The Jackal of Javascript





Hello Node



















I have written a post here that will give you a good idea on what Nodejs is all about. In this post I will walk you through the steps to install Node and run a Hello Node application.

Contents

Installation

Validation

Hello Node

Hello HTTP

Hello TCP

Setup

Installation

- Open Nodejs.org
- Click on the green "Install" button

Search ...

This is me!!



Hello.. I am Arvind Ravulavaru a Full Stack Consultant based out of Hyderabad, India. This blog is my way of giving back to the Javascript Community!

Know more about me

Follow @arvindr21

Follow @arvindr21

Depending on your OS a msi or a pkg will be
 Learn your way around Ionic framework. Check out Learning Ionic!

Buy

X

- Kuri the downloaded life and leave all the options to default while running the setup
- Thats it! You are done

PS: If you are interested, you can get the sources files from here and build your own version.

Chrome App

Chrome Extension

Validation

Open up a command prompt (in windows) or terminal (in *nix) and run node -v . This should present you with the version of Node you are running. Neat!

Workshops

• \o/ M.E.A.N. Workshop

Hello Node

So lets say hello to Node. In the prompt, type <code>node</code> and hit enter. This will take us to the Node world!!. This is know as Node REPL (*Read-Eval-Print-Loop*), prompting you for a JavaScript line. Now type <code>console.log("Hello Node!!");</code> You will get a reply <code>"Hello Node!!"</code>. Pretty easy right?

Lets write the same piece of code in a file and run it (just for fun). Create a new folder, lets call it node-dev and create a new file inside it and name it helloNode.js. Open this file in your favorite editor and add the below line of code to it.

Presentations

- Overview of Angularis
- How Browser
 Works
- Web Components
- Modern UI Build
 Systems and
 Scaffolding Tools
- Backbonejs
- Responsive Web Design

console.log("Hello Node!!");

Now lets run it. Back to prompt [(ctr1 + c) twice] in case the node server is still running from our previous example. And then navigate to the location where you have created the file hellowode.js using cd.

Now run node helloNode.js Bam!! your message!!

Projects

- Rotten Tomatoes
 ¡Query Rest Client
- blueimp-fileupload-expressjs -A Node Package
- lazyboy Ind line lazines ined

Hello HTTP

Learn your way around Ionic framework. Check out Learning Ionic! | Buy בפנג עט גטווופנווווון a טוג וווטו פ וווגפו פגנווון. בפנג wi וגפ a simple HTTP server, that will dispatch a message.

The rule of thumb with Node.js is

Every function in Node.js is asynchronous.

Create a new file inside our node-dev folder and name it server.js. Open this file in your favorite editor and add the below piece of code

```
Hello HTTP!
1 var http = require("http"),
       port = 1234;
4 var server = http.createServer(function(request, response){
5
       response.writeHeader(200, {"Content-Type": "text/plain
6
       response.write("Hello HTTP!");
7
       response.end();
8 });
9
10 server.listen(port);
11 console.log("Server Running on "+port+".\nLaunch http://lo
```

Yes, that's it. This is our HTTP server, that will understand all the HTTP requests and can respond accordingly.

Code Walk-through

Line 1: Node.js has a simple module loading system. In Node, libraries (in C) are called as *modules*. We can add our own modules (a post later on this). Here we are loading the HTTP module via the require()

Line 2: Lets specify the port we want our server to run on.

Line 4: Creates a new Server and this function takes a callback. Remember everything in Node is Async!. The anonymous function takes in the request and response object. In simple terms, Request is that data when the

diskDB - A Light

JONIN DATABASE - W Node Package

X

- My Slush Generators
- My Yeoman Generators
- My Web Components
- My Bower Packages

Series

- Ionic, Twilio and Node Scheduler – A Reminder App
- Node Webkit Apps
- Raspberry Pi

Guest Posts

- Building a Chat App with nodewebkit, Firebase, and AngularJS
- Creating a Sentiment Analysis **Application Using** Node.js
- Implementing pagination with MongoDF Express.j. (1) ısh

call is made to the server and Response is that data

Learn your way around Ionic framework. Check out Learning Ionic!

e.g. http://www.something.com/id=1 (use id=1 part of the request object. And response can be

Application

part of the request object. And response can be anything from simple string to a complete page!. In this case it is a string "Hello HTTP!".

 Getting started with MongoDB and Mongoose

Creating a

Line 5: This will set a response header, describing the content type we are dispatching.

Yeoman,Mongoose andMongoDB

Line 6: This will write our message to the client.

Line 7: Unless the response.end() is encountered, the response will not be dispatched back. This method will notify that the server operation is completed.

Line 10: We are initializing the server and asking it to listen to the port specified & then wait for things to happen.

Line 11: A friendly console log message

Now lets run this. Back to prompt then run node
server.js. Open a browser and navigate to
http://localhost:1234/ and there you can see your message!

Order of execution

On load of the js file, only lines 1, 2, 4, 10 &11 are executed. Then Node creates a new server and waits for something to happen. As soon as you open a browser and navigate to http://localhost:1234/ a new event is raised notifying the event loop to dispatch lines 5,6,7 and then Node goes back to doing what it was doing..!

Top5 Posts

- Architecting a
 Secure RESTful
 Node.js app 161,812 views
- Getting Started with Angular 2.0 -138,235 views
- Developing a
 MEAN app with
 Angular 2.0 86,983
 views
- Node Webkit –
 Build Desktop
 Apps with Node
 and Web
 Technologies 85,002 views
- Ionic Restify
 MongoDB An
 End to End Hybrid
 App 67,986 views

Hello TCP



You can create your own TCP server using the

Learn your way around Ionic framework. Check out Learning Ionic! Buy aud the below code worderess

Hello TCP! JavaScript var net = require('net'); var port = 1235; 2 3 net.createServer(function(socket) { 4 5 console.log('A new client connected'); 6 7 socket.on('data', function(data) { console.log('Data received from client : '+data); 8 9 }); socket.on('close', function(data) { 10 11 console.log('A client disconnected'); 12 }); 13 14 }).listen(port, "localhost"); 15 16 console.log("Server Running on "+port+".\nLaunch http://lo

You can run the above code in the prompt as hellotcp.js. Open a browser and navigate to http://localhost:1235/ and then come back to the prompt to see the output.

There are a lot of other thing that can be done with Node. I will unveil some in my future posts.

Thanks for reading! Do comment. @arvindr21

- (0)
- 0
- 0

Like this:





One blogger likes this.

Related

Write your own Node Modules

February 15, 2014 In "Javascript"

Deploying Node Applications to Heroku

May 17, 2014 In "Deployments"

Koa Monk and Gulp - Getting Started

May 17, 2014 In "Database"

- Learning Ionic
 - vvoruriess & Angular Material – An Offline Viewer

X

- Developing a MEAN app with Angular 2.0
- Pushbots and Cordova – Easy Push Notifications for your app
- Getting Started with Client Side Storage

Categories

- Architecture (8)
- CSS (9)
 - CSS3 (6)
 - LESS (3)
 - SASS (1)
- Database (17)
 - Disk DB (6)
 - Firebase (4)
 - MongoDB (8)
 - MongoLab
 - (3)
 - Monk (1)
- Deployments (4)
 - Heroku (2)
- Desktop Apps (8)
- DNA Analysis (1)
- ECMAScript 6 (3)
- Electron (atom shell) (1)

• Frameworks (42)

Learn your way around Ionic framework. Check out Learning Ionic! Buy

■ FEBRUARY 12, 2014

ARVIND RAVULAVARU

- Aliguiai | 5 (∠1)
- Backbonejs (1)
- Bootstrap (9)
- Emberjs (1)
- Foundation (3)
- Framework7 (1)
- lonic (11)
- Lumx (1)
- MEAN (4)
- Meteoris (1)
- Onsen UI (2)
- Git (12)
 - GitHub (10)
- HTML (22)
 - HTML5 (21)
 - WebRTC (1)
 - WebSockets (6)
- Intel's App UI (1)
- IoT (6)
- Javascript (75)
 - jQuery (14)
- Material Design (3)
- Mobile (21)
 - Android (15)
 - Firefox OS (2)
 - iOS (11)
 - PhoneGap (16)
- MQTT (1)
- My Books (1)
- Node (60)
 - CLI (3)
 - Expressis (18)
 - Genome (1)
 - Grunt (8)
 - Koa (1)







Recommend 1

12 Comments



Sort by Best ▼



Join the discussion...



Jeff • 2 years ago

Thanks Arvind for all of your tutorials. They are eloquently written and easy to follow. Cheers.

2 A V • Reply • Share >



Arvind Ravulavaru Mod → Jeff • 2 years ago

Thanks Jeff!



8ne • 2 years ago

Hi, nice tutorials.

I tested HelloHTTP and works perfectly, now I tested helloTCP but once it starts I can not connect the navigator says "ERR CONNECTION REFUSED" . I dont know how to correct, any suggestion?

1 ^ Reply • Share >



8ene → 8ne • 2 years ago

I discover the problem, I was doing the test remotely on my raspberry Pi and this is not localhost. I change "locahost" by "0.0.0.0". Now it works remotely.

∧ V • Reply • Share >



Arvind Ravulavaru Mod → 8ene • 2 years ago Great!

Reply • Share >



Tech4Lead • a year ago

Great explanation !!! Thanks

Node Webkit (7)

Learn your way around Ionic framework. Check out Learning Ionic! Buv







Arvind Ravulavaru Mod → Vikrant Singh • 2 years ago

Thanks Vikranth. Glad it helped.



Randy Davis • 2 years ago

Arvind, I'm hooked on your style of doing things! Keep it up as you have gained a follower for a long time to come! Great stuff!



Arvind Ravulavaru Mod → Randy Davis • 2 years ago Thanks Randy. Glad I could be of help.



Tara Prasad Dash • 2 years ago

Great place to start. Thanks a lot.



Arvind Ravulavaru Mod → Tara Prasad Dash • 2 years ago —

Thanks Tara!



ON THE JACKAL OF JAVASCRIPT

Javascript 101

5 comments • 2 years ago •

TublarDisk — This was excellent. Cheers!

Electron, WordPress & Angular Material – An Offline Viewer

6 comments • a year ago •

Robert Cox — bravo man, this

Raspberry pi, an Ultrasonic Sensor and Node.js - Measure

24 comments • 2 years ago •

Surampalli Rajesh — Hello Sir,I just followed all the steps mentioned in this blog bit in

Learning Ionic

22 comments • a year ago •

Pavan Alapati — hi Arvind, you blogs are really userfully. we

- Push Notifications
- Quick and Dirty (42)
- Raspberry Pi (9)
- Setup (60)
- Testing (5)
 - Jasmine (1)
 - Protractor (1)
 - Test Automation (1)
 - Test Driven Developement (2)
- Third Party Products (4)
 - Twilio (4)
- Tutorial (79)
- UI Performance (1)
- Web Components (3)
- Web Starter Kit (1)

Archives

- July 2015
- May 2015
- April 2015
- March 2015
- February 2015
- January 2015
- December 2014
- November 2014
- October 1

August 2014

X

Learn your way around lonic framework. Check out Learning lonic! Buy

- June 2014
- May 2014
- April 2014
- March 2014
- February 2014

Inform me about
new posts

Email *		

SUBSCRIBE!

ALL RIGHTS RESERVED | THE JACKAL OF JAVASCRIPT



