

```

# Apache Server Configs v2.14.0 | MIT License
# https://github.com/h5bp/server-configs-apache

# #####
# # CROSS-ORIGIN #
# #####

# -----
# | Cross-origin images |
# -----

# Send the CORS header for images when browsers request it.
#
# https://developer.mozilla.org/en-US/docs/Web/HTML/CORS_enabled_image
# https://blog.chromium.org/2011/07/using-cross-domain-images-in-webgl-and.html

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

# -----
# | Cross-origin web fonts |
# -----

# Allow cross-origin access to web fonts.

<IfModule mod_headers.c>
  <FilesMatch "\.(eot|otf|tt[cf]|woff2?)$">
    Header set Access-Control-Allow-Origin "*"
  </FilesMatch>
</IfModule>

# -----
# | Cross-origin resource timing |
# -----

```

```
# Allow cross-origin access to the timing information for all resources.
#
# If a resource isn't served with a `Timing-Allow-Origin` header that
# would allow its timing information to be shared with the document,
# some of the attributes of the `PerformanceResourceTiming` object will
# be set to zero.
#
# http://www.w3.org/TR/resource-timing/
# http://www.stevesouders.com/blog/2014/08/21/resource-timing-practical-tips/
```

```
<IfModule mod_headers.c>
    Header set Timing-Allow-Origin: "*"
</IfModule>
```

```
# #####
# # ERRORS #
# #####
```

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

```
# Customize what Apache returns to the client in case of an error.
# https://httpd.apache.org/docs/current/mod/core.html#errordocument
```

```
ErrorDocument 404 /404.html
```

```
# -----
# | Error prevention |
# -----
```

```
# Disable the pattern matching based on filenames.
#
# This setting prevents Apache from returning a 404 error as the result
# of a rewrite when the directory with the same name does not exist.
#
# https://httpd.apache.org/docs/current/content-negotiation.html#multiviews
```

```
Options -MultiViews
```

```
.....
```

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

# -----
# | Document modes |
# -----

# Force Internet Explorer 8/9/10 to render pages in the highest mode
# available in the various cases when it may not.
#
# https://hsivonen.fi/doctype/#ie8
#
# (!) Starting with Internet Explorer 11, document modes are deprecated.
# If your business still relies on older web apps and services that were
# designed for older versions of Internet Explorer, you might want to
# consider enabling `Enterprise Mode` throughout your company.
#
# https://msdn.microsoft.com/en-us/library/ie/bg182625.aspx#docmode
# http://blogs.msdn.com/b/ie/archive/2014/04/02/stay-up-to-date-with-enterprise-mode-for-
internet-explorer-11.aspx
```

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

```
Header set X-UA-Compatible "IE=edge"
```

```
# `mod_headers` cannot match based on the content-type, however,
# the `X-UA-Compatible` response header should be send only for
# HTML documents and not for the other resources.
```

```
<FilesMatch "\.
```

```
(appcache|atom|bbaw|bmp|crx|css|curl|eot|f4[abpv]|flv|geojson|gif|htc|ico|jpe?
|js|json(1d)?
|m4[av]|manifest|map|mp4|oga|ogv|opus|otf|pdf|png|rdf|rss|safariextz|svgz?
|swf|topojson|ttf|txt|vcard|vcf|vtt|webapp|web[mp]|webmanifest|woff2?|xloc|xsl|xpi)$">
```

```
Header unset X-UA-Compatible
```

```
</FilesMatch>
```

```
</IfModule>
```

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

```

# I Iframes cookies
# -----

# Allow cookies to be set from iframes in Internet Explorer.
#
# https://msdn.microsoft.com/en-us/library/ms537343.aspx
# http://www.w3.org/TR/2000/CR-P3P-20001215/

<IfModule mod_headers.c>
    Header set P3P "policyref=\"/w3c/p3p.xml\", CP=\"IDC DSP COR ADM DEVI TAIi PSA PSD
IVAI IVDi CONi HIS OUR IND CNT\""
</IfModule>

# #####
# # MEDIA TYPES AND CHARACTER ENCODINGS
# #####

# -----
# I Media types
# -----

# Serve resources with the proper media types (f.k.a. MIME types).
#
# https://www.iana.org/assignments/media-types/media-types.xhtml
# https://httpd.apache.org/docs/current/mod/mod_mime.html#addtype

<IfModule mod_mime.c>

    # Data interchange

    AddType application/atom+xml          atom
    AddType application/json              json map topojson
    AddType application/ld+json           jsonld
    AddType application/rss+xml           rss
    AddType application/vnd.geo+json      geojson
    AddType application/xml               rdf xml

    # JavaScript

    # Normalize to standard type.
    # https://tools.ietf.org/html/rfc4329#section-7.2

```

```
AddType application/javascript js
```

### *# Manifest files*

```
AddType application/manifest+json webmanifest
```

```
AddType application/x-web-app-manifest+json webapp
```

```
AddType text/cache-manifest appcache
```

### *# Media files*

```
AddType audio/mp4 f4a f4b m4a
```

```
AddType audio/ogg oga ogg opus
```

```
AddType image/bmp bmp
```

```
AddType image/svg+xml svg svgz
```

```
AddType image/webp webp
```

```
AddType video/mp4 f4v f4p m4v mp4
```

```
AddType video/ogg ogv
```

```
AddType video/webm webm
```

```
AddType video/x-flv flv
```

```
# Serving `.ico` image files with a different media type
```

```
# prevents Internet Explorer from displaying them as images:
```

```
# https://github.com/h5bp/html5-
```

```
boilerplate/commit/37b5fec090d00f38de64b591bcddcb205aadf8ee
```

```
AddType image/x-icon cur ico
```

### *# Web fonts*

```
AddType application/font-woff woff
```

```
AddType application/font-woff2 woff2
```

```
AddType application/vnd.ms-fontobject eot
```

```
# Browsers usually ignore the font media types and simply sniff
```

```
# the bytes to figure out the font type.
```

```
# https://mimesniff.spec.whatwg.org/#matching-a-font-type-pattern
```

```
#
```

```
# However, Blink and WebKit based browsers will show a warning
```

```
# in the console if the following font types are served with any
```

```
# other media types.
```

```
AddType application/x-font-ttf      ttc ttf
AddType font/opentype                otf
```

*# Other*

```
AddType application/octet-stream    safariextz
AddType application/x-bb-appworld    bbaw
AddType application/x-chrome-extension crx
AddType application/x-opera-extension oex
AddType application/x-xpinstall      xpi
AddType text/vcard                   vcard vcf
AddType text/vnd.rim.location.xloc   xloc
AddType text/vtt                      vtt
AddType text/x-component              htc
```

</IfModule>

```
# -----
# | Character encodings |
# -----
```

```
# 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 the following file types with the media type `charset`
# parameter set to `UTF-8`.
#
# https://httpd.apache.org/docs/current/mod/mod_mime.html#addcharset
```

<IfModule mod\_mime.c>

```
AddCharset utf-8 .atom \
              .bbaw \
              .css \
              .geojson \
```

```
.js \  
.json \  
.jsonld \  
.manifest \  
.rdf \  
.rss \  
.topojson \  
.vtt \  
.webapp \  
.webmanifest \  
.xloc \  
.xml
```

```
</IfModule>
```

```
# #####  
# # REWRITES #  
# #####  
  
# -----  
# | Rewrite engine |  
# -----  
  
# (1) Turn on the rewrite engine (this is necessary in order for  
# the `RewriteRule` directives to work).  
#  
# https://httpd.apache.org/docs/current/mod/mod\_rewrite.html#RewriteEngine  
#  
# (2) Enable the `FollowSymLinks` option if it isn't already.  
#  
# https://httpd.apache.org/docs/current/mod/core.html#options  
#  
# (3) If your web host doesn't allow the `FollowSymLinks` option,  
# you need to comment it out or remove it, and then uncomment  
# the `Options +SymLinksIfOwnerMatch` line (4), but be aware  
# of the performance impact.  
#  
# https://httpd.apache.org/docs/current/misc/perf-tuning.html#symlinks  
#  
# (4) Some cloud hosting services will require you set `RewriteBase`.  
#  
# 
```

## *modrewrite-not-working-on-my-site*

```
# https://httpd.apache.org/docs/current/mod/mod\_rewrite.html#rewritebase
#
# (5) Depending on how your server is set up, you may also need to
# use the `RewriteOptions` directive to enable some options for
# the rewrite engine.
#
# https://httpd.apache.org/docs/current/mod/mod\_rewrite.html#rewriteoptions
#
# (6) Set %{ENV:PROTO} variable, to allow rewrites to redirect with the
# appropriate schema automatically (http or https).
```

```
<IfModule mod_rewrite.c>
```

```
    # (1)
```

```
    RewriteEngine On
```

```
    # (2)
```

```
    Options +FollowSymlinks
```

```
    # (3)
```

```
    # Options +SymLinksIfOwnerMatch
```

```
    # (4)
```

```
    # RewriteBase /
```

```
    # (5)
```

```
    # RewriteOptions <options>
```

```
    # (6)
```

```
    RewriteCond %{HTTPS} =on
```

```
    RewriteRule ^ - [env=proto:https]
```

```
    RewriteCond %{HTTPS} !=on
```

```
    RewriteRule ^ - [env=proto:http]
```

```
</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), and 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 would prefer to use `Option 2`, just comment out all the
# lines from `Option 1` and uncomment the ones from `Option 2`.
#
# (!) NEVER USE BOTH RULES AT THE SAME TIME!

# -----

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

<IfModule mod_rewrite.c>
    RewriteEngine On
    RewriteCond %{HTTPS} !=on
    RewriteCond %{HTTP_HOST} ^www\.(.+$) [NC]
    RewriteRule ^ %{ENV:PROTO}://%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>
#     RewriteEngine On
#     RewriteCond %{HTTPS} !=on
#     RewriteCond %{HTTP_HOST} !^www\. [NC]
#     RewriteCond %{SERVER_ADDR} !=127.0.0.1
#     RewriteCond %{SERVER_ADDR} !=::1
#     RewriteRule ^ %{ENV:PROTO}://www.%{HTTP_HOST}%{REQUEST_URI} [R=301,L]
# </IfModule>
```

```
# #####  
# # SECURITY #  
# #####  
  
# -----  
# | Clickjacking |  
# -----  
  
# Protect website against clickjacking.  
#  
# The example below sends the `X-Frame-Options` response header with  
# the value `DENY`, informing browsers not to display the content of  
# the web page in any frame.  
#  
# This might not be the best setting for everyone. You should read  
# about the other two possible values the `X-Frame-Options` header  
# field can have: `SAMEORIGIN` and `ALLOW-FROM`.  
# https://tools.ietf.org/html/rfc7034#section-2.1.  
#  
# Keep in mind that while you could send the `X-Frame-Options` header  
# for all of your website's pages, this has the potential downside that  
# it forbids even non-malicious framing of your content (e.g.: when  
# users visit your website using a Google Image Search results page).  
#  
# Nonetheless, you should ensure that you send the `X-Frame-Options`  
# header for all pages that allow a user to make a state changing  
# operation (e.g: pages that contain one-click purchase links, checkout  
# or bank-transfer confirmation pages, pages that make permanent  
# configuration changes, etc.).  
#  
# Sending the `X-Frame-Options` header can also protect your website  
# against more than just clickjacking attacks:  
# https://cure53.de/xfo-clickjacking.pdf.  
#  
# https://tools.ietf.org/html/rfc7034  
# http://blogs.msdn.com/b/ieinternals/archive/2010/03/30/combatting-clickjacking-with-x-  
frame-options.aspx  
# https://www.owasp.org/index.php/Clickjacking
```

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

```
Header set X-Frame-Options "DENY"
```

```
# `mod_headers` cannot match based on the content-type, however,  
# the `X-Frame-Options` response header should be send only for  
# HTML documents and not for the other resources.
```

```
<FilesMatch "\.
```

```
(appcache|atom|baw|bmp|crl|css|curl|eot|f4[abpv]|flv|geojson|gif|htc|ico|jpe?  
|js|json|ld)?
```

```
|m4[av]|manifest|map|mp4|oex|og[agv]|opus|otf|pdf|png|rdf|rss|safariextz|svgz?
```

```
|swf|topojson|tt[cf]|txt|vcard|vcf|vtt|webapp|web[mp]|webmanifest|woff2?|xloc|xml|xpi)$">
```

```
Header unset X-Frame-Options
```

```
</FilesMatch>
```

```
</IfModule>
```

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

```
# Mitigate the risk of cross-site scripting and other content-injection  
# attacks.
```

```
#  
# This can be done by setting a `Content Security Policy` which  
# whitelists trusted sources of content for your website.
```

```
#  
# The example header below allows ONLY scripts that are loaded from  
# the current website's origin (no inline scripts, no CDN, etc).
```

```
# That almost certainly won't work as-is for your website!
```

```
#  
# To make things easier, you can use an online CSP header generator  
# such as: http://cspisawesome.com/.
```

```
#  
# http://content-security-policy.com/  
# http://www.html5rocks.com/en/tutorials/security/content-security-policy/  
# http://www.w3.org/TR/CSP11/.
```

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

```
Header set Content-Security-Policy "script-src 'self'; object-src 'self'"
```

```
# `mod_headers` cannot match based on the content-type, however,  
# the `Content-Security-Policy` response header should be send  
# only for HTML documents and not for the other resources.
```

```
<FilesMatch "\.  
(appcache|atom|bbaw|bmp|crx|css|curl|eot|f4[abpv]|flv|geojson|gif|htc|ico|jpe?  
|js|json|ld)?  
|m4[av]|manifest|map|mp4|oex|og[agv]|opus|otf|pdf|png|rdf|rss|safariextz|svg?  
|swf|topojson|tt[cf]|txt|vcard|vcf|vtt|webapp|web[mp]|webmanifest|woff2?|xld|xll|xpi)$">  
    Header unset Content-Security-Policy  
</FilesMatch>
```

```
</IfModule>
```

```
# -----  
# | File access |  
# -----
```

```
# Block access to directories without a default document.
```

```
#  
# You should leave the following uncommented, as you shouldn't allow  
# anyone to surf through every directory on your server (which may  
# include rather private places such as the CMS's directories).
```

```
<IfModule mod_autoindex.c>
```

```
    Options -Indexes
```

```
</IfModule>
```

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

```
# Block access to all hidden files and directories with the exception of  
# the visible content from within the `/.well-known/` hidden directory.
```

```
#  
# These types of files usually contain user preferences or the preserved  
# state of an utility, and can include rather private places like, for  
# example, the `.git` or `.svn` directories.
```

```
#  
# The `/.well-known/` directory represents the standard (RFC 5785) path  
# prefix for "well-known locations" (e.g.: `/.well-known/manifest.json`,  
# `/.well-known/keybase.txt`), and therefore, access to its visible
```

```
# content should not be blocked.
#
# https://www.mnot.net/blog/2010/04/07/well-known
# https://tools.ietf.org/html/rfc5785

<IfModule mod_rewrite.c>
    RewriteEngine On
    RewriteCond %{REQUEST_URI} "!(^/)\.well-known/([^. /]+/?.+)$" [NC]
    RewriteCond %{SCRIPT_FILENAME} -d [OR]
    RewriteCond %{SCRIPT_FILENAME} -f
    RewriteRule "(^/)\." - [F]
</IfModule>

# -----

# Block access to files that can expose sensitive information.
#
# By default, block access to backup and source files that may be
# left by some text editors and can pose a security risk when anyone
# has access to them.
#
# http://feross.org/cmsploit/
#
# (!) Update the `<FilesMatch>` regular expression from below to
# include any files that might end up on your production server and
# can expose sensitive information about your website. These files may
# include: configuration files, files that contain metadata about the
# project (e.g.: project dependencies), build scripts, etc..

<FilesMatch "(^#.#|\. (bak|conf|dist|fla|in[ci]|log|psd|sh|sql|sw[op])|")$" >

    # Apache < 2.3
    <IfModule !mod_authz_core.c>
        Order allow,deny
        Deny from all
        Satisfy All
    </IfModule>

    # Apache ≥ 2.3
    <IfModule mod_authz_core.c>
        Require all denied
    </IfModule>
</FilesMatch>
```

```
</IfModule>
```

```
</FilesMatch>
```

```
# -----  
# | HTTP Strict Transport Security (HSTS) |  
# -----  
  
# Force client-side SSL redirection.  
#  
# If a user types `example.com` in their browser, even if the server  
# redirects them to the secure version of the website, 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 browser's  
# address bar.  
#  
# (!) Remove the `includeSubDomains` optional directive if the website's  
# subdomains are not using HTTPS.  
#  
# http://www.html5rocks.com/en/tutorials/security/transport-layer-security/  
# https://tools.ietf.org/html/draft-ietf-websec-strict-transport-sec-14#section-6.1  
# http://blogs.msdn.com/b/ieinternals/archive/2014/08/18/hsts-strict-transport-security-attacks-mitigations-deployment-https.aspx
```

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

```
Header always set Strict-Transport-Security "max-age=16070400; includeSubDomains"
```

```
</IfModule>
```

```
# -----  
# | Reducing MIME type security risks |  
# -----  
  
# Prevent some browsers from MIME-sniffing the response.  
#  
# This reduces exposure to drive-by download attacks and cross-origin  
# data leaks, and should be left uncommented, especially if the server  
# is serving user-uploaded content or content that could potentially be  
# treated as executable by the browser.
```

```
#
# http://www.slideshare.net/hasegawayosuke/owasp-hasegawa
# http://blogs.msdn.com/b/ie/archive/2008/07/02/ie8-security-part-v-comprehensive-protection.aspx
# https://msdn.microsoft.com/en-us/library/ie/gg622941.aspx
# https://mimesniff.spec.whatwg.org/
```

```
<IfModule mod_headers.c>
    Header set X-Content-Type-Options "nosniff"
</IfModule>
```

```
# -----
# | Reflected Cross-Site Scripting (XSS) attacks |
# -----
```

```
# (1) Try to re-enable the cross-site scripting (XSS) filter built
# into most web browsers.
```

```
#
# The filter is usually enabled by default, but in some cases it
# may be disabled by the user. However, in Internet Explorer for
# example, it can be re-enabled just by sending the
# `X-XSS-Protection` header with the value of `1`.
```

```
#
# (2) Prevent web browsers from rendering the web page if a potential
# reflected (a.k.a non-persistent) XSS attack is detected by the
# filter.
```

```
#
# By default, if the filter is enabled and browsers detect a
# reflected XSS attack, they will attempt to block the attack
# by making the smallest possible modifications to the returned
# web page.
```

```
#
# Unfortunately, in some browsers (e.g.: Internet Explorer),
# this default behavior may allow the XSS filter to be exploited,
# thereby, it's better to inform browsers to prevent the rendering
# of the page altogether, instead of attempting to modify it.
```

```
#
# https://hackademix.net/2009/11/21/ies-xss-filter-creates-xss-vulnerabilities
#
```

```
# (!) Do not rely on the XSS filter to prevent XSS attacks! Ensure that
# you are taking all possible measures to prevent XSS attacks, the
```

```
# most obvious being: validating and sanitizing your website's inputs.
#
# http://blogs.msdn.com/b/ie/archive/2008/07/02/ie8-security-part-iv-the-xss-filter.aspx
# http://blogs.msdn.com/b/ieinternals/archive/2011/01/31/controlling-the-internet-explorer-xss-filter-with-the-x-xss-protection-http-header.aspx
# https://www.owasp.org/index.php/Cross-site\_Scripting\_%28XSS%29
```

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

```
    # (1) (2)
    Header set X-XSS-Protection "1; mode=block"
```

```
    # `mod_headers` cannot match based on the content-type, however,
    # the `X-XSS-Protection` response header should be send only for
    # HTML documents and not for the other resources.
```

```
    <FilesMatch "\.
```

```
    (appcache|atom|bbaw|bmp|crx|css|curl|eot|f4|abp|flv|geojson|gif|htc|ico|jpe?
    |js|json|ld)?
    |m4|av|manifest|map|mp4|oex|og[agv]|opus|otf|pdf|png|rdf|rss|safariextz|svgz?
    |swf|topojson|tt[cf]|txt|vcard|vcf|vtt|webapp|web[mp]|webmanifest|woff2?|xlocl|xml|xpi)$">
        Header unset X-XSS-Protection
    </FilesMatch>
```

```
</IfModule>
```

```
# -----
# | Server-side technology information |
# -----
```

```
# Remove the `X-Powered-By` response header that:
```

```
#
# * is set by some frameworks and server-side languages
# (e.g.: ASP.NET, PHP), and its value contains information
# about them (e.g.: their name, version number)
#
# * doesn't provide any value to users, contributes to header
# bloat, and in some cases, the information it provides can
# expose vulnerabilities
```

```
# (!) If you can, you should disable the `X-Powered-By` header from the
```



```
# language / framework level (e.g.: for PHP, you can do that by setting
# `expose_php = off` in `php.ini`)
#
# https://php.net/manual/en/ini.core.php#ini.expose-php
```

```
<IfModule mod_headers.c>
    Header unset X-Powered-By
</IfModule>
```

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

# Prevent Apache from adding a trailing footer line containing
# information about the server to the server-generated documents
# (e.g.: error messages, directory listings, etc.)
#
# https://httpd.apache.org/docs/current/mod/core.html#serversignature
```

```
ServerSignature Off
```

```
# -----

# Prevent Apache from sending in the `Server` response header its
# exact version number, the description of the generic OS-type or
# information about its compiled-in modules.
#
# (!) The `ServerTokens` directive will only work in the main server
# configuration file, so don't try to enable it in the `.htaccess` file!
#
# https://httpd.apache.org/docs/current/mod/core.html#servertokens
```

```
#ServerTokens Prod
```

```
# #####
# # WEB PERFORMANCE #
# #####
```

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

```

<IfModule mod_deflate.c>

    # Force compression for mangled `Accept-Encoding` request headers
    # https://developer.yahoo.com/blogs/ydn/pushing-beyond-gzipping-25601.html

    <IfModule mod_setenvif.c>
        <IfModule mod_headers.c>
            SetEnvIfNoCase ^(\Accept-EncodXng| X-cept-Encoding| X(15)| ^(15)| -(15))$
            ^((gzip| deflate)\s*, ?\s*)+([X"]-){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 media types.
    #
    # (!) For Apache versions below version 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.
    #
    # https://httpd.apache.org/docs/current/mod/mod_filter.html#addoutputfilterbytype

    <IfModule mod_filter.c>
        AddOutputFilterByType DEFLATE "application/atom+xml" \
            "application/javascript" \
            "application/json" \
            "application/ld+json" \
            "application/manifest+json" \
            "application/rdf+xml" \
            "application/rss+xml" \
            "application/schema+json" \
            "application/vnd.geo+json" \
            "application/vnd.ms-fontobject" \
            "application/x-font-ttf" \
            "application/x-javascript" \
            "application/x-web-app-manifest+json" \
            "application/xhtml+xml" \
            "application/xml" \

```

```
    application/xml \
    "font/eot" \
    "font/opentype" \
    "image/bmp" \
    "image/svg+xml" \
    "image/vnd.microsoft.icon" \
    "image/x-icon" \
    "text/cache-manifest" \
    "text/css" \
    "text/html" \
    "text/javascript" \
    "text/plain" \
    "text/vcard" \
    "text/vnd.rim.location.xloc" \
    "text/vtt" \
    "text/x-component" \
    "text/x-cross-domain-policy" \
    "text/xml"
```

```
</IfModule>
```

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

```
# Map the following filename extensions to the specified  
# encoding type in order to make Apache serve the file types  
# with the appropriate `Content-Encoding` response header  
# (do note that this will NOT make Apache compress them!).  
#  
# If these files types would be served without an appropriate  
# `Content-Enable` response header, client applications (e.g.:  
# browsers) wouldn't know that they first need to uncompress  
# the response, and thus, wouldn't be able to understand the  
# content.  
#  
# https://httpd.apache.org/docs/current/mod/mod\_mime.html#addencoding
```

```
<IfModule mod_mime.c>
```

```
    AddEncoding gzip          svgz
```

```
</IfModule>
```

```
</IfModule>
```

```
# -----
# | Content transformation |
# -----

# Prevent intermediate caches or proxies (e.g.: such as the ones
# used by mobile network providers) from modifying the website's
# content.
#
# https://tools.ietf.org/html/rfc2616#section-14.9.5
#
# (!) If you are using `mod_pagespeed`, please note that setting
# the `Cache-Control: no-transform` response header will prevent
# `PageSpeed` from rewriting `HTML` files, and, if the
# `ModPagespeedDisableRewriteOnNoTransform` directive isn't set
# to `off`, also from rewriting other resources.
#
# https://developers.google.com/speed/pagespeed/module/configuration#notransform

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

# -----
# | ETags |
# -----

# 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

# -----
# | Expires headers |
# ..
```

```
# -----  
  
# Serve resources with far-future expires headers.  
#  
# (!) If you don't control versioning with filename-based  
# cache busting, you should consider lowering the cache times  
# to something like one week.  
#  
# https://httpd.apache.org/docs/current/mod/mod_expires.html  
  
<IfModule mod_expires.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"  
    ExpiresByType application/schema+json "access plus 0 seconds"  
    ExpiresByType application/vnd.geo+json "access plus 0 seconds"  
    ExpiresByType application/xml "access plus 0 seconds"  
    ExpiresByType text/xml "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"
```

## # Manifest files

```
ExpiresByType application/manifest+json "access plus 1 week"
ExpiresByType application/x-web-app-manifest+json "access plus 0 seconds"
ExpiresByType text/cache-manifest "access plus 0 seconds"
```

## # 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"

# Other

ExpiresByType text/x-cross-domain-policy      "access plus 1 week"

</IfModule>

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

# Allow concatenation from within specific files.
#
# e.g.:
#
# If you have the following lines in a file called, for
# example, `main.combined.js`:
#
#     <!--#include file="js/jquery.js" -->
#     <!--#include file="js/jquery.timer.js" -->
#
# Apache will replace those lines with the content of the
# specified files.

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

```

```
# -----  
# | Filename-based cache busting |  
# -----  
  
# If you're not using a build process to manage your filename version  
# revving, you might want to consider enabling the following directives  
# to route all requests such as `/style.12345.css` to `/style.css`.  
#  
# To understand why this is important and even a better solution than  
# using something like `*.css?v231`, please see:  
# http://www.stevesouders.com/blog/2008/08/23/revving-filenames-dont-use-querystring/  
  
<IfModule mod_rewrite.c>  
    RewriteEngine On  
    RewriteCond %{REQUEST_FILENAME} !-f  
    RewriteRule ^(.+)\.(\d+)\.(bmp|css|curl|gif|ico|jpe?g|js|png|svgz?|webp|webmanifest)$  
$1.$3 [L]  
</IfModule>
```