

Resource

Online
Official Website

Related
JavaScript

File

File System

```
fs.rename(oldPath, newPath, [callback])
fs.renameSync(oldPath, newPath)
fs.truncate(fd, len, [callback])
fs.truncateSync(fd, len)
fs.chown(path, uid, gid, [callback])
fs.chownSync(path, uid, gid)
fs.fchown(fd, uid, gid, [callback])
fs.fchownSync(fd, uid, gid)
fs.lchown(path, uid, gid, [callback])
fs.lchownSync(path, uid, gid)
fs.chmod(path, mode, [callback])
fs.chmodSync(path, mode)
fs.fchmod(fd, mode, [callback])
fs.fchmodSync(fd, mode)
fs.lchmod(path, mode, [callback])
fs.lchmodSync(path, mode)
fs.stat(path, [callback])
fs.lstat(path, [callback])
fs.fstat(fd, [callback])
fs.statSync(path)
fs.lstatSync(path)
fs.fstatSync(fd)
fs.link(srcpath, dstpath, [callback])
fs.linkSync(srcpath, dstpath)
fs.symlink(destination, path, [type], [callback])
fs.symlinkSync(destination, path, [type])
fs.readlink(path, [callback])
fs.readlinkSync(path)
fs.realpath(path, [cache], [callback])
fs.realpathSync(path, [cache])
fs.unlink(path, [callback])
fs.unlinkSync(path)
fs.rmdir(path, [callback])
fs.rmdirSync(path)
```

Basic

Global Objects

```
global
process
console
Class: Buffer
require()
require.resolve()
require.cache
require.extensions
__filename
__dirname
module
exports
setTimeout(cb, ms)
clearTimeout(t)
setInterval(cb, ms)
clearInterval(t)
```

console

```
console.log([data], [...])
console.info([data], [...])
console.error([data], [...])
console.warn([data], [...])
console.dir(obj)
console.time(label)
console.timeEnd(label)
console.trace(label)
console.assert(expression, [message])
```

Timers

```
setTimeout(callback, delay, [arg], [...])
clearTimeout(timeoutId)
setInterval(callback, delay, [arg], [...])
clearInterval(intervalId)
```

Util

```
util.format(format, [...])
util.debug(string)
util.error([...])
util.puts([...])
util.print([...])
util.log(string)
util.inspect(object, [showHidden], [depth], [colors])
util.isArray(object)
util.isRegExp(object)
util.isDate(object)
util.isError(object)
util.pump(readableStream, writableStream, [callback])
util.inherits(constructor, superConstructor)
```

Module

Modules

```
Cycles
Core Modules
File Modules
Loading from node_modules
Module Caching
Caveats
The module Object
module.exports
module.require(id)
module.id
module.filename
module.loaded
module.parent
module.children
All Together...
Loading from the global folders
Accessing the main module
Addenda: Package Manager Tips
```

Addons

```
Hello world
Addon patterns
Function arguments
Callbacks
Object factory
Function factory
Wrapping C++ objects
Factory of wrapped objects
Passing wrapped objects around
```

Net

net

```
net.createServer([options], [connectionListener])
net.connect(options, [connectionListener])
net.createConnection(options, [connectionListener])
net.connect(port, [host], [connectionListener])
net.createConnection(port, [host], [connectionListener])
net.connect(path, [connectionListener])
```

Buffer/Stream

Buffer

```
Buffer
Class: Buffer
new Buffer(size)
new Buffer(array)
new Buffer(str, [encoding])
buf.write(string, [offset], [length], [encoding])
buf.toString([encoding], [start], [end])
buf[index]
Class Method: Buffer.isBuffer(obj)
Class Method: Buffer.byteLength(string, [encoding])
Class Method: Buffer.concat(list, [totalLength])
buf.length
buf.copy(targetBuffer, [targetStart], [sourceStart], [sourceEnd])
buf.slice([start], [end])
buf.readUInt8(offset, [noAssert])
buf.readUInt16LE(offset, [noAssert])
buf.readUInt16BE(offset, [noAssert])
buf.readUInt32LE(offset, [noAssert])
buf.readUInt32BE(offset, [noAssert])
buf.readInt8(offset, [noAssert])
buf.readInt16LE(offset, [noAssert])
buf.readInt16BE(offset, [noAssert])
buf.readInt32LE(offset, [noAssert])
buf.readInt32BE(offset, [noAssert])
buf.readFloatLE(offset, [noAssert])
buf.readFloatBE(offset, [noAssert])
buf.readDoubleLE(offset, [noAssert])
buf.readDoubleBE(offset, [noAssert])
buf.writeUInt8(value, offset, [noAssert])
buf.writeUInt16LE(value, offset, [noAssert])
buf.writeUInt16BE(value, offset, [noAssert])
buf.writeUInt32LE(value, offset, [noAssert])
```

Process/Events

Process

```
Event: 'exit'
Event: 'uncaughtException'
Signal Events
process.stdout
process.stderr
process.stdin
process.argv
process.execPath
process.abort()
process.chdir(directory)
process.cwd()
process.env
process.exit([code])
process.getgid()
process.setgid(id)
process.getuid()
process.setuid(id)
process.version
process.versions
process.config
process.kill(pid, [signal])
process.pid
process.title
process.arch
process.platform
process.memoryUsage()
process.nextTick(callback)
process.umask([mask])
process.uptime()
process.hrtime()
```

Events

```
Class: events.EventEmitter
emitter.addListener(event, listener)
emitter.on(event, listener)
emitter.once(event, listener)
emitter.removeListener(event, listener)
emitter.removeAllListeners([event])
emitter.setMaxListeners(n)
emitter.listeners(event)
emitter.emit(event, [arg1], [arg2], [...])
Event: 'newListener'
```

Domain

Domain

```
Additions to Error objects
Implicit Binding
Explicit Binding
domain.create()
Class: Domain
domain.run(fn)
domain.members
domain.add(emitter)
domain.remove(emitter)
domain.bind(cb)
Example
domain.intercept(cb)
Example
domain.dispose()
```

Crypto

```
crypto.createCredentials(details)
crypto.createHash(algorithm)
Class: Hash
hash.update(data, [input_encoding])
hash.digest([encoding])
crypto.createHmac(algorithm, key)
Class: Hmac
hmac.update(data)
hmac.digest([encoding])
crypto.createCipher(algorithm, password)
crypto.createCipheriv(algorithm, key, iv)
Class: Cipher
cipher.update(data, [input_encoding], [output_encoding])
cipher.final([output_encoding])
cipher.setAutoPadding(auto_padding=true)
crypto.createDecipher(algorithm, password)
crypto.createDecipheriv(algorithm, key, iv)
Class: Decipher
decipher.update(data, [input_encoding], [output_encoding])
decipher.final([output_encoding])
decipher.setAutoPadding(auto_padding=true)
crypto.createSign(algorithm)
Class: Signer
signer.update(data)
signer.sign(private_key, [output_format])
crypto.createVerify(algorithm)
```

Text

Path

```

fs.mkdir(path, [mode], [callback])
fs.mkdirSync(path, [mode])
fs.readdir(path, [callback])
fs.readdirSync(path)
fs.close(fd, [callback])
fs.closeSync(fd)
fs.open(path, flags, [mode], [callback])
fs.openSync(path, flags, [mode])
fs.utimes(path, atime, mtime, [callback])
fs.utimesSync(path, atime, mtime)
fs.futimes(fd, atime, mtime, [callback])
fs.futimesSync(fd, atime, mtime)
fs.fsync(fd, [callback])
fs.fsyncSync(fd)
fs.write(fd, buffer, offset, length, position, [callback])
fs.writeSync(fd, buffer, offset, length, position)
fs.read(fd, buffer, offset, length, position, [callback])
fs.readSync(fd, buffer, offset, length, position)
fs.readFile(filename, [encoding], [callback])
fs.readFileSync(filename, [encoding])
fs.writeFile(filename, data, [encoding], [callback])
fs.writeFileSync(filename, data, [encoding])
fs.appendFile(filename, data, [encoding='utf8'], [callback])
fs.appendFileSync(filename, data, [encoding='utf8'])
fs.watchFile(filename, [options], listener)
fs.unwatchFile(filename)
fs.watch(filename, [options], listener)
Caveats
Availability
Filename Argument
fs.exists(path, [callback])
fs.existsSync(path)
Class: fs.Stats
fs.createReadStream(path, [options])
Class: fs.ReadStream
Event: 'open'
fs.createWriteStream(path, [options])
Class: fs.WriteStream
Event: 'open'
file.bytesWritten
Class: fs.FSWatcher
watcher.close()
Event: 'change'

```

HTTP

http

```

http.STATUS_CODES
http.createServer([requestListener])
http.createClient([port], [host])
http.request(options, callback)
http.get(options, callback)
http.globalAgent

```

Class: http.Server

```

Event: 'request'
Event: 'connection'
Event: 'close'
Event: 'checkContinue'
Event: 'connect'
Event: 'upgrade'
Event: 'clientError'
server.listen(port, [hostname], [backlog], [callback])
server.listen(path, [callback])
server.listen(handle, [listeningListener])
server.close([cb])
server.maxHeadersCount

```

Class: http.ServerRequest

```

Event: 'data'
Event: 'end'
Event: 'close'
request.method
request.url
request.headers
request.trailers
request.httpVersion
request.setEncoding([encoding])
request.pause()
request.resume()
request.connection

```

Class: http.ServerResponse

```

Event: 'close'
response.writeContinue()
response.writeHead(statusCode, [reasonPhrase], [headers])
response.statusCode
response.setHeader(name, value)
response.sendDate
response.getHeader(name)
response.removeHeader(name)
response.write(chunk, [encoding])

```

```

net.createConnection(path, [connectListener])
Class: net.Server
server.listen(port, [host], [backlog], [listeningListener])
server.listen(path, [listeningListener])
server.listen(handle, [listeningListener])
server.close([cb])
server.address()
server.maxConnections
server.connections
Event: 'listening'
Event: 'connection'
Event: 'close'
Event: 'error'
Class: net.Socket
new net.Socket([options])
socket.connect(port, [host], [connectListener])
socket.connect(path, [connectListener])
socket.bufferSize
socket.setEncoding([encoding])
socket.write(data, [encoding], [callback])
socket.end([data], [encoding])
socket.destroy()
socket.pause()
socket.resume()
socket.setTimeout(timeout, [callback])
socket.setNoDelay([noDelay])
socket.setKeepAlive([enable], [initialDelay])
socket.address()
socket.remoteAddress
socket.remotePort
socket.bytesRead
socket.bytesWritten
Event: 'connect'
Event: 'data'
Event: 'end'
Event: 'timeout'
Event: 'drain'
Event: 'error'
Event: 'close'
net.isIP(input)
net.isIPv4(input)
net.isIPv6(input)

```

UDP / Datagram Sockets

```

dgram.createSocket(type, [callback])
Class: Socket
Event: 'message'
Event: 'listening'
Event: 'close'
Event: 'error'
dgram.send(buf, offset, length, port, address, [callback])
dgram.bind(port, [address])

```

```

buf.writeUInt32BE(value, offset, [noAssert])
buf.writeInt8(value, offset, [noAssert])
buf.writeInt16LE(value, offset, [noAssert])
buf.writeInt16BE(value, offset, [noAssert])
buf.writeInt32LE(value, offset, [noAssert])
buf.writeInt32BE(value, offset, [noAssert])
buf.writeFloatLE(value, offset, [noAssert])
buf.writeFloatBE(value, offset, [noAssert])
buf.writeDoubleLE(value, offset, [noAssert])
buf.writeDoubleBE(value, offset, [noAssert])
buf.fill(value, [offset], [end])
buffer.inspect
Class: SlowBuffer

```

Stream

```

Readable Stream
Event: 'data'
Event: 'end'
Event: 'error'
Event: 'close'
stream.readable
stream.setEncoding([encoding])
stream.pause()
stream.resume()
stream.destroy()
stream.pipe(destination, [options])
Writable Stream
Event: 'drain'
Event: 'error'
Event: 'close'
Event: 'pipe'
stream.writable
stream.write(string, [encoding], [fd])
stream.write(buffer)
stream.end()
stream.end(string, encoding)
stream.end(buffer)
stream.destroy()
stream.destroySoon()

```

TTY

```

tty.isatty(fd)
tty.setRawMode(mode)
Class: ReadStream
rs.isRaw
rs.setRawMode(mode)
Class: WriteStream
ws.columns
ws.rows
Event: 'resize'

```

```

path.normalize(p)
path.join([path1], [path2], [...])
path.resolve([from ...], to)
path.relative(from, to)
path.dirname(p)
path.basename(p, [ext])
path.extname(p)
path.sep

```

Query String

```

querystring.stringify(obj, [sep], [eq])
querystring.parse(str, [sep], [eq], [options])
querystring.escape
querystring.unescape

```

punycode

```

punycode.decode(string)
punycode.encode(string)
punycode.toUnicode(domain)
punycode.toASCII(domain)
punycode.ucs2
punycode.ucs2.decode(string)
punycode.ucs2.encode(codePoints)
punycode.version

```

Readline

```

readline.createInterface(options)
Class: Interface
rl.setPrompt(prompt, length)
rl.prompt([preserveCursor])
rl.question(query, callback)
rl.pause()
rl.resume()
rl.close()
rl.write(data, [key])
Events
Event: 'line'
Event: 'pause'
Event: 'resume'
Event: 'close'
Event: 'SIGINT'
Event: 'SIGTSTP'
Event: 'SIGCONT'
Example: Tiny CLI

```

REPL

```

repl.start(options)
Event: 'exit'
REPL Features

```

```

Class: Verify
verifier.update(data)
verifier.verify(object, signature, [signature_format])
crypto.createDiffieHellman(primeLength)
crypto.createDiffieHellman(prime, [encoding])
Class: DiffieHellman
diffieHellman.generateKeys([encoding])
diffieHellman.computeSecret(otherPublicKey, [input_encoding], [output_encoding])
diffieHellman.getPrime([encoding])
diffieHellman.getGenerator([encoding])
diffieHellman.getPublicKey([encoding])
diffieHellman.getPrivateKey([encoding])
diffieHellman.setPublicKey(publicKey, [encoding])
diffieHellman.setPrivateKey(privateKey, [encoding])
crypto.getDiffieHellman(groupName)
crypto.pbkdf2(password, salt, iterations, keylen, callback)
crypto.randomBytes(size, [callback])

```

TSL(SSL)

```

Client-initiated renegotiation
ack mitigation
NPN and SNI
tls.createServer(options, [secureConnectionListener])
tls.connect(options, [secureConnectionListener])
tls.connect(port, [host], [options], [secureConnectionListener])
tls.createSecurePair([credentials], [isServer], [requestCert], [rejectUnauthorized])
Class: SecurePair
Event: 'secure'
Class: tls.Server
Event: 'secureConnection'
Event: 'clientError'
server.listen(port, [host], [callback])
server.close()
server.address()
server.addContext(hostname, credentials)
server.maxConnections
server.connections
Class: tls.CleartextStream
Event: 'secureConnect'
cleartextStream.authorized

```

Code

Executing JS

Event: 'error'

3rd Party

Third Party Modules

Module Installer:

npm

HTTP Middleware:

Connect

Web Framework:

Express

Web Sockets:

Socket.IO

HTML Parsing:

HTML5

mDNS/Zeroconf/Bonjour

/li>

RabbitMQ, AMQP

mysql

Serialization:

msgpack

Scraping:

Apricot

Debugger:

ndb

is a CLI debugger

inspector

is a web based tool.

pcap binding

ncurses

Testing/TDD/BDD:

vows

,
mocha

,
mjsunit.runner

response.addTrailers(headers)
response.end([data], [encoding])

Class: http.Agent

agent.maxSockets

agent.sockets

agent.requests

Class: http.ClientRequest

Event 'response'

Event: 'socket'

Event: 'connect'

Event: 'upgrade'

Event: 'continue'

request.write(chunk, [encoding])

request.end([data], [encoding])

request.abort()

request.setTimeout(timeout, [callback])

request.setNoDelay([noDelay])

request.setSocketKeepAlive([enable], [initialDelay])

http.ClientResponse

Event: 'data'

Event: 'end'

Event: 'close'

response.statusCode

response.httpVersion

response.headers

response.trailers

response.setEncoding([encoding])

response.pause()

response.resume()

HTTPS

Class: https.Server

https.createServer(options, [requestListener])

https.request(options, callback)

https.get(options, callback)

Class: https.Agent

https.globalAgent

URL

url.parse(urlStr, [parseQueryString], [slashesDenoteHost])

url.format(urlObj)

url.resolve(from, to)

dgram.close()
dgram.address()
dgram.setBroadcast(flag)
dgram.setTTL(ttl)
dgram.setMulticastTTL(ttl)
dgram.setMulticastLoopback(flag)
dgram.addMembership(multicastAddress, [multicastInterface])
dgram.dropMembership(multicastAddress, [multicastInterface])

DNS

dns.lookup(domain, [family], callback)

dns.resolve(domain, [rrtype], callback)

dns.resolve4(domain, callback)

dns.resolve6(domain, callback)

dns.resolveMx(domain, callback)

dns.resolveTxt(domain, callback)

dns.resolveSrv(domain, callback)

dns.resolveNs(domain, callback)

dns.resolveCname(domain, callback)

dns.reverse(ip, callback)

Error codes

System

Zlib

Examples

zlib.createGzip([options])

zlib.createGunzip([options])

zlib.createDeflate([options])

zlib.createInflate([options])

zlib.createDeflateRaw([options])

zlib.createInflateRaw([options])

zlib.createUnzip([options])

Class: zlib.Gzip

Class: zlib.Gunzip

Class: zlib.Deflate

Class: zlib.Inflate

Class: zlib.DeflateRaw

Class: zlib.InflateRaw

Class: zlib.Unzip

Convenience Methods

zlib.deflate(buf, callback)

zlib.deflateRaw(buf, callback)

zlib.gzip(buf, callback)

zlib.gunzip(buf, callback)

zlib.inflate(buf, callback)

zlib.inflateRaw(buf, callback)

zlib.unzip(buf, callback)

Options

Memory Usage Tuning

Constants

os

os.tmpDir()

os.hostname()

os.type()

os.platform()

os.arch()

os.release()

os.uptime()

os.loadavg()

os.totalmem()

os.freemem()

os.cpus()

os.networkInterfaces()

os.EOL

Debugger

Watchers

Commands reference

Stepping

Breakpoints

Info

Execution control

Various

Advanced Usage

Caveats

Sandboxes

Globals

vm.runInThisContext(code, [filename])

vm.runInNewContext(code, [sandbox], [filename])

vm.runInContext(code, context, [filename])

vm.createContext([initSandbox])

vm.createScript(code, [filename])

Class: Script

script.runInThisContext()

script.runInNewContext([sandbox])

Child Process

Class: ChildProcess

Event: 'exit'

Event: 'close'

Event: 'disconnect'

Event: 'message'

child.stdin

child.stdout

child.stderr

child.pid

child.kill([signal])

child.send(message, [sendHandle])

child.disconnect()

child_process.spawn(command, [args], [options])

child_process.exec(command, [options], callback)

child_process.execFile(file, args, options, callback)

child_process.fork(modulePath, [args], [options])

Assert

assert.fail(actual, expected, message, operator)

assert(value, message), assert.ok(value, [message])

assert.equal(actual, expected, [message])

assert.notEqual(actual, expected, [message])

assert.deepEqual(actual, expected, [message])

assert.strictEqual(actual, expected, [message])

assert.notStrictEqual(actual, expected, [message])

assert.throws(block, [error], [message])

assert.doesNotThrow(block, [error], [message])

assert.ifError(value)

clearTextStream.authorizationError
clearTextStream.getPeerCertificate()
clearTextStream.getCipher()
clearTextStream.address()
clearTextStream.remoteAddress
clearTextStream.remotePort

StringDecoder

Class: StringDecoder

StringDecoder.write(buffer)

Cluster

How It Works

cluster.settings

cluster.isMaster

cluster.isWorker

Event: 'fork'

Event: 'online'

Event: 'listening'

Event: 'disconnect'

Event: 'exit'

Event: 'setup'

cluster.setupMaster([settings])

cluster.fork([env])

cluster.settings

cluster.disconnect([callback])

cluster.workers

Class: Worker

worker.id

worker.process

worker.suicide

worker.send(message, [sendHandle])

worker.destroy()

worker.disconnect()

Event: 'message'

Event: 'online'

Event: 'listening'

Event: 'disconnect'

Event: 'exit'