

## Apache Module `mod_imap`

<b>Description:</b>	Server-side imagemap processing
<b>Status:</b>	Base
<b>Module Identifier:</b>	<code>imap_module</code>
<b>Source File:</b>	<code>mod_imap.c</code>

### Summary

This module processes `.map` files, thereby replacing the functionality of the `imagemap` CGI program. Any directory or document type configured to use the handler `imap-file` (using either `AddHandler` or `SetHandler`) will be processed by this module.

The following directive will activate files ending with `.map` as `imagemap` files:

```
AddHandler imap-file map
```

Note that the following is still supported:

```
AddType application/x-httpd-imap map
```

However, we are trying to phase out "magic MIME types" so we are deprecating this method.

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## New Features

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The `imagemap` module adds some new features that were not possible with previously distributed `imagemap` programs.

- URL references relative to the `Referer`: information.
- Default `<base>` assignment through a new `map` directive `base`.
- No need for `imagemap.conf` file.
- Point references.
- Configurable generation of `imagemap` menus.

## Imagemap File

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The lines in the `imagemap` files can have one of several formats:

```
directive value [x,y ...]
directive value "Menu text" [x,y ...]
directive value x,y ... "Menu text"
```

The directive is one of `base`, `default`, `poly`, `circle`, `rect`, or `point`. The value is an absolute or relative URL, or one of the special values listed below. The coordinates are `x,y` pairs separated by whitespace. The quoted text is used as the text of the link if a imagemap menu is generated. Lines beginning with '#' are comments.

## Imagemap File Directives

There are six directives allowed in the imagemap file. The directives can come in any order, but are processed in the order they are found in the imagemap file.

### base Directive

Has the effect of `<base href="value">`. The non-absolute URLs of the map-file are taken relative to this value. The `base` directive overrides `ImapBase` as set in a `.htaccess` file or in the server configuration files. In the absence of an `ImapBase` configuration directive, `base` defaults to `http://server_name/`.

`base_uri` is synonymous with `base`. Note that a trailing slash on the URL is significant.

### default Directive

The action taken if the coordinates given do not fit any of the `poly`, `circle` or `rect` directives, and there are no `point` directives. Defaults to `nocontent` in the absence of an `ImapDefault` configuration setting, causing a status code of 204 No Content to be returned. The client should keep the same page displayed.

### poly Directive

Takes three to one-hundred points, and is obeyed if the user selected coordinates fall within the polygon defined by these points.

### circle

Takes the center coordinates of a circle and a point on the circle. Is obeyed if the user selected point is with the circle.

### rect Directive

Takes the coordinates of two opposing corners of a rectangle. Obeyed if the point selected is within this rectangle.

### point Directive

Takes a single point. The point directive closest to the user selected point is obeyed if no other directives are satisfied. Note that `default` will not be followed if a `point` directive is present and valid coordinates are given.

## Values

The values for each of the directives can any of the following:

### a URL

The URL can be relative or absolute URL. Relative URLs can contain `..` syntax and will be resolved relative to the `base` value.

`base` itself will not resolved according to the current value. A statement `base mailto:` will work properly, though.

### map

Equivalent to the URL of the imagemap file itself. No coordinates are sent with this, so a menu will be generated unless `ImapMenu` is set to `none`.

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**menu**

Synonymous with map.

**referer**

Equivalent to the URL of the referring document. Defaults to `http://servername/` if no `Referer:` header was present.

**nocontent**

Sends a status code of 204 No Content, telling the client to keep the same page displayed. Valid for all but base.

**error**

Fails with a 500 Server Error. Valid for all but base, but sort of silly for anything but default.

## Coordinates

`0,0 200,200`

A coordinate consists of an *x* and a *y* value separated by a comma. The coordinates are separated from each other by whitespace. To accommodate the way Lynx handles imagemaps, should a user select the coordinate `0,0`, it is as if no coordinate had been selected.

## Quoted Text

**"Menu Text"**

After the value or after the coordinates, the line optionally may contain text within double quotes. This string is used as the text for the link if a menu is generated:

```
<a href="http://foo.com/">Menu text</a>
```

If no quoted text is present, the name of the link will be used as the text:

```
<a href="http://foo.com/">http://foo.com</a>
```

If you want to use double quotes within this text, you have to write them as `&quot;`.

## Example Mapfile

---

```
#Comments are printed in a 'formatted' or 'semiformatted' menu.
#And can contain html tags. <hr>
base referer
poly map "Could I have a menu, please?" 0,0 0,10 10,10 10,0
rect .. 0,0 77,27 "the directory of the referer"
circle http://www.inetnebr.com/lincoln/feedback/ 195,0 305,27
rect another_file "in same directory as referer" 306,0 419,27
point http://www.zyzyva.com/ 100,100
point http://www.tripod.com/ 200,200
rect mailto:nate@tripod.com 100,150 200,0 "Bugs?"
```

## Referencing your mapfile

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**HTML example**

```
<a href="/maps/imagemap1.map">
  
```

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```
</a>
```

**XHTML example**

```
<a href="/maps/imagemap1.map">  
    
</a>
```

## ImapBase Directive

---

<b>Description:</b>	Default base for imagemap files
<b>Syntax:</b>	ImapBase map referer URL
<b>Default:</b>	ImapBase http://servername/
<b>Context:</b>	server config, virtual host, directory, .htaccess
<b>Override:</b>	Indexes
<b>Status:</b>	Base
<b>Module:</b>	mod_imap

The `ImapBase` directive sets the default base used in the imagemap files. Its value is overridden by a base directive within the imagemap file. If not present, the base defaults to `http://servername/`.

### See also

- [UseCanonicalName](#)

## ImapDefault Directive

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<b>Description:</b>	Default action when an imagemap is called with coordinates that are not explicitly mapped
<b>Syntax:</b>	ImapDefault error nocontent map referer URL
<b>Default:</b>	ImapDefault nocontent
<b>Context:</b>	server config, virtual host, directory, .htaccess
<b>Override:</b>	Indexes
<b>Status:</b>	Base
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The `ImapDefault` directive sets the default default used in the imagemap files. Its value is overridden by a default directive within the imagemap file. If not present, the default action is `nocontent`, which means that a 204 No Content is sent to the client. In this case, the client should continue to display the original page.

## ImapMenu Directive

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<b>Description:</b>	Action if no coordinates are given when calling an imagemap
<b>Syntax:</b>	ImapMenu none formatted semiformatted unformatted
<b>Context:</b>	server config, virtual host, directory, .htaccess
<b>Override:</b>	Indexes
<b>Status:</b>	Base

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The `ImapMenu` directive determines the action taken if an imagemap file is called without valid coordinates.

**none**

If `ImapMenu` is `none`, no menu is generated, and the `default` action is performed.

**formatted**

A `formatted` menu is the simplest menu. Comments in the imagemap file are ignored. A level one header is printed, then an hrule, then the links each on a separate line. The menu has a consistent, plain look close to that of a directory listing.

**semiformatted**

In the `semiformatted` menu, comments are printed where they occur in the imagemap file. Blank lines are turned into HTML breaks. No header or hrule is printed, but otherwise the menu is the same as a `formatted` menu.

**unformatted**

Comments are printed, blank lines are ignored. Nothing is printed that does not appear in the imagemap file. All breaks and headers must be included as comments in the imagemap file. This gives you the most flexibility over the appearance of your menus, but requires you to treat your map files as HTML instead of plaintext.