

foxPEP 2.2.2 Gratitude Wiki

Engine One – Content Rendering

gfx.color_management.mode - 0

This preference controls if the browser will use the built-in color management tool for content.

gfx.xrender.enabled - true

This preference controls if the browser will use the X server for page rendering (if applicable).

gl.msaa-level - 0

This preference controls if the browser graphics libraries will utilize multi-sample anti-aliasing.

gl.multithreaded - true

This preference controls whether to use multiple threads for the browser graphics libraries.

image.cache.timeweight - 0

This preference controls how long the browser will keep images cached before discarding.

image.mem.decode_bytes_at_a_time - 65536

This preference controls how many bytes of a queried image to decode at a given time.

image.mem.max_ms_before_yield - 0

This preference controls how many milliseconds to wait for before drawing a decoded image.

image.onload.decode.limit - 0

This preference controls how fast images are rendered as soon as they come into view.

layers.acceleration.enabled - true

This preference controls the state of GPU acceleration. Dependent on below for full effect.

layers.acceleration.force-enabled - true

This preference controls the state of GPU acceleration. Dependent on above for full effect.

layers.componentalpha.enabled - true

This preference determines the state of component alpha, or subpixel anti-aliasing.

layout.css.osx-font-smoothing.enabled - false

This preference determines the state of font smoothing on macOS.

network.dns.disablePrefetchFromHTTPS - false

This preference determines if the browser will prefetch content from HTTPS servers.

nglayout.initialpaint.delay - 0

This preference determines how long the browser will wait to repaint the page while loading.

Engine Two – Scrolling Fluidity

general.smoothScroll - false

This preference controls the state of smooth scrolling.

gfx.webrender.all - true

This preference controls the state of WebRender.

layers.offmainthreadcomposition.frame-rate - 60

This preference determines the targeted Off Main Thread Composition frame rate.

layout.frame_rate - 60

This preference determines the targeted browser frame rate.

layout.frame_rate.precise - true

This preference determines how accurately the browser enforces a targeted frame rate.

mousewheel.acceleration.start - 1

This preference determines how many times the mouse wheel must complete a singular turn before the page can scroll.

mousewheel.min_line_scroll_amount - 20

This preference determines the minimum amount of lines to be panned when the mouse wheel completes one singular turn.

toolkit.scrollbox.smoothScroll - false

This preference determines the state of smooth scrolling for whenever panning between tabs.

toolkit.scrollbox.verticalScrollDistance - 5

This preference determines the panning distance to scroll each time an arrow key is pressed.

webgl.max-warnings-per-context - 0

This preference determines the maximum amount of warnings WebGL will issue per context.

Engine Three – Resource Efficiency

accessibility.force_disabled - 1

This preference determines the state of the browser's built-in accessibility tools.

app.update.enabled - false

This preference determines if the browser will periodically check for browser updates.

browser.cache.disk.enable - false

This preference determines if the browser will use the system hard disk for caching.

browser.cache.offline.enable - false

This preference determines if the browser will cache data when offline to use in the future.

browser.sessionhistory.max_entries - 9

This preference determines how many previous pages the browser can keep cached.

browser.sessionhistory.max_total_viewers - 0

This preference determines how many pages the browser will store in memory for later use.

browser.sessionstore.interval - 300000

This preference determines how often (in ms) the browser backs up the current session.

browser.urlbar.delay - 0

This preference determines how quickly website suggestions will display under the address bar as soon as text is entered.

dom.ipc.processHangMonitor - false

This preference determines the state of onboard process hang monitoring.

dom.ipc.reportProcessHangs - false

This preference determines if the process hang monitor will report detected hangs.

extensions.blocklist.enabled - false

This preference determines if the browser will consult its built-in extension blocklist before installing an extension.

extensions.update.enabled - false

This preference determines if the browser will periodically check for extension updates.

media.webm.enabled - false

This preference controls the browser's ability to play VP8 and VP9 video streams.

memory.free_dirty_pages - true

This preference manages intelligent memory allocation.

network.dns.disableIPv6 - true

This preference controls the state of IPv6 DNS queries.

services.sync.enabled - false

This preference controls the state of Firefox Sync.

ui.prefersReducedMotion - 1

This preference determines if the browser will reduce UI motion on Firefox 63 and later.

Engine Four – Browser Hardening

app.normandy.enabled - false

This preference determines the state of remote browser management.

app.shield.optoutstudies.enabled - false

This preference determines the state of autonomous browser studies.

browser.safebrowsing.downloads.enabled - false

This preference determines if the browser will refer to the Google Safe Browsing database before downloading a file.

browser.safebrowsing.malware.enabled - false

This preference determines if the browser will refer to the Google Safe Browsing database before connecting to a server.

browser.safebrowsing.phishing.enabled - false

This preference determines if the browser will refer to the Google Safe Browsing database before visiting a website.

browser.send_pings - false

This preference controls websites' ability to track all clicks made.

datareporting.policy.dataSubmissionEnabled - false

This preference controls the state of Firefox Health Report on versions 41 and up.

experiments.enabled - false

This preference determines if the browser can conduct experimental studies.

geo.enabled - false

This preference controls websites' ability to autonomously acquire the user's location.

media.navigator.enabled - false

This preference controls websites' ability to interface with the device camera and microphone.

media.peerconnection.enabled - false

This preference controls the state of WebRTC.

network.allow-experiments - false

This preference determines if the browser can conduct experimental studies.

network.cookie.cookieBehavior - 1

This preference controls how the browser manages cookies.

network.http.speculative-parallel-limit - 0

This preference controls the amount of speculative parallel connections that can be automatically made every time the cursor hovers over a link.

network.IDN_show_punycode - true

This preference controls if IDNs are displayed as punycode instead of Unicode.

network.predictor.enabled - false

This preference controls the state of link prediction functionality.

privacy.trackingprotection.enabled - true

This preference controls the state of built-in tracking protection.

privacy.trackingprotection.cryptomining.enabled - true

This preference controls the state of built-in cryptominer blocking.

privacy.trackingprotection.fingerprinting.enabled - true

This preference controls the state of built-in fingerprinting blocking.

social.remote-install.enabled - false

This preference controls the state of remote installs.

social.toast-notifications.enabled - false

This preference controls the state of toast notifications.

Engine Five – Bloat Trimming

network.dns.localDomains - Refer To Engine Configuration

This preference effectively specifies which domains the browser should block by redirecting their addresses to the OS instead of the DNS server. It is, in essence, a built-in hosts file configured to block most ad, tracking, and fingerprinting domains within the top 100 most visited websites on the Internet (as of Summer 2020).

Known Issues

layers.acceleration.force-enabled - true

Causes certain images to render in colored hue on certain fringe browsers; may also cause various other issues on specific graphics hardware - i.e. glitching, crashing, etc. This can also bottleneck performance if the system CPU is more powerful than the system GPU.

media.webm.enabled - false

Causes certain YouTube videos to not play on (mostly) older operating systems lacking the required MP4 libraries; this is usually fixable by installing the required MP4 libraries, or by simply reverting the preference to default. For instance, this can be resolved on Windows by installing Media Player Codec Pack, available @ <https://www.mediaplayercodecpack.com/>.

privacy.trackingprotection.enabled - true

Causes certain functions on specific sites in specific environments to rarely break.