## 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/

## mod_rewrite RewriteRule Flags

| | |
|---|---|
| C | Chained with next rule |
| CO=cookie | Set specified cookie |
| E=var:value | 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-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

RewriteOptions

RewriteLog

RewriteLogLevel

RewriteLock

RewriteMap

RewriteBase

RewriteCond

RewriteRule

## 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

## 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}