

#add handler that allows html, xml, and json to work dynamically as PHP

#https://httpd.apache.org/docs/current/mod/mod_mime.html#addtype

#https://httpd.apache.org/docs/current/mod/mod_mime.html#addhandler

#AddType application/x-httpd-php .html .xml .json

AddHandler php5-script .html .xml .json

#serve all resources labeled as 'text/html' or 'text/plain' with the media type 'charset' parameter set to UTF-8'

#<https://httpd.apache.org/docs/current/mod/core.html>#adddefaultcharset

AddDefaultCharset utf-8

#serve correct media type (MIME type) for resources

#https://httpd.apache.org/docs/current/mod/mod_mime.html#addtype

AddType application/atom+xml .atom

AddType application/json .json

AddType application/ld+json .jsonld

AddType application/oebps-package+xml .opf

AddType application/rss+xml .rss

AddType application/xml .rdf .xml

AddType application/vnd.ms-fontobject .eot

AddType application/x-font-ttf .ttc .ttf

AddType font/ttf .ttf

AddType font/opentype .otf

AddType font/otf .otf

AddType application/font-woff .woff

AddType font/x-woff .woff

AddType application/font-woff2 .woff2

AddType image/svg+xml .svg

#set custom error page for Apache to return

#<https://httpd.apache.org/docs/current/mod/core.html>#errordocument

ErrorDocument 404 /book/opsis/404.html

#compress html, css, javascript, font, and miscellaneous resources

#https://httpd.apache.org/docs/current/mod/mod_deflate.html

<IfModule mod_deflate.c>

AddOutputFilterByType DEFLATE "text/css" "text/html" "text/javascript" "text/plain"

"text/xml" "application/x-javascript" "application/javascript" "application/json"

"application/ld+json" "application/rdf+xml" "application/rss+xml" "application/x-font-

woff" "application/x-font-ttf" "application/vnd.ms-fontobject" "font/eot" "font/opentype"

"font/otf" "font/otf" "font/otf" "font/otf" "font/otf" "font/otf" "font/otf"

```
font/otf font/ttf font/x-woff image/bmp image/jpeg image/svg+xml
```

```
"image/vnd.microsoft.icon" "image/x-icon"
```

```
</IfModule>
```

```
#remove `ETags` as resources are sent with far-future expires headers
```

```
#https://developer.yahoo.com/performance/rules.html#etags
```

```
#https://tools.ietf.org/html/rfc7232#section-2.3
```

```
#`FileETag None` doesn't work in all cases.
```

```
<IfModule mod_headers.c>
```

```
Header unset ETag
```

```
</IfModule>
```

```
FileETag None
```

```
#set expires headers to improve caching
```

```
#https://httpd.apache.org/docs/current/mod/mod_expires.html
```

```
<IfModule mod_headers.c>
```

```
ExpiresActive on
```

```
ExpiresDefault "access plus 1 month"
```

```
#CSS
```

```
ExpiresByType text/css "access plus 1 year"
```

```
#Data interchange
```

```
ExpiresByType application/atom+xml "access plus 1 hour"
```

```
ExpiresByType application/rdf+xml "access plus 1 hour"
```

```
ExpiresByType application/rss+xml "access plus 1 hour"
```

```
ExpiresByType application/json "access plus 0 seconds"
```

```
ExpiresByType application/ld+json "access plus 0 seconds"
```

```
#Favicon (cannot be renamed!) and cursor images
```

```
ExpiresByType image/vnd.microsoft.icon "access plus 1 week"
```

```
ExpiresByType image/x-icon "access plus 1 week"
```

```
#HTML
```

```
ExpiresByType text/html "access plus 0 seconds"
```

```
#JavaScript
```

```
ExpiresByType application/javascript "access plus 1 year"
```

```
ExpiresByType application/x-javascript "access plus 1 year"
```

```
ExpiresByType text/javascript "access plus 1 year"
```

#Media files

```
ExpiresByType audio/ogg "access plus 1 month"  
ExpiresByType image/bmp "access plus 1 month"  
ExpiresByType image/gif "access plus 1 month"  
ExpiresByType image/jpeg "access plus 1 month"  
ExpiresByType image/png "access plus 1 month"  
ExpiresByType image/svg+xml "access plus 1 month"  
ExpiresByType image/webp "access plus 1 month"  
ExpiresByType video/mp4 "access plus 1 month"  
ExpiresByType video/ogg "access plus 1 month"  
ExpiresByType video/webm "access plus 1 month"
```

#Web Fonts

#Embedded OpenType (EOT)

```
ExpiresByType application/vnd.ms-fontobject "access plus 1 month"  
ExpiresByType font/eot "access plus 1 month"
```

#OpenType

```
ExpiresByType font/opentype "access plus 1 month"
```

#TrueType

```
ExpiresByType application/x-font-ttf "access plus 1 month"
```

#Web Open Font Format (WOFF) 1.0

```
ExpiresByType application/font-woff "access plus 1 month"  
ExpiresByType application/x-font-woff "access plus 1 month"  
ExpiresByType font/woff "access plus 1 month"
```

#Web Open Font Format (WOFF) 2.0

```
ExpiresByType application/font-woff2 "access plus 1 month"
```

</IfModule>

#rewrite rules for URLs and directory patterns

```
#https://httpd.apache.org/docs/current/mod/mod_rewrite.html#RewriteEngine  
#https://httpd.apache.org/docs/current/mod/core.html#options  
#https://httpd.apache.org/docs/current/mod/mod_rewrite.html#rewritebase  
#https://httpd.apache.org/docs/current/mod/mod_rewrite.html#rewriteoptions
```

<IfModule mod_rewrite.c>

```
#Options +FollowSymLinks  
#Options +SymLinksIfOwnerMatch
```

RewriteEngine On

#check for 200 header, legitimate url

RewriteCond %{ENV:REDIRECT_STATUS} 200

RewriteRule .* - [L]

*#change arc.lib.montana.edu/statistics-with-r-textbook/item.html?id=5 to
arc.lib.montana.edu/statistics-with-r-textbook/item/5*

RewriteBase /book/statistics-with-r-textbook/

RewriteRule item/([-_a-zA-Z0-9]+) item.html?id=\$1 [L,QSA]

#remove need to have .html extension in filename

RewriteCond %{REQUEST_FILENAME}.html -f

RewriteRule ^(.*)\$ \$1.html [L,QSA]

</IfModule>

#redirect from the `http://` to the `https://` version of the URL.

#https://wiki.apache.org/httpd/RewriteHTTPToHTTPS

#<IfModule mod_rewrite.c>

RewriteEngine On

RewriteCond %{HTTPS} !=on

RewriteRule ^(.)\$ https://%{HTTP_HOST}/\$1 [R=301,L]*

#</IfModule>