

```

# Apache Server Configs v2.9.0 | MIT License
# https://github.com/h5bp/server-configs-apache

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

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

# -----
# | Cross-origin requests |
# -----

# Allow cross-origin requests.

# http://enable-cors.org/
# http://www.w3.org/TR/cors/
# https://code.google.com/p/html5security/wiki/CrossOriginRequestSecurity

# <IfModule mod_headers.c>
#     Header set Access-Control-Allow-Origin "*"
# </IfModule>

# -----
# | 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
# https://hacks.mozilla.org/2011/11/using-cors-to-load-webgl-textures-from-cross-domain-images/

<IfModule mod_setenvif.c>
    <IfModule mod_headers.c>
        <SetEnvIfMatch "^(?!(?:^|https://|www.)(?:localhost|127.0.0.1|::1))$"

```

```
<FilesMatch '\.(cur|gif|ico|jpe?gi|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/

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

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

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

```
# | 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  
# and should no longer be used.
```

```
#
```

```
# http://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|crx|css|curl|eot|f4[abpv]|flv|geojson|gif|htcl|icol|jpe?
gl|jst|json|ld)?
|m4[av]|manifest|map|mp4|oex|og[agv]|opus|otf|pdf|png|rdf|rss|safariextz|svgz?
|swf|topojson|tt[cf]|txt|vcf|vtt|webapp|web[mp]|woff2?|xml|xpi)$">
        Header unset X-UA-Compatible
    </FilesMatch>

</IfModule>

# -----
# | Iframes cookies |
# -----

# Allow cookies to be set from iframes in Internet Explorer.

# http://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 #
# #####

# -----
# | Media types |
# -----

# Serve resources with the proper media types (f.k.a. MIME types).
# https://www.iana.org/assignments/media-types/media-types.xhtml

```

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

```
# Audio
```

```
AddType audio/mp4          f4a f4b m4a
AddType audio/ogg           oga ogg opus
```

```
# Data interchange
```

```
AddType application/json    json map topojson
AddType application/ld+json  jsonld
AddType application/vnd.geo+json  geojson
```

```
# JavaScript
```

```
# Normalize to standard type.
# https://tools.ietf.org/html/rfc4329#section-7.2
AddType application/javascript  js
```

```
# Manifest files
```

```
# If you are providing a web application manifest file (see
# the specification: https://w3c.github.io/manifest/), it is
# recommended that you serve it with the `application/manifest+json`
# media type.
```

```
#
```

```
# Because the web application manifest file doesn't have its
# own unique file extension, you can set its media type either
# by matching:
```

```
#
```

```
# 1) the exact location of the file (this can be done using a
# directive such as `<Location>`, but it will NOT work in
# the `.htaccess` file, so you will have to do it in the main
# server configuration file or inside of a `<VirtualHost>`
# container)
```

```
#
```

```
# e.g.:
```

```
#
```

```
#     <Location "/.well-known/manifest.json">
#         AddType application/manifest+json      json
#     </Location>
```

```
#
```

```
# 2) the filename (this can be problematic as you will need to
```

```
# ensure that you don't have any other file with the same name
# as the one you gave to your web application manifest file)
#
# e. g. :
#
# <Files "manifest.json">
#     AddType application/manifest+json          json
# </Files>
```

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

Video

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

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
```

```
# Chrome however, shows a warning if any other media types are used
# for the following two font types.
```

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

AddType image/svg+xml                        svg svgz
```

Other

```
AddType application/octet-stream            safariextz
AddType application/x-chrome-extension       crx
AddType application/x-opera-extension        oex
AddType application/x-xpinstall              xpi
AddType application/xml                      atom rdf rss xml
```

```
AddType image/webp webp
AddType image/x-icon cur ico
AddType text/vtt vtt
AddType text/x-component htc
AddType text/x-vcard vcf
```

```
</IfModule>
```

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

```
# Set `UTF-8` as the character encoding for all resources served with
# the media type of `text/html` or `text/plain`.
```

```
AddDefaultCharset utf-8
```

```
# Set `UTF-8` as the character encoding for other certain resources.
```

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

```
    AddCharset utf-8 .atom \
        .css \
        .geojson \
        .js \
        .json \
        .jsonld \
        .rdf \
        .rss \
        .topojson \
        .vtt \
        .webapp \
        .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 may need to either comment it out or remove it, and
# uncomment the `Options +SymLinksIfOwnerMatch` line, but be
# aware of the performance impact.
# https://httpd.apache.org/docs/current/misc/perf-tuning.html #symlinks
#
# (4) Some cloud hosting services will also require that you set
# the `RewriteBase`.
# http://www.rackspace.com/knowledge\_center/frequently-asked-question/why-is-modrewrite-not-working-on-my-site
#
# (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
```

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

```
    # (1)
```

```
    RewriteEngine On
```

```
    # (2)
```

```
    Options +FollowSymLinks
```

```
    # (3)
```

```
    # Options +SymLinksIfOwnerMatch
```

```
    # (4)
```

```
    # RewriteBase /
```

```
    # (5)
```

```
    # RewriteOptions <options>
```

```
</IfModule>
```



```

# -----
# | Forcing `https://` |
# -----

# 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>

# -----
# | 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 ^ 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>  
#     RewriteEngine On  
#     RewriteCond %{HTTPS} !=on  
#     RewriteCond %{HTTP_HOST} !^www\. [NC]  
#     RewriteCond %{SERVER_ADDR} !=127.0.0.1  
#     RewriteCond %{SERVER_ADDR} !=::1  
#     RewriteRule ^ http://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 web page content in  
# any frame.  
  
# This might not be the best setting for everyone. You should read about  
# the other two possible values for `X-Frame-Options`: `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 site's pages, this has the potential downside that it  
# forbids even non-malicious framing of your content (e.g.: when users  
# visit your site 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/combating-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|crx|css|curl|eot|f4[abpv]|flv|geojson|gif|htcl|icol|jpe?
gl|jsl|json(1d)?
|m4[av]|manifest|map|mp4|oexl|og[agv]|opus|otf|pdf|png|rdf|rssl|safariextz|svgz?
|swf|topojson|tt[cf]|txt|vcf|vtt|webappl|web[mp]|woff2?|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
"Content Security Policy: https://www.w3.org/TR/CSP2/"

```

```

# whitelists trusted sources of content for your website.

# 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!

# For more details on how to craft a reasonable policy for your site,
# read: http://www.html5rocks.com/en/tutorials/security/content-security-policy/
# (or the specification: http://www.w3.org/TR/CSP11/). Also, to make
# things easier, you can use an online CSP header generator such as:
# http://cspisawesome.com/.

# <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|crx|css|curl|eot|f4[abpv]|flv|geojson|gif|htc|ico|jpe?
gl|js|json(1d)?
|m4[av]|manifest|map|mp4|oex|og[agv]|opus|otf|pdf|png|rdf|rss|safariextz|svgz?
|swf|topojson|ttf|cf|txt|vcf|vtt|webapp|web[mp]|woff2?|xml|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
# includes 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>
```

```
# -----  
# | 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 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.
```

```
# (!) Remove the `includeSubDomains` optional directive if the site's  
# subdomains are not using HTTPS.
```

```
# https://tools.ietf.org/html/draft-ietf-websec-strict-transport-sec-14#section-6.1  
# http://www.html5rocks.com/en/tutorials/security/transport-layer-security/  
# http://blogs.msdn.com/b/ieinternals/archive/2014/08/18/hsts-strict-transport-security-  
attacks-mitigations-deployment-https.aspx
```

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

```
# Header 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 web
# 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
# http://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 the 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. 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 tell browsers to prevent the rendering
#   of the page altogether, instead of attempting to modify it.
#
#   http://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 site'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|crx|css|curl|eot|f4[abpw]|flv|geojson|gif|htcl|icol|jpe?
gl|jsl|json|1d)?
|m4[av]|manifest|map|mp4|oexl|og[agv]|opus|otf|pdf|png|rdf|rss|safari|extz|svgz?
|swf|topo.json|tt[cf]|txt|vcf|vtt|webappl|web[mp]|woff2?|xml|xpi)$">
#       Header unset X-XSS-Protection
#   </FilesMatch>

# </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.

# (!) 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 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>

# -----

# Map certain file types to the specified encoding type in order
# to make Apache serve them with the appropriate `Content-Encoding`
# response header (this will NOT make Apache compress them!).

# If the following file types wouldn't be served without the
# 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>

-----

# Compress all output labeled with one of the following media 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/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-web-app-manifest+json" \
                                  "application/xhtml+xml" \
                                  "application/xml" \
                                  "font/opentype" \
                                  "image/svg+xml" \
                                  "image/x-icon" \
                                  "text/cache-manifest" \
                                  "text/css" \
                                  "text/html" \
                                  "text/javascript" \
                                  "text/plain" \
                                  "text/vtt" \
```

```
Content-Type: \
"text/x-component" \
"text/xml"
```

```
</IfModule>
```

```
</IfModule>
```

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

```
# Prevent mobile network providers from modifying the website's content.
# https://tools.ietf.org/html/rfc2616#section-14.9.5
```

```
# <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
```

```
# `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 (e.g.: to something like
# one 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/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/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"
```

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

```
# Manifest files
```

```
ExpiresByType application/manifest+json "access plus 1 year"
```

```
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/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/ogg                "access plus 1 month"
ExpiresByType video/webm               "access plus 1 month"

# Web feeds
ExpiresByType application/atom+xml     "access plus 1 hour"
ExpiresByType application/rdf+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/font-woff2  "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>

# -----
# | 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 \
#             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 idea 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+)\.(css|curl|gif|ico|jpe?g|jst|png|svgz?|webp)$ $1.$3 [L]
# </IfModule>
```