

```
# #####  
# # FOR DEVELOPMENT SITES AND SUBDOMAINS ONLY #  
# #####
```

```
# -----  
---  
# Disable URL indexing by crawlers (FOR DEVELOPMENT/STAGE)  
# -----  
---
```

```
# Avoid search engines (Google, Yahoo, etc) indexing website's content  
# http://yoast.com/prevent-site-being-indexed/  
# http://code.google.com/web/controlcrawlindex/docs/robots\_meta\_tag.html  
# Matt Cutt (from Google Webmaster Central) on this topic:  
# http://www.youtube.com/watch?v=KBdEwpRQRD0
```

```
# IMPORTANT: serving this headers is recommended only for  
# development/stage websites (or for live websites that don't  
# want to be indexed). This will avoid the website  
# being indexed in SERPs (search engines result pages).  
# This is a better approach than using robots.txt  
# to disallow the SE robots crawling your website,  
# because disallowing the robots doesn't exactly  
# mean that your website won't get indexed (read links above).
```

```
# <IfModule mod_headers.c>  
#   Header set X-Robots-Tag "noindex, nofollow, noarchive"  
#   <FilesMatch "\.(doc|pdf|png|jpe?g|gif)$">  
#     Header set X-Robots-Tag "noindex, noarchive, nosnippet"  
#   </FilesMatch>  
# </IfModule>
```

```
#####  
#####
```

```
## FROM H5BP.COM BUT CUSTOMIZED FOR WITH SEO IN MIND
```

```
# Apache Server Configs v2.8.0 | MIT License  
# https://github.com/h5bp/server-configs-apache
```

```
# (X) Use the 'Header' filter along with 'SetEnv' therefore, if you have
```

```

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

```

```

    </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 #
# #####

# -----
# | 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
# http://www.webmasterworld.com/apache/3808792.htm
```

Options -MultiViews

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

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

# Force Internet Explorer to render pages in the highest available mode
# in the various cases when it may not.

# https://hsivonen.fi/doctype/#ie8
```

```
<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|jsl|json|ld)?"
```

```
| m4[av]| manifest| map| mp4| oex| og[agv]| opus| ot| pdf| png| rdf| rssl| safariextn| svgz?  
| swf| topjson| tt[cf]| txt| vcfl vtt| webappl 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 topjson
```

```
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

```

```
# RewriteCond %{HTTP_HOST} !^www$
# 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 inactive.
# http://no-www.org/faq.php?q=class_b

# By default `Option 2`, is also inactive
# To use either just comment out all the
# lines from `Option 3` and uncomment your favorite.

# But wait, there's more. Have real subdomains and want to redirect?
# By default we use `Option 3`

# (!) PICK ONE, NEVER USE MORE THAN ONE OF THESE 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 "www"
```

*# 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>
```

-----

Option 3: Redirect Naked URL to WWW while respecting subdomains

```
<IfModule mod_rewrite.c>
    RewriteCond %{HTTPS} !=on
    RewriteCond %{HTTP_HOST} ^([^.]+\.)\.([^.]+)$ [NC]
    RewriteRule ^(.*)$ http://www.%1.%2/$1 [R=301,NC,L]
</IfModule>
```

Why is this the default?

*# Whether you develop locally or not, having stage/dev/static subdomains
is really useful. Plus an SEO colleague with much more experience than
I have swears by it.*

```
# #####
# # 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|otfl|pdf|png|rdf|rssl|safariextz|svgz?
|swf|topojson|tt[cf]|txt|vcf|vtt|webapp|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
# 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[abpw]|flv|geojson|gif|htc|icol|jpe?
gl|js|json(1d)?
|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 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) |
# -----

# HTTPS is now a ranking signal for Google
# http://googlewebmastercentral.blogspot.com/2014/08/https-as-ranking-signal.html

# If you have SSL in place you may as well implement HSTS

# Force client-side SSL redirection.

# 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 |
# -----

# (!) 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 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?
al|ison|ld)?
```

```

# -----
# m4[av]| manifest| map| mp4| oexl| og[agv]| opus| otfl| pdf| png| rdf| rssl| safari| extz| svgz?
# swfl| topojson| tt[cf]| txt| vcf| vtt| webappl| web[mp]| woff2?| xml| xpi)">
#         Header unset X-XSS-Protection
#     </FilesMatch>
#
# </IfModule>

# #####
# # 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-EncodXngl X-cept-Encodingl 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>
```

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

```
# Not beneficial unless you have multiple servers networked (like a CDN)  
# See above for an explanation but I comment out by default
```

```
# `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 (shorten this if not using version revving)
```

```
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
```

```
# 1 week lengthened to 1 month
```

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

```
# 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 (depending on site, consider making this longer)
```

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

# Web fonts (depending on site, consider making this longer)
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
# rewriting, 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/rewriting-filenames-dont-use-querystring/

# <IfModule mod_rewrite.c>
#     RewriteEngine On
#     RewriteCond %{REQUEST_FILENAME} !-f
#     RewriteRule ^(.+)\.(\d+)\. (css|curl|gif|ico|jpe?g|js|png|svgz?|webp)$ $1.$3 [L]
# </IfModule>
```