

[Hummingbird](#) / FileMiddleware

## Structure

# FileMiddleware

Middleware for serving static files.

```
struct FileMiddleware<Context, Provider> where Context : Request
Context, Provider : FileProvider, Provider.FileAttributes : FileMiddleware
FileAttributes
```

## Overview

If router returns a 404 ie a route was not found then this middleware will treat the request path as a filename relative to a defined rootFolder (this defaults to “public”). It checks to see if a file exists there and if so the file contents are passed back in the response.

The file middleware supports both HEAD and GET methods and supports parsing of “if-modified-since”, “if-none-match”, “if-range” and “range” headers. It will output “content-length”, “modified-date”, “eTag”, “content-type”, “cache-control” and “content-range” headers where they are relevant.

## Topics

### Initializers

```
init(String, urlBasePath: String?, cacheControl: CacheControl,
searchForIndexHtml: Bool, threadPool: NIOThreadPool, logger: Logger)
```

## Create FileMiddleware

```
init(fileProvider: Provider, urlBasePath: String?, cacheControl: CacheControl, searchForIndexHtml: Bool)
```

Create FileMiddleware using custom FileProvider.

## Instance Methods

```
func handle(Request, context: Context, next: (Request, Context) async throws -> Response) async throws -> Response
```

Handle request

```
func withAdditionalMediaType(MediaType, mappedToFileExtension: String) -> FileMiddleware
```

```
func withAdditionalMediaType(MediaType, mappedToFileExtension: MediaType.FileExtension) -> FileMiddleware
```

```
func withAdditionalMediaTypes(forFileExtensions: [MediaType.FileExtension : MediaType]) -> FileMiddleware
```

```
func withAdditionalMediaTypes(forFileExtensions: [String : MediaType]) -> FileMiddleware
```

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## Relationships

### Conforms To

MiddlewareProtocol, RouterMiddleware, Swift.Sendable

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## See Also

### File management/middleware

## `struct FileIO`

Manages File reading and writing.

## `protocol FileProvider`

Protocol for file provider type used by [FileMiddleware](#)

## `protocol FileMiddlewareFileAttributes`

Protocol for all the file attributes required by [FileMiddleware](#)

## `struct LocalFileSystem`

Local file system file provider used by FileMiddleware. All file accesses are relative to a root folder

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