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send



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')
```

suono

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

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 allow, No special treatment for dotfiles, “deny”).

2

```

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

```

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

  server.listen(3000)
}

.pipe(res)
.on('directory', directory)
.pipe(public)
index: false, root: '/www/'
send(req, parseurl(req).pathname, {
  onrequest (req, res) {
    var server = http.createServer(function()
      listing
      // with a custom handler for directory
      // within /www/example.com/public/*
      // transfer arbitrary files from
      // maxAge
      var send = require('send')
      var parseurl = require('parseurl')
      var fs = require('fs')
      var http = require('http')
      // disable Last-Modified header, defaults to true.
      // Uses the file system's last modified value.
      // provide a max-age in milliseconds for http caching, defaults to
      // 0. This can also be a string accepted by the ms module.
      // serve files relative to path.
      root
      // inclusive, meaning start: 2 will include the 3rd byte in the
      // byte offset at which the stream starts, defaults to 0. The start is
      // included.
      start
    })
  }
})

```

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.

```

server.listen(3000)

})
.pipe(res)

```

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

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

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maxAge

Uses the file system's last modified value.

Enable or disable Last-Modified header, defaults to true.

root

Provide a max-age in milliseconds for http caching, defaults to

0. This can also be a string accepted by the ms module.

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.

```

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

If 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;).

To enable debug() instrumentation output export DEBUG:

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

Debugging

```
server.listen(3000)

}

.pipe(res)

send(red, '/path/to/index.html')

onrequest(red, res) {
  var server = http.createServer(function() {
    var send = require('send')
    var http = require('http')
  })
}

server.listen(3000)
```

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

Serve a specific file

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

foo.txt will send back /www/public/foo.txt.

This simple example will just serve up all the files in a given
directory as the top-level. For example, a request GET /
```

Serve all files from a directory

Running tests

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

Examples