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send

npm	v1.2.1	downloads	307.4M/month	linux	success
coverage	100%				

Send is a library for streaming files from the file system as a http response supporting partial responses (Ranges), conditional-GET negotiation (If-Match, If-Unmodified-Since, If-None-Match, If-Modified-Since), high test coverage, and granular events which may be leveraged to take appropriate actions in your application or framework.

Looking to serve up entire folders mapped to URLs? Try [serve-static](#).

Installation

This is a [Node.js](#) module available through the [npm registry](#). Installation is done using the [npm install command](#):

```
$ npm install send
```

API

```
var send = require('send')
```

send(req, path, options)

Create a new `SendStream` for the given path to send to a `res`. The `req` is the Node.js HTTP request and the path is a urlencoded path to send (urlencoded, not the actual file-system path).

Options

`acceptRanges`

Enable or disable accepting ranged requests, defaults to true. Disabling this will not send `Accept-Ranges` and ignore the contents of the `Range` request header.

`cacheControl`

Enable or disable setting `Cache-Control` response header, defaults to true. Disabling this will ignore the immutable and `maxAge` options.

`dotfiles`

Set how “dotfiles” are treated when encountered. A dotfile is a file or directory that begins with a dot (“.”). Note this check is done on the path itself without checking if the path actually exists on the disk. If `root` is specified, only the dotfiles above the root are checked (i.e. the root itself can be within a dotfile when set to “deny”).

- `'allow'` No special treatment for dotfiles.

```
res.end(err.message)

// your custom headers
function headers (res, path, stat) {
  // serve all files for download
  res.setHeader('Content-
Disposition', 'attachment')
}

// your custom directory handling
logic:
function redirect () {
  res.statusCode = 301
  res.setHeader('Location', req.url +
'/' +
res.end('Redirecting to ' + req.url
+ '/')
}

// transfer arbitrary files from
within
// /www/example.com/public/*
send(req, parseUrl(req).pathname, {
  root: '/www/public', })
.on('error', error)
.on('directory', redirect)
.on('headers', headers)
.pipe(res)
})

server.listen(3000)
```

```

var stream = this

// redirect to trailing slash for
// consistent url
if (!stream.hasTrailingSlash()) {
  return stream.redirect(path)
}

// get directory list
fs.readdir(path, function onReaddir
  (err, list) {
    if (err) return stream.error(err)

    // render an index for the directory
    res.setHeader('Content-Type', 'text/
      plain; charset=UTF-8')
    res.end(list.join('\n') + '\n')
  })
}

```

Serving from a root directory with custom error-handling

```

var http = require('http')
var parseUrl = require('parseurl')
var send = require('send')

var server = http.createServer(function
  onRequest (req, res) {
    // your custom error-handling logic:
    function error (err) {
      res.statusCode = err.status || 500
    }
  })

```

- 'deny' Send a 403 for any request for a dotfile.
- 'ignore' Pretend like the dotfile does not exist and 404.

The default value is *similar* to 'ignore', with the exception that this default will not ignore the files within a directory that begins with a dot, for backward-compatibility.

end

Byte offset at which the stream ends, defaults to the length of the file minus 1. The end is inclusive in the stream, meaning end: 3 will include the 4th byte in the stream.

etag

Enable or disable etag generation, defaults to true.

extensions

If a given file doesn't exist, try appending one of the given extensions, in the given order. By default, this is disabled (set to false). An example value that will serve extension-less HTML files: ['html', 'htm']. This is skipped if the requested file already has an extension.

immutable

Enable or disable the immutable directive in the Cache-Control response header, defaults to false. If set to true, the maxAge option should also be specified to enable caching. The immutable directive will prevent supported clients from making

conditional requests during the life of the maxAge option to check if the file has changed.

index

By default send supports “index.html” files, to disable this set false or to supply a new index pass a string or an array in preferred order.

lastModified

Enable or disable Last-Modified header, defaults to true. Uses the file system's last modified value.

maxAge

Provide a max-age in milliseconds for http caching, defaults to 0. This can also be a string accepted by the [ms](#) module.

root

Serve files relative to path.

start

Byte offset at which the stream starts, defaults to 0. The start is inclusive, meaning start : 2 will include the 3rd byte in the stream.

```
.pipe(res)
})
server.listen(3000)
```

Custom directory index view

This is an example of serving up a structure of directories with a custom function to render a listing of a directory.

```
var http = require('http')
var fs = require('fs')
var parseurl = require('parseurl')
var send = require('send')

// Transfer arbitrary files from
// within /www/example.com/public/*
// with a custom handler for directory
// listing
var server = http.createServer(function
  onRequest (req, res) {
    send(req, parseurl(req).pathname, {
      index: false, root: '/www/'
    })
    .once('directory', directory)
    .pipe(res)
  })
server.listen(3000)
```

```
// Custom directory handler
function directory (res, path) {
```

```

var server = http.createServer(function
    onRequest (req, res) {
    send(req, parseUrl(req).pathname, {
        root: '/www/public' })
    .pipe(res)
    })

server.listen(3000)

```

Custom file types

```

var extname = require('path').extname
var http = require('http')
var parseUrl = require('parseurl')
var send = require('send')

var server = http.createServer(function
    onRequest (req, res) {
    send(req, parseUrl(req).pathname, {
        root: '/www/public' })
    .on('headers', function (res, path)
        {
        switch (extname(path)) {
        case '.x-mt':
        case '.x-mtt':
            // custom type for these
            extensions
            res.setHeader('Content-Type',
                'application/x-my-type')
            break
        }
        })
    })

```

Events

The `SendStream` is an event emitter and will emit the following events:

- `error` an error occurred (`err`)
- `directory` a directory was requested (`res`, `path`)
- `file` a file was requested (`path`, `stat`)
- `headers` the headers are about to be set on a file (`res`, `path`, `stat`)
- `stream` file streaming has started (`stream`)
- `end` streaming has completed

`.pipe`

The `pipe` method is used to pipe the response into the Node.js HTTP response object, typically `send(req, path, options).pipe(res)`.

Error-handling

By default when no `error` listeners are present an automatic response will be made, otherwise you have full control over the response, aka you may show a 5xx page etc.

Caching

It does *not* perform internal caching, you should use a reverse proxy cache such as Varnish for this, or those fancy things called CDNs. If your application is small enough that it would benefit from single-node memory caching, it's small enough that it does not need caching at all ;).

Debugging

To enable debug () instrumentation output export **DEBUG:**

```
$ DEBUG=send node app
```

Running tests

```
$ npm install  
$ npm test
```

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Examples

Serve a specific file

This simple example will send a specific file to all requests.

```
var http = require('http')  
var send = require('send')  
  
var server = http.createServer(function  
  onRequest (req, res) {  
    send(req, '/path/to/index.html')  
      .pipe(res)  
    }  
  })  
server.listen(3000)
```

Serve all files from a directory

This simple example will just serve up all the files in a given directory as the top-level. For example, a request GET /foo.txt will send back /www/public/foo.txt.

```
var http = require('http')  
var parseUrl = require('parseurl')  
var send = require('send')
```

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