@jasowies_o
NOTHING TO HIDE
– nothing to fear
Kirils Solovjovs
#pw19
Schrödinger's surveillance camera
fix PRIVACY is a feeling! & autonomous right
change user demand
make encription easier!
BUT... Pointless!
your phone tracks you anyway?
no trust in (future) governments
herd immunity
do a service to the vulnerable
jail break
school
surveillance tested on kids
GETTING WORSE
Po Box
gift card
CREDIT CARD
anonymous
WORKAROUND
javascript
GDPR
fingerprint
boarding pass
CCTV
public transport

NOTH1NG TO HID3

should we fix privacy?

Some citizens complain about being under surveillance, but they are told that if they have nothing to hide, they have nothing to fear.

@KirilsSolovjovs, 2019. https://kirils.org

Still, news media regularly cover cases where citizens with unusual behaviour are put on suspicion lists, even though they have broken no laws.

@KirilsSolovjovs, 2019. https://kirils.org

Jesper Lund

NOTHING TO HID3

@KirilsSolovjovs, 2019. https://kirils.org

$$\forall(p \in criminal) \rightarrow p \in hiding$$

$$\forall(p \in hiding) \rightarrow p \in criminal$$

Schrödinger's video camera

@KirilsSolovjovs, 2019. https://kirils.org

What even is privacy?

- Autonomous right to choose
  - who processes my info
  - how is my info processed
  - what info is processed
- Right to decide who I interact with
  - right to be left alone

Reactions

35C3 ChaosWest - Toll of personal privacy in 2018

916 views • Published on Dec 28, 2018 28 3 SHARE SAVE

Reactions

Interesting and also not worth it at all. Your time on this planet is limited you know.

I'm feeling like you with recaptcha

What do we do now?

It’s pointless, I’ve got nothing to hide.

You give up your own privacy on Facebook every day, why worry about someone tracking you?

Your phone tracks you anyway

Why are you presenting this without a face mask?

@KirilsSolovjovs, 2019. https://kirils.org

23 September 2019, Twitter

Got something to hide

NOTHING TO HID3

23 September 2019, Twitter

Got something to hide

babygirl @xokoriee · 4h

Replying to @EliiDaRuler

If he acting like this you shouldn't even want to see what's in his phone, just throw the whole man away honestly

14 36 840

@manojoderosa · 3h

Replying to @EliiDaRuler

This is proof enough that you should just throw that phone in the damn fountain and dump him lmao

2

@GawdessEnergy · 1h

Replying to @EliiDaRuler

Lmao omg😂😂😂 sis he is running clearly he's doing dirt. That's the answer sis! Leave that man. Lol

1

Curls Toe-lin' @JeSuisAParis · 5h

Replying to @EliiDaRuler @GawdBodyTru

Whatever you wanted to know sis.. that's the answer right there

4 145 2.5K

NOTHING TO HID3

Got nothing to hide?

Got nothing to hide?

- Data hoarding →
  - Blackmail, impersonation

Got nothing to hide?

- Today's authority might become totalitarian or inhumane

Got nothing to hide?

- Herd immunity

  many people not hiding anything

  make the few stand out more and draw suspicion

16 May 2018, Twitter

"Privacy is dead" – 2018

NOTHING TO HID3

16 Jan 2019, Twitter
27 Sep 2019, Twitter

Enter 2019!

Geeknik Labs
@geeknik

Follow

Chinese schools scanning children's brains to see if they are concentrating

Chinese schools scanning children's brains to see if they are

Headbands that monitor concentration by reading brain signals have been trialled on thousands of Chinese schoolchildren. The devices could soon be used on milli...

independent.co.uk

The Wall Street Journal
@WSJ

Follow

Some classrooms in China are equipped with AI cameras and brain-wave trackers. While many parents and teachers see them as tools to improve grades, they've become some children's worst nightmare. #WSJWhatsNow

Under AI's Watchful Eye, China Wants to Raise Smarter Students

1:00 AM - 27 Sep 2019

1,193 Retweets 1,450 Likes

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@KirilsSolovjovs, 2019. https://kirils.org

27 September 2018, The Wall Street Journal

@KirilsSolovjovs, 2019. https://kirils.org

13 Jun 2019, QUARTZ

Movement tracking

NOTHING TO HID3

CASH IS KING

Why Hong Kong's protesters were afraid to use their metro cards

By Mary Hui • June 13, 2019

MARY HUI

Inconvenience.

2019. https://kirils.org

22 October 2019, The Guardian

Spying on our kids

Under digital surveillance: how American schools spy on millions of kids

NOTHING TO HID3

@KirilsSolovjovs, 2019. https://kirils.org

22 October 2019, The Guardian

Spying on our kids

It's not clear what kind of "chilling effect" the monitoring might have on students' self-exploration, their group conversations and their academic freedom, Marlow, the ACLU privacy expert, said. If students know their schools are monitoring their computer usage, will LGBTQ students in conservative school districts feel comfortable researching their sexuality? What about young Trump supporters in liberal school districts who want to do some political research?

"Schools don't post on a bulletin board outside the principal's office, 'Here are the words we're searching for,'" Marlow said. "It forces students to be careful. They might not write about things or talk about things that are not, in fact, being monitored."

@KirilsSolovjovs, 2019. https://kirils.org

Spying on our kids

16 November 2013, Mick Amato / Merriam-Webster dictionary

gag verb

- to prevent from exercising freedom of speech or expression
- to restrict use of the mouth of by inserting something into it to prevent speech or outcry
- to pry or hold open with a gag

14 June 2019, The Intercept

"Data reuse"

expectation of privacy on Facebook. The simple act of using Facebook, Snyder claimed, negated any user's expectation of privacy:

> There is no privacy interest, because by sharing with a hundred friends on a social media platform, which is an affirmative social act to publish, to disclose, to share ostensibly private information with a hundred people, you have just, under centuries of common law, under the judgment of Congress, under the SCA, negated any reasonable expectation of privacy.

An outside party can't violate what you yourself destroyed, Snyder seemed to suggest. Snyder was emphatic in his description of Facebook as a sort of privacy anti-matter, going so far as to claim that "the social act of broadcasting your private information to 100 people negates, as a matter of law, any reasonable expectation of privacy." You'd be hard-pressed to come up with a more elegant, concise description of Facebook than "the social act of broadcasting your private information" to people. So not only is it Face-

@KirilsSolovjovs, 2019. https://kirils.org

Suicide prevention

When someone is expressing thoughts of suicide, it's important to get them help as quickly as possible. Because friends and family are connected through Facebook, we can help a person in distress get in touch with people who can support them. For years, people have had the ability to report Facebook posts that they feel indicate someone is thinking about suicide. This flags the posts for review by trained members of our Community Operations team, who can connect the poster with support resources if needed.

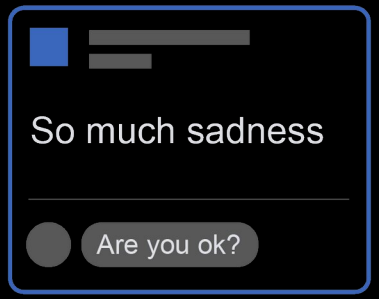
Last year, we began to use machine learning to expand our ability to get timely help to people in need. This tool uses signals to identify posts from people who might be at risk, such as phrases in posts and concerned comments from friends and family.

@KirilsSolovjovs, 2019. https://kirils.org

Facebook

Suicide prevention

Signals



Post details
e.g. post type, time posted, day posted

Classifiers[1]

Main text classifier

```
{
"so": 0.01,
"much": 0.02,
"sadness": 0.90,
"so much": -0.3,
"much sadness": 0.88,
"so much sadness": 0.99,
"s": 0.02,
"o": 0.04,
"m": -0.01,
"u": -0.09,
...
}
```

0.89[2]

Comment classifier

```
{
...
}
```

0.82[2]

Random forest learning algorithm[3]

Post flagged for additional review

Reviewed by Community Operations

Take Action

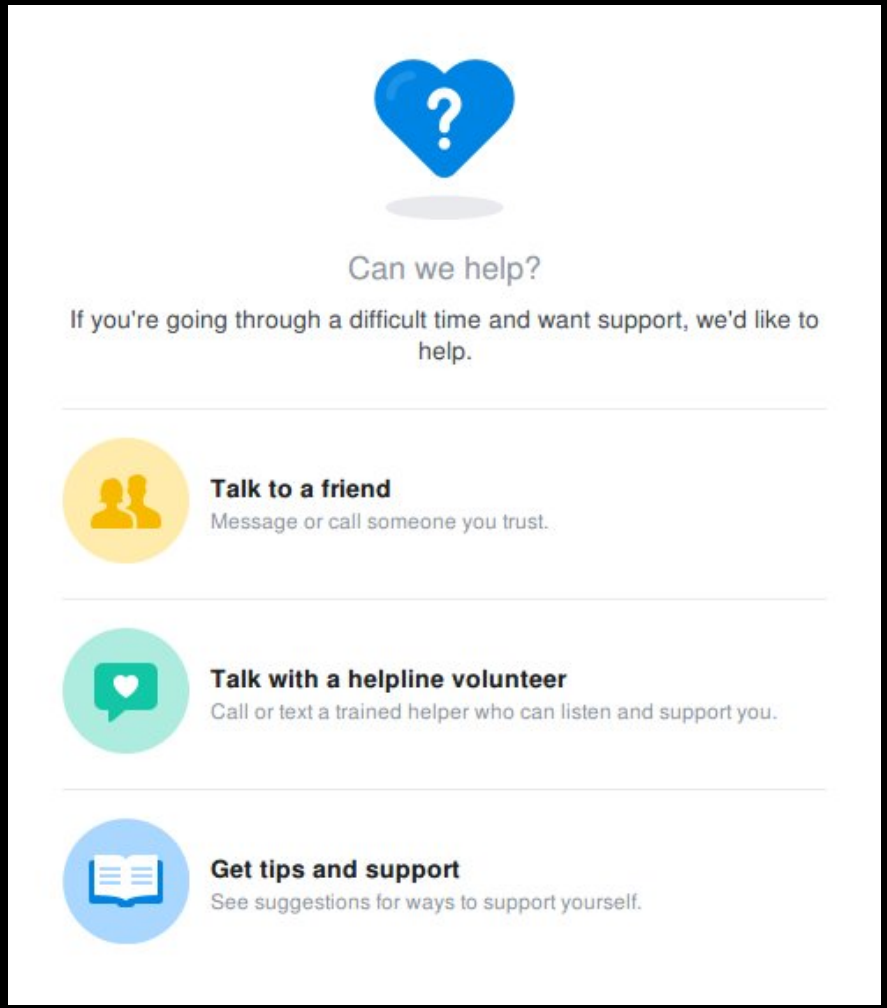
Send tips + resources

Escalate to local authorities in serious situations

NOTHING TO HID3

Facebook

Suicide prevention



NOTHING TO HID3

7 September 2019, Ars Technica

Facebook dating

THE DATING GAME —

Facebook dating is now available in the US. Here's how it works

Rollout includes new updates, including safety features, more Instagram integration.

LOUISE MATSAKIS, WIRED.COM - SEP 7, 2019 7:48 PM UTC

@KirilsSolovjovs, 2019. https://kirils.org

CCTV

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@KirilsSolovjovs, 2019. https://kirils.org

16 May 2019, METRO

Facial recognition

The man was fined £90 for pulling his jumper up over his chin and mouth (Picture: BBC Click)

A man was fined £90 for refusing to show his face to police trialling new facial recognition software.

The man pulled his jumper up above his chin as he walked past **Met Police officers trialling Live Facial Recognition** software in east London.

@KirilsSolovjovs, 2019. https://kirils.org

The end-of-end-to-end-encryption

@KirilsSolovjovs, 2019. https://kirils.org

31 Jul 2019, computing.co.uk

"warrant-proof" encryption

GCHQ has suggested that tech firms' communication services should be able to surreptitiously add intelligence agents to conversations or group chats'Five Eyes' member countries have called for technology firms to help intelligence agencies by providing them with special, backdoor access to WhatsApp and other encrypted communications.

The group has also warned that failing to do so would put lives of thousands of people at risk.

"The Five Eyes are united that tech firms should not develop their systems and services, including end-to-end encryption, in ways that empower criminals or put vulnerable people at risk," British home secretary, Priti Patel, said at the conclusion of the two-day meeting of Five Eyes member countries in London.

@KirilsSolovjovs, 2019. https://kirils.org

Rooted phones and custom ROMs

Custom ROMs and rooted phones aren't supported by WhatsApp. There are too many variations in these customizations for us to maintain a working product. Furthermore, custom ROMs and rooting don't allow the WhatsApp security model to function as intended. If you're using a custom ROM or rooted phone, your messages won't be protected with end-to-end encryption.

For the best WhatsApp experience, please use a stock ROM and remove root. Contact your phone's manufacturer for specific instructions on how to unroot.

9 Mar 2019, India Today

No secure apps, please

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News / Technology / News /

WhatsApp tells users to install official app, warns people using modified apps will be blocked

WhatsApp on its official has warned people of account ban if they use altered versions of WhatsApp like GBWhatsApp and WhatsApp Plus.

Priya Pathak

New Delhi

March 7, 2019 UPDATED: March 9, 2019 10:54 IST

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@KirilsSolovjovs, 2019. https://kirils.org

About Temporarily Banned Accounts

If you received an in-app message stating your account is "Temporarily banned" this means that you're likely using an unsupported version of WhatsApp instead of the official WhatsApp app. If you don't switch to the official app after being temporarily banned, your account might be permanently banned from using WhatsApp.

Unsupported apps, such as WhatsApp Plus, GB WhatsApp, or apps that claim to move your WhatsApp chats between phones, are altered versions of WhatsApp. These unofficial apps are developed by third parties and violate our Terms of Service. WhatsApp doesn't support these third-party apps because we can't validate their security practices.

How to switch to the official WhatsApp app

You might need to backup your chat history before moving to the official WhatsApp app. The name of the unsupported app you're using determines whether you need to transfer your chat history. Locate the name of the app by tapping **More Options** > **Settings** > **Help** > **App info**. Follow the steps below based on the name of the app: WhatsApp Plus or GB WhatsApp.

Loyalty cards / tickets

LŪDZAM AIZPILDĪT PIRMS IZSTĀDES APMEKLĒJUMA
PLEASE, FILL IN BEFORE VISITING THE EXHIBITION
ПРОСИМ ЗАПОЛНИТЬ ПЕРЕД ПОСЕЩЕНИЕМ ВЫСТАВКИ

Riga Food 2004

Ielūgums derīgs vienai reizei / This is a single entry card!
Приглашение только на одно посещение!

Vārds, uzvārds / First name, family name / Имя, фамилия
KIRILS SOLOVJOVS

Firmas nosaukums / Company / Название фирмы

Darbības sfēra / Profile / Сфера деятельности

Adrese / Address / Адрес
RIGA, BRIVIBAS 25-4

Tālrunis, fakss, e-pasts / Tel, fax, e-mail / Телефон, факс, э-почта

Sadarbībā ar / In collaboration with / В сотрудничестве с:

Latvijas Republikas Zemkopības ministriju
Latvijas Pārtikas centru
Latvijas Pārtikas uzņēmumu federāciju
Latvijas Tehnoloģisko centru
SO Mārketinga padomi
IRC Latvia
Latvijas Pavāru un konditoru apvienību

Ministry of Agriculture of the Republic of Latvia
Latvian Food Centre
Latvian Federation of Food Enterprises
Latvian Technological Centre
PO Marketing Council
IRC Latvia
Latvian Cooks and Confectioners Association

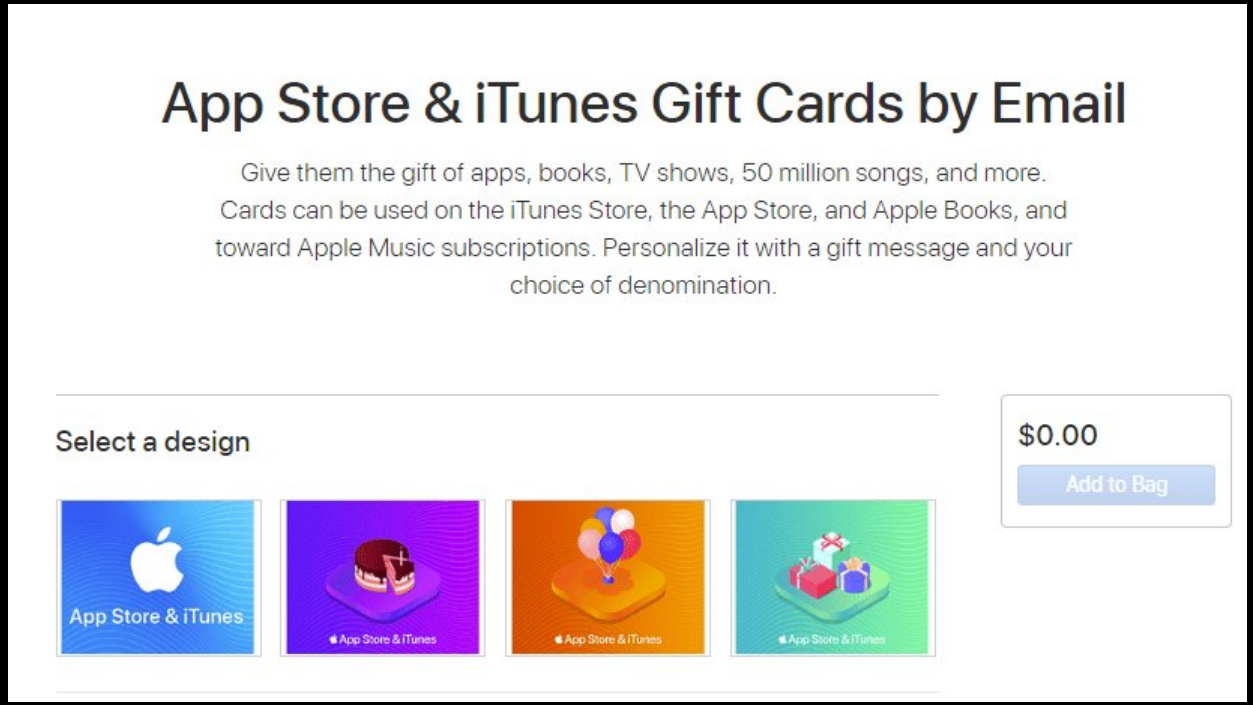
Министерством земледелия Латвийской Республики
Латвийским центром продовольствия
Латвийской федерацией предприятий пищевой промышленности
Латвийским технологическим центром
СО Советом по маркетингу
IRC Latvia
Латвийским объединением поваров и кондитеров

Ar šo ielūgumu Jūs varat apmeklēt Latvijas pavāru un konditoru čempionātu.
This invitation entitles you to visit the Latvian Cooks and Confectioners Championship.
С данным пригласительным билетом Вы можете посетить параллельно проходящий чемпионат поваров и кондитеров Латвии.

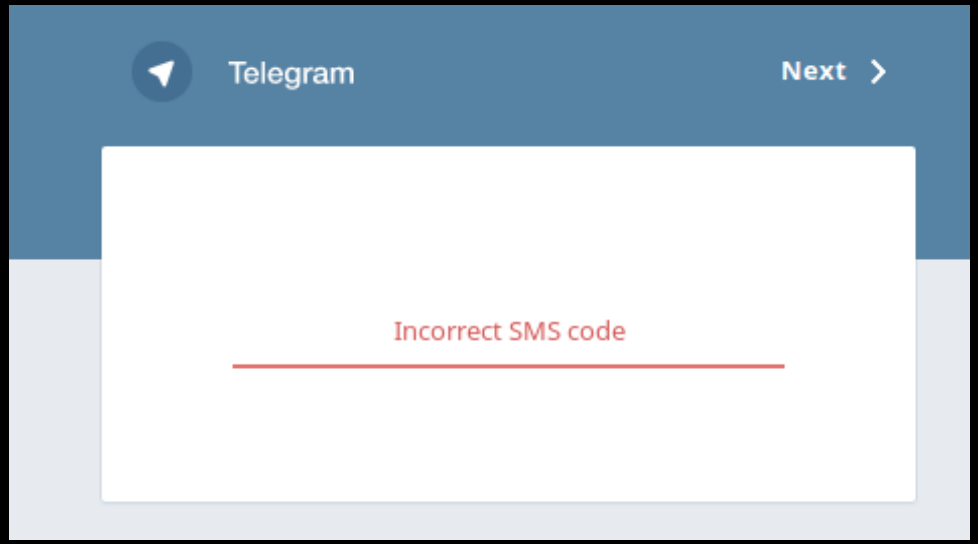
Firma:
Stenda Nr. / Stan
Фирма:
Стенд №

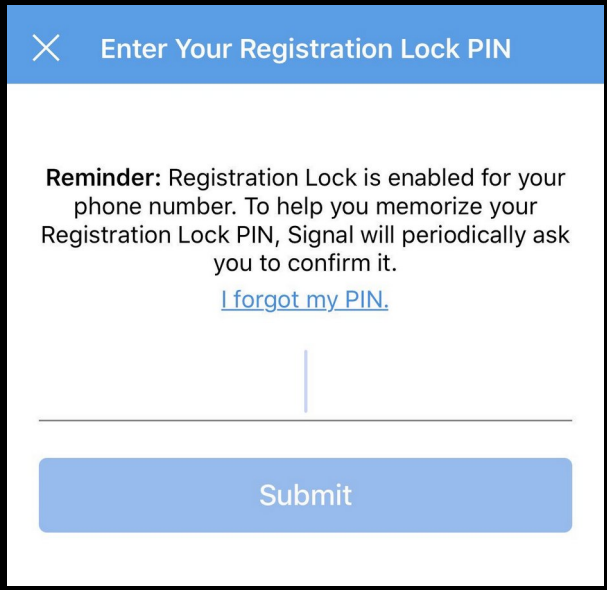
@KirilsSolovjovs, 2019. https://kirils.org

Buying apps anonymously



Messaging anonymously





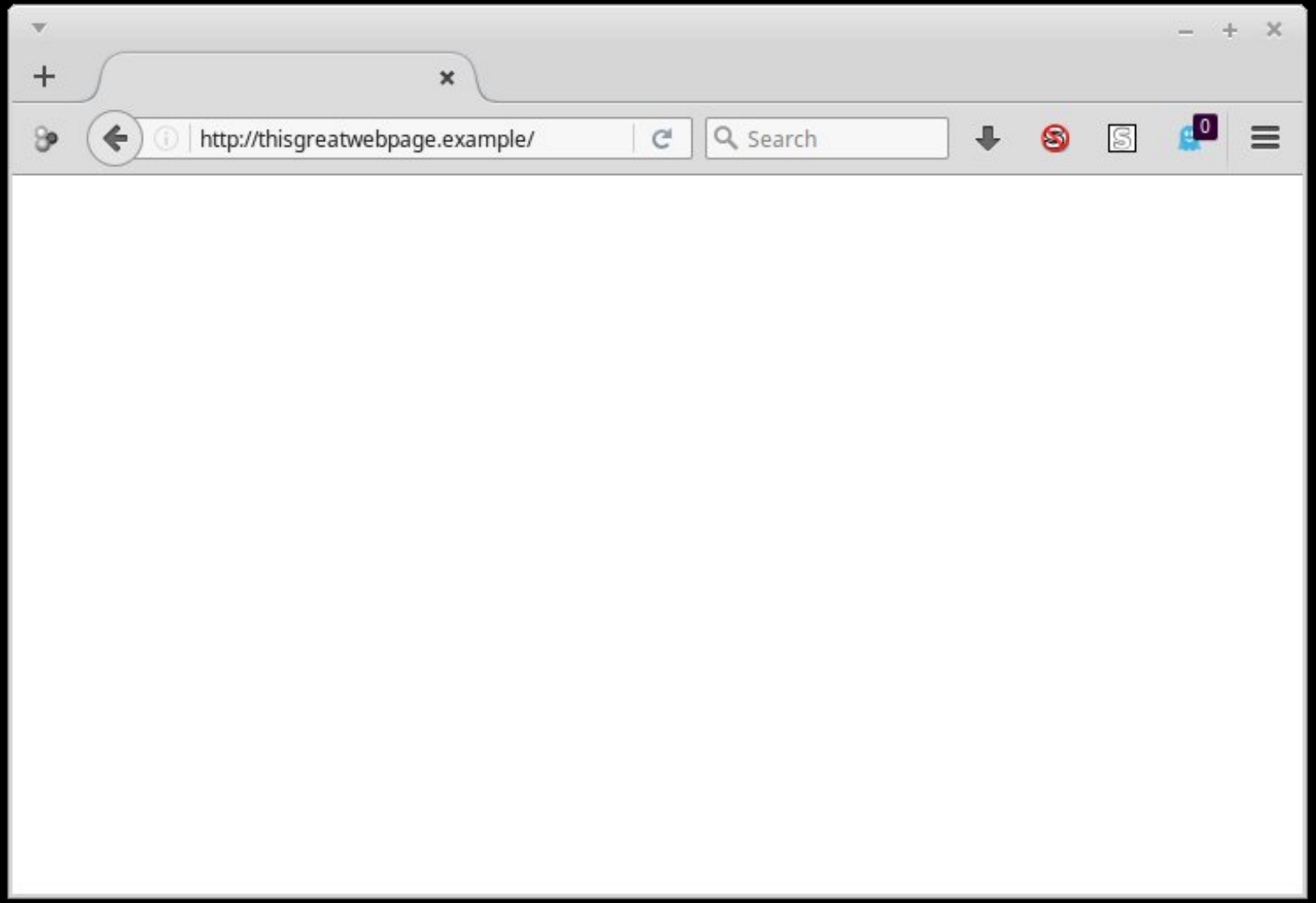
NOTHING TO HIDE

Latvijas Pasts / C3POST

Getting postal mail

NOTHING TO HID3

Web browsing



NOTHING TO HID3

Web browsing

Magenta... 4G VPN 18:09

Not Secure — explosm.net

Ads help us run this site

When you visit our site, pre-selected companies may access and use certain information on your device to serve relevant ads or personalized content.

> Information that may be used

> Purposes for storing information

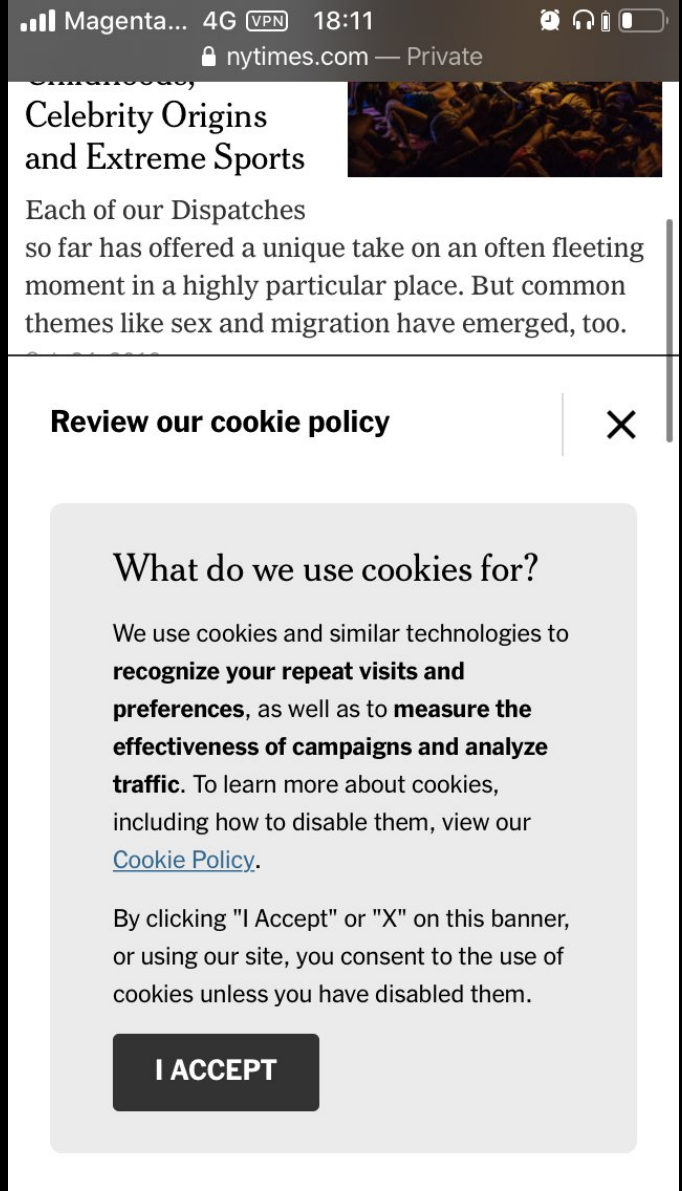
Learn More

Continue Using Site

NOTHING TO HIDE

@KirilsSolovjovs, 2019. https://kirils.org

Web browsing



NOTHING TO HIDE

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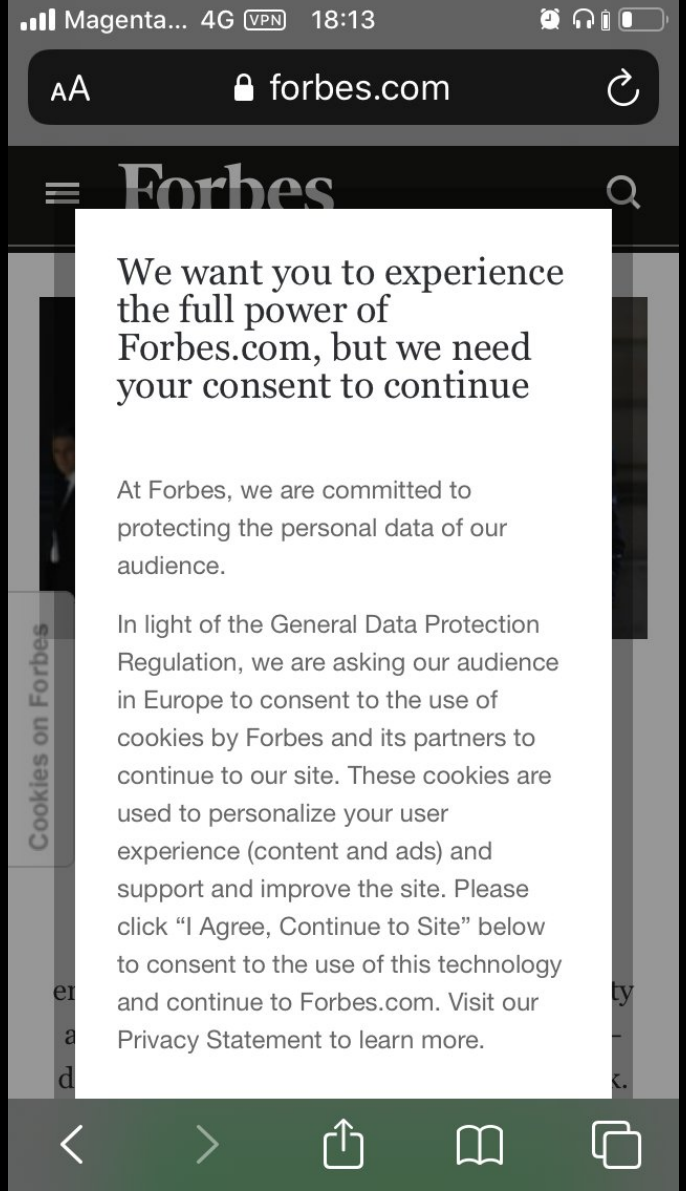
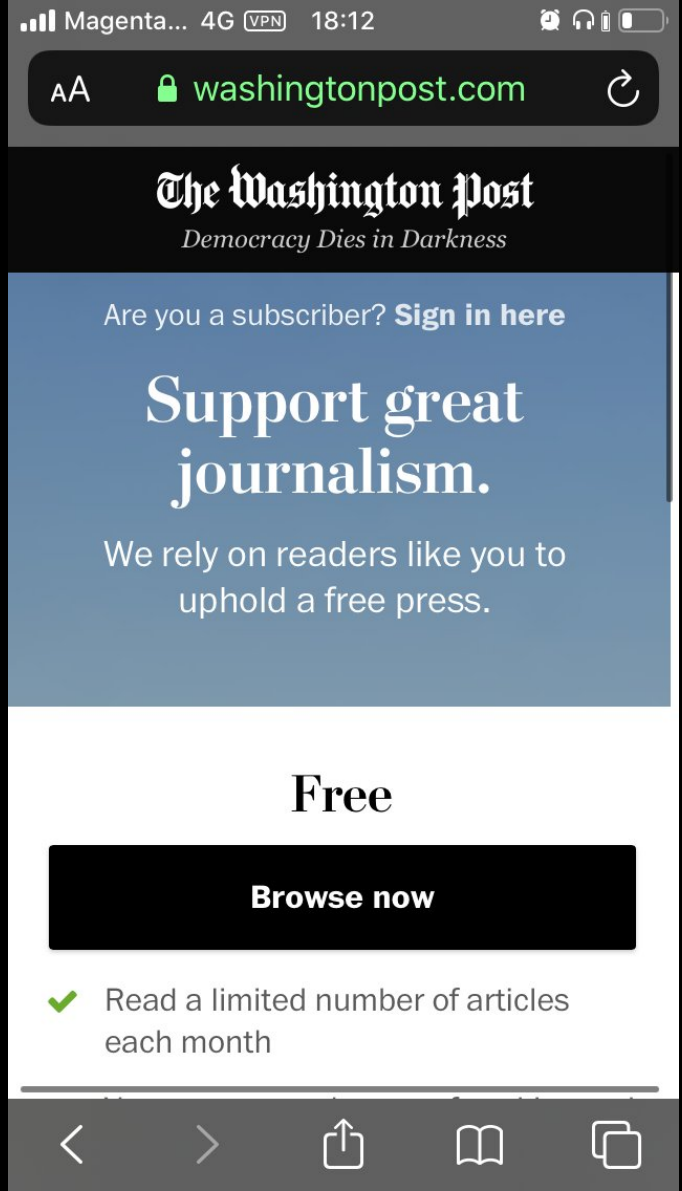
Web browsing



NOTHING TO HID3

@KirilsSolovjovs, 2019. https://kirils.org

Web browsing



NOTHING TO HIDE

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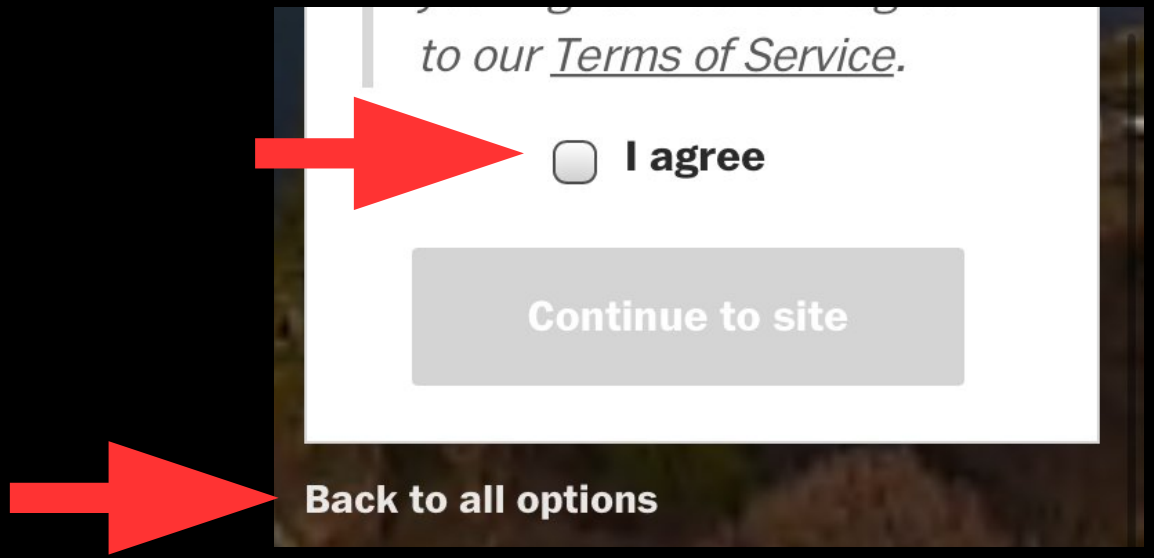
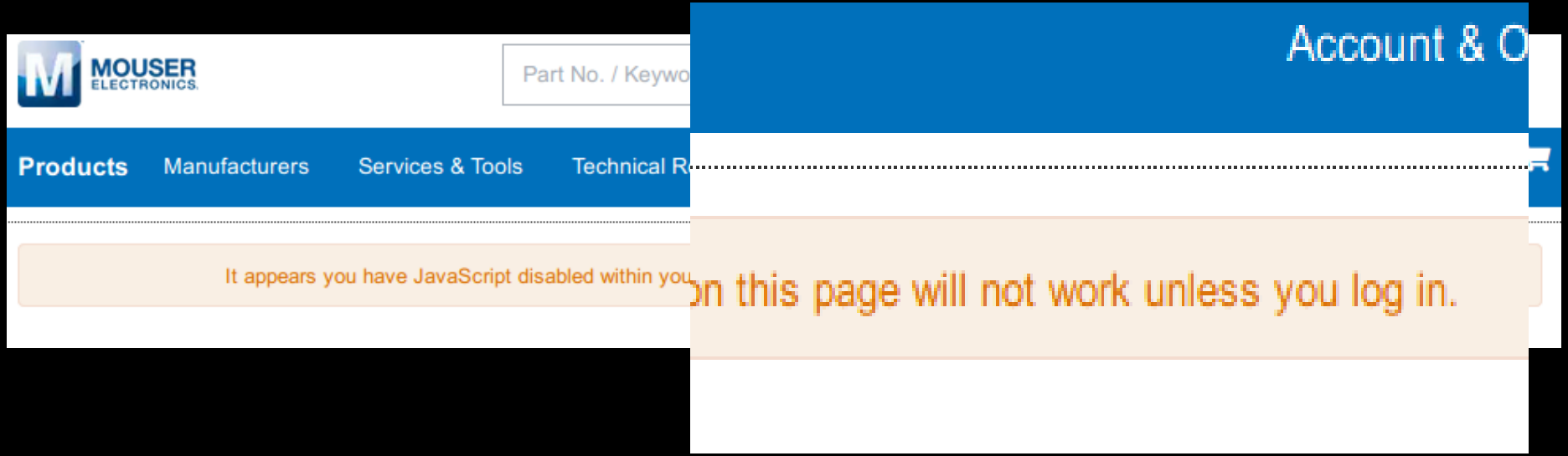
Web browsing

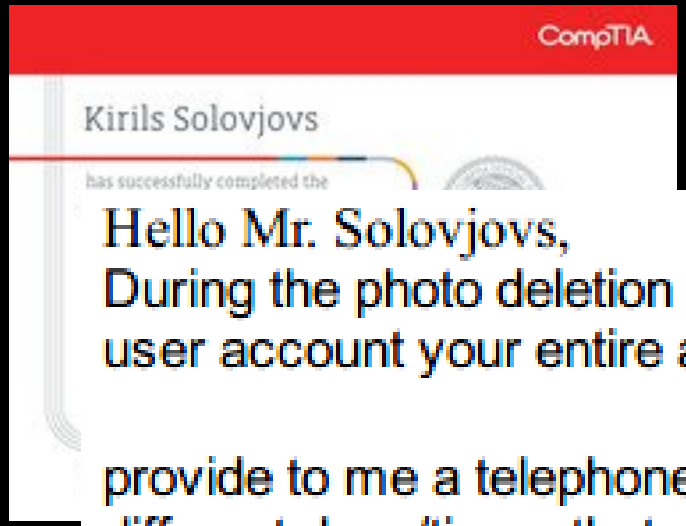


@KirilsSolovjovs, 2019. https://kirils.org

Web browsing



Certification exams



Hello Mr. Solovjovs,
During the photo deletion process you requested in your user account your entire account was deleted on our system.

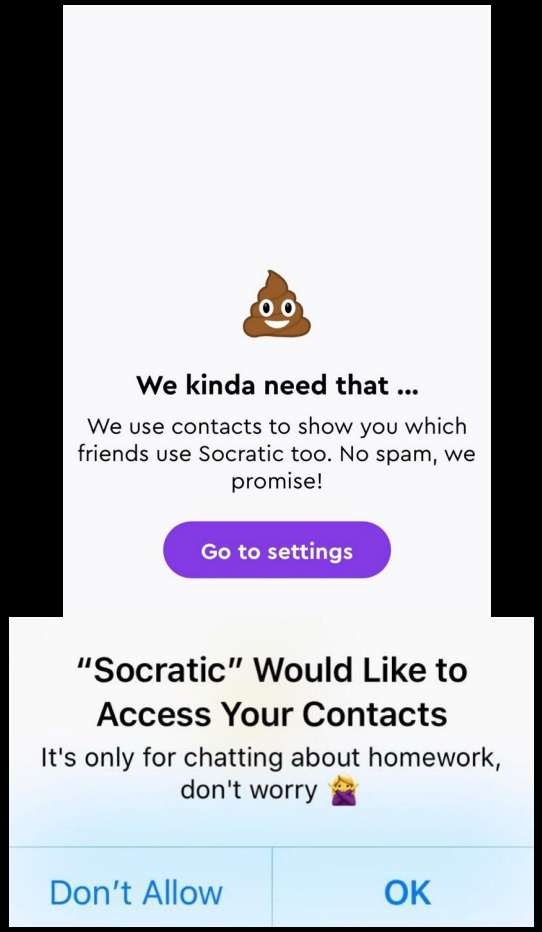
I kindly request that you please provide to me a telephone number that we may call you at and a few different days/times that you will be available so that we may have a customer service agent call you to assist you in adding a new username to your

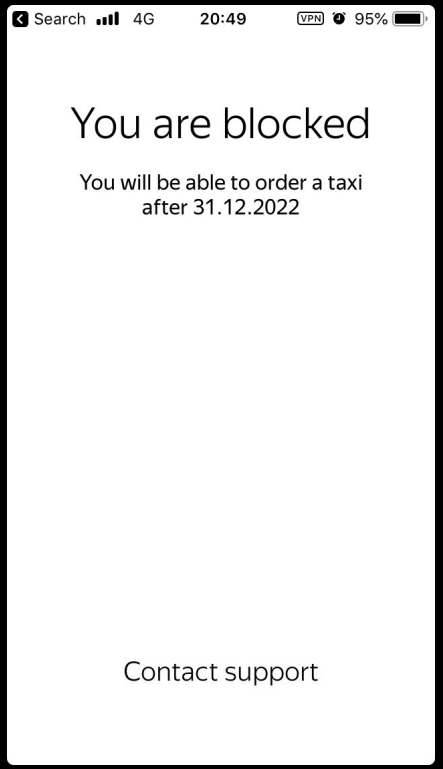
I sincerely apologize to you for this error and want to assure you that takes pride in our client and test taker relationships.

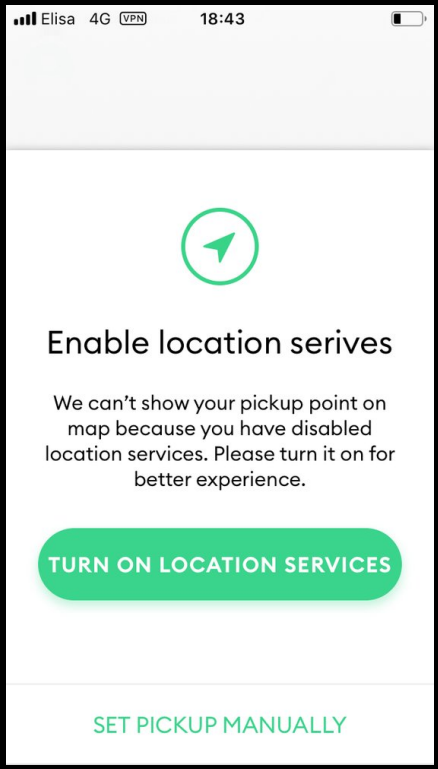
NOTHING TO HID3

@KirilsSolovjovs, 2019. https://kirils.org

Mobile apps





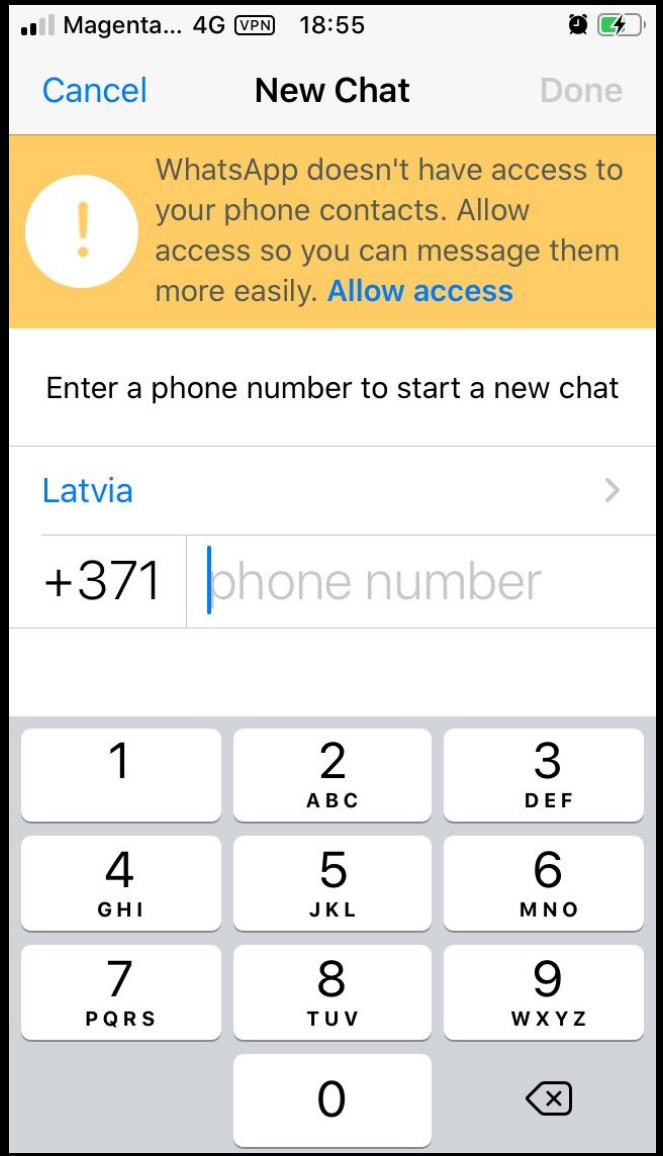


NOTHING TO HID3

Mobile apps

@KirilsSolovjovs, 2019. https://kirils.org

Mobile apps



NOTHING TO HID3

@KirilsSolovjovs, 2019. https://kirils.org

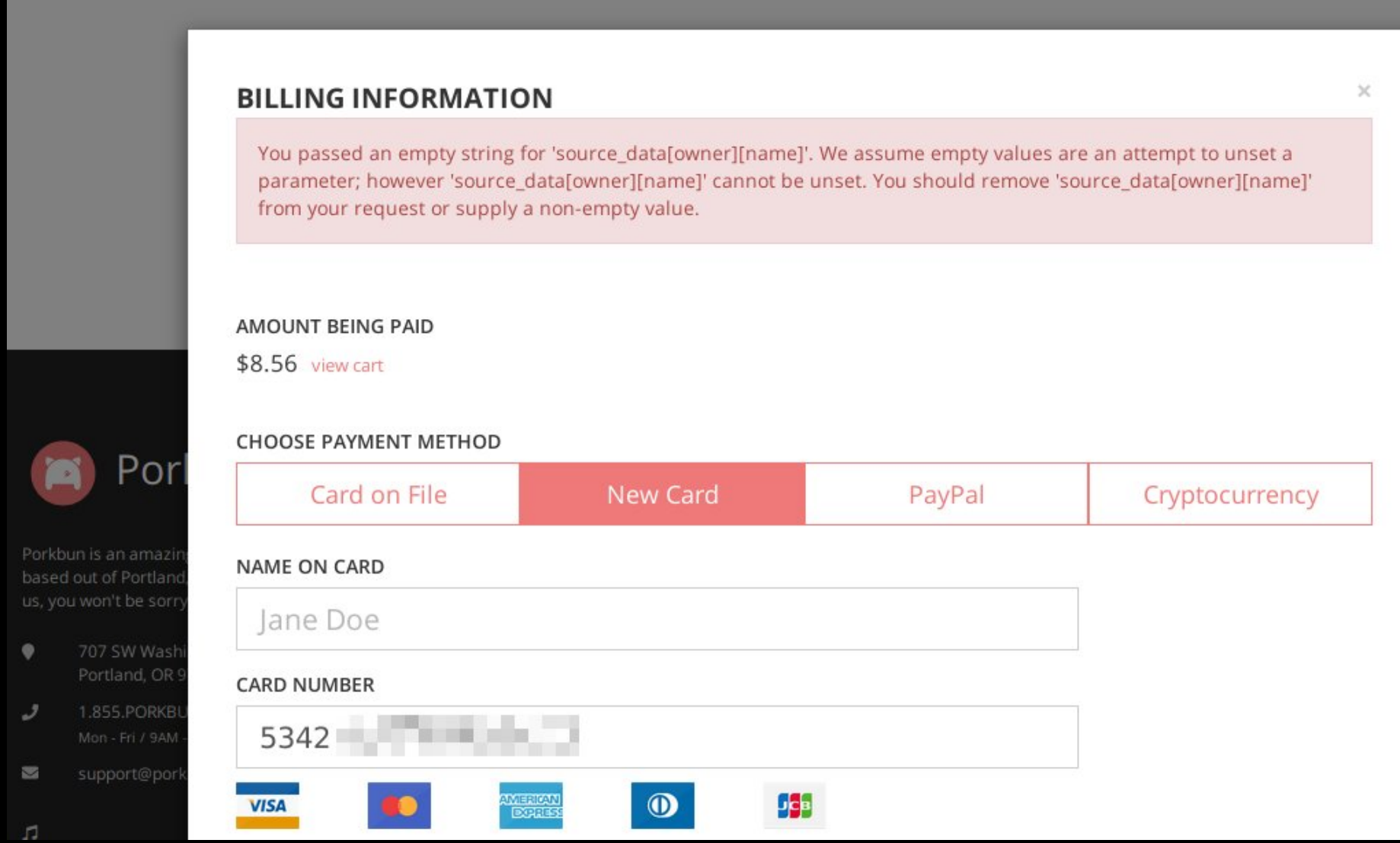
Yandex.Taxi privacy policy

Location.	To determine the pickup location. To generate a list of fare rates for the region.	Requires permission to determine your location using your mobile network or GPS. Transmission of location data can be disabled in your device's system settings.
Phone number.	Authorization. To generate push and SMS notifications. To allow the driver to communicate with the client.	The app cannot function without access to this data. If you do not wish to transmit this data, do not use Yandex.Taxi.
Email.	Generate ride reports.	You can remove your email address in the app settings.

Yandex.Taxi privacy policy

User interaction with interface elements: scrolling, clicking, and interacting with the menu.	To improve app performance quality.	The app cannot function without access to this data. If you do not wish to transmit this data, do not use Yandex.Taxi.
Device technical characteristics: model, manufacturer, operating system name and version, screen size, sensor information, device identifiers.	To improve app performance quality.	The app cannot function without access to this data. If you do not wish to transmit this data, do not use Yandex.Taxi.
Android operating system characteristics: amount of disk space, system settings, list of installed applications.	To improve app performance quality.	The app cannot function without access to this data. If you do not wish to transmit this data, do not use Yandex.Taxi.

Prepaid debit cards

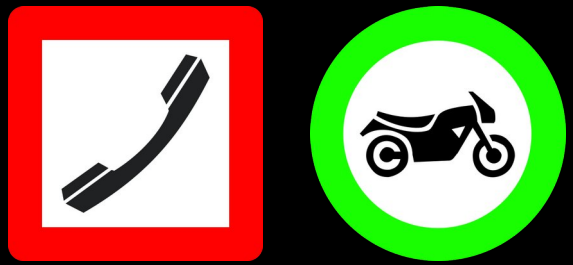


SMS spam

CreditOn.lv

Sveiki! Diemzel Tavs pieteikums paterina kreditam ir noraidits. CreditOn.lv

Laime MAXIMA davanu karti 50 EUR vertiba! Ienac sava CreditOn.lv profila, atjauno informaciju un piedalies izloze. Vairak informacijas Tava e-pasta.



NOTHING TO HID3

@KirilsSolovjovs, 2019. https://kirils.org

Fingerprints in passports

- "We don't need your fingerprint"
- "We only store fingerprint in your passport"
- "We also store its «hash» in a database"
  - wsq (FBI's Wavelet Scalar Quantization algo)
- "Hey, that's my whole fingerprint!"

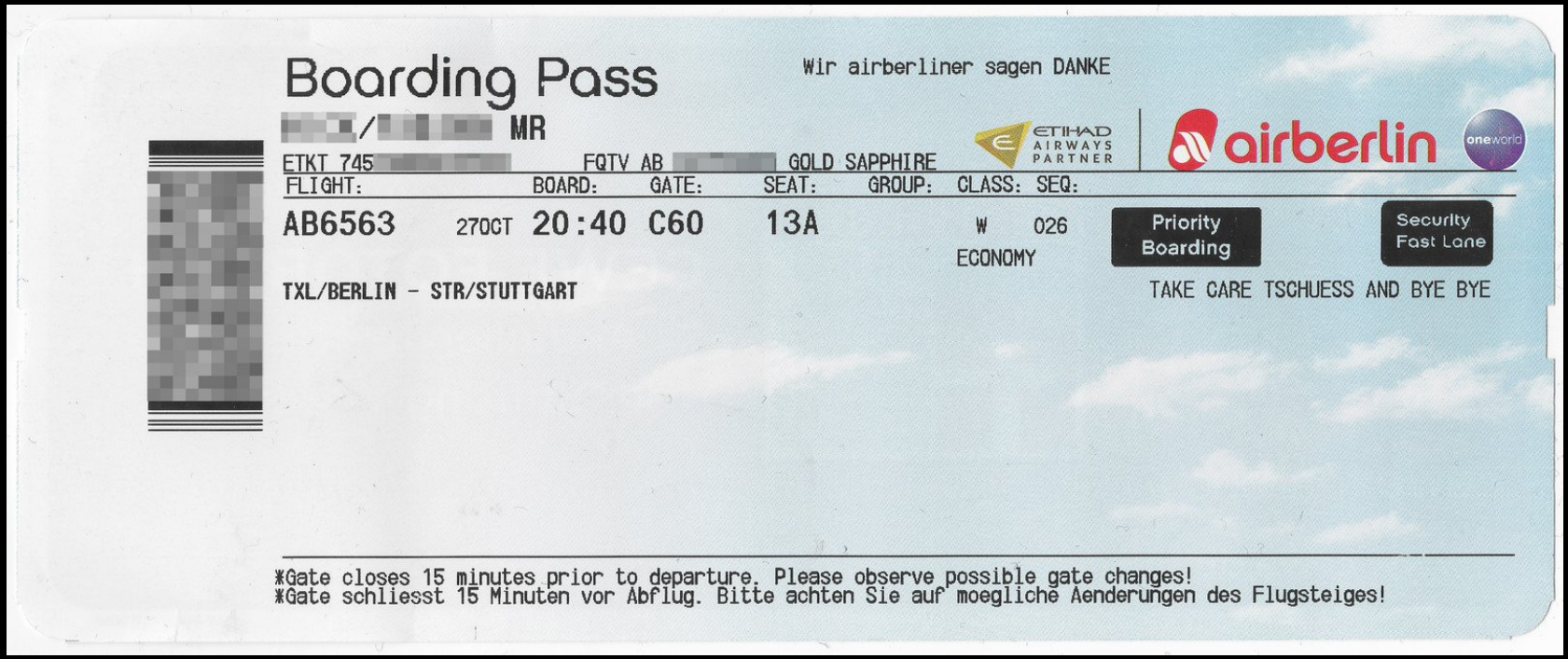
@KirilsSolovjovs, 2019. https://kirils.org

Public transport

@KirilsSolovjovs, 2019. https://kirils.org

Airport scanners

Boarding passes in shops



Boarding Pass

Wir airberliner sagen DANKE

[redacted]/[redacted] MR

ETKT 745[redacted] FQTV AB [redacted] GOLD SAPPHIRE

ETIHAD AIRWAYS PARTNER

airberlin oneworld

FLIGHT:	BOARD:	GATE:	SEAT:	GROUP:	CLASS:	SEQ:
AB6563	27OCT 20:40	C60	13A		W ECONOMY	026

Priority Boarding

Security Fast Lane

TXL/BERLIN - STR/STUTTGART

TAKE CARE TSCHUESS AND BYE BYE

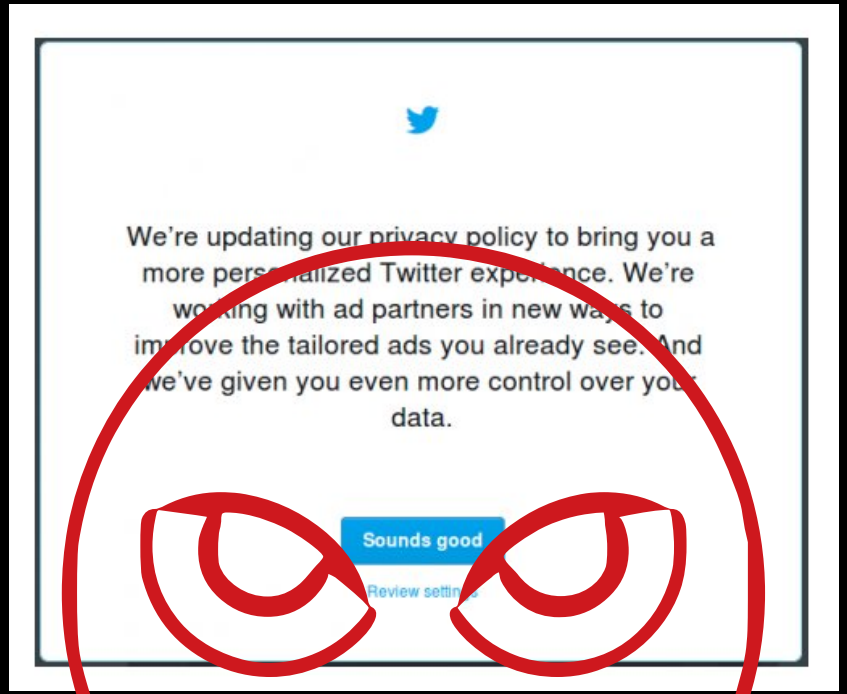
*Gate closes 15 minutes prior to departure. Please observe possible gate changes!
*Gate schliesst 15 Minuten vor Abflug. Bitte achten Sie auf moegliche Aenderungen des Flugsteiges!

Hey, let's make a barcode app for shopping in airports!

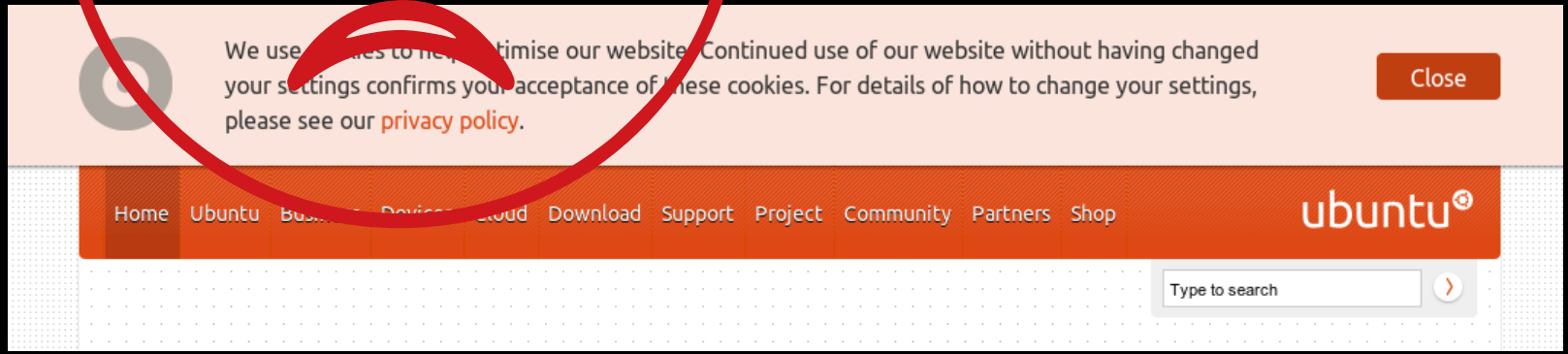
NOTHING TO HID3

Should we fix privacy?

Current status



- User demand ☹
- Cookie law 😐
- GDPR for "big data" ☹
- GDPR ☺
- Surveillance tech ☹
- Encryption 😐



NOTHING TO HID3

Looking forward

- User demand ☹
- Cookie law 😐
- GDPR for “big data” ☹
- GDPR ☺
- Surveillance tech ☹
- Encryption 😐

[2] no, there is no free beer

Who was that guy?

@KirilsSolovjovs

Follow me! It's free[1] ;-)

- A privacy zealot, obviously
- Lead researcher at Possible Security, Latvia
- Hacking and breaking things:
  - Network flow analysis & RE
  - Social engineering
  - Legal dimension

[1] free as in speech[2]