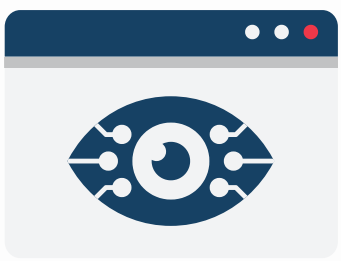
Fingerprinting – The Invisible Way You're Tracked

What Is Fingerprinting — And Why Should You Care?

Fingerprinting is a stealthy way websites track you without cookies. It uses technical details about your device and browser to create a unique profile, like a fingerprint.

You should care because:

- It's harder to detect or block than cookies.
- Works even in incognito mode or with cookies disabled.
- Can still track you across websites and sessions.



Key Fingerprinting Data (and Why It Matters)

Field	What It Reveals	Why It Matters
User Agent	Browser & OS info	Basic identifier for system/browser
IP Address	Network location	Can link sessions unless masked
Screen Resolution	Screen size	Unique combinations = unique fingerprint
Fonts Installed	Local system fonts	Often unique across users
Canvas/WebGL	How your device renders graphics	Highly unique hardware + software combo
Audio Fingerprint	Audio processing capabilities	Very subtle fingerprint layer
Browser Plugins	Installed extensions	Unique combos can identify you
Language/ Timezone	System settings	Adds more uniqueness
Touch Support	Device input type	Distinguishes mobile from desktop
CPU Threads	Hardware details	Reveals device type/class

How to Reduce Fingerprinting

- **Use Tor Browser**
  - Randomises your fingerprint and routes traffic anonymously
- **Disable JavaScript**
  - Reduces exposed data, but may break some websites
- **Switch Browser**
  - Changes your fingerprint completely
- **Use Privacy-Focused Browsers (e.g. Librewolf, Brave)**
  - Blocks or randomises fingerprinting data
- **Use Fingerprint Spoofers (like canvas spoofers)**
  - Adds noise to fingerprint information
- **Use a VPN or Proxy**
  - Hides your network address, but not your device fingerprint

Tools You Can Use to Test & Protect Against Fingerprinting

- Am I Unique? – check how unique your fingerprint is
- Panopticlick by EFF – test your browser's fingerprint
- CanvasBlocker – spoof or block fingerprinting data
- Librewolf Browser – hardened browser with anti-fingerprint measures
- Brave – blocks many fingerprinting scripts by default

TraceMe