

### mod\_rewrite Tutorials

<http://httpd.apache.org/docs/current/rewrite/>

<http://www.addedbytes.com/for-beginners/url-rewriting-for-beginners/>

[http://net.tutsplus.com/tutorials/other/a-deeper-look-at-mod\\_rewrite-for-apache/](http://net.tutsplus.com/tutorials/other/a-deeper-look-at-mod_rewrite-for-apache/)

### mod\_rewrite RewriteRule Flags

|                 |                                                     |
|-----------------|-----------------------------------------------------|
| C               | Chained with next rule                              |
| CO=cookie       | Set specified cookie                                |
| E=var:val<br>e  | Set environmental variable "var" to "value"         |
| F               | Forbidden (403 header)                              |
| G               | Gone - no longer exists                             |
| H=handler       | Set handler                                         |
| L               | Last - stop processing rules                        |
| N               | Next - continue processing                          |
| NC              | Case insensitive                                    |
| NE              | Do not escape output                                |
| NS              | Ignore if subrequest                                |
| P               | Proxy                                               |
| PT              | Pass through                                        |
| R[=code]        | Redirect to new URL, with optional code (see below) |
| QSA             | Append query string                                 |
| S=x             | Skip next x rules                                   |
| T=mime-<br>type | Set mime type                                       |

### mod\_rewrite RewriteCond Flags

|    |                                                                   |
|----|-------------------------------------------------------------------|
| NC | Case insensitive                                                  |
| OR | Combine with next rule using 'OR' instead of the default of 'AND' |

### Redirection Header Codes

|     |                             |
|-----|-----------------------------|
| 301 | Moved permanently           |
| 302 | Moved temporarily (default) |

### mod\_rewrite Directives

|                 |             |
|-----------------|-------------|
| RewriteEngine   | RewriteMap  |
| RewriteOptions  | RewriteBase |
| RewriteLog      | RewriteCond |
| RewriteLogLevel | RewriteRule |
| RewriteLock     |             |

### Regular Expressions Syntax

|           |                        |
|-----------|------------------------|
| ^         | Start of string        |
| \$        | End of string          |
| .         | Any single character   |
| (a b)     | a or b                 |
| (...)     | Group section          |
| [abc]     | In range (a, b or c)   |
| [^abc]    | Not in range           |
| \s        | White space            |
| a?        | Zero or one of a       |
| a*        | Zero or more of a      |
| a*?       | Zero or more, ungreedy |
| a+        | One or more of a       |
| a+?       | One or more, ungreedy  |
| a{3}      | Exactly 3 of a         |
| a{3,}     | 3 or more of a         |
| a{,6}     | Up to 6 of a           |
| a{3,6}    | 3 to 6 of a            |
| a{3,6}?   | 3 to 6 of a, ungreedy  |
| \         | Escape character       |
| [:punct:] | Any punctuation symbol |
| [:space:] | Any space character    |
| [:blank:] | Space or tab           |

There's an excellent regular expression tester at: <http://regexpal.com/>

### mod\_rewrite Server Variables: HTTP Headers

|                          |
|--------------------------|
| %{HTTP_USER_AGENT}       |
| %{HTTP_REFERER}          |
| %{HTTP_COOKIE}           |
| %{HTTP_FORWARDED}        |
| %{HTTP_HOST}             |
| %{HTTP_PROXY_CONNECTION} |
| %{HTTP_ACCEPT}           |

### mod\_rewrite Server Variables: Server Internals

|                    |
|--------------------|
| %{DOCUMENT_ROOT}   |
| %{SERVER_ADMIN}    |
| %{SERVER_NAME}     |
| %{SERVER_ADDR}     |
| %{SERVER_PORT}     |
| %{SERVER_PROTOCOL} |
| %{SERVER_SOFTWARE} |

### mod\_rewrite Sample Rule: Site Moved

```
# Site moved permanently

RewriteCond %{HTTP_HOST}
^www.domain.com$ [NC]

RewriteRule ^(.*)$ http://www.domain2.com/$1
[R=301,L]

Rewrites domain.com to domain2.com
```

### mod\_rewrite Sample Rule: Temporary Page Move

```
# Page has moved temporarily

RewriteRule ^page.html$ new_page.html
[R,NC,L]

Rewrites domain.com/page.html to
domain.com/new_page.html
```



By **Dave Child** (DaveChild)  
[cheatography.com/davechild/](http://cheatography.com/davechild/)  
[www.getpostcookie.com](http://www.getpostcookie.com)

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### mod\_rewrite Sample Rule: Nice URLs

# Nice URLs (no query string)

```
RewriteRule ^([A-Za-z0-9-]+)/?$ categories.php?name=$1 [L]
```

Rewrites domain.com/category-name-1/ to  
domain.com/categories.php?name=category-name-1

### mod\_rewrite Server Variables: Special

%{API\_VERSION}

%{THE\_REQUEST}

%{REQUEST\_URI}

%{REQUEST\_FILENAME}

%{IS\_SUBREQ}

%{HTTPS}

### mod\_rewrite Server Variables: Request

%{REMOTE\_ADDR}

%{REMOTE\_HOST}

%{REMOTE\_PORT}

%{REMOTE\_USER}

%{REMOTE\_IDENT}

%{REQUEST\_METHOD}

%{SCRIPT\_FILENAME}

%{PATH\_INFO}

%{QUERY\_STRING}

%{AUTH\_TYPE}

### mod\_rewrite Server Variables: Time

%{TIME\_YEAR}

%{TIME\_MON}

%{TIME\_DAY}

%{TIME\_HOUR}

%{TIME\_MIN}

%{TIME\_SEC}

%{TIME\_WDAY}

%{TIME}



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