

FingerprintObfuscation:

A Python Package for Browser Fingerprint Obfuscation

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Abstract

Browser fingerprinting uses information exposed by a browser and its host system to identify or track users, often without relying on traditional cookies. As fingerprinting methods have become more resilient to individual countermeasures, evaluating the effects of multiple, layered obfuscation techniques has become increasingly important.

FingerprintObfuscation is a Python package designed to support controlled testing of browser fingerprinting systems. It integrates fingerprint obfuscation with Python-based browser automation and allows users to select and combine interference techniques targeting audio, battery, canvas, clientRects, fonts, navigator properties, screen properties, WebGL, and webRTC. The package currently supports Firefox and is intended for authorised research, privacy testing, and evaluation of fingerprinting resilience.

Keywords: browser fingerprinting, privacy, browser automation, Firefox, fingerprint obfuscation, web scraping

1 Introduction

Browser fingerprinting, also known as device or online fingerprinting, is a family of techniques used to distinguish visitors by collecting properties exposed by their browsers and devices. Fingerprinting scripts are employed by many high-traffic websites and have become increasingly resilient to attempts to modify or conceal the signals from which visitor identifiers are calculated.

The prevalence of browser fingerprinting has also demonstrated a clear increase. Although it was found on fewer than one per cent of the 10,000 most visited websites in 2013, later measurements reported its presence on approximately one quarter of major websites by 2021 [1].

These unique identifiers may be used for purposes such as advertising, analytics, fraud prevention, bot detection, and the identification of repeat visitors such as web-scrapers. Browser fingerprinting can also enable unwanted profiling across browsing sessions and, if the data are shared, across multiple websites.

The ability to 'dupe' browser fingerprinting therefore has value to users that want to repeatedly pull page data from specific websites without maintaining a singular fingerprint that persists and can be tracked across sessions, and if the fingerprints are shared with 3rd parties, across multiple websites. This can reduce the user's susceptibility to unwanted marketing, profiling, or limiting of web-scraping capabilities by employers of fingerprint tracking.

2 Statement of Need

The field of fingerprinting aims to identify users visiting a website and calculate and assign them a visitor id (the calculated browser fingerprint) to track their activities or interests. These techniques are now well-established and, as mentioned above, are commonly used. This means that a software tool to obfuscate and reduce the replicability of the visitor id over different user sessions is of increasing interest.

Such tools for examining and obfuscating browser fingerprints can also be valuable for privacy research and evaluating whether fingerprinting systems remain stable when browser properties are modified.

FingerprintObfuscation addresses these needs by providing configurable fingerprint interference techniques through a Python package intended for controlled browser automation.

The package is intended for authorised testing of fingerprinting systems, privacy research, defensive evaluation, or acceptable uses of web-scraping. Users remain responsible for complying with applicable law, website terms, access controls, and research-ethics requirements.

3 State of the Field

Browser fingerprinting is commonly applied through scripts, typically JavaScript, that execute when a website is accessed [2, 3]. These scripts collect information about the browser and the underlying computer [4].

Collected attributes may include:

- Operating system and platform information
- Browser name and version
- Language and locale
- Screen dimensions and colour depth
- Installed or available fonts
- Canvas and WebGL rendering characteristics
- Audio-processing behaviour
- Browser APIs, plugins, and media-device properties

Individual fingerprinting techniques vary in their distinctiveness. Canvas fingerprinting, for example, has been reported to achieve substantial identification accuracy, although estimates depend on the dataset, implementation, and definition of accuracy [5]. Combining multiple signals can make the calculated fingerprint substantially more distinctive [6]. Earlier large-scale research found that only one in 286,777 observed browsers shared a particular fingerprint [7].

Existing countermeasures are often browser extensions that must be installed and configured manually. This limits their suitability for repeatable experiments and Python-controlled browser automation. **FingerprintObfuscation** was created to fill this gap by allowing selected obfuscation methods to be applied programmatically to a Firefox WebDriver session.

The following list demonstrates tools that provide browser fingerprint obfuscation through extensions or Add-Ons for Firefox-based browsers. These examples include:

- AudioContext Scrambler [8]
- CanvasBlocker [9]
- Font Fingerprint Defender [10]

- WebGL Fingerprint Defender [11]
- Fingerprint Defender [12]

These tools provide capabilities similar to some of those implemented by `FingerprintObfuscation`, but they are primarily distributed as browser Add-Ons. Consequently, users must generally manage their installation and configuration through the browser rather than through a Python API.

`FingerprintObfuscation` was developed as a separate package because its principal design goal is integration with browser-automation workflows. The package creates and configures browser drivers on behalf of the user, installs selected temporary extensions, and opens a specified endpoint under a defined obfuscation configuration.

This design occupies a niche between demonstration scripts, general-purpose scraping frameworks, and manually configured privacy extensions. It supports repeatable experiments in which obfuscation methods can be enabled, disabled, and combined dynamically.

4 Software Design

`FingerprintObfuscation` is organised around four design principles:

1. Provide a modular, object-oriented, and user-friendly API
2. Follow established Python community conventions, including PEP 8
3. Give users explicit control over the techniques applied in each browser session
4. Generate and install temporary extension components at runtime

The package provides interference methods for the following fingerprinting obfuscation techniques:

- Audio
- Battery
- Canvas
- ClientRects
- Fonts
- Navigator
- Screen
- WebGL
- WebRTC

These methods can be applied individually or layered to investigate how combinations of modified signals affect a calculated browser fingerprint. The current implementation supports Firefox.

The user can use the package to build the extension files needed for the selected techniques and install them in the Firefox WebDriver session. The generated extensions are unsigned and temporary and are not intended to persist after the browser session ends.

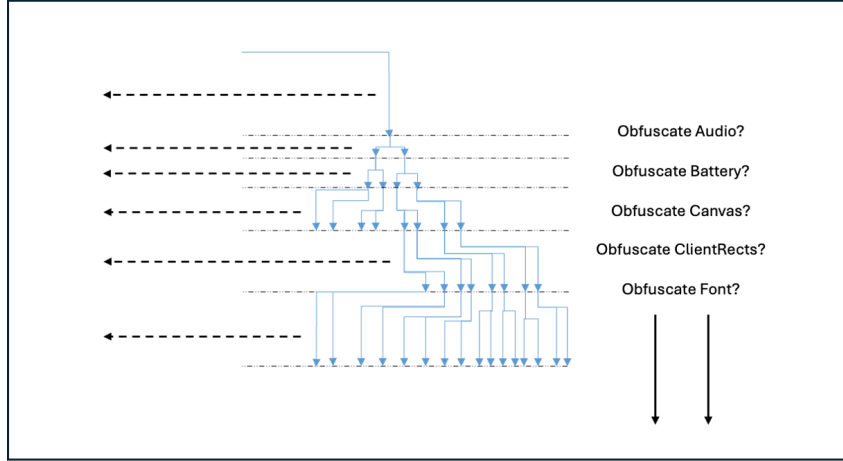


Figure 1: A visual representation of how the FingerprintObfuscation library should be deployed by layering multiple techniques for obfuscation.

The API is designed to be called by a Python program that controls an authorised browser-automation task. The `FingerprintObfuscation` experimental configuration can also be changed without restructuring the surrounding application.

5 Experimental Evaluation

The evaluation was conducted by running the TDD test suite defined in the BrowserFingerprintingUtilisation repository [13].

Here we examined whether individual and combined obfuscation techniques changed the visitor identifier calculated by the open-source FingerprintJS implementation [2, 3].

A baseline visitor identifier was first collected without the temporary obfuscation Add-Ons. Each selected technique or combination of techniques was then applied in a separate browser session. The observed visitor identifiers were compared with the baseline and across repeated runs.

In the result figures, grey represents the initial baseline fingerprint, red represents no variation from that baseline fingerprint, and green represents a variation from it which was not matched by any other variation. We have also identified where a variation on the baseline fingerprint was repeated elsewhere. Orange represents a case where the FingerprintJS software failed to calculate a fingerprint during the web-scraping process.

Initial	
No Variation	
Variation, Does Not Match Any Other Values Generated	
Variation with Initial, But Equal to Other Attempts of Interference #1	Consistent Variation #1
Variation with Initial, But Equal to Other Attempts of Interference #2	Consistent Variation #2
Variation with Initial, But Equal to Other Attempts of Interference #3	Consistent Variation #3
Variation with Initial, But Equal to Other Attempts of Interference #4	Consistent Variation #4
Occurrence Where the Fingerprint Was Not Calculated and Supplied In Time	N/A

Figure 2: Colour key used to represent baseline, unchanged, and changed fingerprint results.

We can see all the results from three runs have been provided in the Appendix section.

`FingerprintObfuscation` demonstrated the ability to counter the combination of known fingerprinting techniques employed by major fingerprinting vendors, like FingerprintJS [2, 3], which

are used to calculate an overall fingerprint.

Here, we saw that successively combining these techniques produced increased variance in the final fingerprint id/ visitor id.

The result was that combining these techniques could produce complete variation in the fingerprint visitor id produced by software like FingerprintJS [2, 3].

5.1 Canvas-Related Results

There was noticeable behaviour when we used our Canvas obfuscation temporary Add-On both as a singular and in conjunction with other obfuscation tools.

Canvas interference changed the resulting visitor identifier relative to the baseline.

However, repeated configurations involving canvas interference produced a limited set of consistent fingerprint variations, including when canvas was combined with battery, clientRects, font, webGL, or webRTC interference.

Four recurring configurations were observed:

1. **Variation 1:** canvas interference alone, or canvas combined with one or more of battery, clientRects, font, webGL, and webRTC interference
2. **Variation 2:** canvas and navigator interference, optionally combined with one or more of battery, clientRects, font, webGL, and webRTC interference
3. **Variation 3:** canvas and screen interference, optionally combined with one or more of battery, clientRects, font, webGL, and webRTC interference
4. **Variation 4:** canvas, navigator, and screen interference, optionally combined with one or more of battery, clientRects, font, webGL, and webRTC interference

The canvas technique introduced mathematical noise into rendered pixel data so that the canvas output differed from the unmodified result. The navigator technique overwrote selected navigator properties, including returning an empty array for `navigator.plugins`, as part of a blending strategy. The screen technique also followed a common, fixed configuration consisting of a 1920-by-1080 resolution and a 24-bit colour depth.

Tested Combinations of Fingerprints Using Canvas Variation			
No interference			
canvas	Consistent Variation #1	canvas, navigator, screen, webgl	Consistent Variation #4
audio, canvas		canvas, navigator, screen, webRTC	Consistent Variation #4
battery, canvas	Consistent Variation #1	canvas, navigator, webgl, webRTC	Consistent Variation #2
canvas, clientRects	Consistent Variation #1	canvas, screen, webgl, webRTC	Consistent Variation #3
canvas, font	Consistent Variation #1	audio, battery, canvas, clientRects, font	
canvas, navigator	Consistent Variation #2	audio, battery, canvas, clientRects, navigator	
canvas, screen	Consistent Variation #3	audio, battery, canvas, clientRects, screen	
canvas, webgl	Consistent Variation #1	audio, battery, canvas, clientRects, webgl	
canvas, webRTC	Consistent Variation #1	audio, battery, canvas, clientRects, webRTC	
audio, battery, canvas		audio, battery, canvas, font, navigator	
battery, canvas, clientRects	Consistent Variation #1	audio, battery, canvas, font, screen	
battery, canvas, font	Consistent Variation #1	audio, battery, canvas, font, webgl	
battery, canvas, navigator	Consistent Variation #2	audio, battery, canvas, font, webRTC	
battery, canvas, screen	Consistent Variation #3	audio, battery, canvas, navigator, screen	
battery, canvas, webgl	Consistent Variation #1	audio, battery, canvas, navigator, webgl	
battery, canvas, webRTC	Consistent Variation #1	audio, battery, canvas, navigator, webRTC	
canvas, clientRects, font	Consistent Variation #1	audio, battery, canvas, screen, webgl	
canvas, clientRects, navigator	Consistent Variation #2	audio, battery, canvas, screen, webRTC	
canvas, clientRects, screen	Consistent Variation #3	audio, battery, canvas, webgl, webRTC	
canvas, clientRects, webgl	Consistent Variation #1	audio, canvas, clientRects, font, navigator	
canvas, clientRects, webRTC	Consistent Variation #1	audio, canvas, clientRects, font, screen	
audio, battery, canvas, clientRects		audio, canvas, clientRects, font, webgl	
audio, battery, canvas, font		audio, canvas, clientRects, font, webRTC	
audio, battery, canvas, navigator		audio, canvas, clientRects, navigator, screen	
audio, battery, canvas, screen		audio, canvas, clientRects, navigator, webgl	
audio, battery, canvas, webgl		audio, canvas, clientRects, navigator, webRTC	
audio, battery, canvas, webRTC		audio, canvas, clientRects, screen, webgl	
audio, canvas, clientRects, font		audio, canvas, clientRects, screen, webRTC	
audio, canvas, clientRects, navigator		audio, canvas, clientRects, webgl, webRTC	
audio, canvas, clientRects, screen		audio, canvas, font, navigator, screen	
audio, canvas, clientRects, webgl		audio, canvas, font, navigator, webgl	
audio, canvas, clientRects, webRTC		audio, canvas, font, navigator, webRTC	
audio, canvas, font, navigator		audio, canvas, font, screen, webgl	
audio, canvas, font, screen		audio, canvas, font, screen, webRTC	
audio, canvas, font, webgl		audio, canvas, font, webgl, webRTC	
audio, canvas, font, webRTC		audio, canvas, navigator, screen, webgl	
audio, canvas, navigator, screen		audio, canvas, navigator, screen, webRTC	
audio, canvas, navigator, webgl		audio, canvas, navigator, webgl, webRTC	
audio, canvas, navigator, webRTC		audio, canvas, screen, webgl, webRTC	
audio, canvas, screen, webgl			Consistent Variation #2
audio, canvas, screen, webRTC		battery, canvas, clientRects, font, navigator	Consistent Variation #3
audio, canvas, webgl, webRTC		battery, canvas, clientRects, font, screen	Consistent Variation #1
battery, canvas, clientRects, font	Consistent Variation #1	battery, canvas, clientRects, font, webgl	Consistent Variation #1
battery, canvas, clientRects, navigator	Consistent Variation #2	battery, canvas, clientRects, font, webRTC	Consistent Variation #1
battery, canvas, clientRects, screen	Consistent Variation #3	battery, canvas, clientRects, navigator, screen	Consistent Variation #4
battery, canvas, clientRects, webgl	Consistent Variation #1	battery, canvas, clientRects, navigator, webgl	Consistent Variation #2
battery, canvas, clientRects, webRTC	Consistent Variation #1	battery, canvas, clientRects, navigator, webRTC	Consistent Variation #2
battery, canvas, font, navigator	Consistent Variation #2	battery, canvas, clientRects, screen, webgl	Consistent Variation #3
battery, canvas, font, screen	Consistent Variation #3	battery, canvas, clientRects, screen, webRTC	Consistent Variation #3
battery, canvas, font, webgl	Consistent Variation #1	battery, canvas, clientRects, screen, webRTC	Consistent Variation #1
battery, canvas, font, webRTC	Consistent Variation #1	battery, canvas, clientRects, webgl, webRTC	Consistent Variation #1
battery, canvas, navigator, screen	Consistent Variation #2	battery, canvas, font, navigator, screen	Consistent Variation #4
battery, canvas, navigator, webgl	Consistent Variation #2	battery, canvas, font, navigator, webgl	Consistent Variation #2
battery, canvas, navigator, webRTC	Consistent Variation #2	battery, canvas, font, navigator, webRTC	Consistent Variation #2
battery, canvas, screen, webgl	Consistent Variation #3	battery, canvas, font, screen, webgl	Consistent Variation #3
battery, canvas, screen, webRTC	Consistent Variation #3	battery, canvas, font, screen, webRTC	Consistent Variation #3
battery, canvas, webgl, webRTC	Consistent Variation #1	battery, canvas, font, webgl, webRTC	Consistent Variation #1
canvas, clientRects, font, navigator	Consistent Variation #2	battery, canvas, navigator, screen, webgl	Consistent Variation #4
canvas, clientRects, font, screen	Consistent Variation #3	battery, canvas, navigator, screen, webRTC	Consistent Variation #2
canvas, clientRects, font, webgl	Consistent Variation #1	battery, canvas, navigator, webgl, webRTC	Consistent Variation #2
canvas, clientRects, font, webRTC	Consistent Variation #1	battery, canvas, screen, webgl, webRTC	Consistent Variation #3
canvas, clientRects, navigator, screen	Consistent Variation #4	canvas, clientRects, font, navigator, screen	Consistent Variation #3
canvas, clientRects, navigator, webgl	Consistent Variation #2	canvas, clientRects, font, navigator, webgl	Consistent Variation #2
canvas, clientRects, navigator, webRTC	Consistent Variation #2	canvas, clientRects, font, navigator, webRTC	Consistent Variation #2
canvas, clientRects, screen, webgl	Consistent Variation #3	canvas, clientRects, font, screen, webgl	Consistent Variation #3
canvas, clientRects, screen, webRTC	Consistent Variation #3	canvas, clientRects, font, screen, webRTC	Consistent Variation #3
canvas, clientRects, webgl, webRTC	Consistent Variation #1	canvas, clientRects, font, webgl, webRTC	Consistent Variation #1
canvas, font, navigator, screen	Consistent Variation #4	canvas, clientRects, navigator, screen, webgl	Consistent Variation #4
canvas, font, navigator, webgl	Consistent Variation #2	canvas, clientRects, navigator, screen, webRTC	Consistent Variation #4
canvas, font, navigator, webRTC	Consistent Variation #2	canvas, clientRects, navigator, webgl, webRTC	Consistent Variation #2
canvas, font, screen, webgl	Consistent Variation #3	canvas, clientRects, screen, webgl, webRTC	Consistent Variation #3
canvas, font, screen, webRTC	Consistent Variation #3	canvas, font, navigator, screen, webgl	Consistent Variation #4
canvas, font, webgl, webRTC	Consistent Variation #3	canvas, font, navigator, screen, webRTC	Consistent Variation #4
canvas, font, webgl, webRTC	Consistent Variation #1	canvas, font, navigator, webgl, webRTC	Consistent Variation #2
canvas, navigator, screen, webgl, webRTC		canvas, font, screen, webgl, webRTC	Consistent Variation #3

Figure 3: Fingerprint variations associated with canvas interference across runs 1-3.

The fixed navigator and screen values appear to explain why certain combinations produced stable variations rather than a new identifier in every session.

These observations are specific to the tested implementation and configuration and should not be interpreted as universal results for every fingerprinting vendor or browser version.

5.2 The Exception We Observed With Audio-Related Results

The principal exception to the recurring canvas variations occurred when canvas interference was combined with audio interference. Under the tested configuration, the resulting visitor identifier varied between browser sessions.

The audio technique modified output from `AudioContext` and `OfflineAudioContext`. It achieved this by adding small floating-point perturbations in the range -0.0001 to 0.0001 and byte perturbations in the range -1 to 1 to selected audio values. The canvas method, instead modified

the pixel values in rendered image data.

The results suggest that the tested FingerprintJS configuration was more stable under the implemented canvas perturbations than under the audio perturbations.

Again, as with above, this conclusion is limited to the tested browser, software versions, scripts, and the experimental environment.

5.3 Other Techniques

Battery, clientRects, font, webGL, and webRTC interference did not alter the recurring canvas-related variation categories when they were stacked with canvas, navigator, or screen interference. When tested outside those canvas configurations, these techniques produced different FingerprintJS visitor identifiers across subsequent browser sessions.

Navigator and screen interference also produced distinctly different identifiers between sessions when they were tested without canvas interference.

These observations indicate that interactions between fingerprinting techniques, when implemented, can be as important as the effect of any single modified surface.

6 Research Impact

FingerprintObfuscation provides a repeatable way to study the response of browser fingerprinting systems to individual and layered interference methods. Its primary research contribution is the integration of temporary browser modifications with Python-controlled Firefox sessions.

The experiments demonstrate that combining obfuscation methods does not always result in simple additive behaviour. Some combinations produce stable alternative fingerprints, whereas others produce variation between browser sessions. This makes the package useful for examining interactions among ingerpinting signals and for stress-testing the assumptions used by fingerprinting implementations.

The results also illustrate an important limitation of evaluating obfuscation solely by whether a visitor identifier changes. A changed identifier may still be stable and therefore trackable.

7 Limitations and Future Work

The current package and evaluation have several limitations:

- Only Firefox is currently supported
- The evaluation focuses primarily on the open-source FingerprintJS implementation
- Results may depend on browser, operating-system, package, and fingerprinting-library versions
- Changing an identifier does not necessarily by itself establish anonymity or provide consistent resistance to tracking from all fingerprinting software, but instead is meant to contribute to variance of the resultant fingerprint calculation
- Fixed spoofed values may create inconsistencies with other browser properties

Future work should include testing against additional fingerprinting implementations, improving configuration consistency, and examining support for additional browsers.

8 Availability

Source repository

<https://github.com/PeterAFockema/FingerprintObfuscation>

Test repository

<https://github.com/PeterAFockema/BrowserFingerprintUtilisation>

Licence

Apache License 2.0.

Supported environment

Python 3.10.5, Firefox Version 152.0.4, Windows OS Version 10.0.26200.

AI Usage Disclosure

No generative AI tools were used in the development of the software.

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Author Contributions

We (the author) conceived the project, developed the software, designed and performed the experiments, analysed the results, and wrote the manuscript.

Conflict of Interest

We (the author) declare no competing interests.

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Appendix: A Collection of the Results Observed Over Three Runs

The following demonstrates three runs where we cycled through combinations of the techniques defined in the Software Design section of the paper.

Run 1

Tested Combinations of Fingerprints #1, Run at 2026-07-01 23:15:42.968814

Figure 4: The run number, date and time for this sets of tests.

No interference	
audio	
battery	
canvas	Consistent Variation #1
clientRects	
font	
navigator	
screen	
webgl	
webRTC	

Figure 5: The base results for no fingerprint obfuscation, and audio, battery, canvas, clientRects, font, screen, navigator, webGL, webRTC obfuscations when not in combination.

audio, battery	
audio, canvas	
audio, clientRects	
audio, font	
audio, navigator	
audio, screen	
audio, webgl	
audio, webRTC	

Figure 6: The results for audio fingerprint obfuscation combined with one other fingerprint obfuscation technique.

battery, canvas	Consistent Variation #1
battery, clientRects	
battery, font	
battery, navigator	
battery, screen	
battery, webgl	
battery, webRTC	

Figure 7: The results for battery fingerprint obfuscation combined with one other fingerprint obfuscation technique.

canvas, clientRects	Consistent Variation #1
canvas, font	Consistent Variation #1
canvas, navigator	Consistent Variation #2
canvas, screen	Consistent Variation #3
canvas, webgl	Consistent Variation #1
canvas, webRTC	Consistent Variation #1

Figure 8: The results for canvas fingerprint obfuscation combined with one other fingerprint obfuscation technique.

clientRects, font	
clientRects, navigator	
clientRects, screen	
clientRects, webgl	
clientRects, webRTC	

Figure 9: The results for clientRects fingerprint obfuscation combined with one other fingerprint obfuscation technique.

font, navigator	
font, screen	
font, webgl	
font, webRTC	

Figure 10: The results for font fingerprint obfuscation combined with one other fingerprint obfuscation technique.

navigator, screen	
navigator, webgl	
navigator, webRTC	

Figure 11: The results for navigator fingerprint obfuscation combined with one other fingerprint obfuscation technique.

screen, webgl	
screen, webRTC	

Figure 12: The results for screen fingerprint obfuscation combined with one other fingerprint obfuscation technique.

webgl, webRTC	
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Figure 13: The results for webGL fingerprint obfuscation combined with one other fingerprint obfuscation technique.

audio, battery, canvas	
audio, battery, clientRects	
audio, battery, font	
audio, battery, navigator	
audio, battery, screen	
audio, battery, webgl	
audio, battery, webRTC	

Figure 14: The results for audio fingerprint obfuscation combined with two other fingerprint obfuscation techniques.

battery, canvas, clientRects	Consistent Variation #1
battery, canvas, font	Consistent Variation #1
battery, canvas, navigator	Consistent Variation #2
battery, canvas, screen	Consistent Variation #3
battery, canvas, webgl	Consistent Variation #1
battery, canvas, webRTC	Consistent Variation #1

Figure 15: The results for battery fingerprint obfuscation combined with two other fingerprint obfuscation techniques.

canvas, clientRects, font	Consistent Variation #1
canvas, clientRects, navigator	Consistent Variation #2
canvas, clientRects, screen	Consistent Variation #3
canvas, clientRects, webgl	Consistent Variation #1
canvas, clientRects, webRTC	Consistent Variation #1

Figure 16: The results for canvas fingerprint obfuscation combined with two other fingerprint obfuscation techniques.

clientRects, font, navigator	
clientRects, font, screen	
clientRects, font, webgl	
clientRects, font, webRTC	

Figure 17: The results for clientRects fingerprint obfuscation combined with two other fingerprint obfuscation techniques.

font, navigator, screen	
font, navigator, webgl	
font, navigator, webRTC	

Figure 18: The results for font fingerprint obfuscation combined with two other fingerprint obfuscation techniques.

navigator, screen, webgl	
navigator, screen, webRTC	

Figure 19: The results for navigator fingerprint obfuscation combined with two other fingerprint obfuscation techniques.

screen, webgl, webRTC	
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Figure 20: The results for screen fingerprint obfuscation combined with two other fingerprint obfuscation techniques.

audio, battery, canvas, clientRects	
audio, battery, canvas, font	
audio, battery, canvas, navigator	
audio, battery, canvas, screen	
audio, battery, canvas, webgl	
audio, battery, canvas, webRTC	
audio, battery, clientRects, font	
audio, battery, clientRects, navigator	
audio, battery, clientRects, screen	
audio, battery, clientRects, webgl	
audio, battery, clientRects, webRTC	
audio, battery, font, navigator	
audio, battery, font, screen	
audio, battery, font, webgl	
audio, battery, font, webRTC	
audio, battery, navigator, screen	
audio, battery, navigator, webgl	
audio, battery, navigator, webRTC	
audio, battery, screen, webgl	
audio, battery, screen, webRTC	
audio, battery, webgl, webRTC	
audio, canvas, clientRects, font	
audio, canvas, clientRects, navigator	
audio, canvas, clientRects, screen	
audio, canvas, clientRects, webgl	
audio, canvas, clientRects, webRTC	
audio, canvas, font, navigator	
audio, canvas, font, screen	
audio, canvas, font, webgl	
audio, canvas, font, webRTC	
audio, canvas, navigator, screen	
audio, canvas, navigator, webgl	
audio, canvas, navigator, webRTC	
audio, canvas, screen, webgl	
audio, canvas, screen, webRTC	
audio, canvas, webgl, webRTC	

Figure 21: Part 1 of the results for audio fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

audio, clientRects, font, navigator	
audio, clientRects, font, screen	
audio, clientRects, font, webgl	
audio, clientRects, font, webRTC	
audio, clientRects, navigator, screen	
audio, clientRects, navigator, webgl	
audio, clientRects, navigator, webRTC	
audio, clientRects, screen, webgl	
audio, clientRects, screen, webRTC	
audio, clientRects, webgl, webRTC	
audio, font, navigator, screen	
audio, font, navigator, webgl	
audio, font, navigator, webRTC	
audio, font, screen, webgl	
audio, font, screen, webRTC	
audio, font, webgl, webRTC	
audio, navigator, screen, webgl	
audio, navigator, screen, webRTC	
audio, navigator, webgl, webRTC	
audio, screen, webgl, webRTC	

Figure 22: Part 2 of the results for audio fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

battery, canvas, clientRects, font	Consistent Variation #1
battery, canvas, clientRects, navigator	Consistent Variation #2
battery, canvas, clientRects, screen	Consistent Variation #3
battery, canvas, clientRects, webgl	Consistent Variation #1
battery, canvas, clientRects, webRTC	Consistent Variation #1
battery, canvas, font, navigator	Consistent Variation #2
battery, canvas, font, screen	Consistent Variation #3
battery, canvas, font, webgl	Consistent Variation #1
battery, canvas, font, webRTC	Consistent Variation #1
battery, canvas, navigator, screen	Consistent Variation #4
battery, canvas, navigator, webgl	Consistent Variation #2
battery, canvas, navigator, webRTC	Consistent Variation #2
battery, canvas, screen, webgl	Consistent Variation #3
battery, canvas, screen, webRTC	Consistent Variation #3
battery, canvas, webgl, webRTC	Consistent Variation #1
battery, clientRects, font, navigator	
battery, clientRects, font, screen	
battery, clientRects, font, webgl	
battery, clientRects, font, webRTC	
battery, clientRects, navigator, screen	
battery, clientRects, navigator, webgl	
battery, clientRects, navigator, webRTC	
battery, clientRects, screen, webgl	
battery, clientRects, screen, webRTC	
battery, clientRects, webgl, webRTC	
battery, font, navigator, screen	
battery, font, navigator, webgl	
battery, font, navigator, webRTC	
battery, font, screen, webgl	
battery, font, screen, webRTC	
battery, font, webgl, webRTC	
battery, navigator, screen, webgl	
battery, navigator, screen, webRTC	

Figure 23: Part 1 of the results for battery fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

battery, navigator, webgl, webRTC	
battery, screen, webgl, webRTC	

Figure 24: Part 2 of the results for battery fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

canvas, clientRects, font, navigator	Consistent Variation #2
canvas, clientRects, font, screen	Consistent Variation #3
canvas, clientRects, font, webgl	Consistent Variation #1
canvas, clientRects, font, webRTC	Consistent Variation #1
canvas, clientRects, navigator, screen	Consistent Variation #4
canvas, clientRects, navigator, webgl	Consistent Variation #2
canvas, clientRects, navigator, webRTC	Consistent Variation #2
canvas, clientRects, screen, webgl	Consistent Variation #3
canvas, clientRects, screen, webRTC	Consistent Variation #3
canvas, clientRects, webgl, webRTC	Consistent Variation #1
canvas, font, navigator, screen	Consistent Variation #4
canvas, font, navigator, webgl	Consistent Variation #2
canvas, font, navigator, webRTC	Consistent Variation #2
canvas, font, screen, webgl	Consistent Variation #3
canvas, font, screen, webRTC	Consistent Variation #3
canvas, font, webgl, webRTC	Consistent Variation #1
canvas, navigator, screen, webgl	Consistent Variation #4
canvas, navigator, screen, webRTC	Consistent Variation #4
canvas, navigator, webgl, webRTC	Consistent Variation #2
canvas, screen, webgl, webRTC	Consistent Variation #3

Figure 25: The results for canvas fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

clientRects, font, navigator, screen	
clientRects, font, navigator, webgl	
clientRects, font, navigator, webRTC	
clientRects, font, screen, webgl	
clientRects, font, screen, webRTC	
clientRects, font, webgl, webRTC	
clientRects, navigator, screen, webgl	
clientRects, navigator, screen, webRTC	
clientRects, navigator, webgl, webRTC	
clientRects, screen, webgl, webRTC	

Figure 26: The results for clientRects fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

font, navigator, screen, webgl	
font, navigator, screen, webRTC	
font, navigator, webgl, webRTC	
font, screen, webgl, webRTC	

Figure 27: The results for font fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

navigator, screen, webgl, webRTC	
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Figure 28: The results for navigator fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

audio, battery, canvas, clientRects, font	
audio, battery, canvas, clientRects, navigator	
audio, battery, canvas, clientRects, screen	
audio, battery, canvas, clientRects, webgl	
audio, battery, canvas, clientRects, webRTC	
audio, battery, canvas, font, navigator	
audio, battery, canvas, font, screen	
audio, battery, canvas, font, webgl	
audio, battery, canvas, font, webRTC	
audio, battery, canvas, navigator, screen	
audio, battery, canvas, navigator, webgl	
audio, battery, canvas, navigator, webRTC	
audio, battery, canvas, screen, webgl	
audio, battery, canvas, screen, webRTC	
audio, battery, canvas, webgl, webRTC	
audio, battery, clientRects, font, navigator	
audio, battery, clientRects, font, screen	
audio, battery, clientRects, font, webgl	
audio, battery, clientRects, font, webRTC	
audio, battery, clientRects, navigator, screen	
audio, battery, clientRects, navigator, webgl	
audio, battery, clientRects, navigator, webRTC	
audio, battery, clientRects, screen, webgl	
audio, battery, clientRects, screen, webRTC	
audio, battery, clientRects, webgl, webRTC	
audio, battery, font, navigator, screen	
audio, battery, font, navigator, webgl	
audio, battery, font, navigator, webRTC	
audio, battery, font, screen, webgl	
audio, battery, font, screen, webRTC	
audio, battery, font, webgl, webRTC	
audio, battery, navigator, screen, webgl	
audio, battery, navigator, screen, webRTC	
audio, battery, navigator, webgl, webRTC	
audio, battery, screen, webgl, webRTC	

Figure 29: Part 1 of the results for audio fingerprint obfuscation combined with four other fingerprint obfuscation techniques.

audio, canvas, clientRects, font, navigator	
audio, canvas, clientRects, font, screen	
audio, canvas, clientRects, font, webgl	
audio, canvas, clientRects, font, webRTC	
audio, canvas, clientRects, navigator, screen	
audio, canvas, clientRects, navigator, webgl	
audio, canvas, clientRects, navigator, webRTC	
audio, canvas, clientRects, screen, webgl	
audio, canvas, clientRects, screen, webRTC	
audio, canvas, clientRects, webgl, webRTC	
audio, canvas, font, navigator, screen	
audio, canvas, font, navigator, webgl	
audio, canvas, font, navigator, webRTC	
audio, canvas, font, screen, webgl	
audio, canvas, font, screen, webRTC	
audio, canvas, font, webgl, webRTC	
audio, canvas, navigator, screen, webgl	
audio, canvas, navigator, screen, webRTC	
audio, canvas, navigator, webgl, webRTC	
audio, canvas, screen, webgl, webRTC	
audio, clientRects, font, navigator, screen	
audio, clientRects, font, navigator, webgl	
audio, clientRects, font, navigator, webRTC	
audio, clientRects, font, screen, webgl	
audio, clientRects, font, screen, webRTC	
audio, clientRects, font, webgl, webRTC	
audio, clientRects, navigator, screen, webgl	
audio, clientRects, navigator, screen, webRTC	
audio, clientRects, navigator, webgl, webRTC	
audio, clientRects, screen, webgl, webRTC	
audio, font, navigator, screen, webgl	
audio, font, navigator, screen, webRTC	
audio, font, navigator, webgl, webRTC	
audio, font, screen, webgl, webRTC	
audio, navigator, screen, webgl, webRTC	

Figure 30: Part 2 of the results for audio fingerprint obfuscation combined with four other fingerprint obfuscation techniques.

battery, canvas, clientRects, font, navigator	Consistent Variation #2
battery, canvas, clientRects, font, screen	Consistent Variation #3
battery, canvas, clientRects, font, webgl	Consistent Variation #1
battery, canvas, clientRects, font, webRTC	Consistent Variation #1
battery, canvas, clientRects, navigator, screen	Consistent Variation #4
battery, canvas, clientRects, navigator, webgl	Consistent Variation #2
battery, canvas, clientRects, navigator, webRTC	Consistent Variation #2
battery, canvas, clientRects, screen, webgl	Consistent Variation #3
battery, canvas, clientRects, screen, webRTC	Consistent Variation #3
battery, canvas, clientRects, webgl, webRTC	Consistent Variation #1
battery, canvas, font, navigator, screen	Consistent Variation #4
battery, canvas, font, navigator, webgl	Consistent Variation #2
battery, canvas, font, navigator, webRTC	Consistent Variation #2
battery, canvas, font, screen, webgl	Consistent Variation #3
battery, canvas, font, screen, webRTC	Consistent Variation #3
battery, canvas, font, webgl, webRTC	Consistent Variation #1
battery, canvas, navigator, screen, webgl	Consistent Variation #4
battery, canvas, navigator, screen, webRTC	Consistent Variation #4
battery, canvas, navigator, webgl, webRTC	Consistent Variation #2
battery, canvas, screen, webgl, webRTC	Consistent Variation #3
battery, clientRects, font, navigator, screen	
battery, clientRects, font, navigator, webgl	
battery, clientRects, font, navigator, webRTC	
battery, clientRects, font, screen, webgl	
battery, clientRects, font, screen, webRTC	
battery, clientRects, font, webgl, webRTC	
battery, clientRects, navigator, screen, webgl	
battery, clientRects, navigator, screen, webRTC	
battery, clientRects, navigator, webgl, webRTC	
battery, clientRects, screen, webgl, webRTC	
battery, font, navigator, screen, webgl	
battery, font, navigator, screen, webRTC	
battery, font, navigator, webgl, webRTC	
battery, font, screen, webgl, webRTC	
battery, navigator, screen, webgl, webRTC	

Figure 31: The results for battery fingerprint obfuscation combined with four other fingerprint obfuscation techniques.

canvas, clientRects, font, navigator, screen	Consistent Variation #4
canvas, clientRects, font, navigator, webgl	Consistent Variation #2
canvas, clientRects, font, navigator, webRTC	Consistent Variation #2
canvas, clientRects, font, screen, webgl	Consistent Variation #3
canvas, clientRects, font, screen, webRTC	Consistent Variation #3
canvas, clientRects, font, webgl, webRTC	Consistent Variation #1
canvas, clientRects, navigator, screen, webgl	Consistent Variation #4
canvas, clientRects, navigator, screen, webRTC	Consistent Variation #4
canvas, clientRects, navigator, webgl, webRTC	Consistent Variation #2
canvas, clientRects, screen, webgl, webRTC	Consistent Variation #3
canvas, font, navigator, screen, webgl	Consistent Variation #4
canvas, font, navigator, screen, webRTC	Consistent Variation #4
canvas, font, navigator, webgl, webRTC	Consistent Variation #2
canvas, font, screen, webgl, webRTC	Consistent Variation #3
canvas, navigator, screen, webgl, webRTC	Consistent Variation #4

Figure 32: The results for canvas fingerprint obfuscation combined with four other fingerprint obfuscation techniques.

clientRects, font, navigator, screen, webgl	
clientRects, font, navigator, screen, webRTC	
clientRects, font, navigator, webgl, webRTC	
clientRects, font, screen, webgl, webRTC	
clientRects, navigator, screen, webgl, webRTC	

Figure 33: The results for clientRects fingerprint obfuscation combined with four other fingerprint obfuscation techniques.

font, navigator, screen, webgl, webRTC	
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Figure 34: The results for font fingerprint obfuscation combined with four other fingerprint obfuscation techniques.

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Run 2

Tested Combinations of Fingerprints #2, Run at 2026-07-02 22:07:58.886801
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Figure 35: The run number, date and time for this sets of tests.

No interference	
audio	
battery	
canvas	Consistent Variation #1
clientRects	
font	
navigator	
screen	
webgl	
webRTC	

Figure 36: The base results for no fingerprint obfuscation, and audio, battery, canvas, clientRects, font, screen, navigator, webGL, webRTC obfuscations when not in combination.

audio, battery	
audio, canvas	
audio, clientRects	
audio, font	
audio, navigator	
audio, screen	
audio, webgl	
audio, webRTC	

Figure 37: The results for audio fingerprint obfuscation combined with one other fingerprint obfuscation technique.

battery, canvas	Consistent Variation #1
battery, clientRects	
battery, font	
battery, navigator	
battery, screen	
battery, webgl	
battery, webRTC	

Figure 38: The results for battery fingerprint obfuscation combined with one other fingerprint obfuscation technique.

canvas, clientRects	Consistent Variation #1
canvas, font	Consistent Variation #1
canvas, navigator	Consistent Variation #2
canvas, screen	Consistent Variation #3
canvas, webgl	Consistent Variation #1
canvas, webRTC	Consistent Variation #1

Figure 39: The results for canvas fingerprint obfuscation combined with one other fingerprint obfuscation technique.

clientRects, font	
clientRects, navigator	
clientRects, screen	
clientRects, webgl	
clientRects, webRTC	

Figure 40: The results for clientRects fingerprint obfuscation combined with one other fingerprint obfuscation technique.

font, navigator	
font, screen	
font, webgl	
font, webRTC	

Figure 41: The results for font fingerprint obfuscation combined with one other fingerprint obfuscation technique.

navigator, screen	
navigator, webgl	
navigator, webRTC	

Figure 42: The results for navigator fingerprint obfuscation combined with one other fingerprint obfuscation technique.

screen, webgl	
screen, webRTC	

Figure 43: The results for screen fingerprint obfuscation combined with one other fingerprint obfuscation technique.

webgl, webRTC	
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Figure 44: The results for webGL fingerprint obfuscation combined with one other fingerprint obfuscation technique.

audio, battery, canvas	
audio, battery, clientRects	
audio, battery, font	
audio, battery, navigator	
audio, battery, screen	
audio, battery, webgl	
audio, battery, webRTC	

Figure 45: The results for audio fingerprint obfuscation combined with two other fingerprint obfuscation techniques.

battery, canvas, clientRects	Consistent Variation #1
battery, canvas, font	Consistent Variation #1
battery, canvas, navigator	Consistent Variation #2
battery, canvas, screen	Consistent Variation #3
battery, canvas, webgl	Consistent Variation #1
battery, canvas, webRTC	Consistent Variation #1

Figure 46: The results for battery fingerprint obfuscation combined with two other fingerprint obfuscation techniques.

canvas, clientRects, font	Consistent Variation #1
canvas, clientRects, navigator	Consistent Variation #2
canvas, clientRects, screen	Consistent Variation #3
canvas, clientRects, webgl	Consistent Variation #1
canvas, clientRects, webRTC	Consistent Variation #1

Figure 47: The results for canvas fingerprint obfuscation combined with two other fingerprint obfuscation techniques.

clientRects, font, navigator	
clientRects, font, screen	
clientRects, font, webgl	
clientRects, font, webRTC	

Figure 48: The results for clientRects fingerprint obfuscation combined with two other fingerprint obfuscation techniques.

font, navigator, screen	
font, navigator, webgl	
font, navigator, webRTC	

Figure 49: The results for font fingerprint obfuscation combined with two other fingerprint obfuscation techniques.

navigator, screen, webgl	
navigator, screen, webRTC	

Figure 50: The results for navigator fingerprint obfuscation combined with two other fingerprint obfuscation techniques.

screen, webgl, webRTC	
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Figure 51: The results for screen fingerprint obfuscation combined with two other fingerprint obfuscation techniques.

audio, battery, canvas, clientRects	
audio, battery, canvas, font	
audio, battery, canvas, navigator	
audio, battery, canvas, screen	
audio, battery, canvas, webgl	
audio, battery, canvas, webRTC	
audio, battery, clientRects, font	
audio, battery, clientRects, navigator	
audio, battery, clientRects, screen	N/A
audio, battery, clientRects, webgl	
audio, battery, clientRects, webRTC	
audio, battery, font, navigator	
audio, battery, font, screen	
audio, battery, font, webgl	
audio, battery, font, webRTC	
audio, battery, navigator, screen	
audio, battery, navigator, webgl	
audio, battery, navigator, webRTC	
audio, battery, screen, webgl	
audio, battery, screen, webRTC	
audio, battery, webgl, webRTC	
audio, canvas, clientRects, font	
audio, canvas, clientRects, navigator	
audio, canvas, clientRects, screen	
audio, canvas, clientRects, webgl	
audio, canvas, clientRects, webRTC	
audio, canvas, font, navigator	
audio, canvas, font, screen	
audio, canvas, font, webgl	
audio, canvas, font, webRTC	
audio, canvas, navigator, screen	
audio, canvas, navigator, webgl	
audio, canvas, navigator, webRTC	
audio, canvas, screen, webgl	
audio, canvas, screen, webRTC	
audio, canvas, webgl, webRTC	

Figure 52: Part 1 of the results for audio fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

audio, clientRects, font, navigator	
audio, clientRects, font, screen	
audio, clientRects, font, webgl	
audio, clientRects, font, webRTC	
audio, clientRects, navigator, screen	
audio, clientRects, navigator, webgl	
audio, clientRects, navigator, webRTC	
audio, clientRects, screen, webgl	
audio, clientRects, screen, webRTC	
audio, clientRects, webgl, webRTC	
audio, font, navigator, screen	
audio, font, navigator, webgl	
audio, font, navigator, webRTC	
audio, font, screen, webgl	
audio, font, screen, webRTC	
audio, font, webgl, webRTC	
audio, navigator, screen, webgl	
audio, navigator, screen, webRTC	
audio, navigator, webgl, webRTC	
audio, screen, webgl, webRTC	

Figure 53: Part 2 of the results for audio fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

battery, canvas, clientRects, font	Consistent Variation #1
battery, canvas, clientRects, navigator	Consistent Variation #2
battery, canvas, clientRects, screen	Consistent Variation #3
battery, canvas, clientRects, webgl	Consistent Variation #1
battery, canvas, clientRects, webRTC	Consistent Variation #1
battery, canvas, font, navigator	Consistent Variation #2
battery, canvas, font, screen	Consistent Variation #3
battery, canvas, font, webgl	Consistent Variation #1
battery, canvas, font, webRTC	Consistent Variation #1
battery, canvas, navigator, screen	Consistent Variation #4
battery, canvas, navigator, webgl	Consistent Variation #2
battery, canvas, navigator, webRTC	Consistent Variation #2
battery, canvas, screen, webgl	Consistent Variation #3
battery, canvas, screen, webRTC	Consistent Variation #3
battery, canvas, webgl, webRTC	Consistent Variation #1
battery, clientRects, font, navigator	
battery, clientRects, font, screen	
battery, clientRects, font, webgl	
battery, clientRects, font, webRTC	
battery, clientRects, navigator, screen	
battery, clientRects, navigator, webgl	
battery, clientRects, navigator, webRTC	
battery, clientRects, screen, webgl	
battery, clientRects, screen, webRTC	
battery, clientRects, webgl, webRTC	
battery, font, navigator, screen	
battery, font, navigator, webgl	
battery, font, navigator, webRTC	
battery, font, screen, webgl	
battery, font, screen, webRTC	
battery, font, webgl, webRTC	
battery, navigator, screen, webgl	
battery, navigator, screen, webRTC	

Figure 54: Part 1 of the results for battery fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

battery, navigator, webgl, webRTC	
battery, screen, webgl, webRTC	

Figure 55: Part 2 of the results for battery fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

canvas, clientRects, font, navigator	Consistent Variation #2
canvas, clientRects, font, screen	Consistent Variation #3
canvas, clientRects, font, webgl	Consistent Variation #1
canvas, clientRects, font, webRTC	Consistent Variation #1
canvas, clientRects, navigator, screen	Consistent Variation #4
canvas, clientRects, navigator, webgl	Consistent Variation #2
canvas, clientRects, navigator, webRTC	Consistent Variation #2
canvas, clientRects, screen, webgl	Consistent Variation #3
canvas, clientRects, screen, webRTC	Consistent Variation #3
canvas, clientRects, webgl, webRTC	Consistent Variation #1
canvas, font, navigator, screen	Consistent Variation #4
canvas, font, navigator, webgl	Consistent Variation #2
canvas, font, navigator, webRTC	Consistent Variation #2
canvas, font, screen, webgl	Consistent Variation #3
canvas, font, screen, webRTC	Consistent Variation #3
canvas, font, webgl, webRTC	Consistent Variation #1
canvas, navigator, screen, webgl	Consistent Variation #4
canvas, navigator, screen, webRTC	Consistent Variation #4
canvas, navigator, webgl, webRTC	Consistent Variation #2
canvas, screen, webgl, webRTC	Consistent Variation #3

Figure 56: The results for canvas fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

clientRects, font, navigator, screen	
clientRects, font, navigator, webgl	
clientRects, font, navigator, webRTC	
clientRects, font, screen, webgl	
clientRects, font, screen, webRTC	
clientRects, font, webgl, webRTC	
clientRects, navigator, screen, webgl	
clientRects, navigator, screen, webRTC	
clientRects, navigator, webgl, webRTC	
clientRects, screen, webgl, webRTC	

Figure 57: The results for clientRects fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

font, navigator, screen, webgl	
font, navigator, screen, webRTC	
font, navigator, webgl, webRTC	
font, screen, webgl, webRTC	

Figure 58: The results for font fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

navigator, screen, webgl, webRTC	
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Figure 59: The results for navigator fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

audio, battery, canvas, clientRects, font	
audio, battery, canvas, clientRects, navigator	
audio, battery, canvas, clientRects, screen	
audio, battery, canvas, clientRects, webgl	
audio, battery, canvas, clientRects, webRTC	
audio, battery, canvas, font, navigator	
audio, battery, canvas, font, screen	
audio, battery, canvas, font, webgl	
audio, battery, canvas, font, webRTC	
audio, battery, canvas, navigator, screen	
audio, battery, canvas, navigator, webgl	
audio, battery, canvas, navigator, webRTC	
audio, battery, canvas, screen, webgl	
audio, battery, canvas, screen, webRTC	
audio, battery, canvas, webgl, webRTC	
audio, battery, clientRects, font, navigator	
audio, battery, clientRects, font, screen	
audio, battery, clientRects, font, webgl	
audio, battery, clientRects, font, webRTC	
audio, battery, clientRects, navigator, screen	
audio, battery, clientRects, navigator, webgl	
audio, battery, clientRects, navigator, webRTC	
audio, battery, clientRects, screen, webgl	
audio, battery, clientRects, screen, webRTC	
audio, battery, clientRects, webgl, webRTC	
audio, battery, font, navigator, screen	
audio, battery, font, navigator, webgl	
audio, battery, font, navigator, webRTC	
audio, battery, font, screen, webgl	
audio, battery, font, screen, webRTC	
audio, battery, font, webgl, webRTC	
audio, battery, navigator, screen, webgl	
audio, battery, navigator, screen, webRTC	
audio, battery, navigator, webgl, webRTC	
audio, battery, screen, webgl, webRTC	

Figure 60: Part 1 of the results for audio fingerprint obfuscation combined with four other fingerprint obfuscation techniques.

audio, canvas, clientRects, font, navigator	
audio, canvas, clientRects, font, screen	
audio, canvas, clientRects, font, webgl	
audio, canvas, clientRects, font, webRTC	
audio, canvas, clientRects, navigator, screen	
audio, canvas, clientRects, navigator, webgl	
audio, canvas, clientRects, navigator, webRTC	
audio, canvas, clientRects, screen, webgl	
audio, canvas, clientRects, screen, webRTC	
audio, canvas, clientRects, webgl, webRTC	
audio, canvas, font, navigator, screen	
audio, canvas, font, navigator, webgl	
audio, canvas, font, navigator, webRTC	
audio, canvas, font, screen, webgl	
audio, canvas, font, screen, webRTC	
audio, canvas, font, webgl, webRTC	
audio, canvas, navigator, screen, webgl	
audio, canvas, navigator, screen, webRTC	
audio, canvas, navigator, webgl, webRTC	
audio, canvas, screen, webgl, webRTC	
audio, clientRects, font, navigator, screen	
audio, clientRects, font, navigator, webgl	
audio, clientRects, font, navigator, webRTC	
audio, clientRects, font, screen, webgl	
audio, clientRects, font, screen, webRTC	
audio, clientRects, font, webgl, webRTC	
audio, clientRects, navigator, screen, webgl	
audio, clientRects, navigator, screen, webRTC	
audio, clientRects, navigator, webgl, webRTC	
audio, clientRects, screen, webgl, webRTC	
audio, font, navigator, screen, webgl	
audio, font, navigator, screen, webRTC	
audio, font, navigator, webgl, webRTC	
audio, font, screen, webgl, webRTC	
audio, navigator, screen, webgl, webRTC	

Figure 61: Part 2 of the results for audio fingerprint obfuscation combined with four other fingerprint obfuscation techniques.

battery, canvas, clientRects, font, navigator	Consistent Variation #2
battery, canvas, clientRects, font, screen	Consistent Variation #3
battery, canvas, clientRects, font, webgl	Consistent Variation #1
battery, canvas, clientRects, font, webRTC	Consistent Variation #1
battery, canvas, clientRects, navigator, screen	Consistent Variation #4
battery, canvas, clientRects, navigator, webgl	Consistent Variation #2
battery, canvas, clientRects, navigator, webRTC	Consistent Variation #2
battery, canvas, clientRects, screen, webgl	Consistent Variation #3
battery, canvas, clientRects, screen, webRTC	Consistent Variation #3
battery, canvas, clientRects, webgl, webRTC	Consistent Variation #1
battery, canvas, font, navigator, screen	Consistent Variation #4
battery, canvas, font, navigator, webgl	Consistent Variation #2
battery, canvas, font, navigator, webRTC	Consistent Variation #2
battery, canvas, font, screen, webgl	Consistent Variation #3
battery, canvas, font, screen, webRTC	Consistent Variation #3
battery, canvas, font, webgl, webRTC	Consistent Variation #1
battery, canvas, navigator, screen, webgl	Consistent Variation #4
battery, canvas, navigator, screen, webRTC	Consistent Variation #4
battery, canvas, navigator, webgl, webRTC	Consistent Variation #2
battery, canvas, screen, webgl, webRTC	Consistent Variation #3
battery, clientRects, font, navigator, screen	
battery, clientRects, font, navigator, webgl	
battery, clientRects, font, navigator, webRTC	
battery, clientRects, font, screen, webgl	
battery, clientRects, font, screen, webRTC	
battery, clientRects, font, webgl, webRTC	
battery, clientRects, navigator, screen, webgl	
battery, clientRects, navigator, screen, webRTC	
battery, clientRects, navigator, webgl, webRTC	
battery, clientRects, screen, webgl, webRTC	
battery, font, navigator, screen, webgl	
battery, font, navigator, screen, webRTC	
battery, font, navigator, webgl, webRTC	
battery, font, screen, webgl, webRTC	
battery, navigator, screen, webgl, webRTC	

Figure 62: The results for battery fingerprint obfuscation combined with four other fingerprint obfuscation techniques.

canvas, clientRects, font, navigator, screen	Consistent Variation #4
canvas, clientRects, font, navigator, webgl	Consistent Variation #2
canvas, clientRects, font, navigator, webRTC	Consistent Variation #2
canvas, clientRects, font, screen, webgl	Consistent Variation #3
canvas, clientRects, font, screen, webRTC	Consistent Variation #3
canvas, clientRects, font, webgl, webRTC	Consistent Variation #1
canvas, clientRects, navigator, screen, webgl	Consistent Variation #4
canvas, clientRects, navigator, screen, webRTC	Consistent Variation #4
canvas, clientRects, navigator, webgl, webRTC	Consistent Variation #2
canvas, clientRects, screen, webgl, webRTC	Consistent Variation #3
canvas, font, navigator, screen, webgl	Consistent Variation #4
canvas, font, navigator, screen, webRTC	Consistent Variation #4
canvas, font, navigator, webgl, webRTC	Consistent Variation #2
canvas, font, screen, webgl, webRTC	Consistent Variation #3
canvas, navigator, screen, webgl, webRTC	Consistent Variation #4

Figure 63: The results for canvas fingerprint obfuscation combined with four other fingerprint obfuscation techniques.

clientRects, font, navigator, screen, webgl	
clientRects, font, navigator, screen, webRTC	
clientRects, font, navigator, webgl, webRTC	
clientRects, font, screen, webgl, webRTC	
clientRects, navigator, screen, webgl, webRTC	

Figure 64: The results for clientRects fingerprint obfuscation combined with four other fingerprint obfuscation techniques.

font, navigator, screen, webgl, webRTC	
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Figure 65: The results for font fingerprint obfuscation combined with four other fingerprint obfuscation techniques.

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Run 3

Tested Combinations of Fingerprints #3, Run at 2026-07-13 00:10:42.928735
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Figure 66: The run number, date and time for this sets of tests.

No interference	
audio	
battery	
canvas	Consistent Variation #1
clientRects	
font	
navigator	
screen	
webgl	
webRTC	

Figure 67: The base results for no fingerprint obfuscation, and audio, battery, canvas, clientRects, font, screen, navigator, webGL, webRTC obfuscations when not in combination.

audio, battery	
audio, canvas	
audio, clientRects	
audio, font	
audio, navigator	
audio, screen	
audio, webgl	
audio, webRTC	

Figure 68: The results for audio fingerprint obfuscation combined with one other fingerprint obfuscation technique.

battery, canvas	Consistent Variation #1
battery, clientRects	
battery, font	
battery, navigator	
battery, screen	
battery, webgl	
battery, webRTC	

Figure 69: The results for battery fingerprint obfuscation combined with one other fingerprint obfuscation technique.

canvas, clientRects	Consistent Variation #1
canvas, font	Consistent Variation #1
canvas, navigator	Consistent Variation #2
canvas, screen	Consistent Variation #3
canvas, webgl	Consistent Variation #1
canvas, webRTC	Consistent Variation #1

Figure 70: The results for canvas fingerprint obfuscation combined with one other fingerprint obfuscation technique.

clientRects, font	
clientRects, navigator	
clientRects, screen	
clientRects, webgl	
clientRects, webRTC	

Figure 71: The results for clientRects fingerprint obfuscation combined with one other fingerprint obfuscation technique.

font, navigator	
font, screen	
font, webgl	
font, webRTC	

Figure 72: The results for font fingerprint obfuscation combined with one other fingerprint obfuscation technique.

navigator, screen	
navigator, webgl	
navigator, webRTC	

Figure 73: The results for navigator fingerprint obfuscation combined with one other fingerprint obfuscation technique.

screen, webgl	
screen, webRTC	

Figure 74: The results for screen fingerprint obfuscation combined with one other fingerprint obfuscation technique.

webgl, webRTC	
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Figure 75: The results for webGL fingerprint obfuscation combined with one other fingerprint obfuscation technique.

audio, battery, canvas	
audio, battery, clientRects	
audio, battery, font	
audio, battery, navigator	
audio, battery, screen	
audio, battery, webgl	
audio, battery, webRTC	

Figure 76: The results for audio fingerprint obfuscation combined with two other fingerprint obfuscation techniques.

battery, canvas, clientRects	Consistent Variation #1
battery, canvas, font	Consistent Variation #1
battery, canvas, navigator	Consistent Variation #2
battery, canvas, screen	Consistent Variation #3
battery, canvas, webgl	Consistent Variation #1
battery, canvas, webRTC	Consistent Variation #1

Figure 77: The results for battery fingerprint obfuscation combined with two other fingerprint obfuscation techniques.

canvas, clientRects, font	Consistent Variation #1
canvas, clientRects, navigator	Consistent Variation #2
canvas, clientRects, screen	Consistent Variation #3
canvas, clientRects, webgl	Consistent Variation #1
canvas, clientRects, webRTC	Consistent Variation #1

Figure 78: The results for canvas fingerprint obfuscation combined with two other fingerprint obfuscation techniques.

clientRects, font, navigator	
clientRects, font, screen	
clientRects, font, webgl	
clientRects, font, webRTC	

Figure 79: The results for clientRects fingerprint obfuscation combined with two other fingerprint obfuscation techniques.

font, navigator, screen	
font, navigator, webgl	
font, navigator, webRTC	

Figure 80: The results for font fingerprint obfuscation combined with two other fingerprint obfuscation techniques.

navigator, screen, webgl	
navigator, screen, webRTC	

Figure 81: The results for navigator fingerprint obfuscation combined with two other fingerprint obfuscation techniques.

screen, webgl, webRTC	
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Figure 82: The results for screen fingerprint obfuscation combined with two other fingerprint obfuscation techniques.

audio, battery, canvas, clientRects	
audio, battery, canvas, font	
audio, battery, canvas, navigator	
audio, battery, canvas, screen	
audio, battery, canvas, webgl	
audio, battery, canvas, webRTC	
audio, battery, clientRects, font	
audio, battery, clientRects, navigator	
audio, battery, clientRects, screen	
audio, battery, clientRects, webgl	
audio, battery, clientRects, webRTC	
audio, battery, font, navigator	
audio, battery, font, screen	
audio, battery, font, webgl	
audio, battery, font, webRTC	
audio, battery, navigator, screen	
audio, battery, navigator, webgl	
audio, battery, navigator, webRTC	
audio, battery, screen, webgl	
audio, battery, screen, webRTC	
audio, battery, webgl, webRTC	
audio, canvas, clientRects, font	
audio, canvas, clientRects, navigator	
audio, canvas, clientRects, screen	
audio, canvas, clientRects, webgl	
audio, canvas, clientRects, webRTC	
audio, canvas, font, navigator	
audio, canvas, font, screen	N/A
audio, canvas, font, webgl	N/A
audio, canvas, font, webRTC	
audio, canvas, navigator, screen	
audio, canvas, navigator, webgl	
audio, canvas, navigator, webRTC	
audio, canvas, screen, webgl	
audio, canvas, screen, webRTC	
audio, canvas, webgl, webRTC	

Figure 83: Part 1 of the results for audio fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

audio, clientRects, font, navigator	
audio, clientRects, font, screen	
audio, clientRects, font, webgl	
audio, clientRects, font, webRTC	
audio, clientRects, navigator, screen	
audio, clientRects, navigator, webgl	
audio, clientRects, navigator, webRTC	
audio, clientRects, screen, webgl	
audio, clientRects, screen, webRTC	
audio, clientRects, webgl, webRTC	
audio, font, navigator, screen	
audio, font, navigator, webgl	
audio, font, navigator, webRTC	
audio, font, screen, webgl	
audio, font, screen, webRTC	
audio, font, webgl, webRTC	
audio, navigator, screen, webgl	
audio, navigator, screen, webRTC	
audio, navigator, webgl, webRTC	
audio, screen, webgl, webRTC	

Figure 84: Part 2 of the results for audio fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

battery, canvas, clientRects, font	Consistent Variation #1
battery, canvas, clientRects, navigator	Consistent Variation #2
battery, canvas, clientRects, screen	Consistent Variation #3
battery, canvas, clientRects, webgl	Consistent Variation #1
battery, canvas, clientRects, webRTC	Consistent Variation #1
battery, canvas, font, navigator	Consistent Variation #2
battery, canvas, font, screen	Consistent Variation #3
battery, canvas, font, webgl	Consistent Variation #1
battery, canvas, font, webRTC	Consistent Variation #1
battery, canvas, navigator, screen	Consistent Variation #4
battery, canvas, navigator, webgl	Consistent Variation #2
battery, canvas, navigator, webRTC	Consistent Variation #2
battery, canvas, screen, webgl	Consistent Variation #3
battery, canvas, screen, webRTC	Consistent Variation #3
battery, canvas, webgl, webRTC	Consistent Variation #1
battery, clientRects, font, navigator	
battery, clientRects, font, screen	
battery, clientRects, font, webgl	
battery, clientRects, font, webRTC	
battery, clientRects, navigator, screen	
battery, clientRects, navigator, webgl	
battery, clientRects, navigator, webRTC	
battery, clientRects, screen, webgl	
battery, clientRects, screen, webRTC	
battery, clientRects, webgl, webRTC	
battery, font, navigator, screen	
battery, font, navigator, webgl	
battery, font, navigator, webRTC	
battery, font, screen, webgl	
battery, font, screen, webRTC	
battery, font, webgl, webRTC	
battery, navigator, screen, webgl	
battery, navigator, screen, webRTC	

Figure 85: Part 1 of the results for battery fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

battery, navigator, webgl, webRTC	
battery, screen, webgl, webRTC	

Figure 86: Part 2 of the results for battery fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

canvas, clientRects, font, navigator	Consistent Variation #2
canvas, clientRects, font, screen	Consistent Variation #3
canvas, clientRects, font, webgl	Consistent Variation #1
canvas, clientRects, font, webRTC	Consistent Variation #1
canvas, clientRects, navigator, screen	Consistent Variation #4
canvas, clientRects, navigator, webgl	Consistent Variation #2
canvas, clientRects, navigator, webRTC	Consistent Variation #2
canvas, clientRects, screen, webgl	Consistent Variation #3
canvas, clientRects, screen, webRTC	Consistent Variation #3
canvas, clientRects, webgl, webRTC	Consistent Variation #1
canvas, font, navigator, screen	Consistent Variation #4
canvas, font, navigator, webgl	Consistent Variation #2
canvas, font, navigator, webRTC	Consistent Variation #2
canvas, font, screen, webgl	Consistent Variation #3
canvas, font, screen, webRTC	Consistent Variation #3
canvas, font, webgl, webRTC	Consistent Variation #1
canvas, navigator, screen, webgl	Consistent Variation #4
canvas, navigator, screen, webRTC	Consistent Variation #4
canvas, navigator, webgl, webRTC	Consistent Variation #2
canvas, screen, webgl, webRTC	Consistent Variation #3

Figure 87: The results for canvas fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

clientRects, font, navigator, screen	
clientRects, font, navigator, webgl	
clientRects, font, navigator, webRTC	
clientRects, font, screen, webgl	
clientRects, font, screen, webRTC	
clientRects, font, webgl, webRTC	
clientRects, navigator, screen, webgl	
clientRects, navigator, screen, webRTC	
clientRects, navigator, webgl, webRTC	
clientRects, screen, webgl, webRTC	

Figure 88: The results for clientRects fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

font, navigator, screen, webgl	
font, navigator, screen, webRTC	
font, navigator, webgl, webRTC	
font, screen, webgl, webRTC	

Figure 89: The results for font fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

navigator, screen, webgl, webRTC	
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Figure 90: The results for navigator fingerprint obfuscation combined with three other fingerprint obfuscation techniques.

audio, battery, canvas, clientRects, font	
audio, battery, canvas, clientRects, navigator	
audio, battery, canvas, clientRects, screen	
audio, battery, canvas, clientRects, webgl	
audio, battery, canvas, clientRects, webRTC	
audio, battery, canvas, font, navigator	
audio, battery, canvas, font, screen	
audio, battery, canvas, font, webgl	
audio, battery, canvas, font, webRTC	
audio, battery, canvas, navigator, screen	
audio, battery, canvas, navigator, webgl	
audio, battery, canvas, navigator, webRTC	
audio, battery, canvas, screen, webgl	
audio, battery, canvas, screen, webRTC	
audio, battery, canvas, webgl, webRTC	
audio, battery, clientRects, font, navigator	
audio, battery, clientRects, font, screen	
audio, battery, clientRects, font, webgl	
audio, battery, clientRects, font, webRTC	
audio, battery, clientRects, navigator, screen	
audio, battery, clientRects, navigator, webgl	
audio, battery, clientRects, navigator, webRTC	
audio, battery, clientRects, screen, webgl	
audio, battery, clientRects, screen, webRTC	
audio, battery, clientRects, webgl, webRTC	
audio, battery, font, navigator, screen	
audio, battery, font, navigator, webgl	
audio, battery, font, navigator, webRTC	
audio, battery, font, screen, webgl	
audio, battery, font, screen, webRTC	
audio, battery, font, webgl, webRTC	
audio, battery, navigator, screen, webgl	
audio, battery, navigator, screen, webRTC	
audio, battery, navigator, webgl, webRTC	
audio, battery, screen, webgl, webRTC	

Figure 91: Part 1 of the results for audio fingerprint obfuscation combined with four other fingerprint obfuscation techniques.

audio, canvas, clientRects, font, navigator	
audio, canvas, clientRects, font, screen	
audio, canvas, clientRects, font, webgl	
audio, canvas, clientRects, font, webRTC	
audio, canvas, clientRects, navigator, screen	
audio, canvas, clientRects, navigator, webgl	
audio, canvas, clientRects, navigator, webRTC	
audio, canvas, clientRects, screen, webgl	
audio, canvas, clientRects, screen, webRTC	
audio, canvas, clientRects, webgl, webRTC	
audio, canvas, font, navigator, screen	
audio, canvas, font, navigator, webgl	
audio, canvas, font, navigator, webRTC	
audio, canvas, font, screen, webgl	
audio, canvas, font, screen, webRTC	
audio, canvas, font, webgl, webRTC	
audio, canvas, navigator, screen, webgl	
audio, canvas, navigator, screen, webRTC	
audio, canvas, navigator, webgl, webRTC	
audio, canvas, screen, webgl, webRTC	
audio, clientRects, font, navigator, screen	
audio, clientRects, font, navigator, webgl	
audio, clientRects, font, navigator, webRTC	
audio, clientRects, font, screen, webgl	
audio, clientRects, font, screen, webRTC	
audio, clientRects, font, webgl, webRTC	
audio, clientRects, navigator, screen, webgl	
audio, clientRects, navigator, screen, webRTC	
audio, clientRects, navigator, webgl, webRTC	
audio, clientRects, screen, webgl, webRTC	
audio, font, navigator, screen, webgl	
audio, font, navigator, screen, webRTC	
audio, font, navigator, webgl, webRTC	
audio, font, screen, webgl, webRTC	
audio, navigator, screen, webgl, webRTC	

Figure 92: Part 2 of the results for audio fingerprint obfuscation combined with four other fingerprint obfuscation techniques.

battery, canvas, clientRects, font, navigator	Consistent Variation #2
battery, canvas, clientRects, font, screen	Consistent Variation #3
battery, canvas, clientRects, font, webgl	Consistent Variation #1
battery, canvas, clientRects, font, webRTC	Consistent Variation #1
battery, canvas, clientRects, navigator, screen	Consistent Variation #4
battery, canvas, clientRects, navigator, webgl	Consistent Variation #2
battery, canvas, clientRects, navigator, webRTC	Consistent Variation #2
battery, canvas, clientRects, screen, webgl	Consistent Variation #3
battery, canvas, clientRects, screen, webRTC	Consistent Variation #3
battery, canvas, clientRects, webgl, webRTC	Consistent Variation #1
battery, canvas, font, navigator, screen	Consistent Variation #4
battery, canvas, font, navigator, webgl	Consistent Variation #2
battery, canvas, font, navigator, webRTC	Consistent Variation #2
battery, canvas, font, screen, webgl	Consistent Variation #3
battery, canvas, font, screen, webRTC	Consistent Variation #3
battery, canvas, font, webgl, webRTC	Consistent Variation #1
battery, canvas, navigator, screen, webgl	Consistent Variation #4
battery, canvas, navigator, screen, webRTC	Consistent Variation #4
battery, canvas, navigator, webgl, webRTC	Consistent Variation #2
battery, canvas, screen, webgl, webRTC	Consistent Variation #3
battery, clientRects, font, navigator, screen	
battery, clientRects, font, navigator, webgl	
battery, clientRects, font, navigator, webRTC	
battery, clientRects, font, screen, webgl	
battery, clientRects, font, screen, webRTC	
battery, clientRects, font, webgl, webRTC	
battery, clientRects, navigator, screen, webgl	
battery, clientRects, navigator, screen, webRTC	
battery, clientRects, navigator, webgl, webRTC	
battery, clientRects, screen, webgl, webRTC	
battery, font, navigator, screen, webgl	
battery, font, navigator, screen, webRTC	
battery, font, navigator, webgl, webRTC	
battery, font, screen, webgl, webRTC	
battery, navigator, screen, webgl, webRTC	

Figure 93: The results for battery fingerprint obfuscation combined with four other fingerprint obfuscation techniques.

canvas, clientRects, font, navigator, screen	Consistent Variation #4
canvas, clientRects, font, navigator, webgl	Consistent Variation #2
canvas, clientRects, font, navigator, webRTC	Consistent Variation #2
canvas, clientRects, font, screen, webgl	Consistent Variation #3
canvas, clientRects, font, screen, webRTC	Consistent Variation #3
canvas, clientRects, font, webgl, webRTC	Consistent Variation #1
canvas, clientRects, navigator, screen, webgl	Consistent Variation #4
canvas, clientRects, navigator, screen, webRTC	Consistent Variation #4
canvas, clientRects, navigator, webgl, webRTC	Consistent Variation #2
canvas, clientRects, screen, webgl, webRTC	Consistent Variation #3
canvas, font, navigator, screen, webgl	Consistent Variation #4
canvas, font, navigator, screen, webRTC	Consistent Variation #4
canvas, font, navigator, webgl, webRTC	Consistent Variation #2
canvas, font, screen, webgl, webRTC	Consistent Variation #3
canvas, navigator, screen, webgl, webRTC	Consistent Variation #4

Figure 94: The results for canvas fingerprint obfuscation combined with four other fingerprint obfuscation techniques.

clientRects, font, navigator, screen, webgl	
clientRects, font, navigator, screen, webRTC	
clientRects, font, navigator, webgl, webRTC	
clientRects, font, screen, webgl, webRTC	
clientRects, navigator, screen, webgl, webRTC	

Figure 95: The results for clientRects fingerprint obfuscation combined with four other fingerprint obfuscation techniques.

font, navigator, screen, webgl, webRTC	
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Figure 96: The results for font fingerprint obfuscation combined with four other fingerprint obfuscation techniques.