

# Nodejs How To?

[nodejs.org](https://nodejs.org)

# Where do we use it?

- Yahoo Proxy Feed
- XML Api
- IP2Country Service
- IP Spam Cop
- Skitto
- RTB Serving

# We Started with an evil

```
var http = require('http');  
http.createServer(function (req, res) {  
  res.writeHead(200, {'Content-Type': 'text/plain'});  
  res.end('Hello World ');  
}).listen(1337, '127.0.0.1');  
console.log('Server running at http://127.0.0.1:1337/');
```



# DON'T CALL ME A WEBSERVER

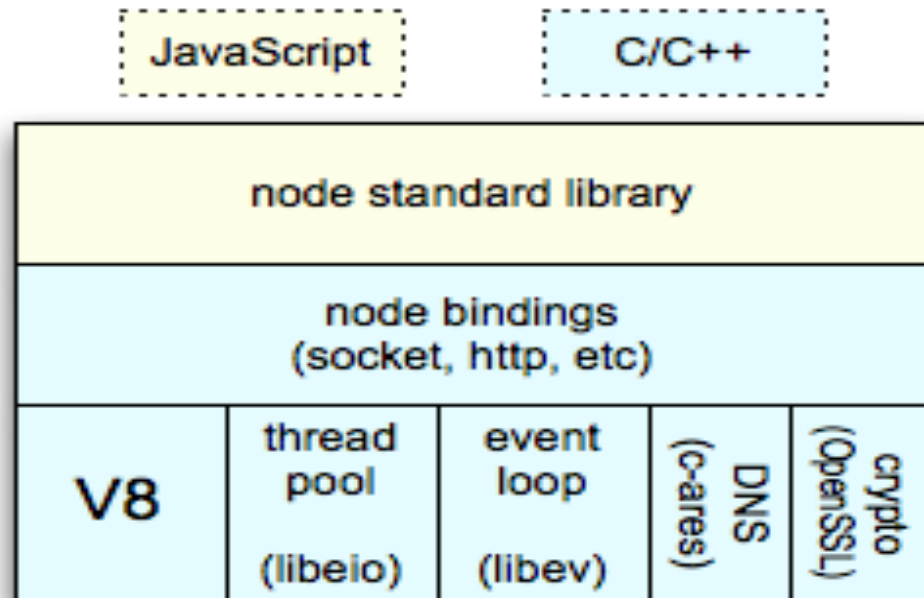
Why??

Coz I Can even answer what  $1+1$  is :P

I'm a platform with event-driven, non-blocking I/O for N/W application development

Using Node as a Server that responds to HTTP requests is a use case :)

# ARCHITECTURE



# LOOP IS MY LIFE

I have only one worker [Single Threaded]

He runs in an Event Loop

- A Loop over a queue of events to be processed
- Event Loop !== setInterval

He serves the events via callbacks and Don't dare to block him, then I will the shift to state of coma ;)

# AM I ASYNC?

Ya people do believe so ;)

## Scenarios

- I/O
- setInterval
- setTimeout
- process.nextTick

# Quick Demo



# Programming in Node

## Prerequisites

- Deeper understanding of javascript closures and this [We take it for granted :P]
- Node's async behaviour
- Node's module system & npm [He is the one :)]

# Nodejs Module System

- Inherits Common JS module system
- All you require is the cached module.exports object
- You have a lots of options to locate

# npm

- npm !== Node Package Manager [npm is not an acronym (ninaa) - may be ;)]
- If maven is for java then npm is for node
- npm + package.json + modules The way to write node app :)

# Is coding asynchronous way hard?

We had no choice and we were left in the state below :P



# Patterns and Antipatterns??

PS: All Javascript Patterns and Antipatterns apply ;)

# **Debugging + Monitoring :(**

Trust us, It is harder than developing an App :)

# Overview

Questions !!!!!