#### Research

## Web Tracking

- More and more websites are using trackers [2]
- Advertising companies like Google or Meta generate billions in revenue [1]

#### Use

- Insights into user behavior for website owners [4]
- Prevention of malicious online activities [9]
- Bot detection [8]

#### Misuse

- Data collection without explicit consent [7, 6, 5]
- Manipulation concerns: Cambridge Analytica (2016) [10]
- Mass surveillance by governments, corporations, and other political actors [3]

## Mitigation

#### Ad Blockers

- Adblock
- Adblock Plus
- uBlock Origin
- Privacy Badger
- Ghostery
- AdGuard
- AdLock

#### **Browsers**

- Chrome
- Safari
- Edge
- Firefox
- Brave
- LibreWolf
- Mullvad
- Tor

#### Other Tools

- VPN services
- Search engines
- Canvas blocker add-on

# Survey

## **Key Questions**

- Awareness of web tracking practices.
- Recognition of targeted advertisements.
- Interest in learning about tracking.
- Acceptance of data use for advertising.
- Opinions on targeted advertising based on demographic factors.

#### Results

plots

# Project

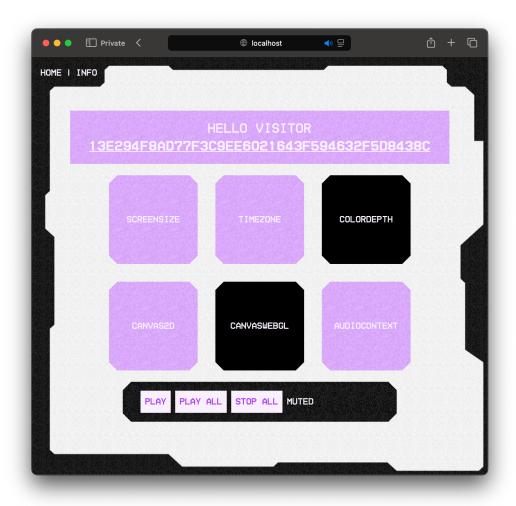


Figure 1: Project - main Page

- $\bullet$  Short description with image
- working on design
- and music

- and mobile friendliness
- and text

#### Outlook

- Final evaluation of the survey
- Finish the project
- Finish writing

#### References

- [1] Digital Advertising Revenue of Leading Online Companies 2023. Statista. URL: https://www.statista.com/statistics/205352/digital-advertising-revenue-of-leading-online-companies/ (visited on 01/31/2025).
- [2] Ada Lerner et al. "Internet Jones and the Raiders of the Lost Trackers: An Archaeological Study of Web Tracking from 1996 to 2016". In: 25th USENIX Security Symposium (USENIX Security 16). 2016. URL: https://www.usenix.org/conference/usenixsecurity16/technical-sessions/presentation/lerner (visited on 12/16/2024).
- [3] Sebastian Meineck and Ingo Dachwitz. Gigantisches Daten-Leak droht: Hacker wollen Bestände von US-Databroker veröffentlichen. netzpolitik.org. Jan. 9, 2025. URL: https://netzpolitik.org/2025/gigantischesdaten-leak-droht-hacker-wollen-bestaende-von-us-databroker-veroeffentlichen/ (visited on 01/11/2025).
- [4] Shreya R Nambiar. Website Tracking: How and Why Websites Track. CookieYes. June 14, 2024. URL: https://www.cookieyes.com/blog/website-tracking/ (visited on 11/17/2024).
- [5] Iskander Sanchez-Rola et al. "The Web Is Watching You: A Comprehensive Review of Web-Tracking Techniques and Countermeasures". In: Logic Journal of the IGPL 25.1 (Feb. 2017), pp. 18-29. ISSN: 1368-9894. DOI: 10.1093/jigpal/jzw041. URL: https://ieeexplore.ieee.org/document/8142531?utm\_source=chatgpt.com (visited on 01/14/2025).

- [6] Rath Kanha Sar and Yeslam Al-Saggaf. "Contextual Integrity's Decision Heuristic and the Tracking by Social Network Sites". In: Ethics and Information Technology 16.1 (Mar. 1, 2014), pp. 15–26. ISSN: 1572-8439. DOI: 10.1007/s10676-013-9329-y. URL: https://doi.org/10.1007/s10676-013-9329-y (visited on 11/30/2024).
- [7] Kyungmin Sim, Honyeong Heo, and Haehyun Cho. "Combating Web Tracking: Analyzing Web Tracking Technologies for User Privacy". In: Future Internet 16.10 (10 Oct. 2024), p. 363. ISSN: 1999-5903. DOI: 10.3390/fi16100363. URL: https://www.mdpi.com/1999-5903/16/10/363 (visited on 12/17/2024).
- [8] IPQS Team. Bot Detection Prevent and Block Bots Detect Non-Human Traffic. IPQS. URL: https://www.ipqualityscore.com/features/bot-detection (visited on 01/13/2025).
- [9] TraceMyIP Team. How IP Location Data Is Created. Who Collects and Uses IP Data. TraceMyIP. Learning IP Tracking & Security Technology. Aug. 31, 2023. URL: https://www.tracemyip.org/learn/how-ip-location-data-is-created-who-collects-and-uses-ip-data-2381/ (visited on 12/10/2024).
- [10] H. Twetman and G. Bergmanis-Korats. "Data Brokers and Security. Riga: NATO Strategic Communications Centre of Excellence." In: (2021). URL: https://stratcomcoe.org/publications/data-brokers-and-security/17 (visited on 01/14/2025).