



Regular Expressions Syntax

^	Start of string
\$	End of string
.	Any single character
(a b)	a or b
(...)	Group section
[abc]	Item in range (a, b or c)
[^abc]	Not in range (not a, b or c)
\s	White space
a?	Zero or one of a
a*	Zero or more of a
a*?	Zero or more of a, ungreedy
a+	One or more of a
a+?	One or more of a, ungreedy
a{3}	Exactly 3 of a
a{3,}	3 or more of a
a{3,6}	3 to 6 of a
a{3,6}?	3 to 6 of a, ungreedy
!(pattern)	"Not" prefix. Apply rule if pattern does not match.

Example: New domain

```
#domain.com to domain2.com
RewriteCond %{HTTP_HOST} ^www\.domain\.com$ [NC]
RewriteRule ^(.*)$ http://www.domain2.com/$1 [R=301,L]
```

Example: Page moved temporarily

```
# domain.com/page.htm to domain.com/new_page.htm
RewriteRule ^page.htm$ new_page.htm [R,NC,L]
```

Example: Nice looking URLs (no querystring)

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

Example: Block Referrer Spam (where referring URL contains "viagra" or "xxx")

```
RewriteCond %{HTTP_REFERER} (viagra) [NC,OR]
RewriteCond %{HTTP_REFERER} (xxx) [NC]
RewriteRule .* - [F]
```

RewriteRule Flags

R[=code]	Redirect to new URL, with optional code (see below).
F	Forbidden (sends 403 header)
G	Gone (no longer exists)
P	Proxy
L	Last Rule
N	Next (i.e. restart rules)
C	Chain
T=mime-type	Set Mime Type
NS	Skip if internal sub-request
NC	Case insensitive
QSA	Append query string
NE	Do not escape output
PT	Pass through
S=x	Skip next x rules
E=var:value	Set environmental variable "var" to "value".

Server Variables: HTTP Headers

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

Server Variables: Time

%{TIME_YEAR}
%{TIME_MON}
%{TIME_DAY}
%{TIME_HOUR}
%{TIME_MIN}
%{TIME_SEC}
%{TIME_WDAY}
%{TIME}

Server Variables: Request

%{REMOTE_ADDR}
%{REMOTE_HOST}
%{REMOTE_USER}
%{REMOTE_IDENT}
%{REQUEST_METHOD}
%{SCRIPT_FILENAME}
%{PATH_INFO}
%{QUERY_STRING}
%{AUTH_TYPE}

Server Variables: Special

%{API_VERSION}
%{THE_REQUEST}
%{REQUEST_URI}
%{REQUEST_FILENAME}
%{IS_SUBREQ}

RewriteCond Flags

NC	Case insensitive
OR	Combines rules with logical "or" instead of "and".

Server Variables: HTTP Headers

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

Directives

RewriteEngine
RewriteOptions
RewriteLog
RewriteLogLevel
RewriteLock
RewriteMap
RewriteBase
RewriteCond
RewriteRule

Redirection Header Codes

301	Moved permanently
302	Moved temporarily
403	Forbidden
404	Not Found
410	Gone

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