



Privacy: Five Lessons from the Library

Jessamyn West @ Vermont Mutual Aid Society

<librarian.net/talks/privacy>

0. "threat model"

Scary word, but understanding what you have to protect yourself (or your data) from is an important part of making solid choices.

CERTAIN

EXPECTED

PROBABLE

POSSIBLE

NOT EXPECTED

1. passwords

Why are they so complicated?

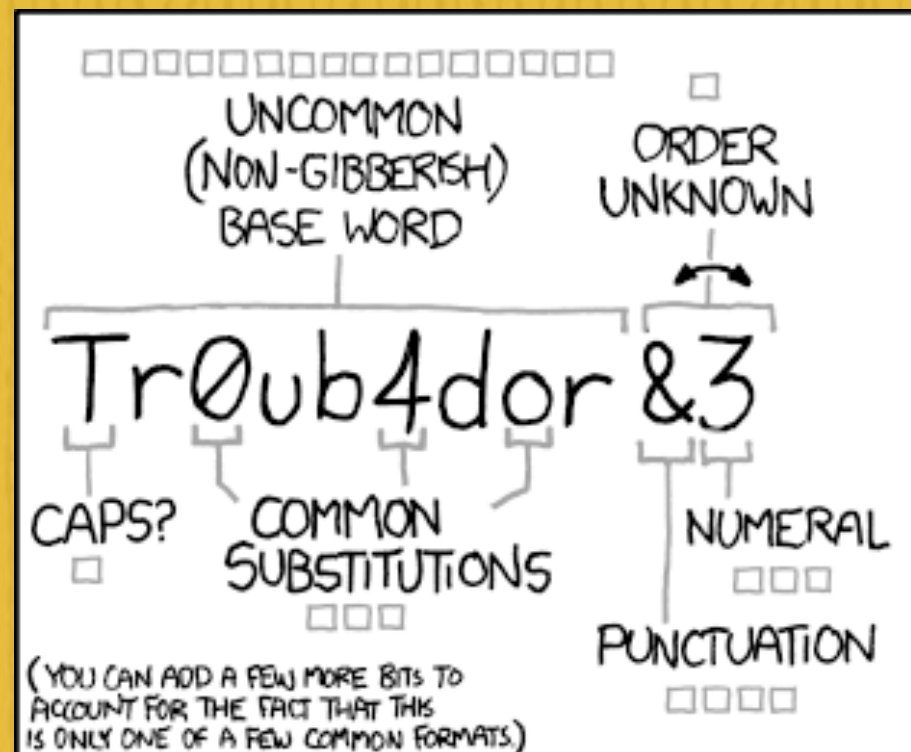
Is it OK to write them down?

Advanced: password manager.

**Advanced: two-factor
authentication.**

Advanced: what's a passkey?





~28 BITS OF ENTROPY

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$2^{28} = 3 \text{ DAYS AT } 1000 \text{ GUESSES/SEC}$

(PLAUSIBLE ATTACK ON A WEAK REMOTE
WEB SERVICE. YES, CRACKING A STOLEN
HASH IS FASTER, BUT IT'S NOT WHAT THE
AVERAGE USER SHOULD WORRY ABOUT.)

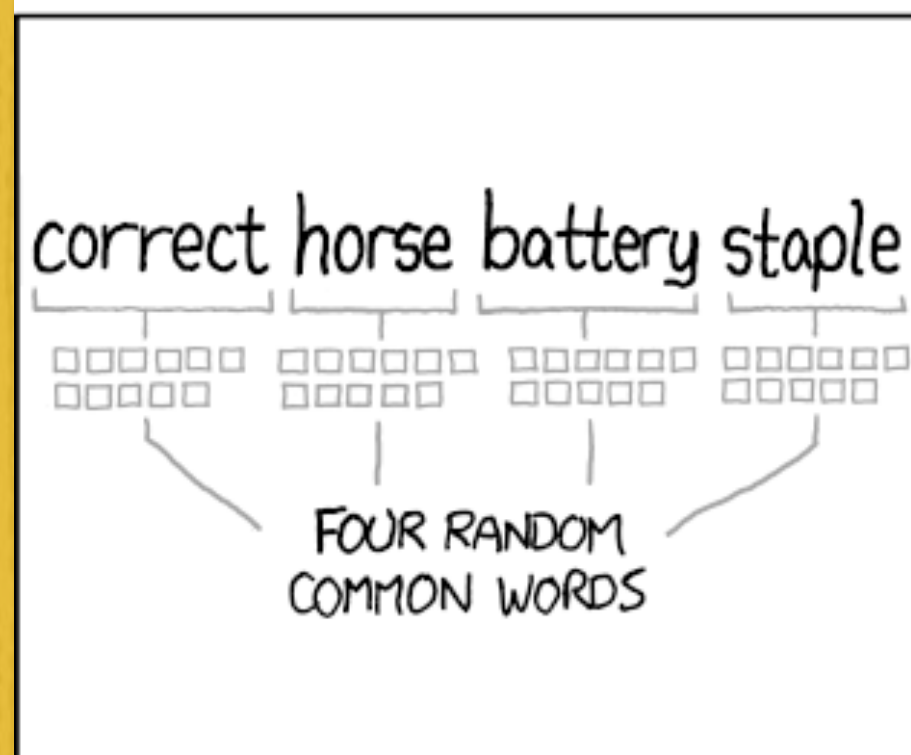
DIFFICULTY TO GUESS:
EASY

WAS IT TROMBONE? NO,
TROUBADOR. AND ONE OF
THE 0s WAS A ZERO?

AND THERE WAS
SOME SYMBOL...



DIFFICULTY TO REMEMBER:
HARD



~44 BITS OF ENTROPY

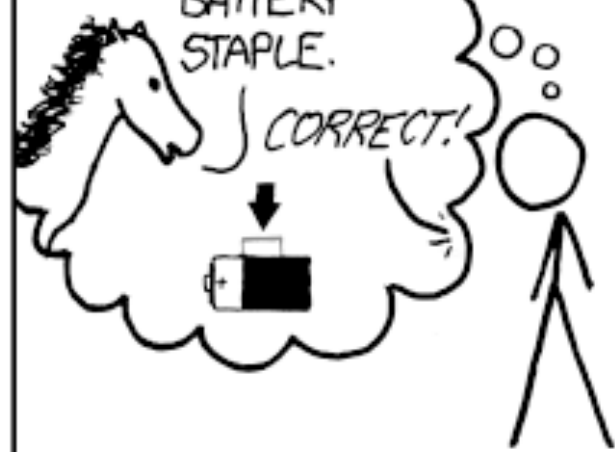
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$2^{44} = 550 \text{ YEARS AT } 1000 \text{ GUESSES/SEC}$

DIFFICULTY TO GUESS:
HARD

THAT'S A
BATTERY
STAPLE.

CORRECT!



DIFFICULTY TO REMEMBER:
YOU'VE ALREADY
MEMORIZED IT

THROUGH 20 YEARS OF EFFORT, WE'VE SUCCESSFULLY TRAINED
EVERYONE TO USE PASSWORDS THAT ARE HARD FOR HUMANS
TO REMEMBER, BUT EASY FOR COMPUTERS TO GUESS.

2. internet traffic

Private browsing.

Public wifi.

Online banking/medical stuff.

Is it HTTPS?

Advanced: VPN or TOR.



3. listening devices & AI/ChatGPT

If it's not online, it can't spy on you.

**Anything that listens for your voice
is actively paying attention and
maybe storing your info.**

**Privacy for your guests/patrons &
others.**

**What you type into a box, is
"remembered" in another box**

**Siri, Alexa, Google, ChatGPT,
Deepseek, your TV...**



“Please be aware that if your spoken words include personal or other sensitive information, that information will be among the data captured and transmitted to a third party through your use of Voice Recognition”

– Samsung

4. tracking

Review your browser settings.

Many browser plug-ins can stop this & are simpler to use than you think.

We've moved on from "What are cookies?"

Don't keep all your eggs in the Google or Microsoft or Apple basket.







DuckDuckGo

...but turn off that AI tho


5. trust but verify

"Where does this news come from?
Do I trust them?"

Don't click on mystery email links.
Don't call numbers you see in pop-
ups. Your computer probably
doesn't have a virus.





Know how to see where a link goes.

Advanced: tell your friends, report
what's wrong.



Bill Evans
American jazz pianist

Available on

-  YouTube
-  Apple Music
-  Spotify
-  More music services

William D. Evans is an American jazz saxophonist who was a member of the Miles Davis group in the 1980s and has since led several of his own bands, including Push and Soulgrass. Evans plays tenor and soprano saxophones. He has recorded over 17 solo albums and received two Grammy Award nominations. [Wikipedia](#)

Born: February 9, 1958, Plainfield, NJ


Died: September 15, 1980, Mount Sinai Hospital, New York, NY

Spouse: [Nenette Zazzara](#) (m. 1973–1980)

Children: [Evan Evans](#), [Maxine Evans](#)

Songs

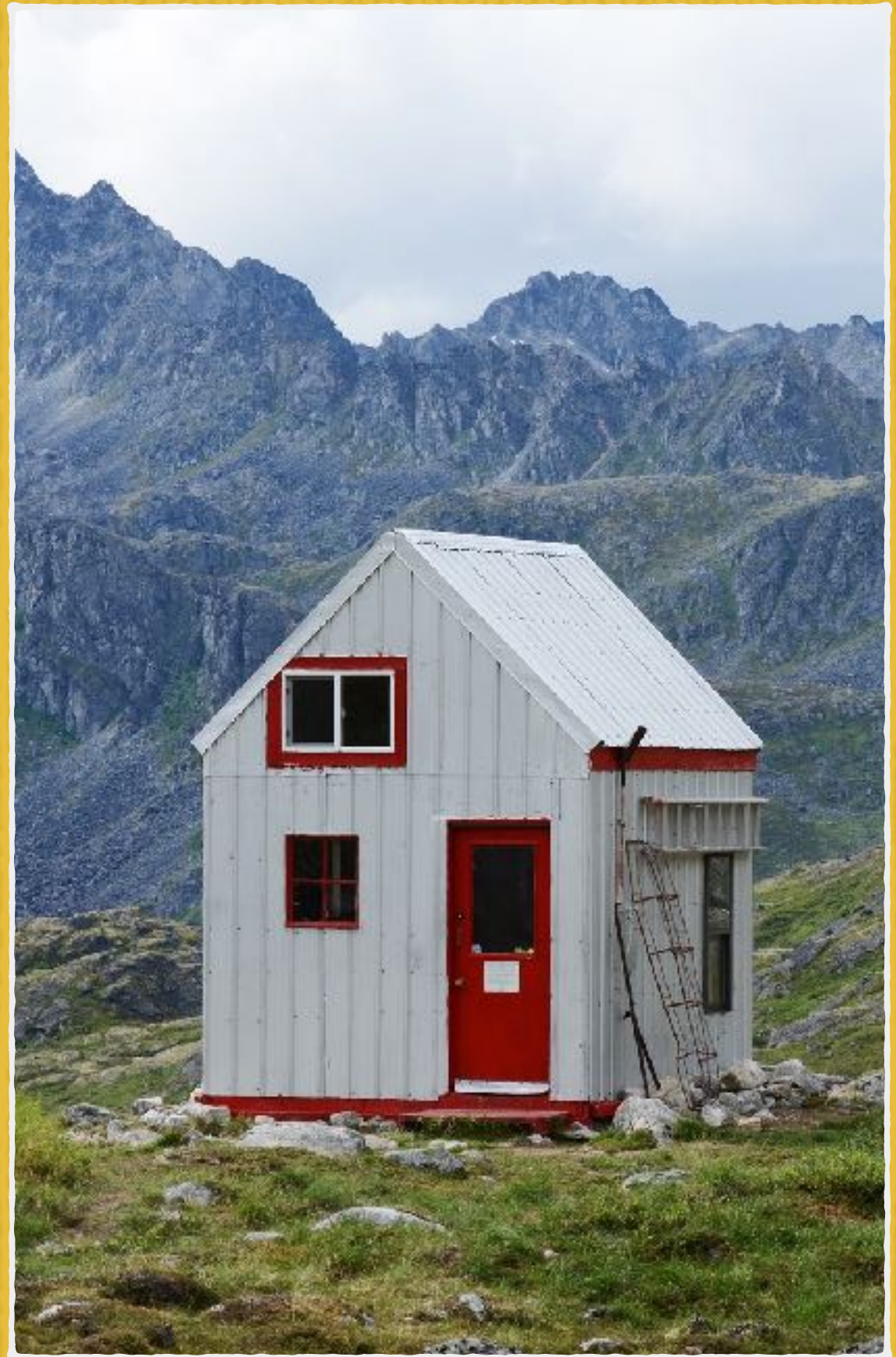
Waltz For Debby
New Jazz Conceptions • 1957



Learn to live with imperfect privacy.

**Don't let that stop you from trying
to do better.**

**Help people feel good about making
informed privacy choices that work
for THEM.**



Get your reality checked @ your library

**Librarians or other professionals
can help you or refer you to
people who can help.**

jessamyn@gmail.com



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