### mod_rewrite Tutorials

- [http://httpd.apache.org/docs/current/rewrite/](http://httpd.apache.org/docs/current/rewrite/)

### Redirection Header Codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>301</td>
<td>Moved permanently</td>
</tr>
<tr>
<td>302</td>
<td>Moved temporarily (default)</td>
</tr>
</tbody>
</table>

### mod_rewrite RewriteRule Flags

<table>
<thead>
<tr>
<th>Flag</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>Chained with next rule</td>
</tr>
<tr>
<td>CO</td>
<td>Set specified cookie</td>
</tr>
<tr>
<td>E</td>
<td>Set environmental variable</td>
</tr>
<tr>
<td>F</td>
<td>Forbidden (403 header)</td>
</tr>
<tr>
<td>G</td>
<td>Gone - no longer exists</td>
</tr>
<tr>
<td>H</td>
<td>Set handler</td>
</tr>
<tr>
<td>L</td>
<td>Last - stop processing rules</td>
</tr>
<tr>
<td>N</td>
<td>Next - continue processing</td>
</tr>
<tr>
<td>NC</td>
<td>Case insensitive</td>
</tr>
<tr>
<td>NE</td>
<td>Do not escape output</td>
</tr>
<tr>
<td>NS</td>
<td>Ignore if subrequest</td>
</tr>
<tr>
<td>P</td>
<td>Proxy</td>
</tr>
<tr>
<td>PT</td>
<td>Pass through</td>
</tr>
<tr>
<td>R</td>
<td>Redirect to new URL, with optional code (see below)</td>
</tr>
<tr>
<td>QA</td>
<td>Append query string</td>
</tr>
<tr>
<td>S=x</td>
<td>Skip next x rules</td>
</tr>
<tr>
<td>T</td>
<td>Set mime type</td>
</tr>
</tbody>
</table>

### mod_rewrite RewriteCond Flags

<table>
<thead>
<tr>
<th>Flag</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NC</td>
<td>Case insensitive</td>
</tr>
<tr>
<td>OR</td>
<td>Combine with next rule using ‘OR’ instead of the default of ‘AND’</td>
</tr>
</tbody>
</table>

### Regular Expressions Syntax

- `^`: Start of string
- `$`: End of string
- `.`: Any single character
- `(a|b)`: a or b
- `(abc)`: Group section
- `[abc]`: In range (a, b or c)
- `[^abc]`: Not in range
- `
`: White space
- `a?`: Zero or one of a
- `a*`: Zero or more of a
- `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

### mod_rewrite Server Variables: HTTP Headers

- ` %{HTTP_USER_AGENT}`
- ` %{HTTP_REFERER}`
- ` %{HTTP_COOKIE}`
- ` %{HTTP_HOST}`
- ` %{HTTP_FORWARDED}`
- ` %{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$ http://www.domain2.com/new_page.html [R=301,L]
```

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

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By Dave Child (DaveChild) cheatography.com/davechild/aloneonahill

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Page 1 of 2.
**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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Page 2 of 2.

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