pass4thewin

phil

get the slides

https://x4m3.rocks/talks/pass4thewin.pdf

whoami

Phil

I change platforms frequently (Windows / OS X / Linux / Android / iOS)

Hate to waste time on setting up my machines

Want an easy way to handle passwords

Used Chrome’s password manager for a long time

passwords?

Hard to remember for humans

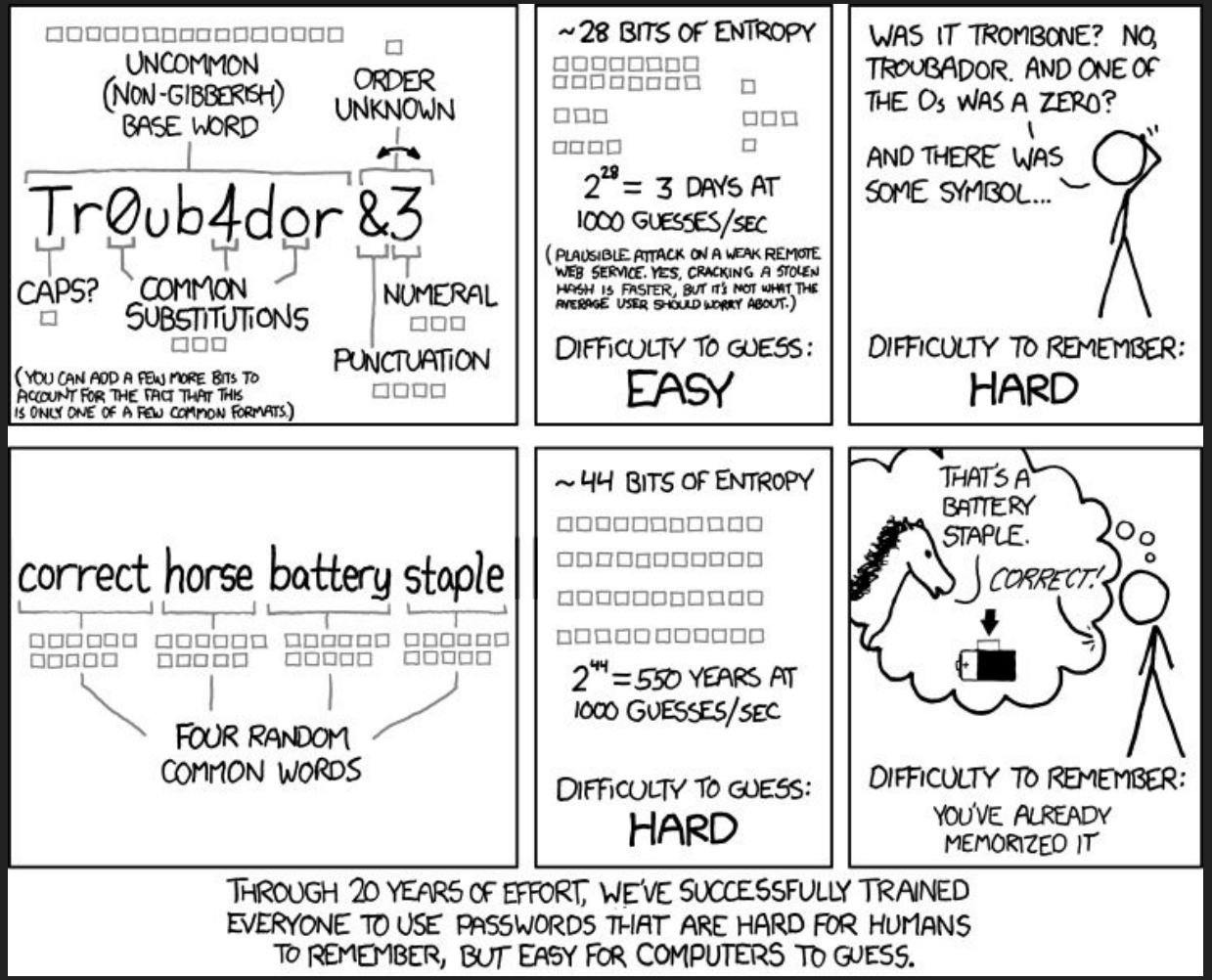
Short password: easy to remember but easy to break

Long password: hard to break but hard to remember

People are lazy (*we all are*), so we end up with this top 10 list of most used passwords:

Top 10 passwords of 2020	
1	123456
2	123456789
3	picture1
4	password
5	12345678
6	111111
7	123123
8	12345
9	1234567890
10	senha

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



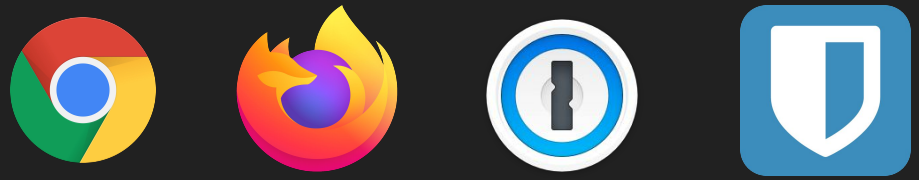
https://xkcd.com/936

password manager

Tool to store passwords

Remember only one (strong) password to unlock the manager

Let the password manager generate strong passwords



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Sync and cross-platform
~~~

pass

https://passwordstore.org

Command line password manager

Inspired by Unix philosophy (uses system tools, stores passwords in files)

Uses **gpg** for encryption / decryption

Uses **git** for syncing

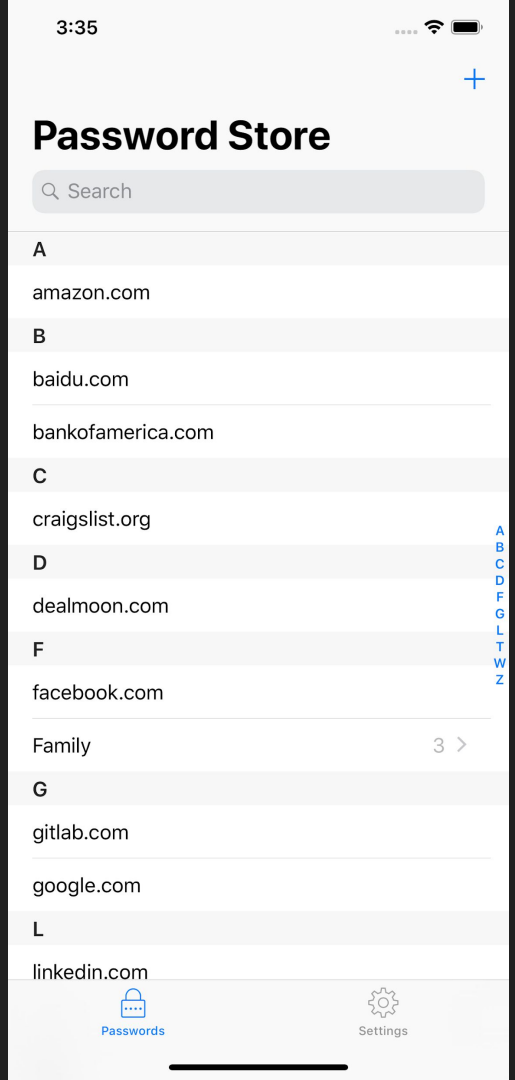
Extensions for browsers / desktop environments

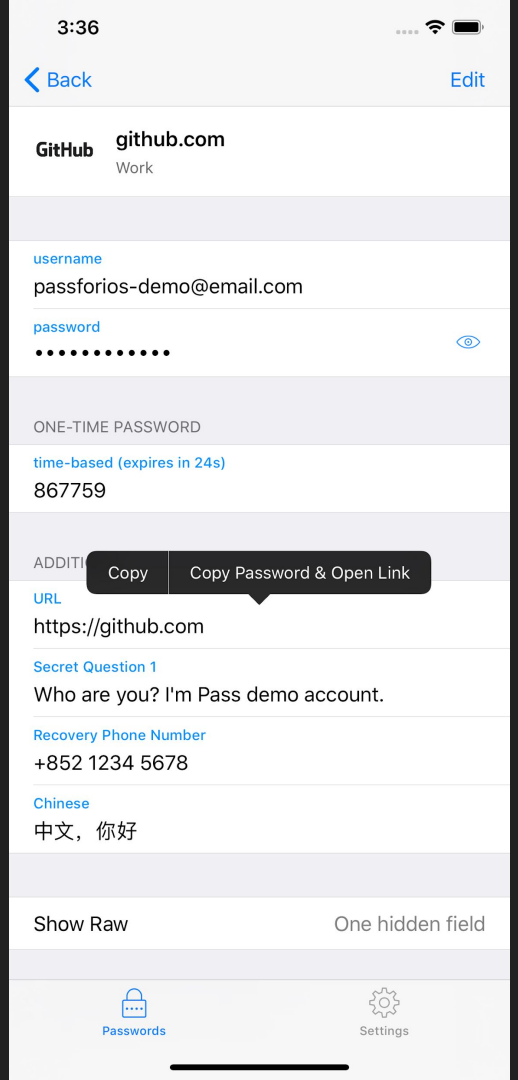
Language: Bash

Platform: Linux / OS X

passforios

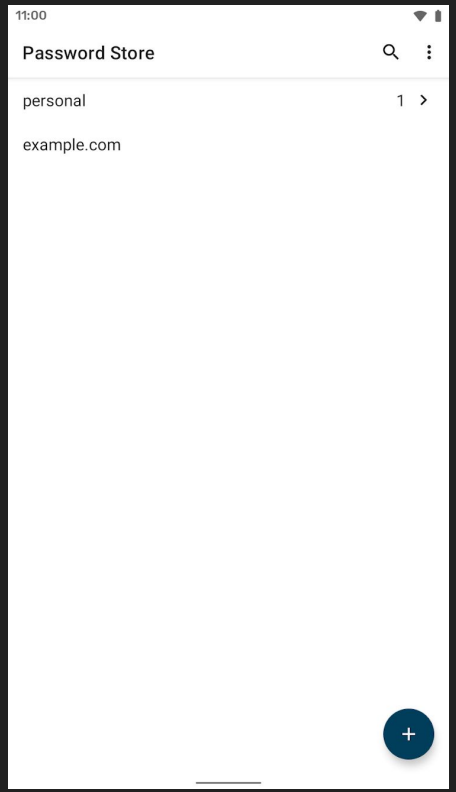
[Website]

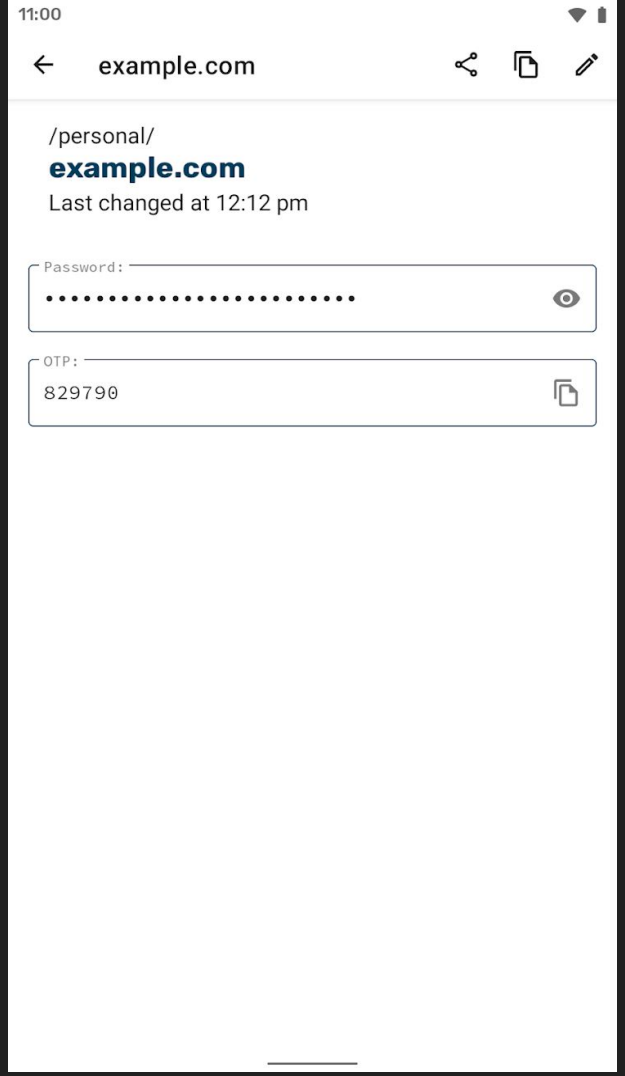




Android Password Store

[GitHub repo]



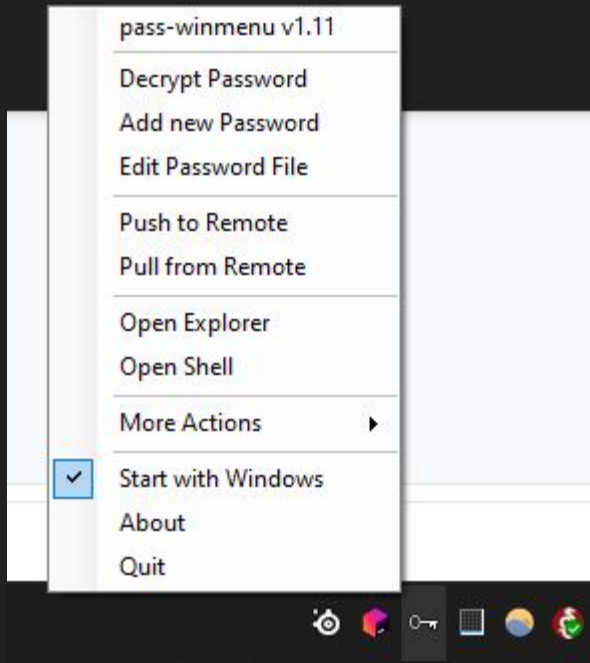


Windows?

pass-winmenu https://github.com/geluk/pass-winmenu

+ keyboard shortcut to get password
- gpg fails sometimes
- can require some setup
- git syncing has been difficult

I just wanted to use **pass** on Windows...



pass4thewin

pass for the windows platform

Designed for existing **pass** users who use windows

Built-in crypto with **sequoia-pgp** library

Uses **git** for syncing + built-in git add, rm, commit

Language: Rust

Platform: Windows

commands

insert / generate

move / delete

show (clipboard, qrcode)

edit

Bonus: otp 2fa

+ pass4thewin: built-in
- pass: need plugin

TODO:

- implement rest of the commands
- improve existing commands to match with `pass`
- better git support
- don’t ask the password of the private key every time
- internal: rewrite as lib with cli on top of it

If you find something that could be improved or useful to add, please tell me!

pass4thewin

https://github.com/x4m3/pass4thewin

- build from source
- prebuilt binary

should be okay for an everyday use (but not guarantees)

open source, MIT license

workshop

1. **Linux**
   - install pass
   - pgp key creation
   - create password store
   - setup git syncing
   - first commands (insert, show, generate, edit)
   - push to git repo

2. **Windows**
   - get pgp key and clone git repo
   - install pass4thewin
   - setup password store
   - insert & display otp

linux setup

install pass: https://passwordstore.org/#download

generate pgp key: https://www.redhat.com/sysadmin/creating-gpg-keypairs

export private pgp key:
https://makandracards.com/makandra-orga/37763-gpg-extract-private-key-and-import-on-different-machine

create private git repo: https://github.com/new

windows setup

- windows terminal: https://github.com/microsoft/terminal
- git: https://git-scm.com
- install pass4thewin: https://github.com/x4m3/pass4thewin
- edit windows path: https://www.architectryan.com/2018/03/17/add-to-the-path-on-windows-10

optional: to type `pass` instead of `pass4thewin` all the time

https://gist.github.com/x4m3/9cf04f8b5fdc8e26e255ce6e46aa141b

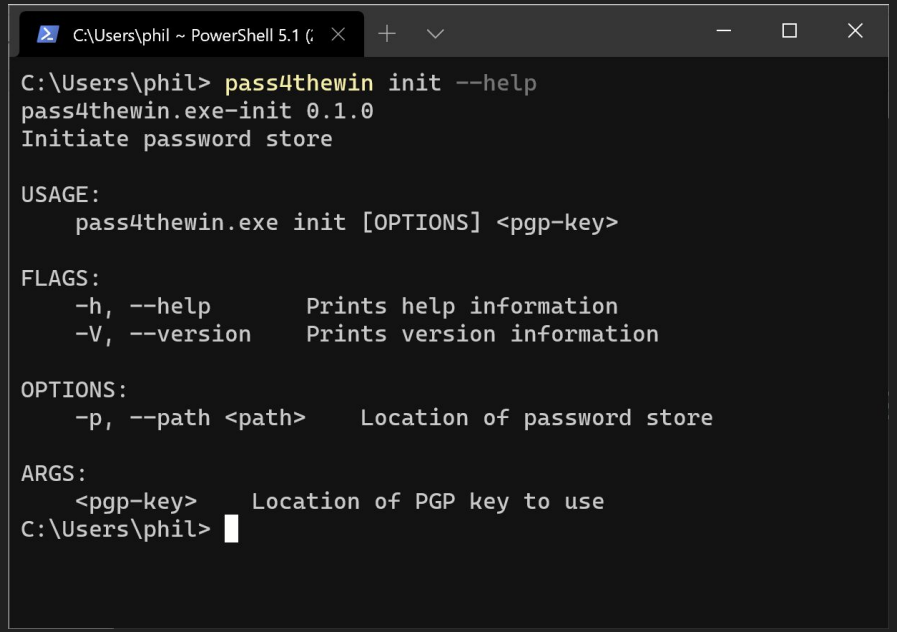
pass4thewin init

clone your git repo first

`pgp-key`: location of your pgp key

`--path`: location of password store

`~\.password-store`: default path



pass4thewin commands

insert

generate

show

show -c (for clipboard)

show -q (for qrcode)

edit

pass4thewin otp

2FA: 2 factor authentication

OTP: One time password

TOTP: Time based one time password

Use OTP when available and not the SMS method

Insert as password, and use `pass4thewin otp code my-otp`

```
otpauth://totp/philippe.loctaux%40epitech.eu?secret=JBSWY3DPEHPK3PXP&issuer=Epitech
```

thank you

http://philippeloctaux.com