

СЛУЖБА ТОВАРИЩА  
ДОПРАВАТУ

# Wofür Crypto?

- ▶ Vertraulichkeit
- ▶ Integrität
- ▶ Authentizität

Nichtabstreitbarkeit vs. Abstreitbarkeit

# Browser (Un)Sicherheit

- ▶ http vs. https vs. Private Mode
- ▶ Phishing: netbanking.sparkasse.at.someweirdpage.com
- ▶ Zertifikate
- ▶ Plugins: Flash & Java

Dein Browser erzählt viel über dich!

<https://panopticlick.eff.org/>

# Plaudertaschen-Browser

Browser Characteristic	bits of identifying information	one in x browsers have this value	value
User Agent	10.98	2014.16	Mozilla/5.0 (X11; Linux x86_64; rv:34.0) Gecko/20100101 Firefox/34.0
HTTP_ACCEPT Headers	9.49	717.25	text/html; */; gzip, deflate en-GB,en;q=0.5
Browser Plugin Details	11.03	2098.09	Plugin 0: Gnome Shell Integration: This plugin provides integration with Gnome Shell for live extension enabling and disabling. It can be used only by extensions.gnome.org; libgnome-shell-browser-plugin.so; (Gnome Shell Integration Dummy Content-Type: application/x-gnome-shell-integration; ). Plugin 1: Shockwave Flash: Shockwave Flash 11.2 r202; libflashplayer.so; (Shockwave Flash; application/x-shockwave-flash; swf) (Future Splash Player; application/futuresplash; spf).
Time Zone	2.61	6.12	-80
Screen Size and Color Depth	4.3	19.68	1366x768x24
System Fonts	2.42	5.35	No Flash or Java fonts detected
Are Cookies Enabled?	0.44	1.35	Yes
Limited supercookie test	0.88	1.84	DOM localStorage: Yes. DOM sessionStorage: Yes. IE userData: No

Thanks to [browserspy.dk](#) for the font detection code, and to [breadcumbs](#) for supercookie help.

[Frequently asked questions.](#)

Send other questions or comments to [panoptick@eff.org](mailto:panoptick@eff.org).

Learn about [Panoptick](#) and [web tracking](#).

The [Panoptick Privacy Policy](#).

Learn about the [Electronic Frontier Foundation](#).



A research project of the [Electronic Frontier Foundation](#)







# PanoptiClick

How Unique – and Trackable – Is Your Browser?

Within our dataset of several million visitors, only **one in 1,644,900 browsers have the same fingerprint as yours.**

Currently, we estimate that your browser has a fingerprint that conveys **20.65 bits of identifying information.**

The measurements we used to obtain this result are listed below. You can read more about our methodology, statistical results, and some defenses against fingerprinting in [this article](#).

Help us increase our sample size:      







Browser Characteristic	bits of identifying information	one in x browsers have this value	value
User Agent	10.98	2014.16	Mozilla/5.0 (X11; Linux x86_64; rv:34.0) Gecko/20100101 Firefox/34.0
HTTP_ACCEPT Headers	9.49	717.25	text/html,*/* gzip, deflate en-GB,en;q=0.5
			Plugin 0: Gnome Shell Integration: This plugin provides integration with Gnome Shell for live extension enabling and disabling. It

# Verschwiegener Browser

Within our dataset of several million visitors, only **one in 548,305 browsers have the same fingerprint as yours.**

Currently, we estimate that your browser has a fingerprint that conveys **19.06 bits of identifying information.**

The measurements we used to obtain this result are listed below. You can read more about our methodology, statistical results, and some defenses against fingerprinting in [this article](#).

Help us increase our sample size:      

Browser Characteristic	bits of identifying information	one in $x$ browsers have this value	value
User Agent	10.98	2013.36	Mozilla/5.0 (X11; Linux x86_64; rv:34.0) Gecko/20100101 Firefox/34.0
HTTP_ACCEPT Headers	11.57	3031.17	text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 gzip, deflate en-GB,en;q=0.5
Browser Plugin Details	1.78	3.44	no javascript
Time Zone	1.78	3.43	no javascript
Screen Size and Color Depth	1.78	3.43	no javascript
System Fonts	1.78	3.43	no javascript
Are Cookies Enabled?	0.44	1.35	Yes
Limited supercookie test	1.78	3.43	no javascript

Thanks to [browserspy.dk](#) for the font detection code, and to [breadcrumbs](#) for supercookie help.

[Frequently asked questions.](#)

Send other questions or comments to [panopticlick@eff.org](mailto:panopticlick@eff.org).

# Browser Tracking

1. Cookies
2. Java Script



# So what?

- ▶ höhere Preise
  - ▶ für Mac-/iPhone-User\*
  - ▶ wenn mehrfach gesucht
- ▶ Produktvorschläge, Suchvorschläge, Direct Mailings
  - ▶ "relevante" Werbung & Artikel
  - ▶ Filterbubble (auch Google!)

# Browser Tracking

1. Cookies
2. Plugins

- disable Cookies
- block Java Script
- install Ghostery (or similar)

СЛУЖБА ТОВАРИШ  
ТОВАРИШ СЛУЖБА

# Quellen & empfohlene Links

- ▶ höhere Preise
  - ▶ für Mac-/iPhone-User\*:  
<https://www.spiegel.de/wirtschaft/service/datenauswertung-bei-orbitz-apple-user-zahlen-mehr-fuer-html>
  - ▶ wenn mehrfach gesucht :  
<http://www.finanfrage.net/frage/werden-fluege-teurer-wenn-man-die-seite-mehrfach-aufruf>
- ▶ Produktvorschläge, Suchvorschläge, Direct Mailings
  - ▶ "relevante" Werbung & Artikel:  
<http://www.welt.de/wall-street-journal/article109596525/Facebook-will-Zugang-zu-seinen-Daten-verkaufen.html>  
<https://netzpolitik.org/2014/glaeserner-user-wie-verlage-ihre-leser-ausspaehen/>
  - ▶ Filterbubble (auch Google!):  
<http://www.thefilterbubble.com/>
- ▶ Zombie-Cookie:  
<http://www.solem.de/news/>