

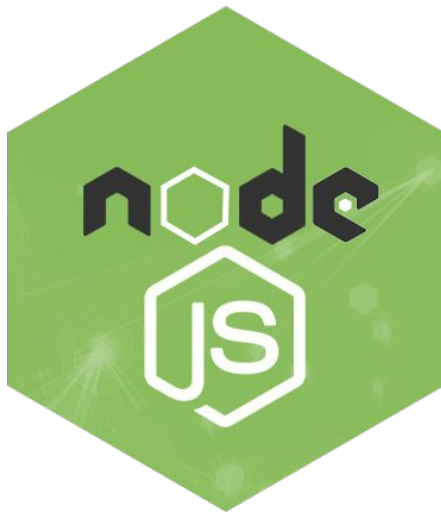
# NodeJS

An Introduction by Kevin Delgado



# What is NodeJS?

- A Javascript runtime engine.
  - It lets you run JS on your computer (access files, listen to network ports, etc)
- What is NodeJS not?
  - A web application framework
  - A web server



# But... I want to build a web app

Don't worry, there's a module for that.

1. Pick your favorite flavor of JS frameworks
  - Express
  - Hapi
  - Koa
2. Add some routes and some static pages
3. Profit!

```
const Hapi = require('hapi');

// Create a server with a host and port
const server = new Hapi.Server();
server.connection({
  host: 'localhost',
  port: 8000
});

// Add the route
server.route({
  method: 'GET',
  path: '/hello',
  handler: function (request, reply) {

    return reply('hello world');
  }
});

// Start the server
server.start((err) => {

  if (err) {
    throw err;
  }
  console.log('Server running at:', server.info.uri);
});
```

# But I want a real app

Node makes building a RESTful API easy

1. Pick your favorite framework
2. Build controllers and connect to a db of your choosing (Node modules can make querying the db super easy)
3. Build your endpoints
4. Consume the API with a front-end app (React, Angular, iOS, Android, plain ole' javascript)

# Why Node?

## Pros

- Javascript everywhere!
- Great package manager and support for plugins (modules)

## Cons

- Asynchronous, event driven I/O, non-blocking, single-threaded ?!?
- Too many choices can make a programmer unhappy

*That's all Folks!*