



# Internet Privacy Toolkit

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# 0. "threat model"

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Understanding what you have to protect yourself from is an important part of this.

**CERTAIN**

**EXPECTED**

**PROBABLE**

**POSSIBLE**

**NOT EXPECTED**



# 1. passwords

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Why are they so complicated?

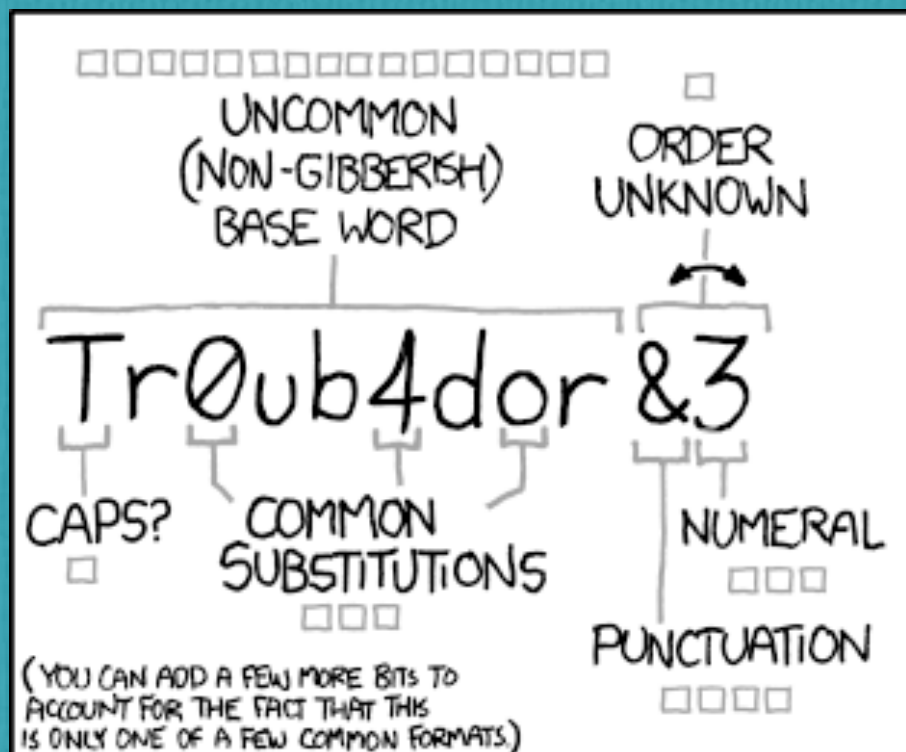
Is it OK to write them down?

**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 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**

correct horse battery staple

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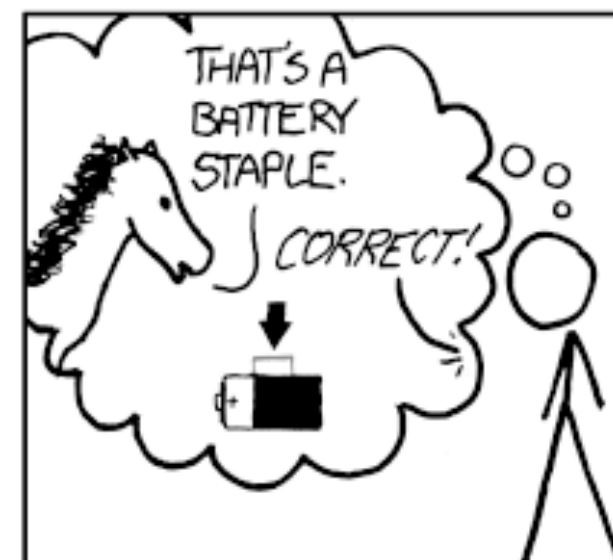
FOUR RANDOM  
COMMON WORDS

~44 BITS OF ENTROPY

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

DIFFICULTY TO GUESS:  
**HARD**



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**

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**Private browsing.**

**Public wifi.**

**Online banking/medical stuff.**

**Look for HTTPS.**

**Advanced: VPN or TOR.**



**https://**



### **3. listening devices & AI/ChatGPT**

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**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 guests & others.**

**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**

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**Review your browser settings.**

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

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







**HTTPS://**  
**EVERYWHERE**





**GHOSTERY**



DuckDuckGo



## 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.

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



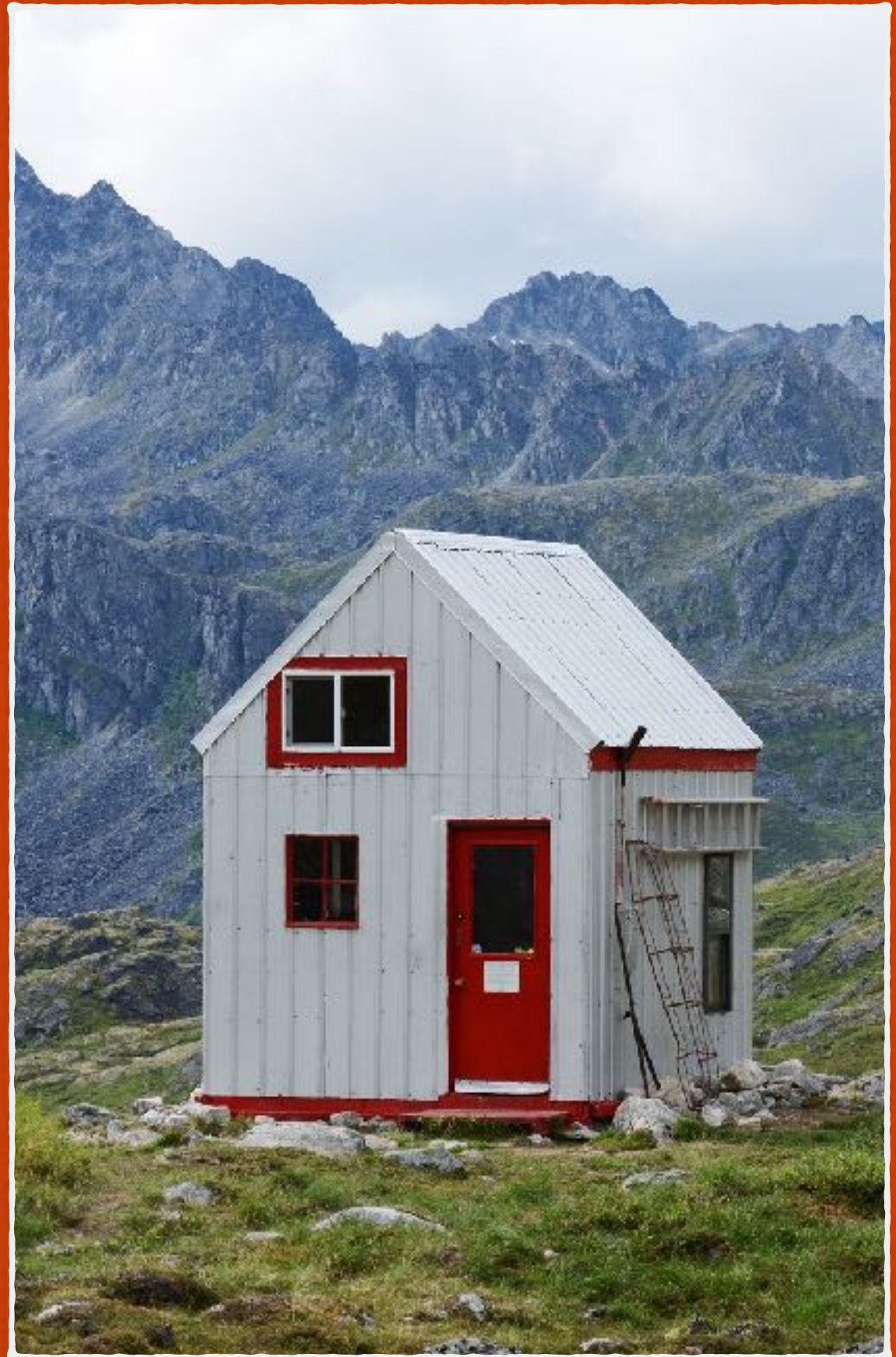


# **Learn to live with imperfect privacy.**

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

**Help people feel good about making  
informed privacy choices.**





# Get your reality checked @ your library

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Librarians can help you or refer you to  
people who can help.

[jessamyn@gmail.com](mailto:jessamyn@gmail.com)



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