

Klaudia Zotzmann-Koch

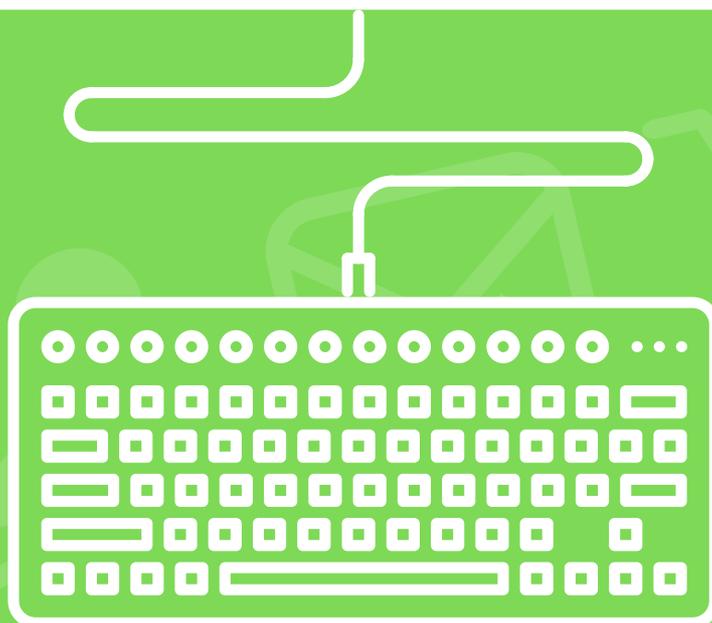
EASY WAYS TO BE MORE

PRIVATE

ON THE

INTERNET

2nd, revised & extended edition



All you need to know about the Internet and what you can do in under 30 minutes to use it more safely and privacy-friendly

LINK LIST

A FEW OF THE SOURCES ARE IN GERMAN. I SUGGEST YOU USE [DEEPL.COM](https://deepl.com) TO AUTOMATICALLY TRANSLATE THE TEXTS.

PREFACE

The data protection authority in Austria ruled that Google Analytics, Google's more widely used website analytics tool, is illegal:

<https://noyb.eu/en/austrian-dsb-eu-us-data-transfers-google-analytics-illegal>

The Munich Regional Court that Google Fonts, i.e. fonts on websites that are fetched from Google servers, are illegal:

<https://rewis.io/urteile/urteil/lhm-20-01-2022-3-o-1749320/>

The Belgian data protection authority declared the technical standard behind consent for advertising to be illegal:

<https://www.autoriteprotectiondonnees.be/publications/decision-quant-au-fond-n-21-2022-english.pdf>

The Irish ICCL ruled that cookie banners are illegal according to the iab standard: <https://www.iccl.ie/news/gdpr-enforcer-rules-that-iab-europes-consent-popups-are-unlawful/>

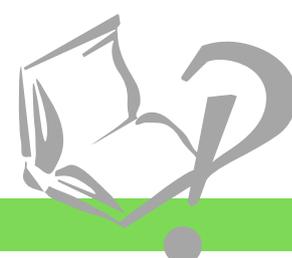
How I went from being a »normal user« to a »certified data protection expert« myself

The Austrian Postal Service and it's core business model of selling address data to advertisers:

<https://kurier.at/chronik/oesterreich/post-in-der-cause-datenskandal-verurteilt/400660373>

The Austrian Postal Service actually got away without a fine:

<https://netzpolitik.org/2020/dsgvo-millionenstrafe-gegen-oesterreichische-post-ag-aufgehoben/> (German)



CHAPTER 1: FORKLIFTS DON'T LIFT FORKS

Protecting people: https://en.wikipedia.org/wiki/Human_rights

Protecting personal rights:

https://en.wikipedia.org/wiki/Personality_rights

About how risky or (un)healthy a person lives:

<https://www.mckinsey.com/industries/financial-services/our-insights/harnessing-the-potential-of-data-in-insurance>

The Silicon Valley company that commercially analyzes and sells information of people seeking help at suicide hotlines:

<https://www.politico.com/news/2022/01/28/suicide-hotline-silicon-valley-privacy-debates-00002617>

About the German »Schufa« that will be sold:

<https://www.sueddeutsche.de/wirtschaft/schufa-verkauf-datenschutz-eqt-1.5515737>

Documentation: »The Social Dilemma«. I fully recommend this!

<https://www.thesocialdilemma.com/>

Clearview incident in January 2020:

<https://www.nytimes.com/2020/01/18/technology/clearview-privacy-facial-recognition.html>

About photo and beauty app providers:

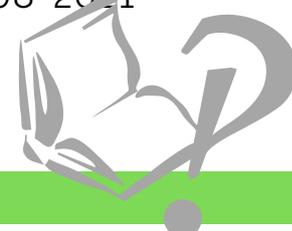
<https://netzpolitik.org/2022/perfect365-datenhoelle-beauty-app/>

Petition "Reclaim Your Face": <https://reclaimyourface.eu/>

About the ePrivacy Regulation got sidelined: <https://edri.org/our-work/eprivacy-eu-member-states-push-crucial-reform-on-privacy-norms-close-to-a-dead-end/>

New draft of the ePrivacy Regulation:

<https://data.consilium.europa.eu/doc/document/ST-5008-2021-INIT/en/pdf>



CHAPTER 1: FORKLIFTS DON'T LIFT FORKS

About the Austrian postal service and their central business model data trading: <https://kurier.at/chronik/oesterreich/post-in-der-cause-datenskandal-verurteilt/400660373>

The video by journalist Richard Gutjahr published in December 2020: <https://www.youtube.com/watch?v=uEgRjfBmo6k> (To view the video without Google-tracking, you can use Invidio.us.)

Cookie banners with several sub-pages using dark patterns were declared illegal in February 2022: <https://www.iccl.ie/news/gdpr-enforcer-rules-that-iab-europes-consent-popups-are-unlawful/>

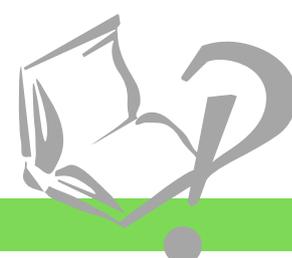
CHAPTER 2: ON THE DATA SUPERHIGHWAY

The bionic eye that is now no longer getting support, leaving its user blind: <https://spectrum.ieee.org/bionic-eye-obsolete>

About Amazon's »smart« home technology such as surveillance cameras and doorbells:
<https://www.bloomberg.com/news/articles/2019-10-10/is-amazon-watching-you-cloud-cam-footage-reviewed-by-humans>

About Alexa devices with cameras, supposedly for »style advice« or virtual dress fittings: https://www.youtube.com/watch?v=gX_fP4pPWPw (To watch the video without Google tracking you can use invideo.us)

Amazon watches and listens directly to all conversations with your family and friends:
<https://www.bloomberg.com/news/articles/2019-10-10/is-amazon-watching-you-cloud-cam-footage-reviewed-by-humans>



CHAPTER 2: ON THE DATA SUPERHIGHWAY

<https://www.bloomberg.com/news/articles/2019-10-10/is-amazon-watching-you-cloud-cam-footage-reviewed-by-humans>

Amazon's patented algorithms recognizing colds:

<https://www.telegraph.co.uk/technology/2018/10/09/amazon-patents-new-alexa-feature-knows-offers-medicine/>

<https://arstechnica.com/gadgets/2018/10/amazon-patents-alexa-tech-to-tell-if-youre-sick-depressed-and-sell-you-meds/>

Apple listening in and transcribing voice recordings from meeting rooms and doctor's appointments:

<https://www.theguardian.com/technology/2019/jul/26/apple-contractors-regularly-hear-confidential-details-on-siri-recordings>

Expert opinions from the Dutch data protection authority and from the German BSI that it is impossible to use Microsoft Windows10 and Microsoft 365 in a data protection-compliant manner:

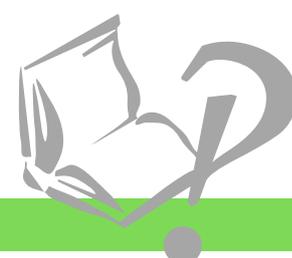
<https://www.rijksoverheid.nl/binaries/rijksoverheid/documenten/rapporten/2018/11/07/data-protection-impact-assessment-op-microsoft-office/DPIA+Microsoft+Office+2016+and+365+-+20191105.pdf>

<https://www.government.nl/documents/publications/2019/07/22/dpia-office-365-proplus-version-1905>

<https://www.government.nl/documents/publications/2019/07/23/dpia-microsoft-office-365-online-and-mobile-slm-rijk-23-july>

Use of Microsoft 365 in German schools unlawful:

<https://www.heise.de/newsticker/meldung/Datenschuetzer-Einsatz-von-Microsoft-Office-365-an-Schulen-ist-unzulaessig-4466156.html>



CHAPTER 2: ON THE DATA SUPERHIGHWAY

Decision by the Data Protection Conference in Germany (DSK) that no data protection-compliant use of Microsoft Office 365 was possible: <https://www.zeit.de/digital/datenschutz/2020-09/microsoft-datenschutz-office-365-kritik-behoerden>

<https://www.heise.de/news/Microsoft-Office-365-Die-Gruende-fuer-das-Nein-der-Datenschuetzer-4919847.html>

<https://www.heise.de/news/Datenschutzbehoerden-erklaerenden-Einsatz-von-Microsoft-365-fuer-rechtswidrig-4931745.html>

»Important Places« on iPhones still show a very accurate record of where you've been: <https://support.apple.com/en-us/HT207056>

Apple's press release on the scanning of pictures on users' iPhones: <https://www.apple.com/child-safety/>

On system-level security vulnerabilities that become hard-wired into our computer systems and mobile phones:

<https://www.datenschutz-podcast.net/podcast/apple-und-das-scannen-von-inhalten-auf-computern/> (German)

Petition by the EFF, the Electronic Frontier Foundation: <https://act.eff.org/action/tell-apple-don-t-scan-our-phones>

CHAPTER 3: THE INTERNET BEHIND THE DISPLAYS

Bill Gates denied having made the statement that no one will ever need more than 640 kilobytes of RAM:

https://www.internetworld.de/technik/internet/groessten-fehlprognosen-technikgeschichte-1665083.html?page=2_das-undung-heimcomputer (German)



CHAPTER 3: THE INTERNET BEHIND THE DISPLAYS

How much is a byte? <https://en.wikipedia.org/wiki/Byte>

About ransomwares like Locky, WannaCry, Ryuk or currently Ragnar Locker:

https://www.capcom.co.jp/ir/english/news/html/e201116.html?_pb_uid=1734

See a demonstration on how fast ransomware strikes in Petar Kusic's talk at PrivacyWeek 2017: <https://media.ccc.de/v/pw17-98-ransomware> (talk in German language, but the demo could be interesting anyway)

Update of the talk at PrivacyWeek 2020, which is also available in English: <https://media.ccc.de/v/pw20-368-security-fuckups-version-2020> (German with English translation)

About the new IoT coffee machine involved in a serious security vulnerability: https://www.reddit.com/r/talesfromtechsupport/comments/6ovy0h/how_the_coffeemachine_took_down_a_factories/

Livestreams from insecure webcams online: <https://www.insecam.org/>

Ralf Schlatterbecks talks on the security of IoT devices at past PrivacyWeeks: <https://media.ccc.de/v/pw18-67-internet-of-things-iot-privacy-security> (German with English translation)

Call by the German Federal Network Agency who classified Cayla as a »hidden transmitting device« and people had to destroy the doll: <https://www.zeit.de/digital/datenschutz/2017-02/my-friend-cayla-puppe-spion-bundesnetzagentur>

On »bug bounty programs«: <https://www.somersetrecon.com/blog/2015/11/20/hello-barbie-security-part-1-teardown>



CHAPTER 3: THE INTERNET BEHIND THE DISPLAYS

https://www.vice.com/en_us/article/qkj4n7/bugs-in-hello-barbie-could-have-let-hackers-spy-on-kids-chats

About „1984“ disappearing from users' devices:

https://www.theregister.co.uk/2009/07/18/amazon_removes_1984_from_kindle/

Talk by Wolfgang Tischer and Klaudia Zotzmann-Koch: »I know what you read last summer«: https://media.ccc.de/v/pw17-99-ich_weiss_was_du_letzten_sommer_gelesen_hast (Unfortunately only in German)

About insecure sex toys with camera and Skype connection: <https://arstechnica.com/gadgets/2017/04/siime-eye-vibrator-security-issues/>

CHAPTER 4: TRACKING: THE DAILY CHASE

Google's Terms and Conditions: T&C:

<https://policies.google.com/>

Rebecca Ricks' view of PayPal's data transfers based on the information PayPal itself makes available: <https://rebecca-ricks.com/paypal-data/>

Based on 15 demographic characteristics, the probability of identification is 99.98 percent:

<https://www.nature.com/articles/s41467-019-10933-3>

Google announcing in January 2021 that they want to replace cookie-based advertising: <https://techxplore.com/news/2021-03-google-scraping-third-party-cookies-invasive.html>

Article from Der Standard, February 22, 2022:

<https://www.derstandard.at/story/2000133536728/googles-seiltanz-mit-der-privatsphaere>



CHAPTER 4: TRACKING: THE DAILY CHASE

Study by Vanderbilt University on which data Google is accumulating: <https://phys.org/news/2018-11-google-scrutiny-digital-privacy.html>

<https://digitalcontentnext.org/blog/2018/08/21/google-data-collection-research/>

Decision of the Austrian data protection authority to declare that Google Analytics could not be used legally:

<https://noyb.eu/en/austrian-dsb-eu-us-data-transfers-google-analytics-illegal>

And the French data protection authority already confirmed this decision: <https://www.cnil.fr/en/use-google-analytics-and-data-transfers-united-states-cnil-orders-website-manageroperator-comply>

Decision by the Munich Regional Court, which declared the use of Google Fonts illegal: <https://rewis.io/urteile/urteil/lhm-20-01-2022-3-0-1749320/>

About the core of Google's Chrome browser, »Chromium«, now built into almost all browsers available on the market:

<https://www.zdnet.com/pictures/all-the-chromium-based-browsers/>

How to install an »un-googled Chromium«:

<https://github.com/Eloston/ungoogled-chromium>

The ad blocker built into Brave probably has permanently installed whitelists: <https://ebin.city/%7Ewerwolf/posts/brave-is-shit/>

Basic Attention Token: <https://basicattentiontoken.org/>

Mozilla and Meta, formerly Facebook, developing privacy-preserving tracking called »privacy-preserving attribution«:

<https://blog.mozilla.org/en/mozilla/privacy-preserving-attribution-for-advertising/>



CHAPTER 4: TRACKING: THE DAILY CHASE

Tor browser: <https://www.torproject.org/>

Community project LibreWolf: <https://librewolf.net/>

Oracle's marketing cloud:

<https://www.admonsters.com/probabilistic-identifiers-and-problem-id-matching/>

Marketing expertson that »identity graph«:

<https://richpanel.com/blog/what-is-an-identity-graph/>

Tracking of individuals across multiple devices:

<https://www.iab.com/wp-content/uploads/2017/06/Mobile-Identity-Guide-for-Marketers-Report.pdf>

On »disguised« trackers and how to avoid them

https://www.theregister.co.uk/2019/11/21/ublock_origin_firefox_unblockable_tracker/

<https://twitter.com/WolfieChristl/status/1198702205148258306>

<https://twitter.com/PrivacyMatters/status/1198892482437799937>

On Firefox creating cookie storage per domain:

<https://t3n.de/news/supercookies-ade-firefox-85-1352462/>

<https://blog.mozilla.org/blog/2021/02/23/latest-firefox-release-includes-multiple-picture-in-picture-and-total-cookie-protection/>

Apple requires app manufacturers to disclose all built-in trackers in the apps and they display this information in the app store:

<https://www.heise.de/news/Datenschutzlabels-fuer-iPhone-und-iPad-Google-laesst-sich-weiter-Zeit-5033833.html>

Apple's »Do-not-track-apps«-function:

<https://www.apple.com/newsroom/2021/01/data-privacy-day-at-apple-improving-transparency-and-empowering-users/>



CHAPTER 4: TRACKING: THE DAILY CHASE

https://www.apple.com/privacy/docs/A_Day_in_the_Life_of_Your_Data.pdf

The talk »Sag mir, was du hörst – und ich sage dir, wer du bist!« by Christine Bauer at PrivacyWeek 2019:

<https://media.ccc.de/v/pw19-245-sag-mir-was-du-hrst-und-ich-sage-dir-wer-du-bist> - (Unfortunately German only)

Spotify analyze voices in conversations for emotions and use that for music and matching ads:

<https://patents.justia.com/patent/10891948>

<https://www.stopspotifysurveillance.org/>

Target and the pregnant teenager:

<https://www.forbes.com/sites/kashmirhill/2012/02/16/how-target-figured-out-a-teen-girl-was-pregnant-before-her-father-did/#2cc130db6668>

»Track me, if you... oh.«, which I gave together with Clemens Hopfer at the Chaos Communication Congress 2018:

<https://media.ccc.de/v/35c3chaoswest-25-track-me-if-you-oh> - (Unfortunately in German only)

On surveillance advertising in Germany and Austria:

<https://www.sueddeutsche.de/wirtschaft/ueberwachung-im-supermarkt-abgescannt-im-supermarkt-1.3529017>

For a while, they also tried this in pharmacies in Austria, but then the customers rebelled:

<https://www.heise.de/newsticker/meldung/Medikamenten-Empfehlung-per-Gesichtserkennung-3901525.html>

<https://www.heise.de/tp/features/Bayer-beendet-Gesichtsscans-in-oesterreichischen-Apotheken-3904255.html>



CHAPTER 5: ALGORITHMS & "AI"

The Austrian AMS algorithm:

<https://apps.derstandard.at/privacywall/2000089925698/Berechnen-Sie-Ihre-Jobchancen-so-wie-es-das-AMS-tun> (German)

Have you ever asked why Facebook offers its services for free when it itself runs several data centers that consume about the electricity of San Francisco and has just over 35,000 employees (data from 2018)? https://de.wikipedia.org/wiki/Facebook_Inc.
<https://about.fb.com/company-info/>

Facebook is trying to get as much payment data as possible.
<https://www.wsj.com/articles/facebook-to-banks-give-us-your-data-well-give-you-our-users-1533564049>

<https://www.washingtonpost.com/technology/2018/08/07/your-banking-data-was-once-off-limits-tech-companies-now-theyre-racing-get-it/>

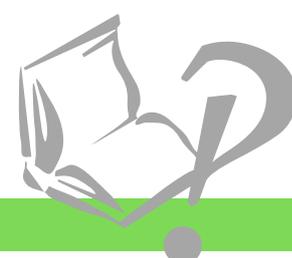
Facebook Pay: <https://about.fb.com/news/2019/11/simplifying-payments-with-facebook-pay/>

Facebook can analyze the social dynamics and thus predict with frightening accuracy, for example, which couple will soon break up:
https://www.huffpost.com/entry/facebook-relationship-study_n_4784291

<https://arxiv.org/pdf/1310.6753v1.pdf>

All our offline activities and all our interests are highly interesting for the network: <https://www.businessinsider.com/facebook-data-brokers-2016-12>

<https://techcrunch.com/2018/03/23/facebook-knows-literally-everything-about-you/>



CHAPTER 5: ALGORITHMS & "AI"

Google does the same thing :

<https://www.bloomberg.com/news/articles/2018-08-30/google-and-mastercard-cut-a-secret-ad-deal-to-track-retail-sales?srnd=technology-vp>

CHAPTER 6: SOCIAL MEDIA

Social media platforms, such as Instagram, Twitter, Facebook, Pinterest, TikTok, etc. use self-learning algorithms :

<https://www.heise.de/select/ct/2022/4/2127912122749452275>

Algorithms always have a goal that they follow and that is usually profit.

Cathy O'Neil, author of »Weapons of Math Destruction: How Big Data Increases Inequality and Threatens Democracy« in the documentary »The Social Dilemma«

<https://www.thesocialdilemma.com/>

<https://www.mimikama.at/aktuelles/social-media-zwiespaeltiges-urteil-in-den-usa/>

Useful little helper: the app »one sec« <https://one-sec.app/>

People report that their social media behavior has dropped by 40 percent:

<https://twitter.com/frederikriedel/status/1315324134327549952?s=12>

Tim Berners Lee and the <https://contractfortheweb.org/>

The German Federal Press Office on the Fediverse:

@Bundespresseamt@social.bund.de



CHAPTER 7: WEB 3.0, NFT & BLOCKCHAIN

Web 3.0 : <https://en.wikipedia.org/wiki/Web3>

Aral Balkan's Web0 Manifesto: <https://ar.al/2022/01/06/the-web0-manifesto-a-technical-review/>

Join the manifesto at <https://web0.small-web.org/>

Fungibility: <https://en.wikipedia.org/wiki/Fungibility>

BBC explanation fo fungibility and NFTs:

<https://www.bbc.com/news/technology-56371912>

Podcast episode where Klaudia explains NFTs:

<https://www.sendegarten.de/2022/01/31/seg137-besonders-schoene-infrastruktur/> (German, explanation starting at 1:02:51)

One Nyan Cat gif raised over \$500,000¹. The Disaster Girl meme also raised \$500,000². Several digitally released works by Grimes for a combined total of over \$6 million³. Twitter founder Jack Dorsey sold his very first tweet for as much as \$2.5 million⁴. At Christie's, an NFT by Beeple went for \$69 million⁵. And Soccer NFT trading cards have already raised \$680 million

1 <https://foundation.app/NyanCat/nyan-cat-219>

2 <https://www.nytimes.com/2021/04/29/arts/disaster-girl-meme-nft.amp.html>

3 <https://www.bbc.co.uk/news/technology-56252738>

4 <https://www.bbc.co.uk/news/world-us-canada-56307153>

5 <https://www.bbc.co.uk/news/technology-56362174>

6 <https://www.bbc.co.uk/news/technology-58572389>

Catastrophic environmental footprint of blockchains:

<https://www.bbc.com/news/science-environment-56215787>



CHAPTER 7: WEB 3.0, NFT & BLOCKCHAIN

You buy the entry of a link together with your wallet ID in the respective blockchain: <https://moxie.org/2022/01/07/web3-first-impressions.html>

You do not buy the copyright or exclusive rights of use:
<https://twitter.com/JackShawhan/status/1457951413368016899>

My blog post which preceded chapter 7:
<https://www.viennawriter.net/blog/warum-ich-nicht-in-nft-mache/>

Banksy was not notified when someone auctioned off a fake Banksy: <https://www.bbc.com/news/technology-58399338>

In case of fraud the product page on the broker platform is deleted and thus the respective links go nowhere:

<https://www.buzzfeednews.com/article/sarahemerson/crypto-rapper-nft-opensea-owner-money-laundering>

Buying a color as NFT:

<https://twitter.com/curator1of1/status/1487364584516239369>

Fakes, plagiarism, scam and fraud on NFT broker platforms:
<https://www.vice.com/en/article/wxdzb5/more-than-80-of-nfts-created-for-free-on-opensea-are-fraud-or-spam-company-says>

First tweet bought at \$2.5 million dollars and the buyer only got a top bid of \$280 for the resell. <https://web3isgoinggreat.com/?id=nft-collector-gets-280-top-bid-for-jack-dorsey-tweet>

NFTs linked to physical products:
<https://www.reuters.com/technology/nike-cries-foul-over-virtual-shoes-suing-retailer-that-sells-sneaker-nfts-2022-02-04/>

You can see all transactions on a blockchain, even without an own wallet. E.g. how many people have deposited to a wallet that was in a »We watched you masturbate« spam e-mail:

<https://www.blockchain.com/btc/address/1N5J73F3gYPgZ8zkbnUhoryrYjQcqsA7St>



CHAPTER 7: WEB 3.0, NFT & BLOCKCHAIN

The monkey pictures, with which the whole NFT story began, show clear parallels to Nazi content: <https://gordongoner.com/>

A doctor offered the X-ray image of an attack victim of the terrorist attack on the Bataclan concert hall in Paris for sale as a digital work of art:

<https://www1.wdr.de/kultur/kulturnachrichten/roentgenbild-digitalkunst-frankreich-opensea-100.html>

Tracking or loading of malicious code via NFT:

<https://www.vice.com/en/article/xgdvaz/nft-steal-ip-address-opensea>

Someone scammed millions of dollars worth of NFTs through a fake e-mail purporting to come from the broker platform OpenSea:

<https://www.watson.ch/digital/wirtschaft/926047843-gefaelschtes-opensea-e-mail-phisher-stiehlt-nfts-im-wert-von-millionen>

Twitter NFT profile pictures in a hexagonal format:

<https://www.heise.de/news/Twitter-startet-fuer-Twitter-Blue-Abonnenten-eine-Funktion-fuer-NFT-Profilbilder-6334356.html>

And browser plugin on GitHub that hides accounts with an NFT profile picture: <https://www.heise.de/news/Browser-Plug-In-blockiert-Twitter-Accounts-mit-NFT-Profilbild-6337943.html>

<https://github.com/mcclure/NFTBlocker>

The WWF raises money for noble causes through NFTs, but with questionable means:

https://twitter.com/wwf_uk/status/1488800080819802116

The British Journal of Photography sold its entire Twitter account with 250,000 followers as an NFT, which killed both their reach and reputation:

<https://twitter.com/duckrabbitblog/status/1488846301971063360>



CHAPTER 8: SOCIAL IMPACTS

»Black boxes« in our cars that record everything: at what speed we drove and where, whether we ran a red light and so on ad nauseam: <https://futurezone.at/digital-life/grosse-autoversicherer-starten-mit-telematik-tarifen/184.208.179>

Fitbit forum: e.g. <https://community.fitbit.com/t5/Mobil/Fitbit-mit-Google-Fit-koppeln/td-p/3028933>

Google bought Fitbit in fall 2019 and now has all our movement and body data.

1 <https://blog.google/products/devices-services/agreement-with-fitbit/>

2

<https://www.forbes.com/sites/andrewwilliams/2021/01/14/google-now-owns-fitbit-what-it-means-for-your-fitness-data-privacy/>

Aral Balkan said before the EU Parliament in November 2019: »I always hear about markets. Where are we here? The Ferengi Alliance? We are in the EU parliament!«

<https://video.lqdn.fr/videos/watch/70f2128c-8c06-4cc4-8a5a-bf77e765c8fd>

Press release by the German Federal Commissioner for Data Protection :

https://www.bfdi.bund.de/DE/Infothek/Pressemitteilungen/2019/26_WebtrackingEinwilligung.html

CHAPTER 9: QUESTIONS

Max Schrems: https://en.wikipedia.org/wiki/Max_Schrems



CHAPTER 10: HARBOUR, SHIELD AND WHAT NOT

The iapp, the International Association of Privacy Professionals, has created a collection of all handouts on the topic with links to the respective materials of the individual European countries.

<https://iapp.org/resources/article/dpa-and-government-guidance-on-schrems-ii-2/>

The European Data Protection Board has also collected a whole range of information, including some about Brexit:

https://edpb.europa.eu/other-documents_en

The Digital Markets Act 1 (DMA):

https://ec.europa.eu/info/strategy/priorities-2019-2024/europe-fit-digital-age/digital-markets-act-ensuring-fair-and-open-digital-markets_en

and the Digital Services Act 2 (DSA):

https://ec.europa.eu/info/digital-services-act-ensuring-safe-and-accountable-online-environment_en

We need an organization financed by European tax money that develops European, data-saving, free and secure private-by-default open source solutions and makes them available to citizens free of charge: <https://mastodon.ar.al/@aral/107789812455428401>

FSFE, Free Software Foundation Europe: Public Money, Public Code: <https://publiccode.eu/>

Sovereign Technology Fund has already published a feasibility study: <https://sovereigntechfund.de/>



CHAPTER 11: THE OFFLINE

Companies listen to what TV program you are watching while browsing an online shop on your tablet:

https://en.wikipedia.org/wiki/Cross-device_tracking

About the couple who found out from other people that a video of their private evening had ended up on a porn platform:

<https://www.dailymail.co.uk/news/article-3598012/Trolls-sneak-photos-TV-turn-porn-images-lifted-screens-turned-pornography.html>

Microphone blockers:

https://en.wikipedia.org/wiki/Microphone_blocker

The picture of Facebook boss Mark Zuckerberg with the camera and microphone of his laptop taped off:

<https://www.macwelt.de/ratgeber/Mikrofon-Abdeckung-So-schuetzen-Sie-sich-wirklich-vor-Spionage-Angriffen-10007403.html>

The BR AI + Automation Lab investigation on eavesdropping phones: <https://medium.com/br-next/is-your-phone-listening-to-your-conversations-5182bc8ed45>

CHAPTER 12: WHAT YOU CAN DO IN UNDER 30 MINUTES

About the search results you see on Google:

<https://www.wsj.com/articles/how-google-interferes-with-its-search-algorithms-and-changes-your-results-11573823753>

About DuckDuckGo and DuckDuckBot:

<https://help.duckduckgo.com/duckduckgo-help-pages/results/sources/>

<https://en.wikipedia.org/wiki/DuckDuckGo>



CHAPTER 12: WHAT YOU CAN DO IN UNDER 30 MINUTES

About the missing European search index:

<https://digitalcourage.de/blog/2021/europaeischer-suchindex-nachhaltig-zur-google-alternative> (German)

On Startpage being owned by a US company that specializes in analytics:

<https://support.startpage.com/index.php?/Knowledgebase/Article/View/1275/0/what-is-startpages-relationship-with-privacy-onesystem1-and-what-does-this-mean-for-my-privacy-protections>

About Ghostery's whitelisting:

<https://www.heise.de/newsticker/meldung/Ghostery-Erweiterung-blendet-Werbung-ein-4107209.html>

Firefox Focus: <https://support.mozilla.org/en-US/kb/focus>

Alternative app store for Android devices with only free and open-source apps: f-droid.org

Starbug on secure authentication: https://media.ccc.de/v/pw17-97-sichere_authentifizierung (German language)

About Twitter and their use of our phone numbers:

<https://help.twitter.com/en/information-and-ads>

On German online retailers being slow on implementing 2FA:

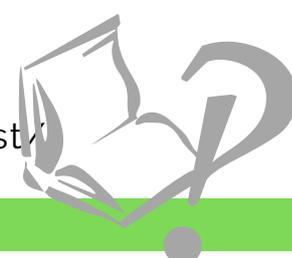
<https://www.heise.de/newsticker/meldung/Deutsche-Onlinehaendler-druecken-sich-vor-Zwei-Faktor-Authentifizierung-4542700.html>

About Uber tracking people after the app had been uninstalled

<https://techcrunch.com/2017/04/23/uber-responds-to-report-that-it-tracked-users-who-deleted-its-app/>

Exodus Privacy analysis of the swiftkey app:

<https://reports.exodus-privacy.eu.org/en/reports/com.touchtype.swiftkey/latest/>



CHAPTER 12: WHAT YOU CAN DO IN UNDER 30 MINUTES

Apple's statistics on emoji usage:

https://images.apple.com/privacy/docs/Differential_Privacy_Overview.pdf

Most menstruation tracker apps sell the data entered to advertising networks:

<https://www.buzzfeednews.com/article/meghara/period-tracker-apps-facebook-maya-mia-fem>

About the consequences of sold period-tracker apps:

<https://www.mirror.co.uk/news/uk-news/period-tracker-app-spied-told-20807187>

How the US governments tries to shut down the last abortion clinic in Missouri using data from period trackers:

<https://www.instyle.com/news/government-tracking-period-information>

Datenschutz Podcast episode with Judith Stru benberg and Klaudia Zotzmann-Koch on »Bloody Data«: <https://www.datenschutz-podcast.net/podcast/bis-auf-die-unterwaesche-und-weiter/> (in German language)

PrivacyWeek-Talk »Bloody Data« by Judith Stru benberg:

<https://media.ccc.de/v/pw20-383-bloody-data-das-geschft-mit-zyklusapps> (German with English translation)

Period tracker »Drip«: <https://bloodyhealth.gitlab.io/>

Period tracker »Periodical«: [https://f-](https://f-droid.org/de/packages/de.arnowelzel.android.periodical/)

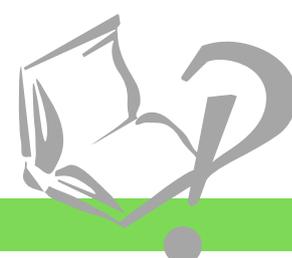
[droid.org/de/packages/de.arnowelzel.android.periodical/](https://f-droid.org/de/packages/de.arnowelzel.android.periodical/)

Article on how simple it is to intercept SMS:

<https://www.golem.de/news/ueberwachung-fuer-16-us-dollar-fremde-sms-mitlesen-2103-155119.html> (in German)

About the messenger Threema:

https://en.wikipedia.org/wiki/Threema#cite_ref-42



CHAPTER 12: WHAT YOU CAN DO IN UNDER 30 MINUTES

Article on privacy with Telegram:

<https://www.heise.de/hintergrund/Telegram-Chat-der-sichere-Datenschutz-Albtraum-eine-Analyse-und-ein-Kommentar-4965774.html> (in German)

The messenger wire was taken over by a US holding:

<https://www.kuketz-blog.de/wire-messenger-zu-100-von-einer-us-holding-uebernommen/>

Overview by Digitalcourage of free video conferencing software solutions: <https://digitalcourage.de/digitale-selbstverteidigung/videokonferenzen-muessen-keine-datenschleudern-sein>

Videoconference solution Jitsi Meet: jitsi.org

Videoconference solution BigBlueButton: bigbluebutton.org

German companies have to stop using Mailchimp:

https://edpb.europa.eu/news/national-news/2021/bavarian-dpa-baylda-calls-german-company-cease-use-mailchimp-tool_en

Declaration that Google fonts are illegal in Germany:

<https://rewis.io/urteile/urteil/lhm-20-01-2022-3-o-1749320/>

CHAPTER 13: SOCIAL MEDIA ALTERNATIVES

»Cross posters« between Mastodon and Twitter:

<https://moa.party/>

PixelFed: Alternative to Instagram: e.g. <https://pixelfed.social/>

Funkwhale: Alternative to Soundcloud: <https://funkwhale.audio/>

Peertube: Alternative to YouTube & Twitch:

<https://joinpeertube.org/>



CHAPTER 13: SOCIAL MEDIA ALTERNATIVES

Plume, Writefreely, WordPress: Blogs in Fediverse

<https://writefreely.org/start>

<https://joinplu.me/>

Mobilizon: Alternative to Facebook Groups & Events:

<https://joinmobilizon.org/en/>

Castopod: An alternative for podcasters: <https://castopod.org/>

BookWyrn: Alternative to LovelyBooks or Goodreads:

<https://joinbookwyrn.com/>

CHAPTER 14: ADVANCED

Gender identity: https://en.wikipedia.org/wiki/Gender_identity

LINK COLLECTION

Here are a few links to more data-saving providers and services. I don't get any money for the links being here. They are all providers and services that I use or that I have come across in recent years, that are used by other people in data protection.

This list is certainly not exhaustive, and there will be a whole range of other solutions.

You can download the worksheets separately and print them out:

<https://www.zotzmann-koch.com/privacybook/>



LINK COLLECTION

Search Engines

DuckDuckGo: <https://duckduckgo.com/>

Metager: <https://metager.de/>

Messengers

Signal: <https://signal.org/de/>

Threema: <https://threema.ch/de>

Element: <https://element.io/>

Password Safes

KeepassXC: <https://keepassxc.org/> (Linux, Mac, Win, compatible with the following two apps for mobile)

KeePass2Android (Android)

Strongbox (iOS / iPadOS)

Enpass: <https://www.enpass.io/> (all platforms, also mobile)

Dashlane

Stolen Logins Checker

'--have i been pwned?: <https://haveibeenpwned.com/>

App Checker

Exodus Privacy: <https://reports.exodus-privacy.eu.org/en/>

Browsers

EFF »Cover Your Tracks« Browser-Tester:

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

LibreWolf: <https://librewolf.net/>

Mozilla Firefox: <https://www.mozilla.org/de/firefox/>

Firefox Focus: <https://support.mozilla.org/de/kb/was-ist-firefox-klar>

Tor: <https://www.torproject.org/>



LINK COLLECTION

Browser Add-Ons

You should always install browser add-ons directly in the browser via the add-on administration, so there are no direct links here.

[https everywhere](#)

[EFF Privacy Badger](#)

[uBlock Origin](#)

[Terms of Service; Didn't Read](#)

[uMatrix \(for advanced users\)](#)

E-Mail

Posteo.de: <https://posteo.de/de>

mailbox.org: <https://mailbox.org/de/>

Tutanota: <https://tutanota.com/de/>

E-Mail Programs & E-Mail Encryption

K9 Mail: <https://k9mail.github.io/>

Thunderbird: <https://www.thunderbird.net/de/>

OpenPGP: <https://www.openpgp.org/>

Fediverse & Social Media Alternatives

Mastodon: <https://joinmastodon.org/>

PixelFed: <https://pixelfed.org/>

Funkwhale: <https://funkwhale.audio/>

Peertube: <https://joinpeertube.org/>

WriteFreely: <https://writefreely.org/>

Plume: <https://joinplu.me/>

WordPress plugin for the Activity-pub protocol:

<https://wordpress.org/plugins/activitypub/>

Mobilizon: <https://joinmobilizon.org/en/>

Castopod: <https://castopod.org/>

Bookwurm: <https://joinbookwurm.com/>

NextCloud

<https://nextcloud.org/>

Link Shortener

Link-Shortener: <https://t1p.de/>



LINK COLLECTION

Period Tracker Apps

Drip: <https://bloodyhealth.gitlab.io/>

Periodical: <https://f-droid.org/de/packages/de.arnowelzel.android.periodical/>

Collaboration

Mattermost: <https://mattermost.org/>

CryptPad: <https://cryptpad.fr/> or
<https://cryptpad.digitalcourage.de/>

CryptPad Random: redirect to a random independent instance via
<https://cryptpad.random-redirect.de>

NextCloud: <https://nextcloud.org/>

Video Calls & Webinars

Overview of solutions at Digitalcourage (Article in German):

<https://digitalcourage.de/digitale-selbstverteidigung/videokonferenzen-muessen-keine-datenschleudern-sein>

Jitsi: <https://jitsi.org/>

BigBlueButton: <https://bigbluebutton.org/>

NextCloud: <https://nextcloud.org/>

2-Factor Authentication

TOTP apps: andOTP or FreeOTP (Android)

Password-Safe Enpass (but also others): <https://www.enpass.io/>

Yubikey: <https://www.yubico.com/>

Nitrokey: <https://www.nitrokey.com/de>

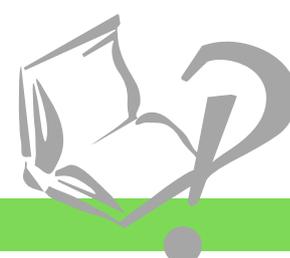
Surveys

Nuudel at Digitalcourage.de: <https://nuudel.digitalcourage.de/>
(hosted Framadate by Framasoft)

CryptPad: <https://cryptpad.fr/> or
<https://cryptpad.digitalcourage.de/>

Dudle, e.g. at TU Dresden: <https://dudle.inf.tu-dresden.de/>

Limesurvey: <https://www.limesurvey.org/>



LINK COLLECTION

Calendars

NextCloud: <https://nextcloud.org/>

Calendar in Posteo: <https://posteo.de/de>

Calendar in mailbox.org: <https://mailbox.org/de/>

Calendar in Tutanota: <https://tutanota.com/de/>

Maps

Open Street Map: <https://www.openstreetmap.org>

OsmAndMaps (Android & iOS)

»OpenMultiMaps« in the F-droid Store

YouTube »Redirects«

invidio.us: <https://invidio.us/>

NewPipe: <https://newpipe.net/>

Freetube: <https://freetubeapp.io/>

Quick Wins for Website Operators

Shariff (Article in German): <https://www.heise.de/ct/artikel/Shariff-Social-Media-Buttons-mit-Datenschutz-2467514.html>

Let's Encrypt: <https://letsencrypt.org/>

Matomo: <https://matomo.org/>

Hosting Providers

Windcloud: <https://windcloud.de/>

Uberspace: <https://uberspace.de/>

Self-Hosting

Framasoft has many interesting projects such as Mobilizon, Framaforms, Framatalk, Framapad and Framadate and a few others that you can host yourself with a little skill.

-> <https://framasoftware.org/en/>

Self-tests

Social media consumption and app use: <https://one-sec.app/>

Self-tests for your use of data (German): <https://datenscham.org/> &
<https://www.privat-o-mat.de/>

Self-test for your media competence (German): <https://www.der-newstest.de/>

IoT

Making IoT better: <https://www.iot-austria.at/>

Internet of Dongs, about smart sex toys: <https://internetofdon.gs/>



LINK COLLECTION

Petitions

Reclaim Your Face Petition: <https://reclaimyourface.eu/>

Petition against Spotify's surveillance plans:

<https://www.stopspotifysurveillance.org/>

Other

The Digitalcourage education package (German):

<https://digitalcourage.de/kinder-und-jugendliche/bildungspaket>

The services of Digitalcourage: <https://digitalcourage.de/blog/2020/corona-homeoffice-tipps>

Overview page of alternatives to well-known software solutions:

<https://switching.software/>

Center for Humane Technology: <https://www.humanetech.com/>

Ethical.net: <https://ethical.net/>

Web3 is going great: <https://web3isgoinggreat.com/>

View data sharing at PayPal: <http://rebecca-ricks.com/paypal-data/>

Stop using Facebook: <https://www.stopusingfacebook.co/>

Wish List outside Amazon: <https://wishlephant.com/>

Your NextCloud as part of the Fediverse (German):

<https://kaffeeringe.de/2019/11/21/nextcloud-als-teil-des-mastodon-netzwerks>



All you need to know about the Internet and what you can do in under 30 minutes to use it more safely and privacy-friendly

NOTES

