Node.Js

What isn’t node.js?

Not a framework

Not for beginners (it’s very low level)

Not multi-threaded (consider it a single threaded server)

Blocking Versus Non-Blocking

Blocking example

Read file from filesystem, set it equal to ‘content’

Print content (blocked until content is loaded)

Do something else

Blocking Code

Var contents=fs.readFileSync(‘/etc/hosts’);

Console.log(contents;

Console.log(‘Doing something else’);

Non-Blocking example

Read file from filesystem (when complete (callback), print the content)

Do something else

Non-Blocking Code

Fs.readFile(‘/etc/hots’, function(err,contents){

Console.log(contents);

});

Hello World!

Var http=require(‘http’);//this is how we require moduels

http.createServer(function(request,response){

response.writeHead(200);//status code for header

response.write(“Hello World!”);//response body

response.end();//close the connection

}).listen(8080;//Listen for connections on this port

Console.log(‘Listening on port 8080..’);

**10/14/16**

Var fs=require(‘fs’);

Var http=require(‘http’);//this is how we require modules

//Var file=fs.createReadStream(“shakespeare.txt”); //don’t need it

Var newFile= fs.createWriteStream(“plagurized\_copy.txt”);

http.createServer(function(request,response){

var fileBytes=requrest.headers[‘content-length’];

var uploaded Bytes=0;

request.on(‘readable’, function() { //listening to readable event

var chunk=null;

while(null!==(chunk=request.read())){ //loop through and read each chunk from req

uploadedBytes+=chunk.length //increment uploaded variable

var progress=(uploadedBytes / fileBytes)\*100

response.write(“progress: “ + parseInt(progress,10) + “%\n”);

}

Response.end();

});

}).listen(8080;//Listen for connections on this port

Console.log(‘Listening on port 8080..’);

**10/17/16**

How does ‘require’ return the libraries?

-makes a reference to an object, makes a copy of the object

How does it find these files?

-grabs from framework,

How can we leverage this to produce and use our own modules?

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Creating a Module

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