

Apache Configuration File

(!) Using `.htaccess` files slows down Apache, therefore, if you have access to the main server config file (usually called `httpd.conf`), you should add this logic there: <http://httpd.apache.org/docs/current/howto/htaccess.html>.

```
# #####  
# # CROSS-ORIGIN RESOURCE SHARING (CORS) #  
# #####
```

```
# -----  
# | Cross-domain AJAX requests |  
# -----
```

Enable cross-origin AJAX requests.
<http://code.google.com/p/html5security/wiki/CrossOriginRequestSecurity>
<http://enable-cors.org/>

```
<IfModule mod_headers.c>  
    Header set Access-Control-Allow-Origin "*"   
    Header always set Access-Control-Allow-Methods "POST, GET, PUT, DELETE, OPTIONS"  
    Header always set Access-Control-Allow-Headers "X-Requested-With, content-type"  
</IfModule>
```

```
# -----  
# | CORS-enabled images |  
# -----
```

Send the CORS header for images when browsers request it.
https://developer.mozilla.org/en/CORS_Enabled_Image
<http://blog.chromium.org/2011/07/using-cross-domain-images-in-webgl-and.html>
<http://hacks.mozilla.org/2011/11/using-cors-to-load-webgl-textures-from-cross-domain-images/>

```
<IfModule mod_setenvif.c>  
    <IfModule mod_headers.c>  
        <FilesMatch "\.(gif|ico|jpe?g|png|svg|svgz|webp)$">  
            SetEnvIf Origin ":" IS_CORS  
            Header set Access-Control-Allow-Origin "*" env=IS_CORS  
        </FilesMatch>  
    </IfModule>
```

</IfModule>

```
</ITModule>

# -----
# | Web fonts access |
# -----

# Allow access from all domains for web fonts

<IfModule mod_headers.c>
    <FilesMatch "\.(eot|font\.css|otf|ttf|woff)$">
        Header set Access-Control-Allow-Origin "*"
    </FilesMatch>
</IfModule>

# #####
# # ERRORS #
# #####

# -----
# | 404 error prevention for non-existing redirected folders |
# -----

# Prevent Apache from returning a 404 error for a rewrite if a directory
# with the same name does not exist.
# http://httpd.apache.org/docs/current/content-negotiation.html#multiviews
# http://www.webmasterworld.com/apache/3808792.htm

Options -MultiViews

# -----
# | Custom error messages / pages |
# -----

# You can customize what Apache returns to the client in case of an error (see
# http://httpd.apache.org/docs/current/mod/core.html#errordocument), e.g.:
```

ErrorDocument 404 /404.html

```
# #####
# # INTERNET EXPLORER #
# #####
```

```

# -----
# | Better website experience |
# -----

# Force IE to render pages in the highest available mode in the various
# cases when it may not: http://hsivonen.iki.fi/doctype/ie-mode.pdf.

<IfModule mod_headers.c>
    Header set X-UA-Compatible "IE=edge"
    # `mod_headers` can't match based on the content-type, however, we only
    # want to send this header for HTML pages and not for the other resources
    <FilesMatch "\.(appcache|crx|css|eot|gif|html|ico|jpe?
gl|jsl|m4a|m4v|manifest|mp4|ogg|ogv|otf|pdf|png|safariextz|svg|svgz|tiff|vcl|webapp|wet
    Header unset X-UA-Compatible
    </FilesMatch>
</IfModule>

# -----
# | Cookie setting from iframes |
# -----

# Allow cookies to be set from iframes in IE.

# <IfModule mod_headers.c>
#   Header set P3P "policyref=\"/w3c/p3p.xml\", CP=\"IDC DSP COR ADM DEVI TAIi PSA PSD IVAi
CNTV\""
# </IfModule>

# -----
# | Screen flicker |
# -----

# Stop screen flicker in IE on CSS rollovers (this only works in
# combination with the `ExpiresByType` directives for images from below).

# BrowserMatch "MSIE" brokenvary=1
# BrowserMatch "Mozilla/4.[0-9]{2}" brokenvary=1
# BrowserMatch "Opera" !brokenvary
# SetEnvIf brokenvary 1 force-no-vary

```

```

# #####
# # MIME TYPES AND ENCODING #
# #####

# -----
# | Proper MIME types for all files |
# -----

<IfModule mod_mime.c>

# Audio
AddType audio/mp4 m4a f4a f4b
AddType audio/ogg oga ogg

# JavaScript
# Normalize to standard type (it's sniffed in IE anyways):
# http://tools.ietf.org/html/rfc4329#section-7.2
AddType application/javascript js jsonp
AddType application/json json

# Video
AddType video/mp4 mp4 m4v f4v f4p
AddType video/ogg ogv
AddType video/webm webm
AddType video/x-flv flv

# Web fonts
AddType application/font-woff woff
AddType application/vnd.ms-fontobject eot

# Browsers usually ignore the font MIME types and sniff the content,
# however, Chrome shows a warning if other MIME types are used for the
# following fonts.
AddType application/x-font-ttf ttc ttf
AddType font/opentype otf

# Make SVGZ fonts work on iPad:
# https://twitter.com/FontSquirrel/status/14855840545
AddType image/svg+xml svg svgz
AddEncoding gzip svgz

```

Other

```
AddType application/octet-stream          safariextz
AddType application/x-chrome-extension     crx
AddType application/x-opera-extension      oex
AddType application/x-shockwave-flash     swf
AddType application/x-web-app-manifest+json webapp
AddType application/x-xpinstall           xpi
AddType application/xml                   atom rdf rss xml
AddType image/webp                        webp
AddType image/x-icon                      ico
AddType text/cache-manifest               appcache manifest
AddType text/vtt                          vtt
AddType text/x-component                  htc
AddType text/x-vcard                      vcf
```

</IfModule>

```
# -----
# | UTF-8 encoding |
# -----
```

Use UTF-8 encoding for anything served as `text/html` or `text/plain`.

```
AddDefaultCharset utf-8
```

Force UTF-8 for certain file formats.

<IfModule mod_mime.c>

```
AddCharset utf-8 .atom .css .js .json .rss .vtt .webapp .xml
```

</IfModule>

```
# #####
# # URL REWRITES #
# #####
```

```
# -----
# | Rewrite engine |
# -----
```

*# Turning on the rewrite engine and enabling the `FollowSymLinks` option is
necessary for the following directives to work.*

If your web host doesn't allow the `FollowSymLinks` option, you may need to

```

# comment it out and use `Options +SymLinksIfOwnerMatch` but, be aware of the
# performance impact: http://httpd.apache.org/docs/current/misc/perf-tuning.html#symlinks

# Also, some cloud hosting services require `RewriteBase` to be set:
# http://www.rackspace.com/knowledge_center/frequently-asked-question/why-is-mod-rewrite-no:

<IfModule mod_rewrite.c>
    Options +FollowSymlinks
    # Options +SymLinksIfOwnerMatch
    RewriteEngine On
    # RewriteBase /
</IfModule>

# -----
# | Suppressing / Forcing the "www." at the beginning of URLs |
# -----

# The same content should never be available under two different URLs especially
# not with and without "www." at the beginning. This can cause SEO problems
# (duplicate content), therefore, you should choose one of the alternatives and
# redirect the other one.

# By default option 1 (no "www.") is activated:
# http://no-www.org/faq.php?q=class_b

# If you'd prefer to use option 2, just comment out all the lines from option 1
# and uncomment the ones from option 2.

# IMPORTANT: NEVER USE BOTH RULES AT THE SAME TIME!

# -----

# Option 1: rewrite www.example.com → example.com

<IfModule mod_rewrite.c>
    RewriteCond %{HTTPS} !=on
    RewriteCond %{HTTP_HOST} ^www\.(.+$) [NC]
    RewriteRule ^ http://%1%{REQUEST_URI} [R=301,L]
</IfModule>

# -----

```

```
# Option 2: rewrite example.com → www.example.com
```

```
# Be aware that the following might not be a good idea if you use "real"  
# subdomains for certain parts of your website.
```

```
# <IfModule mod_rewrite.c>  
#     RewriteCond %{HTTPS} !=on  
#     RewriteCond %{HTTP_HOST} !^www\. .+$ [NC]  
#     RewriteRule ^ http://www.%{HTTP_HOST}%{REQUEST_URI} [R=301,L]  
# </IfModule>
```

```
# #####  
# # SECURITY #  
# #####
```

```
# -----  
# | Content Security Policy (CSP) |  
# -----
```

```
# You can mitigate the risk of cross-site scripting and other content-injection  
# attacks by setting a Content Security Policy which whitelists trusted sources  
# of content for your site.
```

```
# The example header below allows ONLY scripts that are loaded from the current  
# site's origin (no inline scripts, no CDN, etc). This almost certainly won't  
# work as-is for your site!
```

```
# To get all the details you'll need to craft a reasonable policy for your site,  
# read: http://html5rocks.com/en/tutorials/security/content-security-policy (or  
# see the specification: http://w3.org/TR/CSP).
```

```
# <IfModule mod_headers.c>  
#     Header set Content-Security-Policy "script-src 'self'; object-src 'self'"  
#     <FilesMatch "\.(appcache|crx|css|eot|gif|html|ico|jpe?  
#     gl|js|m4a|m4v|manifest|mp4|oex|ogal|ogg|ogv|otf|pdf|png|safariextz|svg|svgz|tfl|vcf|webapp|we  
#         Header unset Content-Security-Policy  
#     </FilesMatch>  
# </IfModule>
```

```
# -----
```

```

# / File access /
# -----

# Block access to directories without a default document.
# Usually you should leave this uncommented because you shouldn't allow anyone
# to surf through every directory on your server (which may includes rather
# private places like the CMS's directories).

<IfModule mod_autoindex.c>
    Options -Indexes
</IfModule>

# -----

# Block access to hidden files and directories.
# This includes directories used by version control systems such as Git and SVN.

<IfModule mod_rewrite.c>
    RewriteCond %{SCRIPT_FILENAME} -d [OR]
    RewriteCond %{SCRIPT_FILENAME} -f
    RewriteRule "(^/)\." - [F]
</IfModule>

# -----

# Block access to backup and source files.
# These files may be left by some text editors and can pose a great security
# danger when anyone has access to them.

<FilesMatch "(^#.#|\. (bak| config| dist| fl| incl| ini| log| psd| sh| sql| sw[op])| (^)$">
    Order allow,deny
    Deny from all
    Satisfy All
</FilesMatch>

# -----
# / Secure Sockets Layer (SSL) /
# -----

# Rewrite secure requests properly to prevent SSL certificate warnings, e.g.:
# prevent `https://www.example.com` when your certificate only allows

```



```
-----
# `https://secure.example.com`.

# <IfModule mod_rewrite.c>
#   RewriteCond %{SERVER_PORT} !^443
#   RewriteRule ^ https://example-domain-please-change-me.com%{REQUEST_URI} [R=301,L]
# </IfModule>

# -----

# Force client-side SSL redirection.

# If a user types "example.com" in his browser, the above rule will redirect him
# to the secure version of the site. That still leaves a window of opportunity
# (the initial HTTP connection) for an attacker to downgrade or redirect the
# request. The following header ensures that browser will ONLY connect to your
# server via HTTPS, regardless of what the users type in the address bar.
# http://www.html5rocks.com/en/tutorials/security/transport-layer-security/

# <IfModule mod_headers.c>
#   Header set Strict-Transport-Security max-age=16070400;
# </IfModule>

# -----
# | Server software information |
# -----

# Avoid displaying the exact Apache version number, the description of the
# generic OS-type and the information about Apache's compiled-in modules.

# ADD THIS DIRECTIVE IN THE `httpd.conf` AS IT WILL NOT WORK IN THE `.htaccess`!

# ServerTokens Prod

# #####
# # WEB PERFORMANCE #
# #####

# -----
# | Compression |
# -----
```

```

<IfModule mod_deflate.c>

    # Force compression for mangled headers.
    # http://developer.yahoo.com/blogs/ymn/posts/2010/12/pushing-beyond-gzipping
    <IfModule mod_setenvif.c>
        <IfModule mod_headers.c>
            SetEnvIfNoCase ^(\Accept-Encoding|X-cept-Encoding|X(15)|^(15)|-(15))$ ^((gzip|def
(4,13))$ HAVE_Accept-Encoding
            RequestHeader append Accept-Encoding "gzip, deflate" env=HAVE_Accept-Encoding
        </IfModule>
    </IfModule>

    # Compress all output labeled with one of the following MIME-types
    # (for Apache versions below 2.3.7, you don't need to enable `mod_filter`
    # and can remove the `<IfModule mod_filter.c>` and `</IfModule>` lines
    # as `AddOutputFilterByType` is still in the core directives).
    <IfModule mod_filter.c>
        AddOutputFilterByType DEFLATE application/atom+xml \
            application/javascript \
            application/json \
            application/rss+xml \
            application/vnd.ms-fontobject \
            application/x-font-ttf \
            application/x-web-app-manifest+json \
            application/xhtml+xml \
            application/xml \
            font/opentype \
            image/svg+xml \
            image/x-icon \
            text/css \
            text/html \
            text/plain \
            text/x-component \
            text/xml

    </IfModule>

</IfModule>

# -----
# | Content transformations |
#

```

```

# -----

# Prevent some of the mobile network providers from modifying the content of
# your site: http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.9.5.

# <IfModule mod_headers.c>
#   Header set Cache-Control "no-transform"
# </IfModule>

# -----
# | ETag removal |
# -----

# Since we're sending far-future expires headers (see below), ETags can
# be removed: http://developer.yahoo.com/performance/rules.html#etags.

# `FileETag None` is not enough for every server.
<IfModule mod_headers.c>
    Header unset ETag
</IfModule>

FileETag None

# -----
# | Expires headers (for better cache control) |
# -----

# The following expires headers are set pretty far in the future. If you don't
# control versioning with filename-based cache busting, consider lowering the
# cache time for resources like CSS and JS to something like 1 week.

<IfModule mod_expires.c>

    ExpiresActive on
    ExpiresDefault "access plus 1 month"

# CSS
    ExpiresByType text/css "access plus 1 year"

# Data interchange
    ExpiresByType application/json "access plus 0 seconds"
    ExpiresByType application/javascript "access plus 0 seconds"

```

```

ExpiresByType application/xml "access plus 0 seconds"
ExpiresByType text/xml "access plus 0 seconds"

# Favicon (cannot be renamed!)
ExpiresByType image/x-icon "access plus 1 week"

# HTML components (HTCs)
ExpiresByType text/x-component "access plus 1 month"

# HTML
ExpiresByType text/html "access plus 0 seconds"

# JavaScript
ExpiresByType application/javascript "access plus 1 year"

# Manifest files
ExpiresByType application/x-web-app-manifest+json "access plus 0 seconds"
ExpiresByType text/cache-manifest "access plus 0 seconds"

# Media
ExpiresByType audio/ogg "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 video/mp4 "access plus 1 month"
ExpiresByType video/ogg "access plus 1 month"
ExpiresByType video/webm "access plus 1 month"

# Web feeds
ExpiresByType application/atom+xml "access plus 1 hour"
ExpiresByType application/rss+xml "access plus 1 hour"

# Web fonts
ExpiresByType application/font-woff "access plus 1 month"
ExpiresByType application/vnd.ms-fontobject "access plus 1 month"
ExpiresByType application/x-font-ttf "access plus 1 month"
ExpiresByType font/opentype "access plus 1 month"
ExpiresByType image/svg+xml "access plus 1 month"

```

</IfModule>

```

# -----
# | Filename-based cache busting |
# -----

# If you're not using a build process to manage your filename version rewving,
# you might want to consider enabling the following directives to route all
# requests such as "/css/style.12345.css" to "/css/style.css".

# To understand why this is important and a better idea than *.css?v231, read:
# http://stevesouders.com/blog/2008/08/23/rewving-filenames-dont-use-querystring

# <IfModule mod_rewrite.c>
#   RewriteCond %{REQUEST_FILENAME} !-f
#   RewriteCond %{REQUEST_FILENAME} !-d
#   RewriteRule ^(.+)\.(\d+)\. (js|css|png|jpg|gif)$ $1.$3 [L]
# </IfModule>

# -----
# | File concatenation |
# -----

# Allow concatenation from within specific CSS and JS files, e.g.:
# Inside of script.combined.js you could have
# <!--#include file="libs/jquery.js" -->
# <!--#include file="plugins/jquery.idletimer.js" -->
# and they would be included into this single file.

# <IfModule mod_include.c>
#   <FilesMatch "\.combined\.js$" >
#     Options +Includes
#     AddOutputFilterByType INCLUDES application/javascript application/json
#     SetOutputFilter INCLUDES
#   </FilesMatch>
#   <FilesMatch "\.combined\.css$" >
#     Options +Includes
#     AddOutputFilterByType INCLUDES text/css
#     SetOutputFilter INCLUDES
#   </FilesMatch>
# </IfModule>

# -----

```

| Persistent connections

|

-----

*# Allow multiple requests to be sent over the same TCP connection;
<http://httpd.apache.org/docs/current/en/mod/core.html#keepalive>.*

*# Enable if you serve a lot of static content but, be aware of the
possible disadvantages!*

*# <IfModule mod_headers.c>
Header set Connection Keep-Alive
</IfModule>*