

# Chromium and Mozilla: ARM, TenFourFox and Firefox Engineers

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## [Arm Has Been Working To Boost The Chrome/Chromium Browser Performance](#) [4]

Arm engineers have been working to speed-up the open-source Chromium web browser on 64-bit ARM (AArch64) and ultimately to flow back into Google's Chrome releases. Their focus has been around Windows-on-Arm with the growing number of Windows Arm laptops coming to market, but the Chromium optimizations also benefit the browser on Linux too.

Arm has been focusing on Chromium optimizations not only for the Chromium/Chrome browsers itself but also for software leveraging the likes of CEF and Electron that rely upon Chromium code for rendering.



## [TenFourFox FPR17b1 available](#) [5]

TenFourFox Feature Parity Release 17 beta 1 is now available (downloads, hashes, release notes). SourceForge seems to have fixed whatever was making TenFourFox barf on its end

which now might actually be an issue over key exchange. For a variety of reasons, but most importantly backwards compatibility, my preference has been to patch up the NSS security library in TenFourFox to support new crypto and ciphers rather than just drop in a later version. We will see if the issue recurs.

This release fixes the "infinite loop" issue on Github with a trivial "hack" mitigation. This mitigation makes JavaScript slightly faster as a side-effect but it's because it relaxes some syntax constraints in the runtime, so I don't consider this a win really. It also gets rid of some debug-specific functions that are web-observable and clashed on a few pages, an error Firefox corrected some time ago but missed my notice. Additionally, since 68ESR newly adds the ability to generate and click on links without embedding them in the DOM, I backported that patch so that we can do that now too (a 4-year-old bug only recently addressed in Firefox 70). Apparently this functionality is required for certain sites' download features and evidently this was important enough to merit putting in an extended support release, so we will follow suit.

I also did an update to cookie security, with more to come, and cleared my backlog of some old performance patches I had been meaning to backport. The most important of these substantially reduces the amount of junk strings JavaScript has hanging around, which in turn reduces memory pressure (important on our 32-bit systems) and garbage collection frequency. Another enables a fast path for layout frames with no properties so we don't have to check the hash tables as frequently.

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#### [Week notes - 2019 w47 - worklog \[6\]](#)

Week Notes. I'm not sure I will be able to commit to this. But they have a bit of revival around my blogging reading echo chamber. Per revival, I mean I see them again.

The Open Data Institute just started one with a round about them. I subscribed again to the feed of Brian Suda and his own week notes. Alice Bartlett has also a very cool personal, down to earth and simple summary of her week. I love that she calls them weaknotes She's on week 63 by now.

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#### [Marco Zehe: My extended advent calendar \[7\]](#)

This year, I have a special treat for my readers. On Monday, November 25, at 12 PM UTC, I will start a 30 day series about everything and anything. Could be an accessibility tip, an how-to about using a feature in an app I use frequently, some personal opinion on something, a link to something great I came across on the web? I am totally not certain yet. I have ideas about some things I want to blog about, but by far not 30 of them yet.

**Links:**

- [1] <http://www.tuxmachines.org/taxonomy/term/120>
- [2] <http://www.tuxmachines.org/taxonomy/term/118>
- [3] <http://www.tuxmachines.org/taxonomy/term/103>
- [4] [https://www.phoronix.com/scan.php?page=news\\_item&px=Arm-Faster-Chromium](https://www.phoronix.com/scan.php?page=news_item&px=Arm-Faster-Chromium)
- [5] <http://tenfourfox.blogspot.com/2019/11/tenfourfox-feature-parity-release-17.html>
- [6] <http://www.otsukare.info/2019/11/22/week-notes-2019-47>
- [7] <https://marcozehe.de/2019/11/22/my-extended-advent-calendar/>