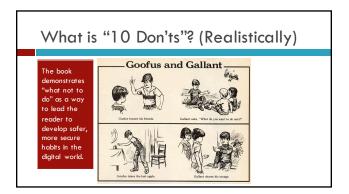


What is "10 Don'ts"? (Officially)

In nontechnical language and engaging style, 10 Don'ts on Your Digital Devices explains to non-techie users of PCs and handheld devices exactly what to do and what not to do to protect their digital data from security and privacy threats at home, at work, and on the road. These include chronic threats such as malware and phishing attacks and emerging threats that exploit doud-based storage and mobile apps.



Developing "Reasonable Paranoia"

Certainly, not everyone is out to get you and your data. But some people are absolutely out to get someone's data.

The "10 Don'ts"

- 。 Don't Get Phished
- Don't Give up Your Password
- o Don't Get Lost in the Cloud
- Don't do Secure Things from Insecure Places
- Don't Look for a Free Lunch
- o Don't Let the Snoops In
- Don't be Careless when Going Mobile
- Don't Use Dinosaurs
- Don't Trust Anyone
 Over...Anything
- o Don't Forget the Physical

Don't Get Phished

"Phishing" is a virtual attack that uses a compelling or attractive lure to acquire confidential or proprietary information through the use of fraudulent electronic communication.











Passwords Passwords work best when they're long, complex, not written down, and not reused Password length (using an 83-character keyboard) An 8-character password has 83 ^ 8 possible combinations = 2,252,292,232,139,040 A 12-character password has 83 ^ 12 combinations = 106,890,007,738,661,000,000,000!

Passwords

- □ Complexity: think in terms of passphrases
 - □ If your daughter's name is Sally and her birthday is April 10, <u>sally410</u> is a pretty weak password
 - But <u>Sally'sbirthdayisApril10</u> is a much stronger passphrase!

Passwords

- Don't write them down "Post-it note security" is no security!
- Use a password manager to track multiple passwords
 - Programs such as "KeePass" ask the user to create a "master" password, then other passwords are stored

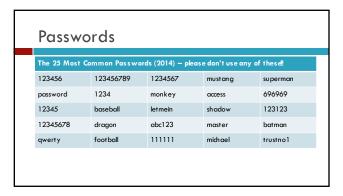


Passwords

- □ Don't use the same passwords everywhere!
- When hackers gain access to a particular database, they'll try those credentials on other sites
 - □ If amazon.com suffers a breach, most users change only their amazon passwords — even though they probably use the same email/password combination on many other sites!







Don't Look for a "Free Lunch" If it seems too good to be true, it probably is...

"Free Lunches"

- □ Don't look for music, software, movies for free
- Paid software isn't given away any site daiming to do so is probably malidous!
- Trial versions from reputable companies, or streaming music services from "well known" names (Apple, Pandora, etc.) are generally OK
- □ But <u>no one</u> is giving away Adobe Photoshop for free!





Mobile Devices We're a constantly-connected society Pew Research data (2014): 90% of Americans own at least one cell phone 58% own a smart phone 67% check them without hearing an alert or tone 44% sleep with the devices at their bedside We therefore use these devices for everything

■ Work, banking, personal family correspondence, etc.

Mobile Devices What happens when that device is lost or stolen? Is there a passcode or password on the device? Or even better, biometric (fingerprint) security? Is it tracked using Apple's "Find My iPhone" or Google's Device Manager? The value of the device is usually insignificant compared to the value of the data stored on it

Don't Forget the Physical

Using strong passwords, diligence when reading emails / visiting websites — it's great to develop protective "digital habits." But the easiest way for someone to access your data is by getting their hands on your device.

Physical Security

- Many of us have occasional need to give someone unattended access to our home
 - Realtors, landlords, cleaning services, etc.
- Other times, we're present when someone is in our home, but we're not necessarily supervising them
 - Pest control technicians, plumbers, electricians
- Parents (or grandparents!) might also have babysitters, the kids' friends, etc. in your home

Physical Security

- If any of these people had 5 minutes unattended with your computer / iPad what data could they obtain?
 - Could they just sit down at your computer, no password required, and look through your files?
 - Are your banking / credit card sites bookmarked in your browser, with a saved password?
 - Could they pick up your iPad (no passcode needed) and start reading your email?

Physical Security

- □ If a friend/family member spends the night at your house, do you give them your wifi password?
 - Is that the same password used elsewhere?

same password across multiple devices and services



"Reasonable Paranoia"

- Be cautious when dicking links or opening attachments in email
 - If you're at all skeptical, don't click verify with the sender
- $\hfill\Box$ Be smart with your passwords, and don't give them up
- $\hfill\square$ Watch out for deals that are "too good to be true"
- □ Keep track of your mobile device
- □ Even at home, be aware of the security of your devices

10 Don'ts on Your Digital Devices



- □ 10donts.com
- tendonts@gmail.com

ericrz@virginia.edu

- □ facebook.com/10donts
- Twitter: @10donts
- Amazon: 10donts.com/amazon
- Currently 21 reviews, 4.8 star average
- □ Available at the UVA Bookstore
- 30% eBook discount for Senior Statesman attendees: Code \$\$V100, use at 10donts.com/apress (exp 11/15/15)