

Getting Started

Node.JS is evented I/O for V8 JavaScript. It is asynchronous in nature, with handlers to I/O and other events being function callbacks. It is particularly suited to distributed computing environments with high concurrency.

node script.js Run script

npm install <package> Install package with npm

Globals			
var variable	Initialize variable local to module		
process	Properties & methods for current process		
console	Used to print to stdout & stderr		
require()	To require modules		
require.resolve	Lookup location of module		
require.paths	Paths to search when requiring modules		
_filename	File name of script being executed		
_dirname	Directory name of script being executed		
module	Reference to current module		
setTimeout(), clearTimeout()			
setInterval(), clearInterval()			

Modules					
stdio					
Object for printing to stdout and stderr, like in a browser.					
console.log(string)	Print to	stdout with newline			
console.error(string)	Same a	as console.log() but to stderr			
console.time(label)	Set tim	Set time marker			
console.timeEnd(label) Finish timer, record output					
console.trace()		Print stack trace to stderr of current position			
Process					
Global object. Instance of EventEmitter					
Events:					
process.on(SIGNAL, ca	llback)	Signal events emitted when process receives a signal			
exit		Process is about to exit			
uncaughtException Exception bubbled back to event loop					
Properties: process.stdout					
processs.stderr					
process.stdin					
process.argv					
process.env					
process.pid					

Modules (continued)					
util					
Useful method	ds:				
util.debug(me	essage) Synchronous cons	ole.error(message)			
util.log(messa	ge) Print timestamped message to stdout				
events					
Callback functions executed when events occur are <i>listeners</i> . emitter is an instance of <i>EventEmitter</i> .					
emitter.on(eve	ent, listener)	Add a listener for event			
emitter.once(e	event, listener)	Fire listener once			
emitter.removeListener(event,listener)		Remove a listener			
emitter.remov	ve All Listeners (event)	Remove all listeners			
emitter.emit(event, [[arg1], [arg2], []])		Execute listeners for this event with supplied args			
net					
Asynchronous network wrapper for creating streams.					
net.Server:					
net.createServer([options], [connectionListener]) Create TCP server. Returns net.Server					
server.listen(port, [host], [callback]) Bind on host:port. listener is executed when bound					
server.listenF[D(fd) List	en on file descriptor fd			
server.close() Stop		o accepting new connections			
net.Socket:					
new net.Socket([{fd: file descriptor, type: socket type, allowHalfOpen: bool}]) Construct new socket object					
socket.connec	ct(port, [host], [callback]) (pen connection to socket			
socket.bufferS	Size Number of char	acters in internal write buffer			
socket.write(data, [encoding], [callback]) Send data on socket					
socket.end()	-				
socket.pause() Pau	se reading of data			
event					
Emitted when	:				
connect	Socket connection established				
data	Data is received				
end	Other end of socket sent FIN packet				
timeout	Timed out from inactivity				
drain	Write buffer has become empty				
error	Error has occurred. close event emitted after				
close	Socket fully closed				