

Digital Self-Defence

Levelling up your defence in a world
that is levelling up its offence.

Jonas Betzendahl, M.Sc.
2019 – 12 – 06



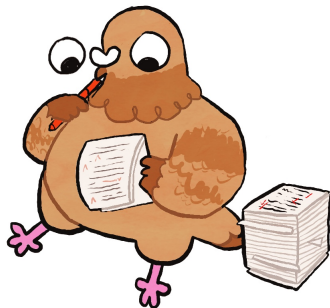
@lambdaTotoro (@chaos.social)

Who am I?

Jonas Betzendahl

lambdatotoro@posteo.de

- Bielefeld University
Cognitive Informatics + Intelligent Systems
- Now @ FAU Erlangen-Nürnberg
Knowledge Representation and Management
- Love for teaching and science communication
- Favourite topics: misconceptions about and risks of technology.



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- *don't* necessarily have a degree in computer science or a related field.
- *do* regularly interact with computers, probably both professionally and privately.

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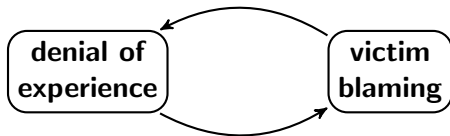
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Digital violence is all violence that uses digital tools (computers, phones, apps,...), digital media (video, email,...) or occurs within online spaces.

We believe that usually, digital violence does not happen in isolation from "analogue violence" but often forms an addition to or a continuation of preexisting violent contexts.

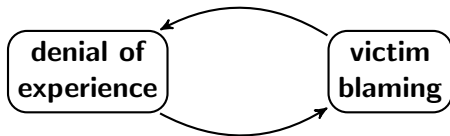
What is *not* the solution?

A common problem that is making things worse:



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A common problem that is making things worse:



- “That’s not that bad!”, “It’s not harassment if you can just log off!”, ...
- “Don’t feed the troll!”, “Don’t take nudes!”, “Don’t be online!”, ...

What *is* the solution?

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Many attacks in the digital realm can only work if the victim doesn't know about them, isn't sensitised to them or reacts wrongly to them.

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This workshop is to give you an overview of some of the most important attacks and what to do about them.

What is this workshop?

I will be giving input, but this is *not* a lecture.

I'd rather have a conversation than finish all my slides.

Please ask questions immediately, do feel free to interrupt at any point.



Technical Attacks

Secure Passwords

Passwords are usually the first and most important barrier between our accounts and those that would take them.

Good passwords should resist both *dictionary* and *brute-force* and hence be...

- ...uncommon, ideally unique.
- ...not too short (≥ 12 characters).
- ...high-entropy
(contain letters, numbers, specials).



Passwords (Quiz)

Which of these is the “worst” (cum kilo salis) way to do passwords?

- Using many different weak passwords.
- Using the same strong password on all sites.
- Using many different strong passwords,
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Common Passwords

Any of these ring a bell? The most common passwords...

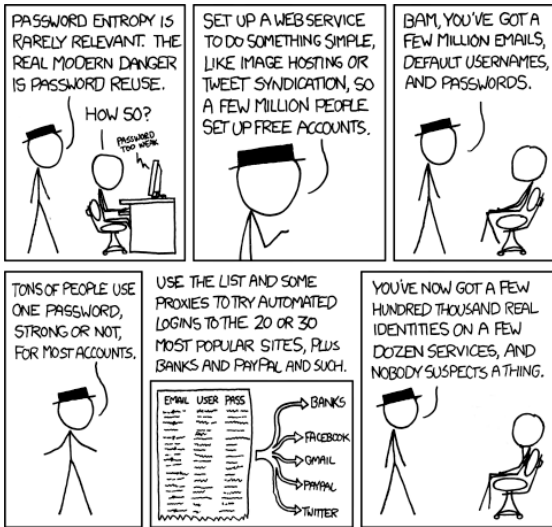
...in Germany:

- 123456
- 12345
- 123456789
- ficken
- 12345678
- hallo123
- hallo
- 123
- passwort
- master

...worldwide

- 123456
- 123456789
- qwerty
- password
- 111111
- 12345678
- abc123
- 1234567
- password1
- 12345

Password Reuse



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Example Amazon Password:

"I wish Jeff Bezos would do something useful with his 110 Billion Dollars!"

becomes

lwJBwdsuwh110B\$!

(crackable in 39555681645472620 years)

Password Managers

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There are many options (commercial and open source) for Windows, Mac, Linux, Android, iOS, ... that can also sync (manually or via cloud) across devices. Also consider analogue ones.

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- ... **One of Many:** has many possible answers

Security Questions (1)

Examples of *good* security questions:

- What's the first name of the first person you kissed?
- What's the last name of the teacher that gave you your first failing grade?

Examples of *bad* security questions:

- In what year was your mother born?
- What's your favourite food?

Smartphone Security (Quiz)

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- A six-point swipe pattern
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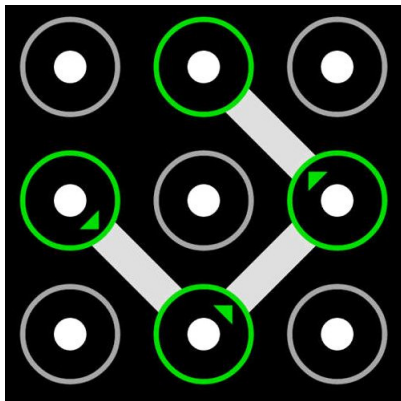
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Swipe Patterns

Swipe patterns are not as safe as a pin number of the same length.

Studies have shown they are easier to gleam “over the shoulder” and can sometimes also be reconstructed from smudge marks.



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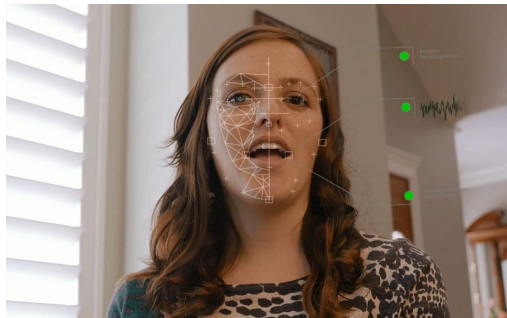


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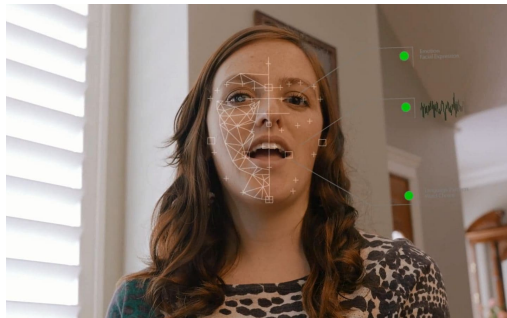


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Biometrics are better thought of as *user names*, not *passwords*!

Leaks & Data Breaches

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There is no real way to “defend” against this, but several good responses (such as changing all changeable information, depending). But first, you need to *know* about it.

Have I been pwned?

Take a few minutes and visit one of these leak detection services:

- <https://haveibeenpwned.com/>
- <https://sec.hpi.de/ilc/>

Enter your own email to see if any of your accounts have been compromised in big leaks in the past. If they have, consider changing your password(s) soon.

If you feel uncomfortable using your own email address, you can use one of mine:

`jonas.betzendahl@gmail.com`

Stalker- & Spouseware

A growing phenomenon in recent years, Stalkerware is monitoring software (often marketed as “catching cheating spouses” or “pet/kid surveillance”) that is installed on the victims phone by an attacker the victim knows.

These kinds of malware can...

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Kaspersky study:

2019 saw $\geq 35\%$ increase worldwide, and a $\geq 79\%$ increase in Germany.

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It's very difficult to get rid of this malware because it is designed to be resilient and avoid detection. The ultima ratio is a factory reset.

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Prevention is the best medicine. Keep your systems up-to-date and have recent external backups.

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Do not be dissuaded by the mere numerical "Most Android Anti-Malware apps offer no protection".

VPNs



A virtual private network (VPN) extends a private network across a public network, and enables users to send and receive data across shared or public networks as if their computing devices were directly connected to the private network.

Applications running on a computing device, e.g., a laptop, desktop, smartphone, across a VPN may therefore benefit from the functionality, security, and management of the private network.

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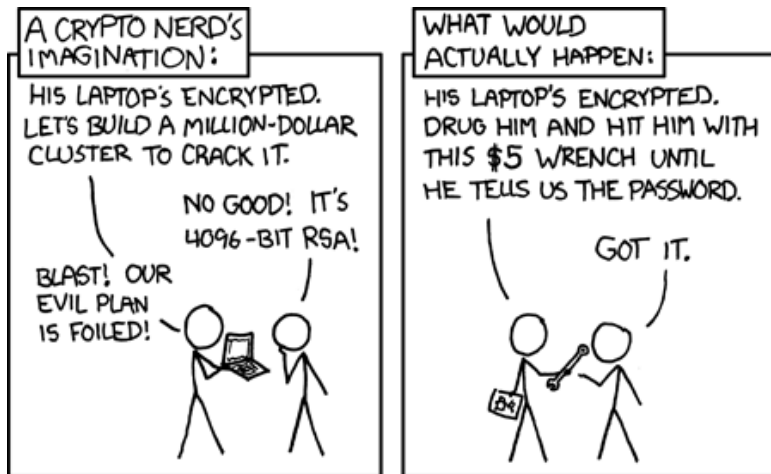
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- **“The VPN doesn’t keep logs of your activity!”**
Potentially true, but indistinguishable from a user perspective.

Social Attacks

No setup gives perfect security!



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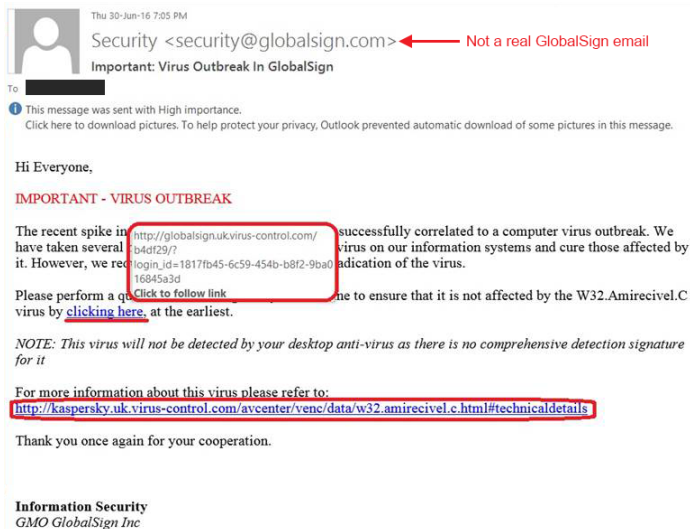
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- Many Phishers take out fake advertisements.
- Email addresses are *incredibly* easy to fake.

Phishing (2)




Phishing (3)

**Singapore Government**
Integrity • Service • Excellence

Immigration & Checkpoints Authority

Submission of Application for Visa Electronically (SAVE)



Step 1 of 2 : Enquiry.

Visa Application Enquiry

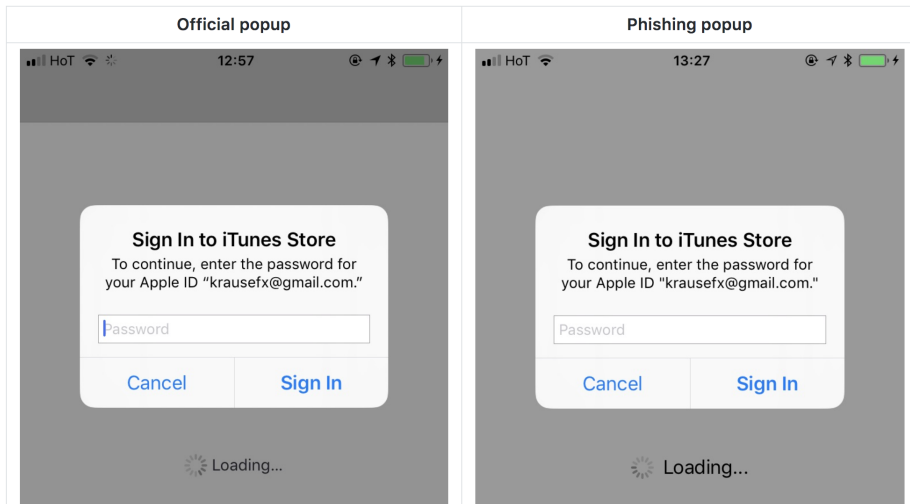
Please specify both the application reference number and applicant's travel document number.

Visa Reference Number :

Applicant's Travel Document Number :

Click on the buttons or links once only.
Do not use the Back or Forward button on your browser as this may end your transaction.

Phishing (4)



Social Engineering

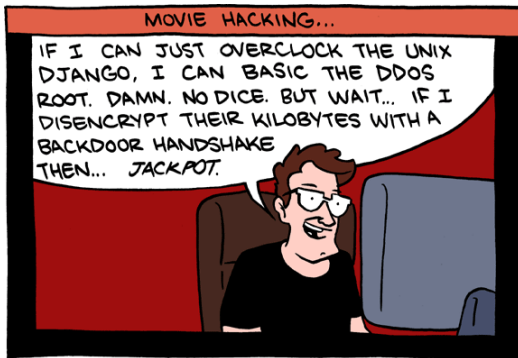
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Again, an important factor in defending against such attacks is knowledge and training. Practice saying "No" to unreasonable requests.

How it works...



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- **Scarcity**
Perceived scarcity will generate demand ("Limited Time Only").

But also: *Urgency, Curiosity, ...*

Social Engineering (3))



Social Engineering (4)

(video with Rachel Tobac)

Social Engineers

Coordinate with one or more partners from around the room, exchange names and – given that you have their consent – with the search engine of your choice, try and find out some personal information about them or yourself that could be used to either find more information or wrongly authenticate yourself as them in front of third parties.

If any of you feel uncomfortable with this exercise, that is absolutely okay. Nobody has to participate if they do not wish it. If your group has no volunteers, take me instead (my full name, again, is “Jonas Betzendahl”).

Miscellaneous

Internet of Things



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The companies behind these products often have poor standards of operational security and data safety.

There is little to say besides “Don’t get one.”, but if you do, research the device beforehand and make sure that firmware is up-to-date and default credentials are changed.

Secure Messaging Apps (1)



Secure Messaging Apps (2)

More detailed overview: <https://www.securemessagingapps.com/>

SECURE MESSAGING APPS COMPARISON

BECAUSE PRIVACY MATTERS

Comparison	Allo	iMessage	Messenger	Riot	Signal	Skype	Telegram	Threema	Viber	Whatsapp	Wickr	Wire
TL;DR: Does the app secure my messages and attachments?	No	No	No	No	Yes	No	No	Yes	No	No	No	Yes
Company jurisdiction	USA	USA	USA	UK	USA	USA	USA / UK / Belize	Switzerland	Luxembourg / Japan	USA	USA	Switzerland
Infrastructure jurisdiction	USA, Belgium, Finland, Ireland, the Netherlands, Chile, Taiwan, and Singapore	USA (Ireland and Denmark planned); iMessage runs on AWS and Google Cloud	USA, Sweden (Ireland planned)	UK (and potentially all jurisdictions, given it's a decentralised messaging platform)	USA	USA, the Netherlands, Australia, Brazil, China, Ireland, Hong Kong, and Japan	UK, Singapore, USA, and Finland	Switzerland	USA	USA (unsure of other locations)	USA (unsure of other locations)	Germany / Ireland
Implicated in giving customers' data to intelligence agencies?	Yes	Yes	Yes	No	No	Yes	No	No	No	Yes	No	No
Surveillance capability built into the app?	No	No	No	No	No	Yes	No	No	No	No	No	No

Multi-factor authentication (MFA) is an authentication method in which a computer user is granted access only after successfully presenting two or more pieces of evidence (or factors) to an authentication mechanism:

- knowledge (something the user and only the user knows)
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This is already in place with ATMs, but can also be used for many online platforms via smartphone. This has advantages and drawbacks but is generally considered positive.

Advanced 2FA



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There are other possibilities for 2FA/MFA, even specialised devices such as a *Yubikey*.

Fake News

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Fake News

There are multiple outlets online that, for one reason or another (political gain, satire, “for teh lulz”, ...) will deliberately spread false information, often with false evidence attached (e.g. doctored images).

Be aware that this is happening. A good habit to have is verifying / fact checking important information before acting on it. There are even dedicated fact checking journalism outlets that respond to popular content:

- English: <https://www.snopes.com>
- German: <https://correctiv.org/faktencheck/>

Fake News Quiz (1)



Fake News Quiz (1)



Fake News Quiz (2)



“If I were to run, I’d run as a Republican. They’re the dumbest group of voters in the country. They believe anything on Fox News. I could lie and they’d still eat it up. I bet my numbers would be terrific.”

Donald Trump

People Magazine, 1998



Fake News Quiz (2)



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Fake News Quiz (3)



Fake News Quiz (3)



Conclusion

In the long run. . .

Kipping sieht viele im Internet im „Blindflug“

22.11.2019, 11:57 Uhr

Linke fordern Schulfach „Digitale Selbstverteidigung“

Die digitale Welt fordert ein Umdenken, sagt Linken-Chefin Kipping: „Wir müssen nicht alle zum Hacker werden, aber wir müssen verstehen, was Hacker tun können.“



Die Linken-Vorsitzende Katja Kipping. FOTO: CHRISTOPH SOEDER/DPA

Learn & Teach

Things you can do this weekend:

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- ... **check for identity leaks.**

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- ... **review apps & permissions on your phone.**

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- ... **install newest software updates.**
- ... **install anti-virus software.**
- ... **enable 2FA where applicable.**

Resources

- *Surveillance Self-Defence* @ EFF, <https://ssd.eff.org>
- *Coalition against Stalkerware*, <https://stopstalkerware.org/>
- *Secure Messaging Apps*, <https://www.securemessagingapps.com/>
- *Identity Leak Checker* @ HPI, <https://sec.hpi.de/ilc/>
- Initiative *Aktiv gegen Digitale Gewalt*,
<https://www.aktiv-gegen-digitale-gewalt.de>
- Initiative *Frauen gegen Gewalt*, <https://frauen-gegen-gewalt.de>
- Comparison of *password managers* @ Wikipedia,
https://en.wikipedia.org/wiki/List_of_password_managers

- *Watch a CNN reporter get hacked!:*
<https://www.youtube.com/watch?v=yIG4kTJTZuY>
- *Wired, Don't Rely On an Unlock Pattern To Secure Your Android Phone:*
<https://www.wired.com/story/android-unlock-pattern-or-pin/>
- *UK Advertisement Regulatory Ruling Re: NordVPN:*
<https://www.asa.org.uk/rulings/tefincom-sa-a19-547668.html>
- *Tom Scott's "This Video Is Sponsored By [REDACTED] VPN":*
<https://www.youtube.com/watch?v=WVDQEoe6ZWY>
- *ExtremeTech's "Most Android Anti-Malware Apps Don't Offer Any Protection"*
<https://www.extremetech.com/mobile/287790-most-android-anti-malware-apps-dont-offer-any-protection>
- *Reply All's The Snapchat Thief:*
<https://gimletmedia.com/shows/reply-all/v4he6k>