

# Privacy and Security

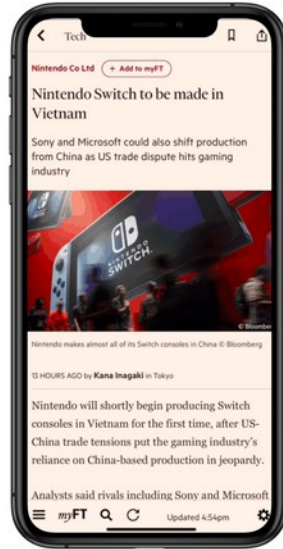
Stuart Langridge, Kryogenix Consulting  
kryogenix.org  
@sil

**“Apps that provide core features and functionality dynamically with web technology like HTML5 are best delivered to everyone in Safari, rather than through the curated App Store.”**

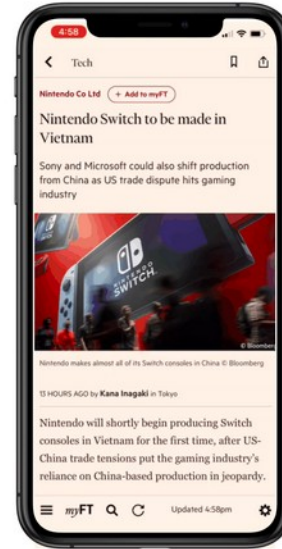
<https://developer.apple.com/news/?id=09062019b>



## Epic's Theory is Based on a False Premise



FT Web App



FT Native App

## 2.5.6 Apps that browse the web must use the appropriate WebKit framework and WebKit Javascript.

<https://developer.apple.com/app-store/review/guidelines/#software-requirements>

**“The purpose of this rule is to protect user privacy and security.**

**By requiring apps to use WebKit, Apple can rapidly and accurately address exploits across our entire user base and most effectively secure their privacy and security.”**

<https://docs.house.gov/meetings/JU/JU05/20190716/109793/HHRG-116-JU05-20190716-SD036.pdf>  
Questions for the Record from the Honorable David N. Cicilline, Chairman, Subcommittee on Antitrust, Commercial and Administrative Law of the Committee on the Judiciary; Questions for Mr. Kyle Andeer, Vice President, Corporate Law, Apple, Inc.

**Do Apple rapidly and most effectively  
secure our privacy and security?**

**“Out of the seven in the wild vulnerabilities fixed by Apple this year, five of them were in Webkit, the browser engine developed by the company and used in Safari.”**

<https://www.vice.com/en/article/u7ee7m/apple-is-having-a-really-bad-time-with-iphone-security-bugs-this-year>

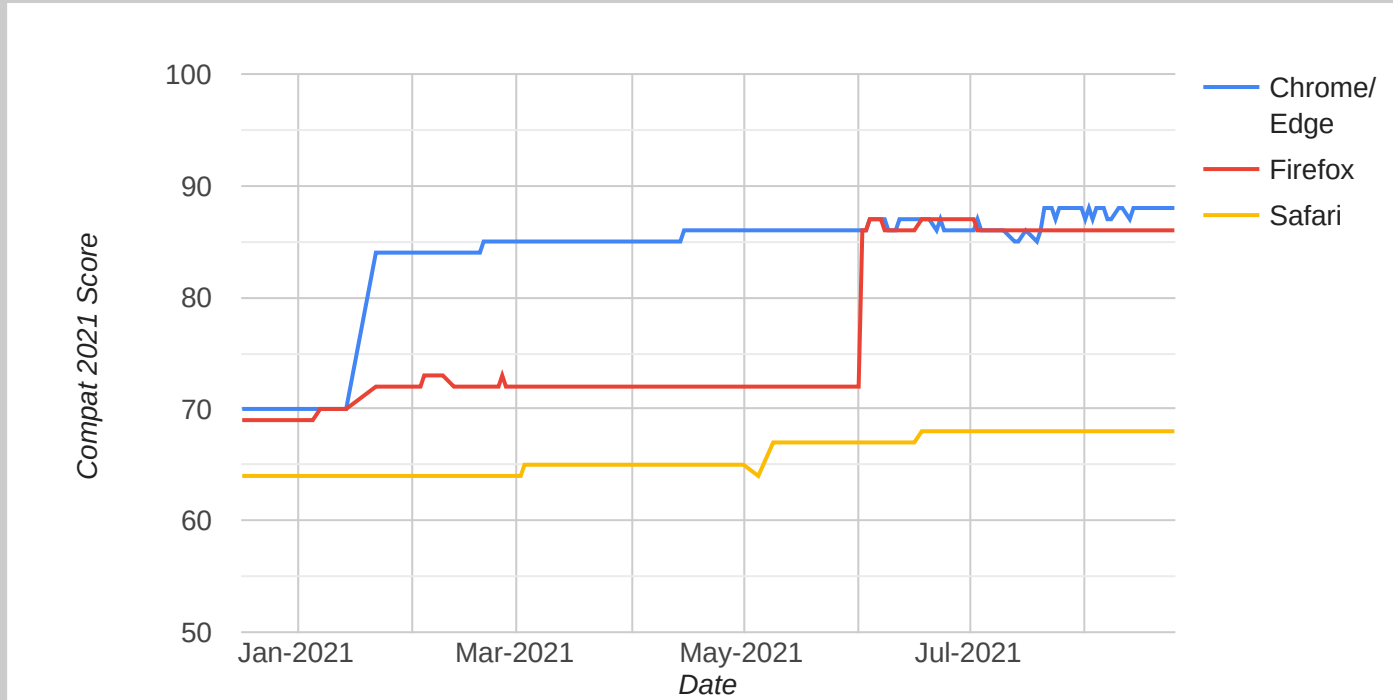
# “Patch gap”

<https://www.toolbox.com/it-security/vulnerability-management/news/type-confusion-webkit-vulnerability-in-ios-has-been-open-for-exploitation-for-weeks-despite-an-available-patch/>



**“WebKit’s first line of defense against fingerprinting is to not implement web features which increase fingerprintability and offer no safe way to protect the user.”**

<https://webkit.org/tracking-prevention/#anti-fingerprinting>



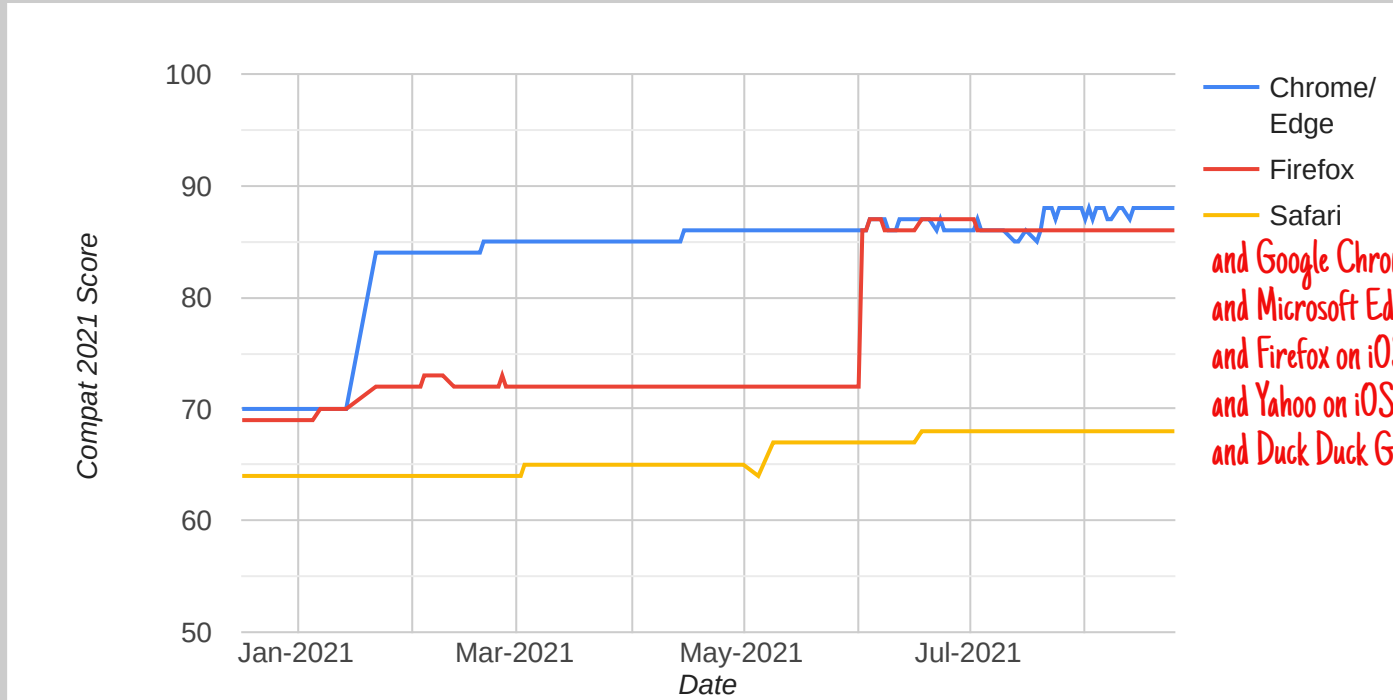
<https://wpt.fyi/compat2021?feature=summary&stable>

“WebKit is an open-source web engine that allows Apple to enable improvements contributed by third parties... third parties can contribute relevant changes to the WebKit project for incorporation into the WebKit engine.”

Subcommittee on Antitrust, *ibid.*

**Web Browsing: Apple offers Safari. There are a wide variety of browser apps on the App Store. Examples: Google Chrome, Microsoft Edge, Firefox, Yahoo, Yandex Browser and Duck Duck Go.**

Subcommittee on Antitrust, *ibid.*



<https://wpt.fyi/compat2021?feature=summary&stable>



Ada Rose Cannon  
@AdaRoseCannon



Seeing a Web App I worked on used by \*Apple\* to justify that the Web is a viable platform on iOS is bullshit

The Web can be an ideal place to build apps but Apple is consistently dragging their heels on implementing the Web APIs that would allow them to compete with native apps



Peter Gasston @stopsatgreen · 4 May

This image from Apple's opening presentation in the Epic Games court case is very misleading. "Web Apps and Native Apps can look the same, therefore no-one needs to publish on the App Store".

Let @slightlylate explain why...  
[infrequently.org/2021/04/progre...](https://infrequently.org/2021/04/progre...)

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FT Web App



FT Native App

7:05 pm · 4 May 2021 · Twitter Web App

180 Retweets 5 Quote Tweets 692 Likes

**“More diverse... software has stronger resistance that prevents security compromise from quickly spreading... thus may mitigate some security vulnerabilities.”**

Security Evaluation Using Software Diversity Measurement: An Ecological Approach  
<http://worldcomp-proceedings.com/proc/p2016/SER3191.pdf>

