



Internet Privacy Toolkit

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0. "threat model"

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

CERTAIN

EXPECTED

PROBABLE

POSSIBLE

NOT EXPECTED

1. passwords

Why are they so complicated?

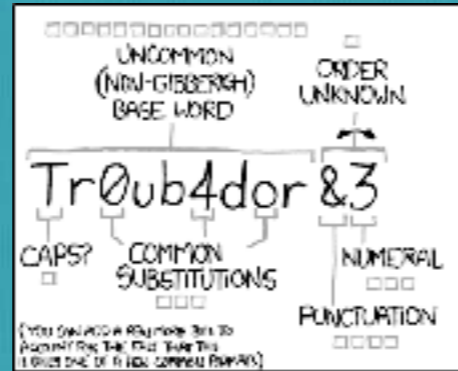
How can we make them easier to remember?

Is it OK to write them down?

Advanced: password manager.

Advanced: two-factor authentication.





~28 BITS OF ENTROPY

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

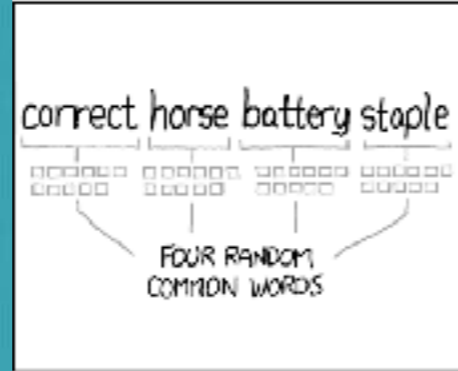
(STANDARD ALPHABET ON A JUNE 1940S KEYBOARD WOULD BRING THIS DOWN TO A STRAIGHT FEW HOURS, BUT IS FOR THE RECORD (WITH A PROBABLY HEAVY MATHS))

DIFFICULTY TO GUESS: EASY

WAS IT TROMBONE? NO, TROMBADOR, AND ONE OF THE Os WAS A ZERO?

AND THERE WAS SOME SYMBOL...

DIFFICULTY TO REMEMBER: HARD



~44 BITS OF ENTROPY

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

DIFFICULTY TO GUESS: HARD

THAT'S A BATTERY STABLE

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.

Look for HTTPS.

Advanced: VPN or TOR.



https://

3. listening & recording devices

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

Anything that listens for your voice is actively
paying attention.

Privacy for guests & others

Siri, Alexa, Google, 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.

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





 **HTTPS://**
EVERYWHERE



GHOSTERY



DuckDuckGo

5. trust but verify

Not so much "fake news" as "Where does this news come from?"

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.



Sir Richard Temple, 1st Baronet

Singer

Shirley Temple Black was an American actress, singer, dancer, businesswoman and diplomat who was most notable as Hollywood's number one box-office star from 1935 to 1938. [Wikipedia](#)

Born: March 8, 1928, Hampden, United Kingdom

Died: February 12, 2014, Hampton, United Kingdom

Full name: Shirley Jane Temple

Children: Lori Liane, John Rexar Agar, Charles Aiden Black II

Spouse: Charles Alden Black (m. 1950–2003), John Agar (m. 1947–1950)

Movies

[View 654 more](#)



The Little Princess
1939



Bright Eyes
1934



Curly Top
1935



The Little Colonel
1935



Heidi
1937



How much do you know about cybersecurity?

Test your knowledge on cybersecurity topics and terms by taking our 10-question quiz. Then see how you did in comparison with a nationally representative group of 1,055 randomly selected adult internet users surveyed online between June 17 and June 27, 2016. The survey was conducted by the GfK Group using KnowledgePanel.

When you finish, you will be able to compare your scores with the average American and see explanations for the terms and topics in each question. The analysis of the findings from the poll can be found in the full report, "[What the Public Knows About Cybersecurity](#)."

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