

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

Server Variables: HTTP Headers

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

Server Variables: Server Internals

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

Very Cool RegEx Explainer:

<http://rick.measham.id.au/paste/explain.pl?regex=%5Cd%2B%28.%5Cd%2B%29%3F%28%5Be%5D%5Cd%2B%29%3F>

Useful regular expression tester at: <http://regexpal.com/>

Sample Rule: Site Moved

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

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
```

Sample Rule: Nice URLs

```
# Nice URLs (no query string)
RewriteRule ^([A-Za-z0-9-]+)/?$ stuff.php?name=$1 [L]
Rewrites domain.com/category-name-1/ to domain.io/stuff.php?name=category-name-1
```

Server Variables: Special

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

Server Variables: Request

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

Server Variables: Time

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

mod_rewrite Cheat Sheet



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

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)

Directives

RewriteEngine	RewriteMap
RewriteOptions	RewriteBase
RewriteLog	RewriteCond
RewriteLogLevel	RewriteRule
RewriteLock	