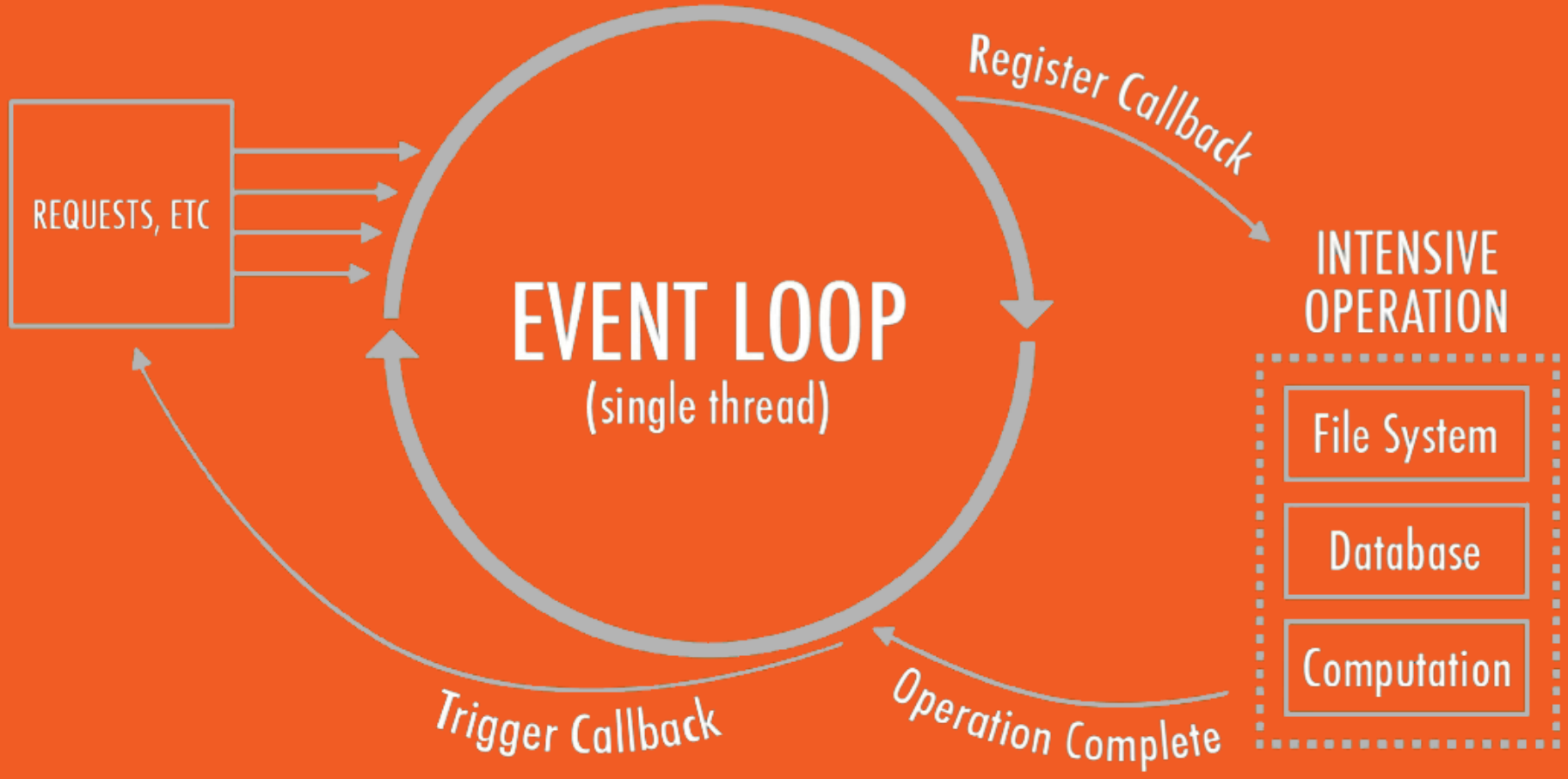
```
var http = require('http');

http.createServer(function (req, res) {
    res.end("Hello, Michigan Hackers");
}).listen(1024);

console.log("Starting Server");
```

It’s Asynchronous

Don’t wait, come back when it’s ready.


REQUESTS, ETC
EVENT LOOP
(single thread)
Register Callback
INTENSIVE OPERATION
File System
Database
Computation
Trigger Callback
Operation Complete

It’s Asynchronous

JavaScript’s event loop keeps working during:

network, database, filesystem access, etc

Node.js Sucks At:

Things that are not async:

static file serving, data manipulation,

image resizing, crazy mathematics, etc

Node.js was built to excel at asynchronous network applications, and it does.

Go Forth and Node!

Learn Node.js, explore NPM,

and write cool applications!

Demos