NodeJS, CommonJS, ExpressJS, Response

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NodeJS

- Server side runtime for JavaScript
- Can run any JS, but mainly used for "web applications"
- Run JS scripts from Codio terminal using \$ node script_name.js

CommonJS Modules

- ► Node has a large package/library ecosystem
- Useful for common functionality just use a pre-written module
- Follows CommonJS standard
- Modules are managed by the "Node Package Manager" NPM
- Pre-installed on Codio, run from terminal using \$ npm install npm_package_name
- Adds the package code to a node_modules directory
- Can then require('npm_package_name'); in your script

Request Module

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

- An HTTP client written in JavaScript
- Can be used by your scripts to access other HTTP resources on the web
- Very useful!
- Main methods correspond to HTTP verbs:
 - GET request.get(url, callback);
 - PUT request.put();
 - POST request.post();
 - DELETE request.delete();
- Be careful, because callbacks are asynchronous

Express Module

```
var express = require('express');
var app = express();
```

- An HTTP server written in JavaScript
- The "opposite" of the request module
- Can be used by your scripts to provide an HTTP endpoint on the web
- Very useful!
- Main methods correspond to HTTP verbs:
 - GET app.get('/', function(req, res) {});
 - etc.
- Most often used for serving HTML websites, but can be used directly for APIs etc.
- The basis for the restify NPM module we will look at tomorrow

