Protecting your smartphones, I tablets and Computers from Spam and Malware, via Antivirus and other methods and X tools



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While helping **iii** family, friends and **iii** colleagues on various projects, we have learned some things. In an attempt to keep these processes repeatable, and keep myself organized, I **iii** record and maintain some helps on this subject. Based on ideas from my own knowledge, <u>Network World</u> and <u>Kim Komando</u>. I sent out precursors of this document to relatives four times in 2013 and early 2014. For date this file last updated, please see page footer. For information on **‡** green or other </>

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1 Introduction

Like nuclear radiation, cyberwar doesn't make you bleed, but it destroys everything. If you are not **paying** for the product, you **are** the product. - R. David Edelman, as heard by EP on 2018-01-19.

Throughout your $\Box \Box \Box$ computer use, I ask you to use:

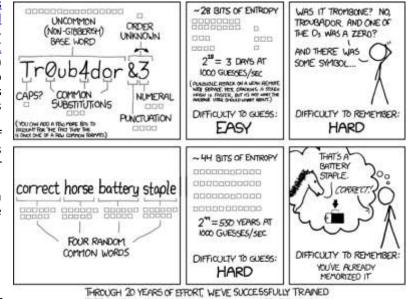
Brian Krebs' <u>Three Rules for Staying Safe Online</u>:

- If you didn't go looking for it, don't Install it! This means, among other things:
 - Don't let anything install while you are just browsing the web or answering № email.
 - If you see a popup Window you didn't expect, Close it with the red X in the corner (or Alt-F4), not any of its Yes or No or other buttons. The exceptions are Flash and Java, covered in a sec...
 - If you want it, go Search for it, at known good source, e.g., Search engine <u>DuckDuckGo</u>. For example:
 For Flash, see <u>below</u>.
 - For Java, see below.
 - If you are installing something, **uncheck** any checkboxes or radio buttons for offerings you don't need.
- o *If you Installed it, Update it.* Covered <u>below</u>.
- o If you no longer need it, Remove it. Covered below.

Strong, unique passwords, on every computer account:

- Yes, unique, i.e., not shared with other accounts. Sorry about that. Yes, you will have to maintain a list. There are electronic ways of doing this, e.g., LastPass, LogMeIn, Dashlane and KeePass. I don't, but keep mine in only three places, under my physical control. For details, call me.
- OK, if you can't handle unique passwords for **every** account:
 - reuse passwords only for unimportant accounts (library, etc.),
 - use unique strong passwords for your № email provider, bank, 401(k), IRA, etc.
- Yes, passwords **strong** enough not to be guessed by *dictionary attacks*:
 - Hard to guess not your mother's maiden name, SSN nor anything else that can be **looked up**.
 - Longer is better. FBI recommends passphrases over password complexity. Pros are going to 64 characters, not 8. Even 12 or 16 (FBI and NIST recommend at least 15) letters is stronger (and easier to type) than 8-character combinations of lowercase, uppercase, numbers and symbols.
 - Increasingly popular are strings of <u>three unrelated words</u>, such as <u>untidygreenideas</u> or <u>brilliancebronzeinputs</u>.
 - Or perhaps in <u>camelCase</u>, with numbers or symbols thrown in, like 94greenIdeas.
 - Kim Komando's suggestions. Nice password-checker. Google's suggestions and Account Checkup and Security Checkup.

If you have a **new □** *smartphone,* **□** *tablet, or* **□** *computer,* as soon as practical, please do the



EVERYONE TO USE PASSWORDS THAT ARE HARD FOR HUMANS TO REMEMBER, BUT EASY FOR COMPUTERS TO GUESS.

<u>one-time harden your computing platforms</u> steps below. By "harden", I mean the process of securing a system, by reducing its *surface of vulnerability* (its *attack surface*), and making it more *resilient* to attack.

 \mathfrak{B} If you have not yet upgraded your **Microsoft Windows 8.1** or **Windows 7** device to **Linux** or **Windows 11** for free, please see my full instructions for \square smartphone or \square tablet or \square computer. If you can't run Windows 11, this app should tell you why.

Every **month** or so, please do the **monthly** steps below. Thank you for running a tight ship!

If **I** received **spam** that appears to be **from your** \square email address, I will ask you to do **all** the <u>emergency</u> <u>procedures</u> below. Thank you!

If **you** received **spam** that appears to be **from my** ▷ email address, I will clean my machine right away using the <u>emergency procedures</u> below. But to help me understand, and or find out if I am being spoofed, please tell me: □ Your spam appears to be from **which** of my email addresses?

- Optional: Can you send me the "Internet Headers" a bunch of codes and stuff associated with the email
 that doesn't come along if you Forward or Reply?
 - If you use **Apple's email client** or **Comcast Xfinity** or **Microsoft Outlook** to do your email: • Bring up the **offending email**.
 - Get an email ready to go to me, perhaps by **Forward**ing the above. In the offending email:
 - If for email, you use Apple's email client, do a View > Message > Raw Source > collect that stuff.
 - If for email, you use ▷ Comcast Xfinity email client, select the = hamburger icon in upper-right corner > View source > collect that stuff.
 - If for email, you use № Microsoft Outlook, do a File > Properties > bottom half under "Internet Headers" > click in it somewhere > Ctrl-A (Select All) Ctrl-C (Copy) > Close.
 - \circ Swap over to the email to me, and **Paste** it in somewhere. **Send** it to me!
 - I will probably analyze it as in https://lifewire.com/how-to-find-email-server-ip-address-818402.
 - Phone me that you are sending it, so when I don't see it, I will check my two spamfilters. Thank you!
 - Note for me: If needed, analyze it after reviewing How to Find An IP Address of An Email Sender.

2 One-time: Shopping for your \square \square communications platforms

2.1 One-time: Shopping for your Gamma smartphone

- □ See my recommendations on <u>□ very-low-cost mobile cellphone service</u>.
- □ See recommendations of magazine *Consumers Reports* (free at your local library).
- □ After you buy your phone, <u>harden it as below</u>. By "harden", I mean the process of securing a system, by reducing its *surface of vulnerability* (its *attack surface*), and making it more *resilient* to attack.
- □ After your new device is up and running well, <u>retire/donate/dispose of your old device as below</u>.

2.2 One-time: Shopping for your \square **computer**

- □ List the **tasks** you intend to do on your **□** computer (e.g., email, browse Internet, write documents/spreadsheets/presentations, do finances, family history/genealogy, write and build software).
- To that list, add a column for apps/installed software you need to run to accomplish those tasks (e.g., MS Office with Outlook, Quicken, Family Tree Maker, Beyond Compare and Eclipse).
- □ To that list, add a column for which **operating system** those apps/installed software need to run (e.g., **●**□ Apple macOS, **\$** Linux, **⊞** Microsoft Windows, and Chrome).
- □ If all your apps/installed software runs on one particular OS, put that OS on your list, along with probable:
 - size of SSD/harddrive,
 - \circ amount of main memory,
 - o form-factor you would like (e.g., full-sized desktop vs compact desktop vs all-in-one vs laptop vs □ tablet or □ Surface),
 - o display [e.g., FWXGA (1366x768) vs Full HD 1080p (1920x1080) at 16:9], and
 - o connectors.
- □ See recommendations of magazine *Consumers Reports* (free at your local library).
- After you buy it, <u>harden it as below</u>. By "harden", I mean the process of securing a system, by reducing its surface of vulnerability (its attack surface), and making it more resilient to attack.

□ After your new device is up and running well, retire/donate/dispose of your old device as below.

3 One-time: Harden your $\Box \Box \Box$ communications platforms

By "**harden**", I mean the process of securing a system, by reducing its *surface of vulnerability* (its *attack surface*), and making it more *resilient* to attack.

I used to have a good introduction here, but it has disappeared. Will try to find another one.

Until then, please follow the below ...

3.1 One-time: Harden your 🛛 🔂 phone life

□ Be aware of the **grandma scam**.

- Be ready with a test for **any caller claiming to represent a relative with an urgent need for money**., such as being arrested.
- \circ **Demand** to speak to your relative yourself. If they push back, it's a scam hang up.
- \circ If it **sounds a bit like your relative**, ask them about something that cannot possibly be on social media, such as what they were sick with on their 8th birthday, or where they were when they stung by a bee. Any evasion means it's a scam hang up.
- Or just hang up, and call **your relative yourself** at the number you know is good. Probably about time you had a chat anyway.
- Be aware that the IRS does NOT call you when you owe them money or are being audited. I was able to ignore a series of 3 calls like this, because I knew that, under this condition, the IRS sends you a letter, and never calls.
- □ Likewise, ignore calls from car warrantee extensions.
- □ I consider all these attacks as variations on <u>spear-phishing</u>.
- □ In fact, never answer the phone at all, unless your phone tells you someone in your Contacts list, such a "daughter Wilma cell", or "Dr Flintstone's office". If you have voicemail set up, they can leave you a message.
- □ If you receive anything like the above:
 - o do **not** answer the **□** ☎ phone, but instead ...
 - record the phone number from your callerID;
 - type it in to:
 - your favorite Search Engine (such as <u>DuckDuckGo</u>), in format <u>AAA-EEE-NNNN</u> (e.g., <u>https://duckduckgo.com/?q=123-456-7890</u> or <u>https://google.com/search?q=123-456-7890</u>), or
 - <u>https://www.spokeo.com/reverse-phone-lookup</u>, or
 - <u>https://www.whitepages.com</u> > reverse phone, or
 - www.whocallsme.com/Phone-Number.aspx/aaaeeennnn; and
 - o analyze. Good luck!

If you get junk robocalls on your and line:

- **NEW** You can look up individual phone numbers at <u>https://lookup.robokiller.com</u>.
- NEW If your cordless phone system (my Panasonic does) has a call-blocking feature: during the call (or later looking at CallerID (CID) > navigate down and right to where you are looking at the phone number) > press button Call Block > follow the prompts.
- Set up call-blocking call-blocker app <u>Nomorobo</u> (awesome!), free on most VoIP landlines (a landline provided digitally perhaps from your cable TV provider).
- Or, I hear, apps <u>RoboKiller</u> or <u>Truecaller</u>.
- Other options

If you get junk robocalls on your smartphone:

- **NEW** You can look up individual phone numbers at <u>https://lookup.robokiller.com</u>.
- $_{\odot}$ Block all suspected spam calls, or send them directly to voicemail:
 - If through Republic Wireless, see <u>How to Block Robocalls/Spam Calls & Voicemails Using the Republic</u> <u>Wireless App</u>.

- If through any other mobile company, look into call-blocking call-blocker app <u>Hiya</u> or <u>others</u>, or pay for <u>Nomorobo</u>. Or perhaps, apps <u>RoboKiller</u> or <u>Truecaller</u>, or <u>other choices</u>.
- If using an Android, version 7.0 Nougat or above (likely if your phone is from 2016 or later), block individual numbers via <u>How to Block Calls/Numbers on Phones with Android Nougat 7.0 or Higher</u>.
- □ Sign up for, or update, <u>Smart911</u>.

When you **get a new determined electronic communications or computing device**, or when you first think about it, please do the following . . .

3.2 One-time: Harden your iPhone 🛛 smartphone or iPad 🗋 tablet

□ "<u>Do These 12 Things First When You Get a New iPhone</u>" or iPad.

 \Box Activate your new \Box smartphone or \Box tablet in accordance with the instructions that came with it.

- Set all relevant ease-of-use settings, including [gear] Settings > Accessibility:
 - > **Font size = Large** or whatever you need.
 - \circ > **Display size = Large** or whatever you need.
 - > Magnification or Color correction or Hearing aids if you need those.

Set all relevant emergency settings, including [gear] Settings:

- > **Display** > **Lock screen** > Notifications on lock screen = Show sensitive content only when unlocked.
- o > Display > Lock screen > Add text on lock screen = "Pls rtn to myName myPhone***. Thank you!", where *** = your a landline or sweetie's phone number, in form +1-aaa-eee-nnnn.
- > Security > Security update if needed.
- > Security > Find My Device = On.
- > Security > Screen Lock.
- > **Security** > **Pixel Imprint** > set up 2 fingerprints.
- > Security > Device admin apps > allow Lookout, and Find My Device.
- > **Security** > **Advanced** > **System update** > install any updates.
- □ Set all relevant app marketplace **Google Play** $> \equiv >$ [gear] **Settings**:
 - > App download preference = Over Wi-Fi only.
 - > Auto-update apps = Over Wi-Fi only.
 - > Auto-play videos = Auto-play videos over Wi-Fi only.
 - o > App download = Over Wi-Fi only.
- □ If you have an **iPhone** □ smartphone or **iPad** □ tablet that does not yet have **antimalware** software, please install one of:
 - o **Lookout** or
 - o Malwarebytes (free is a terrific on-demand scan, but the prevention module costs \$),
 - o <u>from somewhere other than China</u>, Russia and associated countries.
- I am familiar with Lookout; to install it:
 - o launch app App Store >
 - o Q Search for "Lookout" >
 - o select iPhone/iPad app "Lookout Backup, Security, Find Your iPhone, iPad or iPod touch" "Free" from Lookout Mobile Security with icon of a white-on-green shield >
 - o click button Free >
 - $_{\rm O}$ install free version.
 - o Launch.
 - $_{\odot}$ Sign in with an email address and password.
 - - > turn on Location (helped me greatly, at least once!),
 - > turn on Scream (helped me immensely, and M!);
 - and anything else you can.
 - Consider **E Settings** > **Backup**.

Lookout will protect your device from new threats.

Lookout will periodically run scans to remove **existing threats**. Lately, once a day. If you wish to run another scan right now, launch app **Lookout** > tab **Security** > button **Scan Now**.

Lookout has a nice feature ("**Signal Flare**", I think) where, if your Android or iPad finds itself running out of battery, it finds out where it is and \square emails you its location (granular enough to see which building it is in, not where in that building). Cool!

Lookout tells you if there is a **software update** to your iPad, and if needed, how to get that update (connect iPad to Mac or PC > if iTunes does not auto-launch, launch it > when prompted to update the iPad software, click "Download and Update").

Lookout will automatically backup your Contacts list to the Cloud, from where you can download it at any time.

Lookout Pro will automatically backup your **photos** (¿videos?) to the Cloud, from where you can download it at any time. *If you take photos (¿videos?) at risk if your phone should get lost or confiscated by the authorities*, check out whether backups happen automatically, how often it happens, and if it includes videos, and if OK, **upgrade** to Lookout Pro for \$30/year and turn on photo backup.

Lookout will (I imagine) occasionally ask you to update itself. Please tell it Yes.

□ Ensure you have all your **old apps**, and they are **hooked up** and operating correctly. For example:

- Lookout (above).
- **Phone** and **Messaging**, including **Contacts**.
- Maps.
- \circ Weather.
- News.
- o Email..
- o Calendar
- o iCloud, including re-setting your Offline files.
- Costco Pharmacy.
- o Tasks.
- **Dropbox**, including re-setting your Offline files.
- Photos.
- ACLU Mobile Justice app for your jurisdiction.
- On-demand lawyer app TurnSignl <u>https://TurnSignl.com</u>, USA-only, subscription \$ unless low-income household.
- $_{\odot}$ Local sheriff or police app, including signing up for local Groups relevant to you.
- \circ iNaturalist.
- Wi-Fi Analyzer.

□ Set all relevant **emergency settings** that didn't get done above, including:

 [gear] Settings > Security > Device admin apps > allow Lookout, Find My Device and ACLU Enable Lock Screen on Trigger.

- Set all relevant ease-of-use settings that didn't get done above, including:
 setting volume-levels and ringtones that you can actually hear. How?
- □ If needed, rebuild your **home screen**, by adding icons for:
 - Contact of your sweetie.
 - Your favorite software for digital video virtual web-based meetings, conferences, gatherings or webinars.
 - \circ YouTube.
 - o Clock.
 - $_{\odot}$ Your favorite websites (e.g., $\underline{\text{EricPiehl.com}}$ and $\underline{\text{iCanSeeNature.com}}$).
- □ To help if your **iPhone** □ smartphone or **iPad** □ tablet is **lost** or **stolen**, please see "<u>Find My iPhone, iPad</u>, <u>iPod touch, or Mac</u>". Depending on details, you can ring it to locate its exact location, lock it or erase its data.

□ Semi-permanently **mark** your □ smartphone or □ tablet with your **contact info**. Perhaps by:

- $_{\odot}$ Write your contact info on your device, with a Sharpie or other permanent marker.
- $_{\odot}$ Tape a business card to it, with tape coverage > 100%.

- Make a business-card-like **label** yourself.
- If above includes a **a** phone number, verify that the above includes a phone number **other than** that of your device itself.
- Do this in a way involving bright colors, to make it easier to find in the couch, or see as it arcs into the trash.
- $_{\odot}$ Consider making a second tag, hiding it somewhere within the device.
- □ Personalize your **□ smartphone or □ tablet name** by <u>renaming</u> it from its default to:
 - o your name and the year you bought it, in <u>UpperCamelCase</u> format *FirstLast_YYYY*, or
- Please see <u>Apple Device and Data Access when Personal Safety is at Risk</u> for Apple iPhone smartphones; iPad tablets; Macintosh, iMac, iBook, and MacBook computers; and probably HomePod devices.
- □ *If you need* **physical protection** (*I* do!), get some **armor** (I do!):
 - I have seen an iPad with totally-awesome **armor**, which the owner identified as "Griffin Survivor". I believe he said it even had an optional cover for the Home button. Looks perfect for parents of even the most active or strong-willed kids. I found this at <u>www.griffintechnology.com/survivor</u>. They have other products, such as the Survivor Slim at <u>www.griffintechnology.com</u> > *yourPlatform*.
 - I have seen a ☐ cellphone with a <u>Trident case</u>. Seemed quite good. I didn't get that, but I really like <u>mine</u>.
 - \circ Order it in a **bright color**, to make it easier to **find in the couch**, or **see as it arcs into the trash**. <u>I did</u>.
- Order I is smartphone/tablet charger cables for your car, briefcase, and travel bag.
 And maybe an emergency battery-charger.
- □ <u>Consider charging via a surge suppressor</u> (I don't).
- □ If you do **not** use your □ □ smartphone/tablet's camera all the time, **put a piece of tape over the camera**. Cellophane tape is OK — it blurs stuff very well. Or use opaque electrical tape. If you are worried about adhesive preventing future use of the camera, put a little square of paper in the center of the tape, where the camera port will be.
- □ Examine [gear] Settings > Privacy > Location Services, and all other settings.
- □ If you aren't going to use **Bluetooth** on your device, turn it off. Same with Wi-Fi.
- Disable ad id tracking, and why you should do it now.
- □ <u>Clear your browser's cache</u>.
 - If you have browser Chrome, follow the few steps in <u>https://support.google.com/chrome/answer/2765944</u>
 > tab iPhone & iPad.
- □ If you commonly attach to **public Wi-Fi access points** (no password needed) in public spaces such as airports, hotels, libraries and Starbucks:
 - Consider the problems with fake Wi-Fi networks.
 - o Consider a Wi-Fi analyzer.
 - Consider installing a VPN (Why? <u>What does a VPN hide</u>?), such as <u>TunnelBear</u> or Avira Phantom VPN or <u>others</u>.
 - As of 2018-03-29, there is 77% off a three-year subscription for up 6 devices (any combination of ☐ ☐ Android; Apple ☐ iOS, ☐ iPadOS and □ macOS; and ⊞□ Microsoft Windows) at https://nordvpn.com/Isaac. As of 2019-05-20, there is 75% off a three-year subscription at https://nordvpn.com/Isaac. As of 2019-05-20, there is 75% off a three-year subscription at https://nordvpn.com/Isaac.
 - **NEW** As of 2022-07-10, Perun recommends **Private Internet Access**, including a discount at <u>https://privateinternetaccess.com/Perun</u>. Four days later, <u>Artur Rehi</u>, also.
 - Supertechies can use <u>WireGuard</u>.
 - Or when I am going to be set up for more than a couple hours, I use a small router/Wi-Fi-repeater/extender; at least I get started off encrypted (**TODO:** Investigate this more). And then my family's smartphones, □ tablets and □ computers all attach automatically.

□ To help you fall asleep, consider turning on ⊞ Microsoft Windows night light (search for it in [gear] Settings), or installing an app to not display blue light near bedtime. For a while on another platform, I used f.lux to good effect.

3.3 One-time: Harden your Android 🛛 smartphone, 🗋 tablet or 🖵 Chromebook

□ If you <u>got a new □ smartphone from Republic Wireless</u>:

- \circ Do what it says in the green booklet. Basically normal stuff, plus:
 - Connect to Wi-Fi.
 - Install app Republic Wireless.
 - Give it your Republic Wireless credentials.

 \Box Activate your new \Box smartphone or \Box tablet in accordance with the instructions that came with it.

- NEW If in Android 10+, you want to see the three navigation buttons Back, Home and Overview at the bottom of the screen, like you did in previous versions of Android:
 - [gear] Settings > System > Gestures > System Navigation = 3-button navigation, as in <u>show the 3</u> <u>navigation buttons</u>.
 - The gesture method is superior, with a learning curve of 1-3 days.
- □ Set all relevant ease-of-use settings, including [gear] Settings > Accessibility:
 - > **Font size = Large** or whatever you need.
 - > **Display size = Large** or whatever you need.
 - > Magnification or Color correction or Hearing aids if you need those.

□ Set all relevant **emergency settings**, including [gear] **Settings**:

- > **Display** > **Lock screen** > Notifications on lock screen = Show sensitive content only when unlocked.
- o > Display > Lock screen > Add text on lock screen = "Pls rtn to myName myPhone***. Thank you!", where *** = your a landline or sweetie's phone number, in form +1-aaa-eee-nnnn.
- > Security > Security update if needed.
- > Security > Find My Device = On.
- > Security > Screen Lock.
- > **Security** > **Pixel Imprint** > set up 2 fingerprints.
- > Security > Device admin apps > allow Lookout and Find My Device.
- > **Security** > **Advanced** > **System update** > install any updates.

□ Set all relevant app marketplace **Google Play** $> \equiv >$ [gear] **Settings**:

- \circ > App download preference = Over Wi-Fi only.
- \circ > Auto-update apps = Over Wi-Fi only.
- > Auto-play videos = Auto-play videos over Wi-Fi only.
- \circ > App download = Over Wi-Fi only.
- □ If you have an **Android** □ smartphone or □ tablet, or □ Chromium OS **Chromebook** device, that does not yet have **antimalware** software, please install one of:
 - ∘ <u>Lookout</u>,
 - o Malwarebytes (free is a terrific on-demand scan, but the prevention module costs \$),
 - o Sophos Mobile Security for Android or
 - other options;
 - o <u>from somewhere other than China</u>, Russia and associated countries.
- □ I am familiar with **Lookout**. To install it:
 - \circ launch app **Play Store** (icon may be on its own, may be in folder Google) >
 - **Q Search** for "Lookout" >
 - o select Android app "Lookout Security and Antivirus" from Lookout Mobile Security with icon of a white-on-green shield >
 - o click button Free >
 - $_{\odot}$ install free version.
 - o Launch.
 - $_{\odot}$ Sign in with an email address and password.
 - $\circ \equiv$ Settings > Theft Protection > top tab Locate My Device
 - > turn on **Location** (helped me greatly, at least once!),

> turn on Scream (helped me immensely, and M!); and anything else you can.

 \circ Consider \equiv Settings > Backup.

Lookout will protect your device from new threats.

Lookout will periodically run scans to remove **existing threats**. Lately, once a day. If you wish to run another scan right now, launch app Lookout > tab Security > button Scan Now.

Lookout has a nice feature "**Scream**" that makes it make a loud noise. I used it once when my granddaughter dumped my \square phone into a toybox while I was distracted for a second. A lifesaver! It also has a nice feature ("**Signal Flare**", I think) where, if your Android or iPad finds itself running out of battery, it finds out where it is and \square emails you its location (granular enough to see which building it is in, not where in that building). Cool!

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Lookout will occasionally ask you to update itself. Lately, twice a year or so. Please tell it Yes.

□ Ensure you have all your **old apps**, and they are **hooked up** and operating correctly. For example:

- Lookout (above).
- Phone and Messaging, including Contacts.
- Maps.
- Weather.
- News.
- o Email (Gmail).
- Calendar
- Google Drive, including re-setting your Offline files.
- Costco Pharmacy.
- o Tasks.
- **Google Lens** (using your camera to find products, translate words, identify plants).
- **Dropbox**, including re-setting your Offline files.
- o Photos.
- ACLU Mobile Justice app for your jurisdiction.
- On-demand lawyer app TurnSignl <u>https://TurnSignl.com</u>, USA-only, subscription \$ unless low-income household.
- o Local sheriff or police app, including signing up for local Groups relevant to you.
- iNaturalist.
- Wi-Fi Analyzer.
- o Google Developers.

□ Set all relevant **emergency settings** that didn't get done above, including:

- [gear] Settings > Security > Device admin apps > allow Lookout, Find My Device and ACLU Enable Lock Screen on Trigger.
- Set all relevant ease-of-use settings that didn't get done above, including:
 setting volume-levels and ringtones that you can actually hear. How?
- □ If needed, rebuild your **home screen**, by adding icons for:
 - $\circ\,$ Contact of your sweetie.
 - [gear] Settings.
 - Calculator.
 - o Your favorite software for digital video virtual web-based meetings, conferences, gatherings or webinars.
 - ∘ YouTube.
 - o Clock.

Your favorite websites (e.g., <u>EricPiehl.com</u> and <u>iCanSeeNature.com</u>).

∘ Files.

- NOAA Magnetic Field Calculator.
- o Google Lens.
- □ A **Motorola** phone I saw with Android 5.1 said it also has functions to **locate**, **lock** or **wipe** your □ phone, if you first use app Moto to activate device administrator, link to a Google account (you almost certainly did when you first got it), and later (when you need to locate, lock or wipe it?) log in to www.motorola.com/support.
- □ To ensure your **Android** □ smartphone or □ tablet device does not suffer from the <u>Stagefright Flaw</u> of 2015-07-27, please:
 - \circ launch app **Play Store** (icon may be on its own, may be in folder Google) >
 - o Q Search for "Stagefright Detector" >s
 - o select Android app "Stagefright Detector" from Lookout Mobile Security FREE with white-on-green sad-face shield >
 - o Install.
 - When installed, **Open** it.
 - If it says, "Everything is OK", it is. If you wish, uninstall the app.
 - If it says your device is affected and the vulnerable behavior is enabled, please follow-up with "More info" or your local techie.
- - o launch app **Play Store** (icon may be on its own, may be in folder Google) >
 - o & Search for "Heartbleed" >
 - o select Android app "Heartbleed Detector" from Lookout Mobile Security FREE with white-on-green dripping-heart shield >
 - o Install.
 - When installed, Open it.
 - If it says, "Everything is OK", it is. If you wish, uninstall the app.
 - If it says your device is affected and the vulnerable behavior is enabled, please follow-up with "More info" or your local techie.
- □ Semi-permanently **mark** your □ smartphone or □ tablet with your **contact info**. Perhaps by:
 - o Write your contact info on your device, with a Sharpie or other permanent marker.
 - \circ **Tape** a business card to it, with tape coverage > 100%.
 - Make a business-card-like label yourself.
 - If a ☐ phone, verify that the above includes a phone number **other than** that of your device itself.
 - Do this in a way involving bright colors, to make it easier to find in the couch, or see as it arcs into the trash.
 - \circ Consider making a second tag, hiding it somewhere within the device.
- □ Personalize your 🗑 **smartphone or** 🔲 **tablet name** by <u>renaming</u> it from its default to:
 - your name and the year you bought it, in <u>UpperCamelCase</u> format FirstLast YYYY, or
 - permanently-available **□ ☎** phone number, in format <u>AAA-XXX-NNNN</u>.
- □ *If you need physical protection (I do!)*, get some **armor** (I do!):
 - I have seen an iPad with totally-awesome **armor**, which the owner identified as "Griffin Survivor". I believe he said it even had an optional cover for the Home button. Looks perfect for parents of even the most active or strong-willed kids. I found this at <u>www.griffintechnology.com/survivor</u>. They have other products, such as the Survivor Slim at <u>www.griffintechnology.com</u> > *yourPlatform*.
 - \circ I have seen a \square cellphone with a <u>Trident case</u>. Seemed quite good. I didn't get that, but I really like <u>mine</u>.
 - Order it in a **bright color**, to make it easier to **find in the couch**, or **see as it arcs into the trash**. <u>I did</u>.
- \Box Order \blacksquare \Box tablet/smartphone **charger cables** for your car, briefcase, and travel bag.
 - And maybe an emergency battery-charger.
- □ <u>Consider charging via a surge suppressor</u> (I don't).

□ If you do **not** use your □ □ smartphone/tablet's camera all the time, **put a piece of tape over the camera**. Cellophane tape is OK — it blurs stuff very well. Or use opaque electrical tape. If you are worried about adhesive preventing future use of the camera, put a little square of paper in the center of the tape, where the camera port will be.

Reduce data usage by:

- Apps > [gear] Settings > Data Usage > Cell data=ON > set Set cellular data limit-ON > move limits and warnings down to 500 MB and 350 MB or other appropriate levels > scroll down to App usage > for apps you don't need cell data (e.g., calendar, Dropbox, YouTube) tap and Restrict app background data=ON.
- If present, Apps > Republic Wireless > [gear] Settings > Cell data settings > Cell data check "Enabled for all installed apps" > Back > top navigation bar to center "Cell Data" > in bottom-right of screen, tap app icons > turn off cell data for all apps you don't need it for, such as Bluetooth, calendar, clock, cloud print, contacts, Drive, Dropbox, gallery, Skype, YouTube, but leave on dialer, Lookout, Maps, rescue, etc.
- □ To reduce **battery duration** problems:
 - o Launch Android app [gear] Settings >
 - **Battery** > select **each** app to see any settings that can reduce battery use.
 - **Battery** > **Ξ** hamburger icon in upper-right > **Battery saver** > Turn on automatically > at 15%.
 - **Location** > **Mode**=Battery saving.
- □ If you think your Facebook app requires too many permissions (it does), uninstall it, and replace it with <u>Tinfoil</u> <u>for Facebook</u>. Saves a huge amount of space on your □ phone, too! So far, seems quite functional.
- □ If at home under Wi-Fi, update your apps via app Play Store > [gear] Settings ≡ hamburger icon in upperleft corner > My apps & games > Updates > for each app that needs an update whose existence and permissions you don't mind > Update.
- □ *If at home under Wi-Fi*, update your OS via [gear] **Settings** > **System Updates** > those three things.
- □ If you aren't going to use **Bluetooth** on your device, turn it off. Same with Wi-Fi.
- □ Examine [gear] **Settings** > [**Google** >] **Location**.
- □ Examine Google Settings > Ads > Opt out of Ads Personalization.
- □ Disable **ad id tracking**, and why you should do it now.
- □ Follow these Android tips. And these Android security tips.

□ <u>Clear your browser's cache</u>.

- If you have browser Chrome, follow the few steps in <u>https://support.google.com/chrome/answer/2765944</u>
 > tab Android.
- □ If you commonly attach to **public Wi-Fi access points** (no password needed) in public spaces such as airports, hotels, libraries and Starbucks:
 - Consider the problems with fake Wi-Fi networks.
 - o Consider a Wi-Fi analyzer.
 - Consider installing a VPN (Why? <u>What does a VPN hide</u>?), such as <u>TunnelBear</u> or Avira Phantom VPN or <u>others</u>.
 - As of 2018-03-29, there is 77% off a three-year subscription for up 6 devices (any combination of Android; Android; Apple iOS, iPadOS and macOS; and macO
 - **NEW** As of 2022-07-10, Perun recommends **Private Internet Access**, including a discount at <u>https://privateinternetaccess.com/Perun</u>. Four days later, <u>Artur Rehi</u>, also.
 - Supertechies can use <u>WireGuard</u>.
 - Or when I am going to be set up for more than a couple hours, I use a small router/Wi-Fi-repeater/extender; at least I get started off encrypted (**TODO:** Investigate this more). And then my family's smartphones, □ tablets and □ computers all attach automatically.

□ To prevent Android from telling you "Not enough space":

- o Launch app [gear] Settings > Storage > if section Available space is under 500MB, select section Cached data > OK.
- If still having trouble, launch app [gear] Settings > Storage > if Available space is under 500MB, select section Apps > tab ALL > for each app, select it:
 - If it has a button **Move to SD Card**, select that button.
- o If still having trouble, launch app [gear] Settings > Storage > in sections for Pictures Audio Downloads Misc, see if you can move them to your SD card.
 - For example, from app Camera > swipe left-to-right until [gear] Settings curve comes up > slide curve around until you see an icon that looks like an SD card > set Storage location=SD card.
- If still having trouble, launch app [gear] Settings > Storage > if Available space is under 500MB, select section Apps > tab ALL > select app Google Play services > select button Clear Cache > Restart your machine.
- If still having trouble, launch app [gear] Settings > Storage > if Available space is under 500MB, select section Apps > tab ALL > select app Google Play services > select button Manage Space > Clear All Data > Restart your machine.
- □ Optional, *if you think you might lose physical control of your* □ *phone*, <u>consider **encrypting** all data on it</u>.
- To help you fall asleep, consider installing an app to not display blue light near bedtime. For a while on another platform, I used f.lux to good effect. <u>Info</u>. <u>If you have or don't mind jailbreaking your Android</u> <u>device, download</u>.
 - O Until then, use app Timeriffic, set so night has Brightness=0%, and Notification=0%. I do. My wife no longer complains about my □ phone notifying of appointments the next day, because it doesn't do that, during those hours. Update: I use the features in Android 5.1 [gear] Settings > Sound & Notification > Interruptions > set Downtime "Days", "Start time", "End time" and "Interruptions allowed". And somewhere, to dim the screen to 35% or so. No removing blue and green yet, but not bad.

3.4 One-time: Harden your **\Gomputer**

□ 田口 If your computer runs **Microsoft Windows**, make it easier to use:

- When you first power-up your new computer, make the **first user** (the **primary Administrative user**) have a username of a **D** permanently-available phone number, in format <u>AAA-XXX-NNNN</u>.
 - Make this a local (non-Microsoft) account.
 - Logon to this account only for large-scale setup of your machine.
- Create for yourself a secondary personal username, a local (non-Microsoft) account, via "Add someone else to this PC" > "I don't have this person's sign-in information" > "Add a user without a Microsoft account" > in <u>UpperCamelCase</u> format *FirstLast*, with no spaces. After this startup stuff, <u>HStart</u> > Run "netplwiz".
 - Logon to this account for all day-to-day work.
 - If you do anything requiring Administrative rights, you will usually just be prompted to supply the Administrator's password. Only occasionally will you have to logon as the Administrator.
- \circ Personalize your **\Box computer name** by <u>renaming</u> it from its default to:
 - Your name and the year you bought it, in <u>UpperCamelCase</u> format *FirstLast_YYYY*.
 - May be up to 15 characters: letters, numbers, hyphen "-" and underscore "_"; cannot be only numbers.
- o While there, personalize the name of your SSD/harddrive C:\ from Windows to something with your name and location, in <u>UpperCamelCase</u> format *FirstLast*USA, or a permanently-available ☐ ☎ phone number, in format <u>AAA-XXX-NNNN</u>.
- To make things easy on yourself or buddies running **D** macOS, Unix or **B** Linux, or running any platform and using Unix or Linux or GNU utilities, I use (and highly-recommend) usernames, filenames and foldernames with *no* spaces (blanks) " ".
 - Instead use <u>camelCase</u> for metadata that relates to each other, perhaps separated by **underscores** "_" or **hyphens** "-" to metadata that doesn't relate.
 - I try to put all metadata in the filename. For example, for photographs, I use format *date_WhoFromTopToBottomLeftToRight_Where_doingWhat_byWhom.ext*, where:
 - date is in <u>ISO 8601</u> format, yyyymmdd (within the doc will be yyyy-mm-dd). The international standard, and it sorts correctly!
 - Who is in <u>UpperCamelCase</u> FirstLast.
 - Where is in UpperCamelCase, perhaps CityStateCountry or VillageCountyST.
 - doingWhat is in lowerCamelCase, perhaps atZoo.
 - **byWhom** is probably sometimes their initials, perhaps **byEP**.
 - ext is the file extension, perhaps <u>.png</u>.
- Tell File Explorer/This PC (formerly Windows Explorer/My Computer, and still called "Windows Explorer" *under-the-covers*) > ribbon tab View > check Item check boxes > check File name extensions > check Hidden items > Options > Change folder and search options > tab View > check boxes for options Display..., Show... and Use..., and uncheck options Hide....
- More helps at https://LaptopMag.com/software/11-hidden-windows-11-settings-that-will-upgrade-your-experience.
- In Windows 10, my taskbar color was black, making it hard for me to see. I changed that by something I found with my favorite Search Engine (such as <u>DuckDuckGo</u>) > windows 10 taskbar color. Get used to doing this a lot to tweak Windows 10. Better, but I was not fully happy.
- In Windows 10, my Windows' Title Bar color scheme was medium gray (windows without focus) and light gray (window with focus). What?!? To work efficiently, I need more contrast than this, with the window-with-focus's Title Bar set to a hot color. After living with a bad solution for a few months, I found . . .
- The best way I found to do both these last two bullets is to right-click the empty desktop > Personalize > tab Background > set dropdown Background to Slideshow or Picture or Solid Color > Browse > if needed, set to C:\Users\yourLogonName\Pictures\ or something > set Change picture every 10 minutes or whatever > tab Colors > Automatically pick an accent color from your background > set Show color on Start, taskbar, action center and > set Show color on title bar.
- In Windows 10 and 11, Windows File Explorer/This PC (formerly Windows Explorer/My Computer, and still called "Windows Explorer" *under-the-covers*) doesn't sort Folders on top. A pain slows me down. To bring that back, <u>https://duckduckgo.com/?q=windows+10+sort+folders+top</u> or <u>https://google.com/search?q=windows+10+sort+folders+top</u> (get used to doing that) said to:
 - View > Layout=Details (OK, I run that way),
 - View > Sort by=Date (NOT Date Modified) (if Date is not there, View > Sort by=Choose columns... > check its checkbox > OK),
 - View > Sort by=Descending. Works. Weird.

- More ideas at How to make Windows 10 Look and Act more like Windows 7 (choose carefully).
- If you have a new Win10 or Win11 machine, do not pay for any pre-installed security suite. You can safely Uninstall it. After you do, immediately reboot, bring up Microsoft Defender Antivirus (app Windows Security), and verify that it is on. Then Update and do a Full Scan, just for practice.
- □ *If your* **□** *computer does not yet have* **antimalware** *software*, **install** one, <u>from somewhere other than China</u>, Russia and associated countries.

I recommend these free-for-personal-use:

- The second sec
 - Sophos AntiVirus for Mac Home Edition (recommended by UM and Cryptoparty Ann Arbor), or
 - If you get your Internet via Comcast, you can get Norton Internet Security free:
 - Install under Comcast, from https://internetsecurity.xfinity.com.
 - Later, it will update itself from anywhere in the solar system with Internet access.
 - I mildly dis-recommend it.
 - I **dis-recommend Kaspersky** Anti-Virus or Kaspersky Internet Security due to (2015-2017-?) claims of close ties to Russian military and intelligence officials. I previously liked the company. I will keep my ears open for more developments.
 - Current recommendations (very good) from the University of Michigan.
 - <u>Recommendations from Lifewire</u>.
 - Other recommendations from Lifewire.
- ₿ For Linux:
 - Current recommendations (very good) from the University of Michigan.
 - Other recommendations from Lifewire
- ⊞ ⊑ For **Microsoft Windows 10 and 11** computers:
 - Microsoft Defender Antivirus (app Windows Security). Already installed.
 - Verify that Microsoft Defender Antivirus (app Windows Security) is running, and updates itself. To do that:
 - Click ⊞Start > type "defender" > wait for Windows Security app (formerly Windows Defender desktop app) to appear > launch it.

Look for:

- Virus & threat protection > Real-time protection=On,
- Virus and spyware definitions=Up to date, and
- (assuming MWD installed more than a couple weeks ago) **Last-scan**=sometime in the last week.
- $_{\odot}$ If these are true, you are protected.
- If Microsoft Defender Antivirus (app **Windows Security**) is **not** running, continue... Or I read that MWD is adequate for most users for most purposes; if you want better protection, install one of (after you do so, MWD will turn itself off)...
- Avast! Free Antivirus Essential > Free Download (trying this now), or
- <u>Avira AntiVir Personal</u>, or
- F-Prot (liked it a lot when I used some years ago when it had a free version), or
- Malwarebytes (free is a terrific on-demand scan, but the prevention module costs \$), or
- If you get your Internet via **Comcast**, you can get Norton Security software **free**:
 - Install under Comcast, from https://internetsecurity.xfinity.com.
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- Current recommendations (very good) from the University of Michigan.
- Other recommendations from Lifewire.
- ⊞ For Microsoft Windows 8.1:
 - Microsoft Defender Antivirus (app Windows Security). <u>Alleged to be already installed.</u> Oops, when I checked a friend's machine, MWD was **not** installed — or maybe a subset. Please continue...
 - Verify that Microsoft Defender Antivirus (app Windows Security) is running, and updates itself. To do that:
 - Click ⊞Start > type "defender" > wait for Windows Security app (formerly Windows Defender desktop app) to appear > launch it.

Look for:

- Virus & threat protection > Real-time protection=On,
- Virus and spyware definitions=Up to date, and
- (assuming MWD installed more than a couple weeks ago) **Last-scan**=sometime in the last week.

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- Current recommendations (very good) from the University of Michigan.
- Other recommendations from Lifewire.
- **H** For **Microsoft Windows 7, Vista or XP** (and 8.0 and any version other than Windows 11):
 - Upgrade Windows now! Really! Until you do, continue ...
 - Microsoft Security Essentials MSE (TODO: get new link) (recommended by UM) if free this week, or
 - If MSE is **not** running, continue... Or I read that MSE is adequate for most users for most purposes; *if you want better protection*, install one of (after you do so, MSE will turn itself off) ...
 - **<u>Avast!</u>** Free Antivirus Essential > Free Download (trying this now), or
 - Avira AntiVir Personal, or
 - F-Prot (liked it a lot when I used some years ago when it had a free version), or
 - Malwarebytes (free is a terrific on-demand scan, but the prevention module costs \$), or
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 - <u>Current recommendations (very good) from the University of Michigan</u>.
 - <u>Other recommendations from Lifewire</u>.
- For **servers**:
 - <u>Current recommendations (very good) from the University of Michigan</u>.
- For total expert needs, see <u>Communications Security Establishment CSE Assemblyline</u> and <u>Krebs on Security</u> <u>blog</u>.
- Update your antimalware/antivirus rules.
- $\square \boxplus If running under Microsoft Windows, reboot (\boxplus Start > 1/0 Power > Restart).$
- If you have of vision issues of (you do, or you will):
 - Make your **display** display its contents larger.
 - Under Microsoft Windows, HStart > [gear] Settings > Ease of Access > left navigation bar Display
 - > play with all those controls. I suggest:
 - Make everything brighter,
 - turn off Show transparency in Windows,
 - Make everything bigger,
 - Make text bigger,
 - turn off Show animations in Windows,
 - turn off Show desktop background image, and
 - other controls in these areas.
 - Make your **mouse pointer** easier to see.
 - Enlarge your mouse pointer size.
 - ⊞ Under Microsoft Windows, (still in ⊞Start > [gear] Settings > Ease of Access) > left navigation bar Mouse pointer > slide Change pointer size to the right, maybe 3–15.
 - $_{\odot}$ As of 2022, this size increase does **not** yet transmit over **Zoom Share Screen**.

- Under Apple macOS, Settings > Accessibility > left navigation Display > top tab Cursor > check checkbox Shake mouse pointer to location > Cursor size to right 1 or 2 or 3 positions.
- Change your mouse pointer **color**.
- HUnder Microsoft Windows, still at the above, try gold, red or pink!
- Make your mouse pointer move faster, display mouse trails, and show its location.
 - Under Microsoft Windows, Bstart > type "mouse" > select Change your mouse pointer or speed > tab Pointer Options > check Display pointer trails and Show location of pointer when I press the CTRL key.
- Make your **display** easier to see.
 - If Under Microsoft Windows, Istart > type "contrast" > select Turn high contrast on or off > set control Turn on high contrast to On.
- Make your **display colors** easier to see.
 - Under Microsoft Windows, ⊞Start > type "color filter" [Enter] > set "Turn on color filters" = Yes, and probably check checkbox "Allow the shortcut key to toggle filter on and off" (⊞Win+Ctrl+C).
 - If colorblind, also select radio button "Red-green", the other "Red-green" or "Blue-yellow".
 - If have macular degeneration, also select radio button "Grayscale" to get most active windows to show black-on-white (inactive windows show white-on-black). **TODO:** find other way to get stronger black-on-white.
- Tell YouTube to have captions:
 - Turned on for ALL YouTube videos: go to https://youtube.com > select your photo in upper-right (if needed, sign in to Google) > [gear] [gear] Settings > left navigation bar Playback and performance > section Subtitles and Closed Captions > check Always show captions and Include auto-generated captions (when available) > Back > Back.
 - So you can see the captions: in lower-right, select [gear] [gear] Settings > Subtitles/CC > Options > Font color="Black" (for me, "Green"), Font size=400% (for me, 150%), Background color="White", Background opacity=100% (for me, 0%), Character edge style="Outline", and Window opacity=0%.

 \circ If your app doesn't have captions, maybe your operating system does.

- Under Microsoft Windows, see <u>https://support.microsoft.com/en-us/windows/use-live-captions-to-</u> better-understand-audio-b52da59c-14b8-4031-aeeb-f6a47e6055df#bkmk turnoncaptions.
- Or get captions from browser Edge (⊞Win+Ctrl+L) (and Chrome?), even if you are watching the video in another browser.
- If you use Microsoft emailer Outlook or Mail, and cannot read "Plain Text" emails, and can read emails in font="Arial" size="14" black-on-white:
 - go into your email program >
 - ribbon "File" >
 - left navigation bar "Options" >
 - left navigation bar tab "Mail" >
 - section "Compose Messages" button "Stationary and Fonts ..." >
 - top tab "Personal Stationary ..." section "Composing and reading plain text message" button "Font ..."
 - from something small
 - to Fonts="Arial" and Size="14" and Font color="Automatic" >
 - button "OK" >
 - button "OK" >
 - button "OK".
- □ If paranoid, turn on ⊞Win+I (or ⊞Start > [gear] Settings or System Settings) (formerly Control Panel) > Controlled Folder Access > On.
 - Be prepared for, sometime in the following days and weeks, that an application may fail to do its job properly, while Windows Notify tells you it was because Controlled Folder Access prevented it. So far, this has happened to me with apps Dropbox and Quicken. When this happens, you need to:
 - come back here and Allow an app through Controlled folder access >
 - + Add an allowed app >
 - the app that was just prevented.
 - Exit your app, reenter, and you should be fine (I am).
- □ *If a laptop,* semi-permanently **mark** your **□** computer with your **contact info**. Perhaps by:
 - Write your contact info on your device, with a Sharpie or other permanent marker.
 - \circ **Tape** a business card to it, with tape coverage > 100%.
 - Make a business-card-like **label** yourself.

- If a ☐ phone, verify that the above includes a phone number **other than** that of your device itself.
- Consider making a second tag, hiding it somewhere within the device.
- □ Personalize your **□ computer name** by <u>renaming</u> it from its default to:
 - Your name and the year you bought it, in <u>UpperCamelCase</u> format *FirstLast_YYYY*.
 - May be up to 15 characters: letters, numbers, hyphen "-" and underscore "_"; cannot be only numbers.
- Please see <u>Apple Device and Data Access when Personal Safety is at Risk</u> for <u>Apple Personal</u>
- □ <u>Consider charging via a surge suppressor</u> (I don't).
- □ *If you do not use your webcam camera all the time*, **put a piece of tape over the camera**. Cellophane tape is OK it blurs stuff very well. Or use opaque electrical tape. If you are worried about adhesive preventing future use of the camera, put a little square of paper in the center of the tape, where the camera port will be.
- □ If you commonly attach to **public Wi-Fi access points** (no password needed) in public spaces such as airports, hotels, libraries and Starbucks:
 - Consider the problems with fake Wi-Fi networks.
 - o Consider a Wi-Fi analyzer.
 - Consider installing a VPN (Why? <u>What does a VPN hide</u>?), such as <u>TunnelBear</u> or Avira Phantom VPN or <u>others</u>.
 - As of 2018-03-29, there is 77% off a three-year subscription for up 6 devices (any combination of Android; Android; Apple iOS, iPadOS and macOS; and
 - NEW As of 2022-07-10, Perun recommends **Private Internet Access**, including a discount at <u>https://privateinternetaccess.com/Perun</u>. Four days later, <u>Artur Rehi</u>, also.
 - Supertechies can use <u>WireGuard</u>.
- □ For **each** of your web browsers, consider:
 - Test your browser against tracking.
 - Secure access to your location.
 - To help ProPublica track displays of political ads, download their browser extension/add-on <u>Facebook</u> <u>Political Ad Collector</u> (scroll down to Download box).
 - To protect you against eavesdropping, tampering with or forging content in some websites you visit, install plug-in <u>HTTPS Everywhere</u> from the <u>EFF</u>. I have used it for years, trouble-free for me.
 - o Install plug-in Privacy Badger also from the EFF (good, but I have to tell it to exclude some websites), or
 - Install plug-in <u>www.ghostery.com</u> > set to block web tracking types <u>Advertising</u>, <u>Analytics</u>, <u>Beacons</u>, <u>Privacy</u> and <u>Widgets</u>. A cousin recommended this. I love it, too. I currently block everything, except for one Analytics that I use occasionally</u>. So far, so good.
 - Block ads on YouTube.
 - To have your web browser forget your browsing history, cookies, cached files, and passwords at the end of each session, whenever accessing important sites (bank, ➡ email, Facebook, etc.), get used to launching your web browser in mode privacy/Incognito/InPrivate.
 - o Then once a month or so, <u>delete your browser's cookies</u> and <u>clear your browser's cache</u>, and <u>on your iOS □</u>
 <u>iPhone</u> or iPadOS □ iPad.
 - If you have browser Chrome, follow the few steps in <u>https://support.google.com/chrome/answer/2765944</u>
 > tab Computer.
- □ If you aren't going to use **Bluetooth** on your device, turn it off. Same with Wi-Fi.
- □ There are many ways to **copy files** from an **old machine** to a **new machine**. Using a flashdrive/jumpdrive/thumbdrive/USB-drive/USB-key/USB-sticks works fine, but may get a little confusing if you don't have the right tools on both machines. [*Expert*] [*me*] Assuming ⊞ Microsoft Windows 10 or 11 throughout, my favorite way is to:

- On each secondary computer (the computer(s) that will be a passive partner in the copying), set File Explorer/This PC (formerly Windows Explorer/My Computer, and still called "Windows Explorer" under-the-covers) > C: \ > right-click entry Users > Properties > window "User Properties" > tab Sharing > button Advanced Sharing . . . > check checkbox "Share this folder" > button Permissions > Group=Everyone > Permissions for Everyone "Full Control" check Allow, "Change" check Allow, and "Read" check Allow > button Apply > button OK > button Apply > button OK > button Close.
- On the primary computer (the computer from which you will control the copying), log on to the secondary computer(s) using that computer's logon credentials, and copy over needed files using my favorite tool described in the next paragraph. If you can't get on with UNC format, do a This PC (formerly My Computer) > ribbon tab Computer > group Network > Map Network Drive > Map Network Drive > driveLetter > \\machineName\users > check Connect using different credentials > Finish > credentials. Then copy from the mapped drive.

If these instructions are a little obtuse for you, talk to someone who understands them.

- When you acquire a new flash-drive/jumpdrive/thumbdrive/USB-attached SSD/USB-drive/USB-key/ USB-stick:
 - \circ IF your drive came in format="FAT32",
 - AND you want your drive to handle file sizes >4GB=**No**, THEN you can leave it just like this.
 - IF your drive came in format="NTFS",
 - AND you want your drive for m Microsoft Windows use=**Read-Write** AND 🍎 Apple macOS use=**Read-Only** or **not at all**,
 - THEN you can leave it just like this.
 - IF your flash-drive/jumpdrive/thumbdrive/USB-attached SSD/USB-drive/USB-key/USB-stick came in format="HFS+",
 - AND you want your drive for **♦**□ Apple macOS use=**Read-Write** AND I Microsoft Windows use=**not at all**,
 - THEN you can leave it just like this.
 - \circ IF you want your drive for use in the Honda Fit/Jazz Type 2 entertainment system,
 - THEN reformat your drive to format="FAT32".
 - IF you are running Apple macOS level lower than 10.6.6, THEN apply the "exFAT patch".
 - IF you are running ⊞ Microsoft Windows release lower than 7, THEN apply the "exFAT patch".
 - $\circ\,$ IF you are running \boxplus Microsoft Windows release lower than 10, THEN upgrade to a modern level of Windows with all due speed.
 - IF you want your drive for ♥□ Apple macOS use=Read-Write AND/OR Microsoft Windows use=Read-Write, AND/OR handle file sizes >4GB=Yes,
 - THEN reformat your drive to format="exFAT" as in

<u>https://support.wdc.com/knowledgebase/answer.aspx?ID=291</u> (creates folder "___MACOSX").

- While you are at it, personalize the name of your flash-drive/jumpdrive/thumbdrive/USB-attached SSD/USB-drive/USB-key/USB-stick to:
 - o something with your name and location, in format FirstLastUSA, or
 - a permanently-available **□ 1** phone number, in format <u>AAA-XXX-NNNN</u>.
- Eric, add to Excel:
 - Quick Access Toolbar commands Insert Cells ... and Row Height
 - Ribbon tabs **Developer** and **Add-Ins** Clear Excess Formats in #SWG.xlsm.
- □ <u>Speed up your boot by disabling the Windows 10 lock screen</u>. Windows 11?
- □ If you think you might lose physical control of your □ computer, consider encrypting some or all data on it.
- □ To help you fall asleep, consider turning on ⊞ Microsoft Windows night light search for it in ⊞Win+I (or ⊞Start > [gear] Settings or System Settings) (formerly Control Panel) —, or installing an app to not display blue light near bedtime. For a while, I used f.lux, to good effect. Info. Download for ⊞ Microsoft Windows, → Apple Macintosh, and ♣ Linux. After a year, I uninstalled it. Good, too.

- □ If you need **tools** or utilities to make your life easier, you might want to see my <u>tools document</u> and <u>Kim</u> <u>Komando's site</u> or <u>About's software tools</u> or <u>Lifewire's 10 Common Online Tasks That Everyone Should</u> <u>Automate</u>.
- □ *If you are going to ask me for support in the future*, please <u>run</u> and have ready for me:
 - o "msinfo32" > Export > somewhereGood\myComputer_MSINF032.txt > Save,
 - o navigate somewhereGood, "ipconfig /all > myComputer_IPCONFIG.txt" [Enter],
 - "diskpart", "list volume", "exit" and save the results in one of the files above, and
 - Powershell "(Get-WmiObject -query 'select * from SoftwareLicensingService').OA3xOriginalProductKey" and save the results in one of the files above.
- If you have not yet upgraded your □ computer from ⊞ Microsoft Windows 8.1 or Windows 7 (or 8.0, 7, Vista, XP or any version other than 10 or 11) to <u>R Linux</u> or ⊞ Windows 11:
 - You must upgrade to get future security patches. And your machine will run faster, and be more reliable.
 And I mostly like it. But there are some teething pains. But you can grow past those.
 - I recommend you do a <u>full backup</u> of your system. I have upgraded several machines from Windows 7, 8 and 10, and I think one on Vista, and it has always gone very well, with no problems. But do a backup, just in case. You need a backup anyway.
 - The next time you have (A) your \square computer **plugged in** and (B) **3 hours** for it to chug, and (C) **5 hours** to clean up from it, then . . .
 - Go to <u>https://zdnet.com/article/heres-how-you-can-still-get-a-free-windows-10-upgrade</u>. <u>{2019-04-18:</u> <u>Was <u>https://microsoft.com/en-us/accessibility/windows10upgrade</u> > <u>Upgrade Now</u>.] [I recently read that <u>Microsoft would turn this off 2018-01-01, but so far, it still seems active.</u> <u>EP 2018-01-07.]</u>
 </u>
 - If you can't run Windows 11, this app should tell you why.
 - After W11 installs, and you logon for the first time, say Personalize and Let me choose, and Deselect almost all offerings MS chose for you. Very bad.
 - o On my old Windows 7 machine, W10 kept using my old username, local, and same password. Great.
 - But on a new W8.1 machine, W10 insisted on setting me up with a new username that is also an Be email address, that Microsoft would control, and keep a copy of all my settings? Why? I created some local usernames. TODO: Take control of the Administrator user, too.
 - After W10 installed, the connection to my home's **Wi-Fi** network disappeared. My attempts to fix it failed. After a half hour, it came back on its own. If this happens to you, reboot.
 - After W10 installed, Chrome was no longer my default web browser. I had to launch Chrome and tell it to be my default web browser. That worked.
 - After a while, Chrome turned all of its web content totally black could not read a thing. My attempts to fix it failed. After a half hour, it came back on its own. If this happened to you, exit Chrome and re-launch, or reboot.
 - After W10 installed, my taskbar color was black, making it hard for me to see. I changed that by something I found with my favorite Search Engine (such as <u>DuckDuckGo</u>) > windows 11 taskbar color. Get used to doing this a lot to tweak Windows 10 and 11. Better, but I was not fully happy.
 - After W10 installed, my windows' Title Bar color scheme was medium gray (windows without focus) and light gray (window with focus). What?!? To work efficiently, I need more contrast than this, with the window-with-focus's Title Bar set to a hot color. After living with a bad solution for a few months, I found.
 - The best way I found to do both these last two bullets is to right-click the empty desktop > Personalize > tab Background > set dropdown Background to Slideshow or Picture or Solid Color > Browse > if needed, set to C:\Users\yourLogonName\Pictures\ or something > set Change picture every 10 minutes or whatever > tab Colors > Automatically pick an accent color from your background > set Show color on Start, taskbar, action center and > set Show color on title bar.
 - o After W10 installed, one of my apps was broken, and their website gave incomplete information on how to fix that. I figured out the real fix, and № emailed it to the app's vendor.
 - After W10 installed, my **Dropbox** icon no longer appeared in my *Notification Area* (will be *Action Center* in Win10X) (formerly *System Tray* by the clock). After going to <u>https://dropbox.com</u> and logging in again, my Dropbox icon has returned.
 - After W10 installed, many of my **Start pins** were gone. I rebuilt them.
 - After W10 installed, Windows File Explorer/This PC (formerly Windows Explorer/My Computer, and still called "Windows Explorer" *under-the-covers*) stopped sorting Folders on top. A pain — slows me down.

To bring that back, https://duckduckgo.com/?q=windows+10+sort+folders+top or https://google.com/search?q=windows+10+sort+folders+top (get used to doing that) said to:

- View > Layout=Details (OK, I run that way),
- View > Sort by=Date (NOT Date Modified) (if Date is not there, View > Sort by=Choose columns... > check its checkbox > OK),
- View > Sort by=Descending. Works. Weird.
- If you have a new Win10 machine, do not pay for any pre-installed security suite. You can safely Uninstall it. After you do, immediately reboot, bring up Microsoft Defender Antivirus (app Windows Security), and verify that it is on. Then Update and do a Full Scan, just for practice.
- After W10 installed, Microsoft Defender Antivirus (app Windows Security) was installed. Seems to be OK, and adequate. Nothing in the Notification Area (will be Action Center in Win10X) (formerly System Tray

 by the clock) until you click ⊞Start > type "defender" > wait for Windows Security app (formerly Windows Defender desktop app) to appear > launch it. Its icon stays in the notification area (will be Action Center in Win10X) until you reboot, then it is gone. TODO: Revisit do I like the icon enough to Schedule a launch on logon?
- After W10 installed on one machine, Norton Security Suite was gone. After four hours, it popped up a box to Install an updated version of your Norton product for Windows 10. As far as I can tell, I don't need both Norton and Microsoft Defender Antivirus (app Windows Security), so I think I won't install this new Norton.
- After W10 installed on another machine, Norton Security Suite was there, but could not determine if it was licensed or not. Seemed to be active (MWD turned itself off, so it must have thought so, too), but that red checkmark was not giving me warm fuzzies, to eventually, I uninstalled Norton. After a reboot, Windows Defender Antivirus was running; good; I did an Update and Full Scan, to good effect.
- After W10 installed on another machine with McAfee, stayed on. Huh? Why the difference between these three machines? As far as I can tell, I don't need both McAfee and Microsoft Defender Antivirus (app Windows Security), so I uninstalled McAfee. After a reboot, Windows Defender Antivirus was running; good; I did an Update and Full Scan, to good effect.
- After W10 installed, Microsoft **OneDrive** was there. **TODO:** Figure out what I think about that.
- I told Microsoft "Many advantages, however (1) you broke my FTP (still trying to fix that), (2) the black Startbar and white Title Bars make it hard to work, (3) you unpinned many of my apps (as I needed one, I found and repinned them), (4) some confusion accepting the install, (5) Windows Defender Antivirus is good but I don't know whether to reinstall Norton, and (6) I don't know what to do with OneDrive (bloatware?), and (7) you chewed up some of my freespace (although the machine still runs faster). I will tell relatives to not install until I am there to fix things."

3.5 One-time: Make your flash-drive/jumpdrive/thumbdrive/USB-attached SSD/USB-drive/USB-key/USB-stick more-usable

- When you acquire a new flash-drive/jumpdrive/thumbdrive/USB-attached SSD/USB-drive/USB-key/ USB-stick:
 - IF your drive came in format="FAT32", AND you want your drive to handle file sizes >4GB=No, THEN you can leave it just like this.
 - IF your drive came in format="NTFS",
 - AND you want your drive for ⊞ Microsoft Windows use=**Read-Write** AND 資 Apple macOS use=**Read-Only** or **not at all**,
 - THEN you can leave it just like this.
 - IF your flash-drive/jumpdrive/thumbdrive/USB-attached SSD/USB-drive/USB-key/USB-stick came in format="HFS+",
 - AND you want your drive for 資 Apple macOS use=**Read-Write** AND ⊞ Microsoft Windows use=**not at all**, THEN you can leave it just like this.
 - IF you want your drive for use in the Honda Fit/Jazz Type 2 entertainment system, THEN reformat your drive to format="FAT32".
 - IF you are running **D** Apple macOS level lower than 10.6.6, THEN apply the "exFAT patch".
 - IF you are running ⊞ Microsoft Windows release lower than 7, THEN apply the "exFAT patch".

- $\circ\,$ IF you are running \boxplus Microsoft Windows release lower than 10, THEN upgrade to a modern level of Windows with all due speed.
- \circ IF you want your drive for 🌦 Apple macOS use=**Read-Write**
 - AND/OR ⊞ Microsoft Windows use=**Read-Write**, AND/OR handle file sizes >4GB=**Yes**,
 - THEN reformat your drive to format="exFAT" as in

https://support.wdc.com/knowledgebase/answer.aspx?ID=291 (creates folder "MACOSX").

- While you are at it, personalize the name of your flash-drive/jumpdrive/thumbdrive/USB-attached SSD/USB-drive/USB-key/USB-stick to:
 - \circ something with your name and location, in format ${\it FirstLast}{USA},$ or
 - \circ a permanently-available $\blacksquare \mathbf{B}$ phone number, in format AAA-XXX-NNNN.

3.6 One-time: Harden your web presence

To recover from the **Heartbleed** Flaw of 2014-04-09, *if you haven't done so since this date*, please:

- □ Change all your <u>passwords</u> at sites listed by <u>www.cnet.com/how-to/which-sites-have-patched-the-heartbleed-</u> bug and/or www.mashable.com/2014/04/09/heartbleed-bug-websites-affected/?cid=146326:
 - "Vulnerability patched. Password change recommended": Do that.
 - "Awaiting response": Change your password.
 - "Was not vulnerable": I think you are OK (I trust CNET, mostly). If site is important to you, change your password.
 - *Not listed*: Change your password.
- □ *If you have* № **Yahoo email**, change your password.

Regardless of the Heartbleed Flaw paragraph above:

- □ If you have ▷ Yahoo email, please migrate to one of the other free webmail providers, such as Google Gmail.com or Microsoft Outlook.com/Live Mail (formerly Hotmail). If you are scared of the USA, there are several in Europe. I make this recommendation after having helped multiple family members with Yahoo accounts recover from three four separate hacks.
- □ *For many purposes,* consider a <u>disposable email account</u>.
- □ If your 🗠 email provider offers two-factor authentication 2FA/2-step verification/multi-factor
 - authentication MFA, use it. 2FA/2SV/MFA authenticate you by using two or more of these methods:
 - something-you-know (knowledge, such as a username and password),
 - $_{\odot}$ something-you- have~ (possession, such as a SMS text account on a \blacksquare cellphone), and
 - something-you-**are** (*inheritance*, such as fingerprints or eyeball imagery).

<u>Google's</u> 2FA uses the first two methods, with the second method giving you a <u>one-time password OTP</u>. Initially, it had some teething pains, but since 2014, has been great. Yahoo's even works great. (**TODO: Read https://www.makeuseof.com/what-is-multi-factor-authentication/.**)

If you cannot/will not use a vendor's 2FA/2SV/MFA authentication, look into app Authy.

2FA/2SV/MFA are not perfect — they do **not** protect against <u>man-in-the-middle MitM attacks</u>, nor if your attacker has also gained access to your \square phone's SMS account — , but they do reduce your attack surface.

For any provider that offers two/multi-factor/step authentication/verification, use it!

- Check if you have any accounts compromised in announced data breaches, at <u>Have I Been Pwned?</u> (HIBP) (built by an Aussie computer geek) > *your@email.address* and *usernames* > pwned?. And take appropriate action:
 - To get notified when future pwnage occurs and your account is compromised, <u>Have I Been Pwned?</u> > nav Notify me > your@email.address.
 - If you have custom email addresses in form you@yourDomain, you can get notified of pwnage of any of them via <u>Have I Been Pwned?</u> > nav **Domain search** > yourDomain > etc.
 - If you are considering a new password, <u>Have I Been Pwned?</u> > nav **Password** > yourPassword > **pwned?**.
 - Helps on correcting your credit Reports.

Use a password manager, such as:

• KeePassXC, local, recommended to me.

- \circ LastPass.
- $_{\circ}$ 1Password.
- $_{\odot}$ Chrome extension passprotect.io.
- \circ On paper, while you keep physical security on that paper. And physical security on its backup.

□ The EFF says to change your Facebook settings to opt out of platform API sharing.

- In a web browser, go to Facebook <u>https://facebook.com/settings?tab=applications</u> > section Apps, Websites and Games > button Edit > button Turn Off. And look around at other settings in the left navigation bar.
- In the Facebook app, touch the three-line Settings ≡ hamburger icon in upper-right corner > scroll way down to the last section Settings & Privacy > entry Account Settings > entry Apps > entry Apps, Websites and Games > (if it says Turned On) > press that entry > button Turn Off. And look around at other settings after pressing the Back button once and twice.
- Remove from social media anything about drinking, drug use, other embarrassing information, kids' names, current location, vacation plans, home location, and full birthdate.
- □ Review the **Privacy Settings** in your № email provider, <u>Facebook</u>, and web browsers. They occasionally change them.
- □ If you get creepy messages on your **Facebook** feed, please follow the procedures in <u>How to Safely</u> <u>Unfriend a Facebook Creeper</u>.
- If you have a Google account (you might, even though you have no Gmail account), follow <u>Google's</u> <u>Privacy Checkup</u> and <u>Security Checkup</u>.
- □ After Facebook disclosure of 2019-03-21, <u>change</u> <u>your Facebook and Instagram passwords</u>. And those from other apps from Meta Platforms, Inc.
- □ Get used to using <u>check short URL</u> and <u>more short</u> <u>URL expanding for testing suspicious links without</u> <u>clicking on it</u>. <u>Sites that check if links are safe</u>.
- Follow Kim Komando's "<u>Google yourself to protect</u> <u>your reputation — online and off</u>".
- □ To have your web browser forget your browsing history, cookies, cached files, and passwords at the end of each session, whenever accessing important sites (bank, ☞ email, Facebook, etc.), get used to launching your web browser in mode privacy/Incognito/InPrivate.
- □ Then once a month or so, <u>delete your browser's</u> <u>cookies</u> and <u>clear your browser's cache</u>, and <u>on your</u> <u>iOS □ iPhone</u> or iPadOS □ iPad.
 - If you have browser Chrome, follow the steps in <u>https://support.google.com/chrome/answer/276</u> 5944 > tab iPhone & iPad.
- If you host any websites, patch them. Does this include Apache HTTP Server? Mine is turned off icn't it? Cotta go find out how to check, and read your off of the second second provide the second second provide the second second

isn't it? Gotta go find out how to check, and read www.eff.org/search/site/heartbleed ...













3.7 One-time: Harden your voice-activated virtual assistants/voice butlers/smart speakers, TVs and toys!

- □ *Manufacturer* warns customers இ not to discuss personal information in front of *voice-activated devices*. Current examples:
 - virtual assistants (voice butlers) (smart speakers):
 - Amazon Alexa on Amazon Echo devices,
 - ★ Apple Siri on ★ Apple iOS and iPadOS (iPhone B smartphones and iPad I tablets), A macOS (Macintosh, iMac, iBook, and MacBook computers), and HomePod devices,
 - Google Assistant on Google Home and other devices,

 - Samsung Bixby,

o smart TVs "Your smart TV is spying on you. Here are step-by-step instructions to stop it.",

- voice-activated toys,
- o more devices soon?
- □ Please see <u>Apple Device and Data Access when Personal Safety is at Risk</u> for <u>Apple</u> Apple iPhone smartphones; iPad] tablets; Macintosh, iMac, iBook, and MacBook devices.
- □ Watch how your smart devices are watching you, with the **Princeton IOT Inspector**.

3.8 One-time: Harden your Wi-Fi router, cable modem, and doorbell camera

- If your Wi-Fi router's SSID (network name) is personalized, (e.g., HOME-XXXX or 2Wire999 or yourAddress or somethingAboutYou), you can skip this step. If the SSID is generic (the same as all others of its type) (e.g., Guest or Linksys or xfinitywifi), change it, using the router's administrative page:
 - Netgear > www.routerlogin.net or http://192.168.1.1 > "admin" "password" > tab Advanced > left navigation bar Setup > Wireless Setup > from "NETGEAR99" to something unique, such as your address or persona. Write it on the router or paperwork. idea 4
 - Others
 - Get your router's administrative URL from www.techspot.com/guides/287-default-router-ip-addresses; or https://www.lifewire.com/how-to-enable-your-wireless-routers-built-in-firewall-2487668; or https://www.lifewire.com/how-to-enable-your-wireless-routers-built-in-firewall-2487668; or https://www.lifewire.com/how-to-enable-your-wireless-routers-built-in-firewall-2487668; or https://www.lifewire.com/how-to-enable-your-wireless-routers-built-in-firewall-2487668; or https://www.lifewire.com/how-to-enable-your-wireless-routers-built-in-firewall-2487668; or https://wireless.com the section "Wireless LAN adapter Wi-Fi:" > field "Default Gateway" > see something like "10.0.0.1". Write that down > prefixed with "http://" (e.g., "http://10.0.0.1").
 - Get your router's administrative username and password from <u>www.howtogeek.com/131338/how-to-access-your-router-if-you-forget-the-password</u> or <u>www.routerpasswords.com</u> (e.g., "admin" or blank, and "admin" or "password").
 - In a new browser window, **Enter** the administrative URL you found above (e.g., "http://10.0.0.1").
 - When it asks for a username and password, give it those you found above (e.g., "admin" or blank, and "admin" or "password").
 - Bop through the admin pages (Wireless sections) until you find how to change the SSID (network name) to something unique, such as your address or persona. idea 4
 - $_{\odot}$ Write your new SSID (network name) on the router or paperwork.
 - While you are at it, ensure your wireless is using great encryption, such as **WPA3** (if not available, use **WPA2-PSK AES**). idea 3
 - While you are at it, ensure your wireless firewall is on, and set correctly. Mine from Comcast Xfinity is set to Typical Security (Medium). **TODO:** Read more about this at <u>https://www.lifewire.com/how-to-enable-</u> your-wireless-routers-built-in-firewall-2487668.
 - \circ Apply.
 - o Tell all your networked devices (□ smartphones, □ tablets, □ computers, etc.) to connect to the new SSID. And tell them to forget about the old generic SSID (this is actually the goal you don't want your mobile devices to automatically connect to a *honeypot* machine). Under □ Windows 10. Under □ Android.
- □ *If you haven't <u>changed your Wi-Fi router's</u> <u>administrative password</u>, do that, using the router's administrative page:*

- Netgear > log onto your router's administrative page as described in the previous paragraph > tab Advanced > left navigation bar Administration > Set Password > from "password" to your choice. Write it on the router or paperwork. — idea 1
- **Others** > log onto your router's administrative page as described in the previous paragraph > bop through the admin pages until you find how to change your router's **administrative password** to your choice. Write it on the router or paperwork. idea 1

□ Follow <u>http://cnet.com/how-to/tips-to-stay-safe-on-public-wi-fi</u>.

- □ Or <u>http://komando.com/tips/370327/your-router-needs-this-one-thing-manufacturers-dont-tell-you/all</u>.
- https://www.lifewire.com/wireless-router-security-features-you-should-turn-on-right-now-2487665.
- <u>More tips</u>. Some steps require a <u>Wi-Fi Analyzer</u>, of which I love and use <u>this one</u>.
 o If your networking is slow:
 - Use this **Wi-Fi Analyzer** to find a better channel number, and tell your router to use that. <u>https://duckduckgo.com/?q=my+router+change+channel</u>.
 - <u>Change your computer's DNS Servers</u>. **TODO:** Look into **OpenDNS**.
- If you have Comcast and they provide a Wi-Fi network *xfinitywifi*:
 TODO: Write this. A start: review your use of its SSID.
- See if your cable modem needs a firmware update or configuration change:
 TODO: Write this.
- - **TODO:** Write this, including stalkerware.

3.9 One-time: Retiring/Donating/Disposing of a 🛛 🗔 computing device

- □ Please see <u>Apple Device and Data Access when Personal Safety is at Risk</u> for <u>Apple iPhone</u> smartphones; iPad □ tablets; Macintosh, iMac, iBook, and MacBook □ computers; and probably HomePod devices.
- **TODO:** Write something about **wiping** your personal information, including possible SSD/harddrive:
 - Looks like <u>CCleaner</u> Free [except in 2021, is identified by Microsoft Defender Antivirus as a PUP Potentially-Unwanted Program, and may recently be crapware] now has > tab Tools > tab Drive Wiper.
 - <u>http://pcsupport.about.com/od/fixtheproblem/ht/wipe-hard-drive.htm</u> or
 - <u>https://www.lifewire.com/how-to-wipe-a-hard-drive-2624527</u> or
 - https://www.lifewire.com/how-to-completely-erase-a-hard-drive-2626173 or
 - http://zdnet.com/article/windows-10-tip-reset-your-pc-completely or
 - <u>https://microsoft.com/en-us/software-download/windows10startfresh</u> or
 https://www.tomshardware.com/how-to/secure-erase-ssd-or-hard-drive.
 - □ If you want to keep your old SSD/harddrive, please do so. If you later need to get data off it, you can attach to it □ another computer as a non-bootable drive, with a USB-SATA harddrive adapter or caddy. SSD?
- TODO: Say who to donate it to, presumably a local person/group who refurbishes equipment for low-income low-connected people, or a local electronic recycler. In West Michigan, donate small electronics and appliances to Comprenew (larger appliances to Republic Services).

4 Emergency situations: search and rescue SAR, earthquake, flood, 🕈 tornado, 🍠 hurricane

• Under Android, [gear] Settings > Notifications > Advanced > Emergency alerts > Allow > all.

□ Assemble a **go-bag**, including:

- Personal Protective Equipment PPE: sturdy shoes or boot, crew-length or taller socks, sturdy pants, longsleeved-shirt, sturdy gloves, canvas hat or bike helmet, glasses or other eye-protection, folding saw or cutting device, etc.),
- water, food,
- medical supplies,
- cash, id, phone numbers of anyone who could support you (even at a distance),
- car-outlet/USB converter and charger cable, battery pack***,
- o and more!

□ A cousin in **⑤** hurricane country has a detailed pack list for each car, listing the various go-bags and go-boxes of living supplies for a week or more, family valuables (photos and such), etc.

- o And when authorities say to leave, they do! Early before the freeways fill up. They take all the cars, which are filled with stuff, allowing them to stay away as long as needed.
- □ Fill up all cars with **gasoline**.

□ **Stay healthy**, physically and mentally.

I *** = Instead of a battery pack above, you could get an ...

Emergency NOAA-alert weather-alarm radio. It works! Nice product. I recommend it to many households.

- If you don't have one, order something like <u>https://amazon.com/dp/B07YCCJ7X4</u> (we did).
 - Takes power from a built-in rechargeable battery, AAAs, and a hand-crank.
 - Radio (of course): NOAA weather, FM, AM and SW. Not audiophile-quality, but is good enough to stay informed and feel connected.
 - Two **flashlights**: spotlight and reading. Nice. Although we have others.
 - A few other doodads. In a compact case. Ours is school-bus yellow, but the new red looks good.
- To configure for maximum effect:
 - Plug radio into a **power source**, via its included micro-USB cable.
 - The micro-USB plug goes into the radio's right side, under the rubber cover, port "DC 5V".
 - o [If an ubergeek asks about micro-A vs. micro-B, get the micro-B.]
 - The USB-A plug goes into a laptop or housecurrent adapter with a USB-A port.
 - This will charge and keep charged its internal rechargeable battery.
 - We have our radio on a kitchen counter, on top of something else, out of the way. Sorta-centrallylocated in our house, so we can hear it from anywhere — even while sleeping. Although, ...
 - If your hearing is poor, place in some central location, where the radio's left side's red flashing light will be highly-visible.
 - With the micro-USB cable plugged into housecurrent, set radio's switch POWER to position "Li-Ion" (its internal rechargeable battery).
 - Rotate radio's antenna pointing up, not necessarily extended.
 - Turn **knob VOLUME up** partway, so you can hear static on some bands.
 - In fact, this is a good time to play with knob BAND set to position "FM", "AM" and "SW" (shortwave), using **knob TUNING** and various antenna directions and extension. • When done playing, ...
 - Turn **knob BAND** to position "WB" (weather band).
 - Try every position of knob WEATHER BAND. NOAA uses these 7 frequencies a bunch of weather transmitters splattered across the nation. If laid out in a hexagonal grid of the proper size, people should be able to receive 1, 2 or 3 stations, depending on where you live in that grid.
 - I looked it up our state has 28 transmitters and 83 counties, or an average 3 counties/transmitter. More if their service areas overlap [they do].
 - For us, position "7" comes in very clear. After listening to it for a while, it said the transmitter is at a place about 16 km (10 miles) to our north.
 - Another setting is barely audible; I would guess that that transmitter would be to our southeast or southwest.
 - I could look up the correct position on https://weather.gov/nwr/station listing.
 - But I think the pedestrian method above is more reliable.

- When done playing, ...
- Leave **knob WEATHER BAND** set to your **best local station**.
- When done listening to the radio, turn knob VOLUME down so you can't hear it, but not to position "OFF". [After rechargeable battery is fully-charged, you may be above to leave in positon "OFF". But before I leave it this way, I want to test that it still alerts.]
- The radio's front should have indicator lights:
 - "1/0" (on/off) lit green, and
 - "CHARGING" lit red (this goes off in a couple hours, after its rechargeable battery is fully-charged).
- Go about your busy life.
- When you:
 - hear a loud "WHOOP WHOOP WHOOP" siren alert sound, and
 - see a red light flashing out the left side of the radio,
 - NOAA is alerting you.
 - Walk over to the radio, and turn **knob VOLUME up** so you can hear details on your local emergency.

• A week or so after we configured the radio as above, we heard these alert siren at 11am sharp (High Noon if we weren't Sprung Forwards).

- The alert siren **was loud enough** for me to notice from the other floor of our house, in a room with the door sorta-closed, playing a YouTube softly, while banging on my computer. Should be able to wake us.
 - But the alert siren was **not** too loud for Marty, sitting a couple meters away, on a Zoom meeting. She did have to explain it to her Zoom-mates.
 - The alert siren **lasted long enough** for me to hear it, and for my brain to deconstruct that it is an alarm of some sort, get up from my chair, leave the room, and start for the stairs. The alert siren stopped, so **not** long enough to be annoying. 15-30 seconds, maybe? Continuing, ...
 - I walked over to the radio, and turned up the volume so I could hear.
 - $_{\odot}$ They read of a long list of stations and the counties they cover. Maybe 5-8 counties/transmitter, so I was correct above the stations do overlap a lot, on their different frequencies.
 - \circ The voice said **this was a test** for these areas. Then went back to normal weather info for our area. The whole process took 3 minutes.
- Yea! I had been hoping NOAA would throw test-alerts periodically. So we would know we had the radio set up right. And it is! Nice peace-of-mind. Especially when a couple weeks later, we were alerted for major storms headed our way. About an hour in advance. Which we used to police the yard for items that might blow away, close the garage door, and plug in our phones.
- $_{\odot}$ Bummer that the above process is only partly-documented in the directions.
- The radio's documentation says it can **recharge your mobile cellphone**, via the radio's right side, under the rubber cover, **port "USB CHARGING"**. And using your **mobile's charging cable**, having USB-A plug into the radio, and whatever plug goes into your cellphone (USB-C or Lightning, probably).
- I have not yet tried this. But we have another charging stick or two.
- \circ We currently have not put any AAA <code>batteries</code> into our radio. But:
 - We have lots of AAA batteries in our battery collection.
 - If alerted and then power fails, we would have lots of time to use the radio's two flashlights to go get some AAAs from our collection.
 - Backed up by our other electronics and flashlights. And the radio's windup generator, which does work. Although snuggling bed listening to the radio during a powerfailure is much easier if you don't have to sit up and wind the radio each minute.
 - Oh, as I write this at my computer with the radio unplugged, I see its indicator lights:
 - "1/0" (on/off) is lit green, (good, the radio is telling me our area's current weather), while
 - "CHARGING" is not lit red.
 - Thus, I am simulating a **power failure** right now, and **everything is working as it should**. OK, Saving this doc, and plugging our radio back into the wall, ready for our next extreme weather event.
- □ Sign up for a **Wilderness First Aid WFA** class. Nice long one. Covers much more than a couple-evening Red Cross class. Comes in handy. And helps make you the calmest person in an emergency.
- □ *If part of a team that each needs to hear what other team members are doing,* look into having your team install on their □ mobile cell phones communications app <u>Zello</u>. **Not** encrypted.
- □ *If part of a team that does election monitoring and crisis response,* look into <u>app</u> <u>Ushahidi</u>.
- □ If part of a team that tracks search teams, which areas have been searched, etc., look into app **GPS Tracks**, and software **SARTopo**.
- □ <u>More emergency apps</u>.
- □ See section 5 "Demonstrating protesting traveling in ¹/₄ heavily-policed authoritarian areas, or when targeted by adversaries" below.

5 Travel, especially demonstrating protesting in Managements heavilypoliced authoritarian areas, or when targeted by adversaries

□ View video How to Stop a Riot. For full effect, select the video link, then icons □ fullscreen, cc captions,
 ▶-Play, and □ ⊠ Skip Ads.

□ See travel advisories from:

- o USA Department of State https://travel.State.gov/content/travel/en/traveladvisories/traveladvisories.html.
- If traveling overseas, you may want to sign up for their <u>Smart Traveler Enrollment Program STEP</u>.
- Canada <u>https://travel.gc.CA/destinations/united-states</u>.
- UK <u>https://gov.UK/foreign-travel-advice/usa/safety-and-security</u>.

 Be professional in exercising your First Amendment rights. Your goals are reachable only by non-violent means: education, understanding, communication and sympathy.

□ Follow the recommendations in <u>https://EricPiehl.com/#police</u>.

□ **Have** a plan.

- Test like you fly; fly like you test.
- Train like you fight; fight like you train.
- The way I learned it <u>writing aviation software</u>.
- The way I heard some of our users learned it.
- Plan your work; work the plan.
- The way I learned it in chainsaw safety training.
 The way I heard it in entrepreneur startup seminars.

- Fail early, and pivot.
- □ Be aware that anywhere the US President goes, your mobile devices probably will be <u>attacked by an active</u> <u>cell-site simulator CSS, or tracked by a passive IMSI catcher</u> (e.g., <u>Stingray device</u>) (<u>mobile cellphone</u> <u>surveillance at protests</u>). And various other places in the USA and around the world.
- If you cannot afford to lose* your □ phone**, do not take it to a protest. Leave it behind!
 * = have taken/compromised.

****** = tablet/computer/data (flash-drive/jumpdrive/thumbdrive/USB-attached SSD/USB-drive/USB-key/USBsticks).

□ If you think your electronic devices may be taken or compromised, consider **leaving behind** your electronic devices (smartphones, tablets and computers) and data (flash-drive/jumpdrive/thumbdrive/USB-attached SSD/USB-attached SSD/USB-drive/USB-key/USB-sticks).

However, if you need them:

- o Disable location services, backup your data, run updates, enable 2FA, install Mobile Justice App.
- Read "China Is Forcing Tourists to Install Text-Stealing Malware at its Border".
- If you still need your electronic devices:
- $\circ\,$ Back up all data, and keep your backups in a secure location.
- $_{\odot}$ Sanitize this data so you don't have anything you don't want disclosed.
- Be prepared to, when you return from this travel/protest/demonstration, wipe all data back to factoryimage before you connect to your home network or other assets.
- o Continue . . .
- Follow these <u>digital security tips for protesters from the EFF</u>, including its nice instructions for installing and using app <u>Signal Private Messenger</u> (set **Disappearing Messages**), and the EFF's older <u>Occupy guide</u>.
- □ Awesome list of <u>support to protestors and journalists</u>, including EFF's guide on <u>attending protests in age of</u> <u>COVID-19</u>.
- \square Consider doing some counter-surveillance, using a cheap Android \square phone and app **Haven**. <u>Anonymous</u> <u>email</u>.
- Arrange for real **media** (preferably from large organizations with technical, legal and administrative support) to attend, record and report on your event.
- □ *If you can't have real media attend*, see if the ACLU has a <u>Mobile Justice app for your jurisdiction</u>. Said to transmit video to the ACLU as soon as you Stop recording.
- On-demand lawyer app TurnSignl <u>https://TurnSignl.com</u>, USA-only, subscription \$ unless low-income household.
- □ How to Record Phone Calls on your iPhone or Android.
- □ Form a **social media team**.
- Put a spare **sock** or light glove in your <u>pocket</u>. If **teargassed**, I hear that your group needs someone to pick up the teargas canister and throw it back. It will be hot enough to badly burn you; a sock or something will provide adequate protection if you can complete your chuck within a second or two. Or kick it back.
- □ **PPE** (Personal Protective Equipment). For CN and CS tear gas, 3M 60926 may be effective.
- Have a first aid team standing to the rear, with training and equipment, including baby shampoo and LOTS of water (to help get pepper spray out of eyes), treatment for rubber bullet wounds [1% fatal], hypothermia if soaked with water, and whatever else you may run into.

□ Form a **legal team** or **support team**? Snacks? Transport? Tracking who arrested, which agency, where taken?

- □ **Follow** your plan.
 - Test like you fly; fly like you test.
 - Train like you fight; fight like you train.
 - Plan your work; work the plan.
- (The way I learned it writing aviation software.)
- (The way I heard some of our users learned it.)
- (The way I learned it in chainsaw safety training.)

Best wishes!

6 Emergency: Find or clean your 🛛 🗆 computing platforms

6.1 Emergency: Find or clean your iPhone 🛛 smartphone or iPad 🗋 tablet

□ If your **iPhone** □ smartphone or **iPad** □ tablet is **lost** or **stolen**:

- If you previously installed app "Lookout" <u>above</u>, use <u>Lookout</u>'s features Find My Device > Scream or Lock or Wipe.
- If you did **not** previously install app "Lookout" above, please see "Find My iPhone, iPad, iPod touch, or Mac". Depending on details, you can ring it to locate its exact location, lock it, or erase your personal data.
- Or please see → Apple Device and Data Access when Personal Safety is at Risk for → Apple iPhone
 smartphones; iPad □ tablets; Macintosh, iMac, iBook, and MacBook □ computers; and probably HomePod devices.
- □ If you have an **iPhone** □ smartphone or **iPad** □ tablet that does not yet have **antimalware** software, please install one of:
 - o <u>Lookout</u> or
 - o Malwarebytes (free is a terrific on-demand scan, but the prevention module costs \$),
 - o <u>from somewhere other than China</u>, Russia and associated countries.
- □ I am familiar with **Lookout**; to install it:
 - o launch app App Store >
 - **Q Search** for "Lookout" >
 - o select iPhone/iPad app "Lookout Backup, Security, Find Your iPhone, iPad or iPod touch" "Free" from Lookout Mobile Security with icon of a white-on-green shield >
 - o click button Free >
 - \circ install free version.
 - \circ Launch.
 - $_{\odot}$ Sign in with an email address and password.
 - **Ξ Settings > Theft Protection >** top tab Locate My Device
 - > turn on **Location** (helped me greatly, at least once!),
 - > turn on Scream (helped me immensely, and M!);
 - and anything else you can.
 - \circ Consider **\equiv** Settings > Backup.

Lookout will protect your device from new threats.

Lookout will periodically run scans to remove **existing threats**. Lately, once a day. Run a scan right now, by launching app Lookout > tab Security > button Scan Now.

Lookout has a nice feature ("**Signal Flare**", I think) where, if your I Android or iPad finds itself running out of battery, it finds out where it is and \square emails you its location (granular enough to see which building it is in, not where in that building). Cool!

Lookout tells you if there is a **software update** to your iPad, and if needed, how to get that update (connect iPad to Mac or PC > if iTunes does not auto-launch, launch it > when prompted to update the iPad software, click "Download and Update").

Lookout will automatically backup your Contacts list to the Cloud, from where you can download it at any time.

Lookout Pro will automatically backup your **photos** (¿videos?) to the Cloud, from where you can download it at any time. *If you take photos (¿videos?) at risk if your* phone should get lost or confiscated by the *authorities*, check out whether backups happen automatically, how often it happens, and if it includes videos, and if OK, **upgrade** to Lookout Pro for \$30/year and turn on photo backup.

Lookout will (I imagine) occasionally ask you to update itself. Please tell it Yes.

□ If relevant, follow steps in **Domestic abuse paper** from **♦** Apple in 2021.

□ Ensure you have all your **old apps**, and they are **hooked up** and operating correctly. For example:

- Lookout (above).
- Phone and Messaging, including Contacts.
- Maps.
- \circ Weather.
- \circ News.
- o Email..
- o Calendar
- o iCloud, including re-setting your Offline files.
- <u>Costco</u> Pharmacy.
- o Tasks.
- **Dropbox**, including re-setting your Offline files.
- o iPhoto.
- ACLU Mobile Justice app for your jurisdiction.
- On-demand lawyer app TurnSignl <u>https://TurnSignl.com</u>, USA-only, subscription \$ unless low-income household.
- $_{\odot}$ Local sheriff or police app, including signing up for local Groups relevant to you.
- \circ iNaturalist.
- Wi-Fi Analyzer.
- □ Set all relevant **emergency settings** that didn't get done above, including:
 - [gear] Settings > Security > Device admin apps > allow Lookout, Find My Device and ACLU Enable Lock Screen on Trigger.
- Set all relevant ease-of-use settings that didn't get done above, including:
 setting volume-levels and ringtones that you can actually hear. How?
- □ If needed, rebuild your **home screen**, by adding icons for:
 - $\circ\,$ Contact of your sweetie.
 - Your favorite software for digital video virtual web-based meetings, conferences, gatherings or webinars.
 - $_{\circ}$ YouTube.
 - \circ Clock.
 - Your favorite websites (e.g., <u>EricPiehl.com</u> and <u>iCanSeeNature.com</u>).
- □ <u>To take a screenshot on </u> iOS or <u>□</u> <u>∩</u> <u>Android</u> (and probably <u>□</u> **iPadOS**).
- □ On **□** Windows, do one of:
 - Estart > type "snip" > wait > desktop app Snipping Tool > New > mouse drag rectangle you want > Exit > Save=Yes > to .png or .tiff format (lossless!), not .jpg (lossy!).
 - ₩win+Shift+S > choose a shape > drag your area > do something with your results in the Clipboard or Notification.
- Disable **ad id tracking**, and why you should do it now.
- □ After you finish these Emergency steps, make a note to come back tomorrow, to continue with the <u>Monthly</u> <u>section</u> below.

6.2 Emergency: Find or clean Android smartphone or tablet, or Chromebook

- □ If your **Android** □ smartphone or □ tablet, or □ Chromium OS **Chromebook** device is **lost** or **stolen**:
 - If you previously installed app "Lookout" <u>above</u>, use <u>Lookout</u>'s features Find My Device > Scream or Lock or Wipe.
 - If you did **not** previously install app "Lookout" above, please see <u>https://myaccount.google.com/security</u> or "<u>How to use Google to find your lost Android phone</u>". Depending on details, you can locate its exact location, lock it, or erase your personal data.
- What to do with Android in water.
- □ If you have an **Android** □ smartphone or □ tablet, or □ Chromium OS **Chromebook** device that does not yet have **antimalware** software, please install one of:
 - o Lookout,
 - Malwarebytes (free is a terrific on-demand scan, but the prevention module costs \$),
 - o Sophos Mobile Security for Android or

- o other options;
- o <u>from somewhere other than China</u>, Russia and associated countries.

□ I am familiar with **Lookout**. To install it:

- launch app Play Store (icon may be on its own, may be in folder Google) >
- o Q Search for "Lookout" >
- o select Android app "Lookout Security and Antivirus" from Lookout Mobile Security with icon of a white-on-green shield >
- o click button Free >
- $_{\odot}$ install free version.
- Launch.
- $_{\odot}$ Sign in with an email address and password.
- **E Settings > Theft Protection >** top tab **Locate My Device**
 - > turn on Location (helped me greatly, at least once!),
 - > turn on Scream (helped me immensely, and M!);
 - and anything else you can.
- \circ Consider **\equiv** Settings > Backup.

Lookout will protect your device from new threats.

Lookout will periodically run scans to remove **existing threats**. Lately, once a day. Run a scan right now, by launching app Lookout > tab Security > button Scan Now.

Lookout has a nice feature "**Scream**" that makes it make a loud noise. I used it once when my granddaughter dumped my \square phone into a toybox while I was distracted for a second. A lifesaver! It also has a nice feature ("**Signal Flare**", I think) where, if your \square \square Android or iPad finds itself running out of battery, it finds out where it is and \square emails you its location (granular enough to see which building it is in, not where in that building). Cool!

Lookout will automatically backup your **Contacts list** to the Cloud, from where you can download it at any time.

Lookout Pro will automatically backup your **photos** (¿videos?) to the Cloud, from where you can download it at any time. *If you take photos (¿videos?) at risk if your* \square *phone should get lost or confiscated by the authorities*, check out whether backups happen automatically, how often it happens, and if it includes videos, and if OK, **upgrade** to Lookout Pro for \$30/year and turn on photo backup.

Lookout will occasionally ask you to update itself. Lately, twice a year or so. Please tell it Yes.

- □ A **Motorola** □ phone I saw with Android 5.1 said it also has functions to **locate**, **lock** or **wipe** your □ phone, if you first use app Moto to activate device administrator, link to a Google account (you almost certainly did when you first got it), and later (when you need to locate, lock or wipe it?) log in to www.motorola.com/support.
- □ To ensure your **Android** □ smartphone or □ tablet device does not suffer from the <u>Stagefright Flaw</u> of 2015-07-27, please:
 - \circ launch app **Play Store** (icon may be on its own, may be in folder Google) >
 - o Q Search for "Stagefright Detector" >
 - o select Android app "Stagefright Detector" from Lookout Mobile Security FREE with white-on-green sad-face shield >
 - o Install.
 - When installed, **Open** it.
 - If it says "Everything is OK", it is. If you wish, uninstall the app.
 - If it says your device is affected and the vulnerable behavior is enabled, please follow-up with "More info" or your local techie.
- □ To ensure your **Android** □ smartphone or □ tablet device does not suffer from the <u>Heartbleed Flaw</u> of 2014-04-09, please:
 - launch app Google Play Store >
 - o Q Search for "Heartbleed" >

- o select Android app "Heartbleed Detector" from Lookout Mobile Security FREE with white-on-green dripping-heart shield >
- o Install.
- When installed, Open it.
 - If it says "Everything is OK", it is. If you wish, uninstall the app.
 - If it says your device is affected and the vulnerable behavior is enabled, please follow-up with "More info" or your local techie.
- □ If you are having **battery duration** problems:
 - o If you use Republic Wireless, report your battery drain. Regardless of this ...
 - o Launch Android app [gear] Settings >
 - **Battery** > select **each** app to see any settings that can reduce battery use.
 - **Battery** > **Ξ** hamburger icon in upper-right > **Battery saver** > Turn on automatically > at 15%.
 - **Location** > **Mode**=Battery saving.

□ <u>To take a screenshot on</u> <u>iOS or</u> <u>I</u> <u>Android</u> (and probably **I iPadOS**).

- □ On **□ Windows**, do one of:
 - HStart > type "snip" > wait > desktop app Snipping Tool > New > mouse drag rectangle you want > Exit > Save=Yes > to .png or .tiff format (lossless!), not .jpg (lossy!).
 - ⊞Win+Shift+S > choose a shape > drag your area > do something with your results in the Clipboard or Notification.
- □ Examine [gear] **Settings** > [**Google** >] **Location**.
- □ Examine Google Settings > Ads > Opt out of Ads Personalization.
- Disable ad id tracking, and why you should do it now.
- □ Follow these Android tips. And these Android security tips.
- □ If you have to (most of the early ones look OK).
- □ After you finish these Emergency steps, make a note to come back tomorrow, to continue with the <u>Monthly</u> <u>section</u> below.

6.3 Emergency: Find or clean your 🖵 computer

If you lost your \square *computer*:

- □ ♥□ If **Apple macOS** (Macintosh, iMac, iBook, and MacBook □ computers), please see "Find My iPhone, iPad, iPod touch, or Mac".
 - Or please see <u>Apple Device and Data Access when Personal Safety is at Risk</u> for <u>Apple iPhone</u>
 Smartphones; iPad tablets; Macintosh, iMac, iBook, and MacBook □ computers; and probably HomePod devices.
- If your **SSD/harddrive** is **failing**, or your system is **badly compromised**, or you or your local geek are **scared**:
 - If laptop, do a powerbutton long-press (at least 60 seconds). Unplug it. If the battery is removable, remove the battery.
 - □ *If desktop,* pull the plug.
 - □ Do **not** restore power your **□** computer again.
 - □ Ask your local uber-geek for help; perhaps me, if you are close. Ask your geek to:
 - Remove your SSD/harddrive, and attach to it another computer as a non-bootable drive, perhaps with a USB-SATA harddrive adapter or caddy (docking station). SSD?
 - Look at the contents there, and clean or rebuild it, or copy your data to another drive.
 - □ *If your computer is old*, buy a new one, reinstall your old software, and get your data from above.
 - □ *If your computer is new*, find out from your geek above whether your SSD/harddrive can be cleaned. If No, buy a new SSD/harddrive, reinstall your old software, and get your data from above.
 - When this happened to a close family member, s/he called me. I told him/her to do the above. Who did! I was impressed how fast everything was back up and running. Scary when you are in the middle of it; fine after recovery complete.
 - □ <u>Harddrive testing programs</u>. (SSD?)

If you **can't log on** to your computer or have a serious problem not as bad as above, ask your local geek for help; perhaps me, if you are close. If your local geek is me, I might look at:

- □ *I've Been Hacked! Now What?*.
- □ <u>How to Hack Into Your Own Computer</u>.
- □ *How To Fix a Computer That Won't Turn On*.
- How To Fix a Computer That Turns On But Displays Nothing.
- $\hfill\square$ The notes I have somewhere on what I did in the past.

If you **can't fix your computer, and need help**, under **H** Microsoft Windows:

- □ Find a good technically-proficient friend, that you trust a lot, to help.
- □ Have them type Hwin+S (or select HStart and wait until a search box appears) > type "quick assist"
- > wait for app Quick Assist to appear > launch it > button **Give assistance** > logon > and when they are set up and receive a 6-digit security code, give you the code that they got.
- □ Then you click **H**Start > type "quick assist" > wait for app Quick Assist to appear > launch it > button **Get assistance** > type the 6-digit security code you got from your friend.
- □ They can now run your computer from their computer, and (perhaps) fix it.
- Let me know how this works out!

On **any** computer in your household suspected as being compromised:

- □ *If your computer does not yet have antimalware software*, install one, from somewhere other than China, Russia and associated countries.
 - I recommend these free-for-personal-use:
 - **W** For **Apple macOS** (Macintosh, iMac, iBook, and MacBook) **L** computers:
 - Sophos AntiVirus for Mac Home Edition (recommended by UM and Cryptoparty Ann Arbor), or
 - If you get your Internet via **Comcast**, you can get Norton Internet Security **free**:
 - Install under Comcast, from https://internetsecurity.xfinity.com.
 - Later, it will update itself from anywhere in the solar system with Internet access.
 - I mildly dis-recommend it.
 - I **dis-recommend Kaspersky** Anti-Virus or Kaspersky Internet Security due to (2015-2017-?) claims of close ties to Russian military and intelligence officials. I previously liked the company. I will keep my ears open for more developments.
 - <u>Current recommendations (very good) from the University of Michigan</u>.
 - Recommendations from Lifewire.
 - Other recommendations from Lifewire.
 - ₿ For Linux:
 - Current recommendations (very good) from the University of Michigan.
 - Other recommendations from Lifewire.
 - ⊞ For **Microsoft Windows 11**:
 - Microsoft Defender Antivirus (app Windows Security). Already installed.
 - Verify that Microsoft Defender Antivirus (app Windows Security) is running, and updates itself. To do that:
 - Click ⊞Start > type "defender" > wait for Windows Security app (formerly Windows Defender desktop app) to appear > launch it.
 - \circ Look for:
 - Virus & threat protection > Real-time protection=On,
 - Virus and spyware definitions=Up to date, and
 - (assuming MWD installed more than a couple weeks ago) Last-scan=sometime in the last week.
 If these are true, you are protected.
 - If Microsoft Defender Antivirus (app Windows Security) is **not** running, continue... Or I read that MWD is adequate for most users for most purposes; *if you want better protection*, install one of (after you do so, MWD will turn itself off)...
 - Avast! Free Antivirus Essential > Free Download (trying this now), or
 - Avira AntiVir Personal, or
 - F-Prot (liked it a lot when I used some years ago when it had a free version), or
 - <u>Malwarebytes</u> (free is a terrific on-demand scan, but the prevention module costs \$), or
 - If you get your Internet via Comcast, you can get Norton Security software free:
 - Install under Comcast, from <u>https://internetsecurity.xfinity.com</u>.
 - Later, it will update itself from anywhere in the solar system with Internet access.
 - I mildly dis-recommend it.

- I **dis-recommend Kaspersky** Anti-Virus or Kaspersky Internet Security due to (2015-2017-?) claims of close ties to Russian military and intelligence officials. I previously liked the company. I will keep my ears open for more developments.
- Current recommendations (very good) from the University of Michigan.
- Other recommendations from Lifewire.

◦ ⊞ For Microsoft Windows 8.1:

- Microsoft Defender Antivirus (app Windows Security). <u>Alleged to be already installed.</u> Oops, when I checked a friend's machine, MWD was **not** installed or maybe a subset. Please continue...
 - Verify that Microsoft Defender Antivirus (app Windows Security) is running, and updates itself. To do that:

○ Click ⊞Start > type "defender" > wait for Windows Security app (formerly Windows Defender desktop app) to appear > launch it.

- \circ Look for:
 - Virus & threat protection > Real-time protection=On,
 - Virus and spyware definitions=Up to date, and
 - (assuming MWD installed more than a couple weeks ago) **Last-scan**=sometime in the last week.
- If these are true, you are protected.
- If Microsoft Defender Antivirus (app Windows Security) is **not** running, continue... Or I read that MWD is adequate for most users for most purposes; *if you want better protection*, install one of (after you do so, MWD will turn itself off)...
- Avast! Free Antivirus Essential > Free Download (trying this now), or
- <u>Avira AntiVir Personal</u>, or
- F-Prot (liked it a lot when I used some years ago when it had a free version), or
- Malwarebytes (free is a terrific on-demand scan, but the prevention module costs \$), or
- If you get your Internet via Comcast, you can get Norton Security software free:
 - Install under Comcast, from https://internetsecurity.xfinity.com.
 - Later, it will update itself from anywhere in the solar system with Internet access.
 - I mildly dis-recommend it.
- I **dis-recommend Kaspersky** Anti-Virus or Kaspersky Internet Security due to (2015-2017-?) claims of close ties to Russian military and intelligence officials. I previously liked the company. I will keep my ears open for more developments.
- <u>Current recommendations (very good) from the University of Michigan</u>.
- Other recommendations from Lifewire

◦ ⊞ For **Microsoft Windows 7, Vista or XP** (and 8.0 and any version other than Windows 11):

- Lpgrade Windows now! Really! Until you do, continue ...
- <u>Microsoft Security Essentials MSE</u> (TODO: get new link) (recommended by <u>UM</u>) if free this week, or
- If MSE is **not** running, continue... Or I read that MSE is adequate for most users for most purposes; *if you want better protection*, install one of (after you do so, MSE will turn itself off) ...
- <u>Avast!</u> Free Antivirus Essential > Free Download (trying this now), or
- <u>Avira AntiVir Personal</u>, or
- F-Prot (liked it a lot when I used some years ago when it had a free version), or
- <u>Malwarebytes</u> (free is a terrific on-demand scan, but the prevention module costs \$), or
- If you get your Internet via **Comcast**, you can get Norton Security software **free**:
 - Install under Comcast, from https://internetsecurity.xfinity.com.
 - Later, it will update itself from anywhere in the solar system with Internet access.
 - I mildly dis-recommend it.
- I **dis-recommend Kaspersky** Anti-Virus or Kaspersky Internet Security due to (2015-2017-?) claims of close ties to Russian military and intelligence officials. I previously liked the company. I will keep my ears open for more developments.
- <u>Current recommendations (very good) from the University of Michigan</u>.
- Other recommendations from Lifewire.
- For servers:
 - <u>Current recommendations (very good) from the University of Michigan</u>.
- For total expert needs, see <u>Communications Security Establishment CSE Assemblyline</u> and <u>Krebs on Security</u> <u>blog</u>.
- Update your antimalware/antivirus rules.
- □ **Reboot** (if under Windows, **H**Start > 1/0 Power > Restart).
- □ Run antimalware/antivirus **full-scan**.
- □ Update your **antimalware/antivirus rules**.
- □ Repeat these last five steps until **clean**.

- □ Install <u>Microsoft Security Scanner</u>, and run it until clean. I used this and the below to get rid of some troublesome adware/potentially unwanted programs PUP.
- If you don't use <u>Malwarebytes</u> antimalware, install the free version, boot to Safe Mode, and run it until clean. I used this and the above to get rid of some troublesome adware/potentially unwanted programs PUP.
- □ *If you don't feel comfortable after the above*, I see there is (to install, follow the links, might be free):
 - Norton > Security > Run Scans > <u>Norton Power Eraser</u> utility. When I tried this when not in trouble, it complained about two apps. However, I have and like these apps, so I told NPE not to do anything. Bottom line, I have not yet found it useful.
 - Norton Bootable Recovery Tool. I have not yet used this.
 - If don't have Norton Security software at this time.

□ *If you use web browser* **Chrome**, periodically use the <u>Chrome cleanup tool</u> (<u>discussion</u>).

 For your other web browsers (e.g., Firefox, Edge, Chrome, Safari, Opera, Internet Explorer, Vivaldi or Brave).

- □ If paranoid, turn on ⊞Win+I (or ⊞Start > [gear] Settings or System Settings) (formerly Control Panel) > Controlled Folder Access > On.
 - Be prepared for, sometime in the following days and weeks, that an application may fail to do its job properly, while Windows Notify tells you it was because Controlled Folder Access prevented it. So far, this has happened to me with apps Dropbox and Quicken. When this happens, you need to:
 - come back here and Allow an app through Controlled folder access >
 - + Add an allowed app >
 - the app that was just prevented.
 - Exit your app, reenter, and you should be fine (I am).
- □ If you are having any networking issues, and running ⊞ Microsoft Windows 10 or 11, run ⊞Start > Network Status > Network Troubleshooter.
- □ If you are having any networking issues, <u>run</u>:
 - o "ipconfig /all",
 - o "ipconfig /release",
 - o "ipconfig /renew",
 - o "ipconfig /all",
 - o **"exit**".
- □ And see <u>Ten Windows 10 network commands everyone should know</u>.
- □ If you are still having any networking issues, and running ⊞ Microsoft Windows 10 or 11, run ⊞Start > Network Status > Network Reset > Reset.

If I ever get the **Blue Screen of Death BSoD** or **other scary messages:**.

- □ Do a power-cycle: do a power-button long-press (at least 60 seconds).
- Bring up your computer into manufacturer diagnostics: press the **power-button** briefly, and start hitting key
 Esc (or F2 or F10) repeatedly.
 - On a HP laptop, repeatedly hit **Esc**, and after the screen comes up, **F2** will take you to the diagnostics
 - Will come up in some diagnostics from the manufacturer, such as **HP system Extensive Test** or **HP PC Hardware Diagnostics UEFI**. Run some!
- □ Write down the results, or from inside the test software, or find their logs on your SSD/harddrive.
- □ While there, get other diagnostic files ***.txt** and ***.log** from:
 - o file:///%windir%\debug\WIA\.
 - o file:///%windir%\Logs\CBS\.
 - <u>file:///%windir%\Logs\DISM\.</u>

- o file:///%windir%\System32\logfiles\SRT\
- file:///%windir%\.
- file:///%systemdrive%\.

Regardless of the **Blue Screen of Death BSoD** or **other scary messages**, continue ...

- □ 田□ IF your Microsoft Windows computer runs **slower** than it used to:
 - IF you don't know the answer to the next question, check via HStart > type "defrag" > when you see app Defragment and Optimize Drives, select or [Enter] > on the row for your system drive, look at column Media type.
 - IF your computer has a solid-state drive (SSD):
 - See Tom's Hardware "How to check SSD health in Windows 10 and 11".
 - ELSE your computer has a real spinning magnetic hard disk drive (HDD):
 - IF you don't need your computer for several hours (overnight or longer?), check for dodgy harddrive disk sectors (SSD?) and fix them by running:
 - •
 ⊞Win+X (or right-click of
 ⊞Start icon) > Windows PowerShell (Admin) or Command Prompt
 (Admin) > type "chkdsk /F /R /X /B c:" (no quotes) [Enter] > type "Y".
 (TODO: try running it
 without the /parameters. Allegedly, it tells you how many bad sectors you have. Then you can fix it
 with the full suite of parameters.)
 -OR
 - ⊞Start > File Explorer/This PC > [formerly Windows Explorer/My Computer, and still called Windows Explorer under-the-covers] > C: > right-click Properties > tab Tools > area Error checking "This option will check the drive for file system errors" > button Check [Now...] > if you see checkboxes, check both > Scan Drive [or ⊞Start > Schedule disk check].
 - Finish what you are doing, and only when your computer is plugged in and you don't need it for several hours (overnight or longer?), Reboot (⊞Start > 1/0 Power > Restart) and let her run!
 - To see the results, **TODO:** write this. Apparently, redirect operators > or >> are not enough.

□ *If you are going to ask me for support*, please <u>run</u> and have ready for me:

- o "msinfo32" > Export > somewhereGood\myComputer_MSINF032.txt > Save,
- o navigate somewhereGood, "ipconfig /all > myComputer_IPCONFIG.txt" [Enter],
- o "diskpart", "list volume", "exit", and save the results in one of the files above, and
- Powershell "(Get-WmiObject -query 'select * from SoftwareLicensingService').OA3xOriginalProductKey" and save the results in one of the files above.
- A copy of <u>file:///%windir%\Logs\CBS\CBS.log</u>.
- $_{\odot}$ Then when we get together, we will ...

□ <u>Run</u> the various tools (free on Windows) in "msconfig" [Enter] tab Tools, including mmc.

- □ Run the Windows System File Checker, via ⊞Win+X (or right-click of ⊞Start icon) > Windows
- **PowerShell (Admin)** or Command Prompt (Admin) > type "sfc /VERIFYONLY" (no quotes) [Enter].

 If it shows anything bad, stay in the Admin command prompt, enter "sfc /scannow" [Enter]. It will take a while — a half-hour or so.

<u>This article says you may have to run it 3 times</u>. In between, reboot, until it runs clean (fixes no errors).
 And:

- o "dism /Online /Cleanup-Image /CheckHealth",
- o "dism /Online /Cleanup-Image /ScanHealth",
- o "dism /Online /Cleanup-Image /RestoreHealth",
- reboot, and
- o run "sfc /scannow" a fourth time.
- Can seek guidance in <u>https://TomsGuide.com/computing/windows-operating-systems/how-to-repair-a-windows-11-using-dism-command-tool</u>.
 TODO: Compare this against what I have above and below.
- □ *If all this didn't correct everything*, look for guidance on commands chkdsk, sfc and dism at <u>https://duckduckgo.com/?q=chkdsk+sfc+dism</u> or <u>https://google.com/search?q=chkdsk+sfc+dism</u>.
- □ Then have your local techie look at the output of your commands and their logs <u>file:///%windir%\Logs\CBS**CBS.log**</u> and <u>file:///%windir%\Logs\DISM**dism.log**</u>.

- □ Determine that you have your **computer** manufacturer's *Support Assistant (if under Windows,* **HStart** > scroll down list of programs), or install it now.
 - For example:
 - <u>HP Support Assistant</u>, and
 - <u>HP PC Hardware Diagnostics</u>.
 - Run relevant of its/their:
 - Updates to any software or firmware,
 - Operating System checks (if any Fail, keep logs),
 - System tests (if any Fail, keep logs),
 - Hardware tests (if any Fail, keep logs),
 - Diagnostic tests (if any Fail, keep logs), and
 - Optimizations.
- □ Determine that you have your computer **chip** manufacture's *Support Assistant (if under Windows,* **HStart** > scroll down list of programs), or install it now.
 - For example:
 - Intel® Driver & Support Assistant DSA.
 - <u>AMD</u> Catalyst Control Center.
 - Run relevant of its:
 - Updates to any software or firmware,
 - System tests (if any Fail, keep logs), and
 - Diagnostic tests (if any Fail, keep logs).

□ <u>Remove the Fluff From Windows 10 With Windows Decrapifier & Debloater</u>.

□ If you have MS Outlook, repair your MS Outlook .pst files using command scanpst.

- □ *If you* **still** have problems with your PC, <u>reset your Windows PC to fix major problems</u>, or <u>http://zdnet.com/article/windows-10-tip-reset-your-pc-completely</u> or <u>https://microsoft.com/en-us/software-download/windows10startfresh</u> or <u>https://lifewire.com/how-to-clean-install-windows-2624904</u>.
 - o ⊞ If Microsoft Windows □ computer, may involve ⊞Win+I (or ⊞Start > [gear] Settings or System Settings) (formerly Control Panel) > search for or select icon Update & security > left-tab Recovery > section Advanced startup > button Restart now > wait for reboot > Troubleshoot > Advanced options > Startup Repair > Diagnosing your PC.
- □ <u>How to fix a computer that won't turn on</u>.
- □ After you finish these Emergency steps, make a note to come back tomorrow, to continue with the <u>Monthly</u> <u>section</u> and <u>Quarterly section</u> below. Meanwhile, continue here with section <u>"6.4 Emergency: Change your <u>email and other passwords"</u>...</u>

6.3.1 Emergency: Fix up M's 🖵 computer

To get **printer** to listen to you:

- Hover mouse over Windows Wi-Fi symbol; verify that your computer is connected to the same Wi-Fi network as your printer (in our house, "NativePl____").
- \circ If not, connect to it.
- Dever down other computers on this Wi-Fi network.
- Reboot printer.
- Reboot your computer.
- D Move your computer closer to printer (be in same room).

To get computer to **show different content** on **second screen** versus the laptop screen:

- □ **HWin+P** > **Extend**, or
- □ **H**Start > type "project" > select **Project to a Second Screen** (System settings) > **Extend**, or
- □ ⊞Start > [gear] Settings > System > left navigation bar Display > scroll way down > set dropdown Multiple displays to value=Extend these displays.

To get back your Microsoft Office **ribbon bar**:

 \Box Mouseclick, in the upper right corner, the little chevron "**v**".

6.4 Emergency: Change your № email and other passwords

If I told you to harden your $\Box \Box \Box$ *computing platforms*, no, you aren't done yet. Please continue:

- □ **Change** your № **email password** to something <u>unique (not the same as any of your other passwords)</u>. Change to using your new email password on **all platforms** on which you use this email address!
- □ *For many purposes,* consider a <u>disposable email account</u>.
- □ **Change** the answers to each of your backup-authentication questions the *name of your first pet*, and whatever. Lie; don't use anything that can be looked up.
- □ If your 🗠 email provider offers two-factor authentication 2FA/2-step verification/multi-factor

authentication MFA, use it. 2FA/2SV/MFA authenticate you by using two or more of these methods:

o something-you-**know** (knowledge, such as a username and password),

 \circ something-you-**have** (*possession*, such as a SMS text account on a \square cellphone), and

• something-you-**are** (*inheritance*, such as fingerprints or eyeball imagery).

<u>Google's</u> 2FA uses the first two methods, with the second method giving you a <u>one-time password OTP</u>. Initially, it had some teething pains, but since 2014, has been great. Yahoo's even works great.

If you cannot/will not use a vendor's 2FA/2SV/MFA authentication, look into app Authy. (TODO: Read https://www.makeuseof.com/what-is-multi-factor-authentication/.)

2FA/2SV/MFA are not perfect — they do **not** protect against <u>man-in-the-middle MitM attacks</u>, nor if your attacker has also gained access to your \square phone's SMS account — , but they do reduce your attack surface.

For any provider that offers two/multi-factor/step authentication/verification, use it!

- □ Change any **other password** with the **same value** as your **old ▷ email password** (consider these compromised, too!), making the new password unique right? Change on **all platforms** on which you use these passwords!
- Check if you have any accounts compromised in announced data breaches, at <u>Have I Been Pwned?</u> (HIBP) (built by an Aussie computer geek) > your@email.address and usernames > pwned?. And take appropriate action:
 - To get notified when future pwnage occurs and your account is compromised, <u>Have I Been Pwned</u>? > nav Notify me > your@email.address.
 - If you have custom email addresses in form you@yourDomain, you can get notified of pwnage of any of them via <u>Have I Been Pwned?</u> > nav **Domain search** > yourDomain > etc.
 - If you are considering a new password, <u>Have I Been Pwned?</u> > nav **Password** > yourPassword > **pwned?**.
 - Helps on correcting your credit Reports.

□ To recover from the **<u>Heartbleed Flaw</u>** of 2014-04-09, *if you haven't done so since this date*, please:

- Change all your passwords at sites listed by <u>www.cnet.com/how-to/which-sites-have-patched-the-heartbleed-bug</u> and/or <u>www.mashable.com/2014/04/09/heartbleed-bug-websites-affected/?cid=146326</u>:
 "Vulnerability patched. Password change recommended": Do that.
 - "Awaiting response": Change your password.
 - "Was not vulnerable": I think you are OK (I trust CNET, mostly). If site is important to you, change your password.
 - *Not listed*: Change your password.
- If you host any websites, patch them. Does this include Apache HTTP Server? Mine is turned off isn't it? Gotta go find out how to check, and read <u>www.eff.org/search/site/heartbleed</u> ...

□ OK, **relax** some:

- If your machines were clean, but your № Yahoo email was hacked, it must have been done on Yahoo's servers. You were cool.
- Pour yourself a glass of wine. Let me know how it went!

• Get a good night sleep, but come back tomorrow, to continue with the Monthly section, to the end ...

6.5 Emergency: Harden your Wi-Fi router, cable modem, and doorbellcam

- If your Wi-Fi router's SSID (network name) is personalized, (e.g., HOME-XXXX or 2Wire999 or yourAddress or somethingAboutYou), you can skip this step. If the SSID is generic (the same as all others of its type) (e.g., Guest or Linksys or xfinitywifi), change it, using the router's administrative page:
 - Netgear > <u>www.routerlogin.net</u> or <u>http://192.168.1.1</u> > "admin" "password" > tab Advanced > left navigation bar Setup > Wireless Setup > from "NETGEAR99" to something unique, such as your address or persona. Write it on the router or paperwork. <u>idea 4</u>
 - Others
 - Get your router's administrative URL from www.techspot.com/guides/287-default-router-ip-addresses; or https://www.lifewire.com/how-to-enable-your-wireless-routers-built-in-firewall-2487668; or https://www.lifewire.com/how-to-enable-your-wireless-routers-built-in-firewall-2487668; or https://www.lifewire.com/ https://www.lifewire.com/ Start > Run > "cmd" [Enter] > https://www.lifewire.com/ Start > Run > "cmd" [Enter] > https://www.lifewire.com/ Start > Run > "cmd" [Enter] > https://www.lifewire.com/ Start > Run > "cmd" [Enter] > https://www.lifewire.com/ Start > Run > https://www.lifewire.com/ https://www.lifewire.com/ https://www.lifewire.com/ https://www.lifewire.com/ start > R
 - Get your router's administrative username and password from <u>www.howtogeek.com/131338/how-to-access-your-router-if-you-forget-the-password</u> or <u>www.routerpasswords.com</u> (e.g., "admin" or blank, and "admin" or "password").
 - In a new browser window, Enter the administrative URL you found above (e.g., "http://10.0.0.1").
 - When it asks for a username and password, give it those you found above (e.g., "admin" or blank, and "admin" or "password").
 - Bop through the admin pages (Wireless sections) until you find how to change the SSID (network name) to something unique, such as your address or persona. <u>idea 4</u>
 - $_{\odot}$ Write your new SSID (network name) on the router or paperwork.
 - While you are at it, ensure your wireless is using great encryption, such as **WPA3** (if not available, use **WPA2-PSK AES**). idea 3
 - While you are at it, ensure your wireless firewall is on, and set correctly. Mine from Comcast Xfinity is set to Typical Security (Medium). **TODO:** Read more about this at <u>https://www.lifewire.com/how-to-enableyour-wireless-routers-built-in-firewall-2487668</u> and <u>https://www.lifewire.com/how-to-test-your-firewall-2487969.</u>
 - Apply.
 - Tell all your networked devices (☐ smartphones, ☐ tablets, ☐ computers, etc.) to connect to the new SSID. And tell them to forget about the old generic SSID (this is actually the goal you don't want your mobile devices to automatically connect to a *honeypot* machine). Under ☐ Windows 10.
- □ *If you haven't <u>changed your Wi-Fi router's</u> <u>administrative password</u>, do that using the router's administrative page:*
 - Netgear > while still logged on to your router's administrative page above > tab Advanced > left navigation bar Administration > Set Password > from "password" to your choice. Write it on the router or paperwork.
 - Others > while still logged on to your router's administrative page above > bop through the admin pages until you find how to change your router's administrative password to your choice. Write it on the router or paperwork.
- If you have Comcast and they provide a Wi-Fi network *xfinitywifi*:
 TODO: Write this. A start: review your use of its SSID.
- See if your cable modem needs a firmware update or configuration change:
 TODO: Write this.
- See if your doorbell camera, nannycam, or Tile or Apple AirTag tracker device, needs a firmware update or configuration change:
 - TODO: Write this, including stalkerware.
- □ Follow <u>http://cnet.com/how-to/tips-to-stay-safe-on-public-wi-fi</u>.
- Or http://komando.com/tips/370327/your-router-needs-this-one-thing-manufacturers-dont-tell-you/all.
- □ After you finish these Emergency steps, make a note to come back tomorrow, to continue with the <u>Monthly/Quarterly section</u> below.

7 Monthly/Quarterly: Harden your 🛛 🗆 computing platforms

By "harden", I mean the process of securing a system, by reducing its *surface of vulnerability* (its *attack surface*), and making it more *resilient* to attack.

This monthly section assumes that you previously followed the <u>one-time suggestions in section 3</u>.

7.1 Monthly: Harden your iPhone 🛛 smartphone or iPad 🗋 tablet

- On your home screen, if App "[gear] Settings" has a number by it, click on it, and handle the message, including "Software Update".
- On your home screen, if App "App Store" has a number by it, click on it, and handle the message, including "Update".
 - □ If in <u>"2.2 One-time: Harden your iPhone <u>smartphone or iPad</u> <u>tablet</u> to <u>not</u> auto-update itself, it will (I imagine) ask you for an update:</u>

Please do that.

• If you wish to run a scan now, launch app Lookout > tab Security > button Scan Now.

□ <u>Clear your browser's cache</u>.

If you have browser Chrome, follow the few steps in <u>https://support.google.com/chrome/answer/2765944</u>
 > tab iPhone & iPad.

If you get junk robocalls on your a landline:

- **NEW** You can look up individual phone numbers at <u>https://lookup.robokiller.com</u>.
- NEW If your cordless phone system (my Panasonic does) has a call-blocking feature: during the call (or later looking at CallerID (CID) > navigate down and right to where you are looking at the phone number) > press button Call Block > follow the prompts.
- Set up call-blocking call-blocker app <u>Nomorobo</u> (awesome!), free on most VoIP landlines (a landline provided digitally perhaps from your cable TV provider).
- Or, I hear, apps <u>Truecaller</u> or <u>RoboKiller</u>.
- Other options
- □ If you get junk **robocalls** on your **G** smartphone:
 - **NEW** You can look up individual phone numbers at <u>https://lookup.robokiller.com</u>.
 - Block all suspected spam calls, or send them directly to voicemail:
 - If through Republic Wireless, see <u>How to Block Robocalls/Spam Calls & Voicemails Using the Republic</u> <u>Wireless App</u>.
 - If through any other mobile company, look into call-blocking call-blocker app <u>Hiya</u> or <u>others</u>, or pay for <u>Nomorobo</u>. Or perhaps, apps <u>RoboKiller</u> or <u>Truecaller</u>, or <u>other choices</u>.
- □ Sign up for, or update, <u>Smart911</u>.
- □ <u>Block ads on YouTube</u>.
- □ Periodically, you might want to review section <u>"3.2 One-time: Harden your iPhone </u>smartphone or iPad <u>tablet</u> above, in case I added any new items.

7.2 Monthly: Harden your Android 🛛 smartphone, 🗋 tablet or 🖵 Chromebook

- □ If <u>in "2.3 One-time: Harden your Android</u> <u>smartphone or</u> <u>tablet or</u> <u>Chromium OS Chromebook</u> <u>device" above</u>, you installed **Lookout** to **not** auto-update itself, it will occasionally (~twice a year) ask you for an update:
- $_{\odot}$ Please do that.
- If you wish to run a scan now, launch app Lookout > tab Security > button Scan Now.

□ If at any time Android tells you "Not enough space":

• See if app [gear] Settings > Storage > Internal storage > Available is at least 500MB (needed to download anything new) or 1GB (nice for speedy operation). If No, continue...

- o App [gear] Settings > Apps > tab ALL > [gear] Settings = hamburger icon in upper-right corner > Sort by size > for each of the top dozen or more apps, select the app, and if has a button "Move to SD card", select it.
 - Currently, these apps seem to be Facebook, Instagram, Translate, Wifi Analyzer, Wifi Connecter Library, iNaturalist and GTasks. Also check all other apps from Meta Platforms, Inc.
- App [gear] Settings > Storage > if sections for Pictures Audio Downloads Misc are more than a MB, see if you can move them to your SD card.
 - For example, from app Camera > swipe left-to-right until [gear] Settings curve comes up > slide curve around until you see an icon that looks like an SD card > set Storage location=SD card.
- o App [gear] Settings > Storage > Cached Data > Clear cashed data? = OK.
- o See if app [gear] Settings > Storage > Internal storage > Available is now at least 500MB (needed to download anything new) or 1GB (nice for speedy operation). If Yes, continue...
- Go back to what you were doing > Cancel > retry what you were doing.
- o If you have to, app [gear] Settings > Apps > tab ALL > [gear] Settings ≡ hamburger icon in upperright corner > Sort by size > for each app you understand and do not use, select the app, and if has a button "DISABLE", select that. Currently, my Disabled apps are charging-related noise suppression, Cloud Print, Google Pinyin Input, Google Play Movies & TV, Google Play Music, Google Text-tospeech Engine, Google+, Hangouts, Motorola Migrate, Photos and TalkBack.
- o Again, app [gear] Settings > Storage > Cached Data > Clear cashed data? = OK (quickly leaks back in).
- Launch app Chrome > ≡ hamburger icon in upper-right > [gear] Settings > Site Settings > Storage > Clear Site Storage....
- See if app [gear] Settings > Storage > Internal storage > Available is now at least 500MB (needed to download anything new) or 1GB (nice for speedy operation). If Yes, continue . . .
- How to Clear the Android System Cache on Motorola and Nexus Phones Running Android 8.0 or Below.
- Go back to what you were doing > Cancel > retry what you were doing.
- □ If you are having **battery duration** problems:
 - o Launch Android app [gear] Settings >
 - **Battery** > select **each** app to see any settings that can reduce battery use.
 - **Battery** > **Ξ**:hamburger icon in upper-right > **Battery saver** > Turn on automatically > at 15%.
 - Location > Mode=Battery saving.
- □ If you think your Facebook app requires too many permissions (it does), uninstall it, and replace it with <u>Tinfoil</u> <u>for Facebook</u>. Saves a huge amount of space on your □ phone, too! So far, seems quite functional.
- □ If at home under Wi-Fi, update your apps via app Play Store > Settings ≡ hamburger icon in upper-left corner > My apps & games > Updates > for each app that needs an update whose existence and permissions you don't mind > Update.
- □ If at home under Wi-Fi, update your OS via [gear] Settings > System Updates > those three things.
- - For each Wi-Fi network SSID <u>still the default name from the router manufacturer</u> (e.g., Guest or Linksys or xfinitywifi), or that you no longer use, or that is not-encrypted, delete it with a tap > Forget.
 - $_{\odot}$ If you want to reorder the remaining networks, apparently you need to install app TBD.
- □ <u>Clear your browser's cache</u>.
 - If you have browser Chrome, follow the few steps in <u>https://support.google.com/chrome/answer/2765944</u>
 > tab Android.
- □ If your Android 🛛 smartphone or 🗖 tablet is **running slow**.
- □ If you get junk **robocalls** on your **☎ landline**:
 - **NEW** You can look up individual phone numbers at <u>https://lookup.robokiller.com</u>.

- NEW If your cordless phone system (my Panasonic does) has a call-blocking feature: during the call (or later looking at CallerID (CID) > navigate down and right to where you are looking at the phone number) > press button Call Block > follow the prompts.
- Set up call-blocking call-blocker app <u>Nomorobo</u> (awesome!), free on most VoIP landlines (a landline provided digitally perhaps from your cable TV provider).
- Or, I hear, apps <u>RoboKiller</u> or <u>Truecaller</u>.

Other options

- □ If you get junk **robocalls** on your **□ smartphone**:
 - **NEW** You can look up individual phone numbers at <u>https://lookup.robokiller.com</u>.
 - Block all suspected spam calls, or send them directly to voicemail:
 - If through Republic Wireless, see <u>How to Block Robocalls/Spam Calls & Voicemails Using the Republic</u> <u>Wireless App</u>.
 - If through any other mobile company, look into call-blocking call-blocker app <u>Hiya</u> or <u>others</u>, or pay for <u>Nomorobo</u>. Or perhaps, apps <u>RoboKiller</u> or <u>Truecaller</u>, or <u>other choices</u>.
 - If using an Android, version 7.0 Nougat or above (likely if your phone is from 2016 or later), block individual numbers via <u>How to Block Calls/Numbers on Phones with Android Nougat 7.0 or Higher</u>.
- \square Sign up for, or update, <u>Smart911</u>.
- □ <u>Block ads on YouTube</u>.
 - □ Periodically, you might want to review section <u>"3.3 One-time: Harden your Android <u>smartphone or </u> <u>tablet or </u><u>Chromium OS Chromebook device</u>" above, in case I added any new items.</u>

7.3 Monthly: Harden your 🗳 computer

A good time to do this would be shortly after **Microsoft Patch Tuesday** (the second Tuesday of the month). Easier to remember is to do it after you pay your **rent**, **mortgage** or **B phone bill**. **When** you do it periodically is not as important as that you **do** *it* periodically (Nike: Just do *it*!):

7.3.1 First steps

- □ If since the last time you rebooted (under
 Microsoft Windows,
 Start > 1/0 Power > Restart or Shutdown), you may have installed, uninstalled or updated any software, or have had your machine up for more than a half hour or so, reboot now (
 Start > Restart).
- □ ⊞ [One-time] If running under Microsoft Windows 8.0 (if not sure, please check http://windows.microsoft.com/en-us/windows/which-operating-system, or ⊞Start > Run > winver, or ⊞Start > Run > msinfo32):
 - o Please follow http://windows.microsoft.com/en-us/windows-8/update-from-windows-8-tutorial.
- - o If you see required updates on top that are not installing now because you are actively using the machine,
 - it is OK to install them now. If you don't, Microsoft will probably will install them in the next few hours.
 If there are Important updates listed, select them.
 - If not, and there are **Recommended** updates, click Recommended and select them.
 - > OK > Install updates.
 - If you see link View optional updates, select it.
 - If there is a dropdown Driver Updates, drop it.
 - Consider installing these, especially if you are having any *new* problems in your computer.
 - For example, *if you are having audio problems,* install any optional drivers regarding audio, such as from Realtek (an audio software vendor), and probably any system firmware drivers.

- [Expert] Regarding Optional updates, you may wish to not install these, until I or another expert is around. Most are good better function for your display or mouse or other hardware. But I see no reason to install Bing Desktop and Bing Bar, nor to put on Remote Desktop stuff I am not going to let anyone use. And I have twice had to *back off* an update one on my wife's machine, an update to some nice HP-proprietary software that caused the *Blue Screen of Death BSoD* until I could back it off (that was I nice trick I felt proud after that), and one update to my own computer that caused my screen to go totally wacky, barely usable until I could back it off. Probably best to install when you have reinforcements.
- On the other hand, installing **Optional** updates has **fixed real-life problems** for a buddy (1 problem) and a close family member (2 problems). So use your judgement!
- o While that runs, you can continue doing ordinary tasks, e.g., send ☞ email, webpages, and stream videos.
- If it asks you to **reboot**, please do so after you finish whatever you are doing.
- When it comes back up, run Windows Update again. Yes, again not all updates can go on at the same time — some updates are prerequisites of other updates. If Windows Update lists any Important or Recommended updates, please install them.
- □ *If the above didn't work*, see <u>https://www.lifewire.com/latest-windows-service-packs-updates-2624595</u>.
- □ ♥□ If running an **Apple macOS** (Macintosh, iMac, iBook, and MacBook) computer, update your **macOS** by selecting icon ♥ **Apple** at the top left of your screen > **About this Mac** > button **Software Update...** > check checkbox **Automatically keep my Mac up to date** > button **Advanced...** > check all checkboxes > button **OK**.
 - If you get "An update is available for your Mac", apply it.
 - If needed, button "Restart Now".
 - If you get the <u>Spinning Pinwheel of Death SPOD</u>.
- Description Update your **antimalware/antivirus rules**. It should be auto-updating, but in case it isn't, do it manually.
 - Usually in your Notification Area (will be Action Center in Win10X) (formerly System Tray by the clock), there is an icon right-click it > "Update" or something.
 - $_{\odot}$ Verify that you are up-to-date.

□ <u>Clear your browser's cache</u>.

• *If you have browser Chrome,* follow <u>https://support.google.com/chrome/answer/2765944</u> > tab **Computer**.

7.3.2 Backup your 🗳 computer

- □ **Backup** your □ computer! (*If I told you to do anything*, please defer this step until the end.)
 - \circ This uses the principle of:
 - LOCKSS Lots of Copies Keep Stuff Safe. -Or-Two is one, one is none, three is best.
 - At least two copies (e.g., your computer and your backup drive, or your cloud and backup drive).
 Preferably, with one copy stored off-site (e.g., your cloud storage).
 - Preferably, three copies.
 - Preferably, with one copy stored off-site (e.g., your cloud storage, or your *other* backup drive stored at a relative's house [swap them out next time you see them]).
 - <u>5 Way to Back up Your Data</u>.
 - Hardware fails, but I've never lost data thanks to this backup plan.
 - For your **most important** data (e.g., **B phone numbers** and such you might want to have on paper while traveling), consider printing it out!
 - If you are a lightweight user or have a lightweight machine, keep all your files in the Cloud, in Facebook, email via webpage, Dropbox (Basic plan FREE) (I love this, and use all the time!), Box, Microsoft OneDrive, Apple iCloud, Google Drive (review), pCloud; secure milDrive, sync.com, SpiderOak ONE (\$); or other file hosting, file synchronization, or online backup services. Except milDrive and SpiderOak, these are free for the first few GB. Except milDrive and SpiderOak, these were designed for sharing files with others, but you can share files with yourself, too! If you are scared to do this, call me. TODO: look into whether SyncBackFree is a good way to manage this.
 - If you have Apple devices, you probably already have access to iCloud.
 - If you have a ▷ Gmail email account, you already have access to Google Drive (review) and Docs, Sheets and Slides through your email account.
 - If you have an № Outlook.com/Live Mail (formerly Hotmail) email account, you already have access to Microsoft OneDrive and Office Online through your email account.

- If you have lots of files on your □ computer (docs, photos, music, video, family history, et al add up fast!), I recommend you buy an **external harddrive HDD**. \$80 might be about right. As of 2015-April that will get you a very nice compact don't-power-from-wall USB drive that holds 2 TB. More TB is better. Compact is good. Power-from-wall will be a hassle. However, ...
 - If you choose an SSD or very large flash-drive/jumpdrive/thumbdrive/USB-attached SSD/USB-drive/ USB-key/USB-stick, read <u>Hardware fails, but I've never lost data thanks to this backup plan</u>.
 - If confused, see me.
 - When you acquire a new flash-drive/jumpdrive/thumbdrive/USB-attached SSD/USB-drive/USB-key/USB-stick:
 - IF your drive came in format="FAT32", AND you want your drive to handle file sizes >4GB=No, THEN you can leave it just like this.

 - IF your flash-drive/jumpdrive/thumbdrive/USB-attached SSD/USB-drive/USB-key/USB-stick came in format="HFS+",
 - AND you want your drive for ♥□ Apple macOS use=Read-Write AND ⊞ Microsoft Windows use=not at all, THEN you can leave it just like this.
 - IF you want your drive for use in the Honda Fit/Jazz Type 2 entertainment system, THEN reformat your drive to format="FAT32".
 - THEN apply the "exFAT patch".
 - IF you are running ⊞ Microsoft Windows release before 7, THEN apply the "exFAT patch".
 - IF you are running ⊞ Microsoft Windows release before 10, THEN upgrade to a modern level of Windows with all due speed.
 - IF you want your drive for ♥□ Apple macOS use=Read-Write AND/OR ⊞ Microsoft Windows use=Read-Write, AND/OR handle file sizes >4GB=Yes, THEN reformat your drive to format="exFAT" as in https://support.wdc.com/knowledgebase/answer.aspx?ID=291 (creates folder "___MACOSX").
 - While you are at it, personalize the name of your **backup drive** to:
 - something with your name and location, in format FirstLastUSA, or
 - a permanently-available 🛛 🕿 phone number, in format AAA-XXX-NNNN.
- There are **two** main types of backups:
 - The contents of your **entire** SSD/harddrive, right now. Such as with:
 - <u>Clonezilla</u>, to a USB SSD/harddrive. Said to be a good way to make sure you can get your SSD/harddrive back to this state, exactly. **TODO:** Try this.
 - Proprietary software, to a tapedrive or other medium. I have used this many times, to very good effect. Don't have a current method to do this.
 - Your critical userdata. Whatever critical means. Might be splattered all over, or hiding. Presumably, you would have another method to reinstall your operating system and necessary software (e.g., MS Office, Quicken, photo software), before you then get your critical userdata back from here. This is the option mostly discussed below. Nicest is to have: a full backup first, then incrementals (whatever changed since the previous full backup), preferably where at restore time, you can pick any particular version of any particular file, as in Time Machine.
- →□ For Apple macOS (Macintosh, iMac, iBook, and MacBook) □ computers, please see "Mac Basics: Time Machine backs up your Mac" and <u>http://reviews.cnet.com/8301-13727 7-57407390-263/how-to-set-up-</u> time-machine-on-your-mac/.
- ⊞ For Microsoft Windows:
 - Please see "If we show you how to back up your PC for free, will you finally do it?".
 - How to back up Windows 11.
 - If you have a large backup drive (look at the box) compared to the number of size of files on your SSD/harddrive (look at File Explorer/This PC [formerly Windows Explorer/My Computer, and

still called *Windows Explorer under-the-covers*] icon for the C: drive), it is OK to use Microsoft backup, via ⊞Win+I (or ⊞Start > [gear] Settings or System Settings) (formerly Control Panel) > Backup and Restore, to that external SSD/harddrive. I find MS Backup:

- Probably backs up everything I want. **TODO:** Verify.
- Wasteful on space a large drive I bought to backup $\Box\Box$ two computers, only does mine.
- Probably more sure/easier to understand is <u>Karen's Power Tools replicator-backup utility</u> (although it takes some setup from you). TODO: Try this.
- TODO: Or try that in https://www.pcworld.com/article/2144389/freefilesync-review.html.
- TODO: Investigate Windows command robocopy point 14.
- I use a utility different from all the above.
- If you need to be thriftier, it might be OK to use the software that came with your external SSD/harddrive: some are OK; some do **NOT** back up all the files I need; and most only keep **one copy** of each file, and I want versioning for my many files that change a lot.
- If you use PhotoShop Elements PSE, manually copy your PSE catalogs from
 "C:\ProgramData\Adobe*\Catalogs" to your My Documents or %USERPROFILE%\Documents\
 Backup\AdobeCatalogs_yyyymmdd\ folder that is backed up. This should take care of all *.prel
 *.psess *.ps* *.psd *.pse *.pspImage files.
- If you use Microsoft Outlook, and have not yet moved your .pst files to your My Documents or other folder that is backed up, copy them to %USERPROFILE%\Documents\Backup\MSOutlook yyyymmdd\.
- What I really want is Time Machine (in the **Apple Macintosh** bullet above) or Intelligent Backup (what I used to have years ago). Why can't I have these, on my machine now?
- **TODO:** see above article's link to <u>SyncBackFree</u> (looks very promising).
- To back up your machine, while doing all you can to <u>protect against cryptoviral extortion ransomware</u> (e.g., <u>CrypoLocker</u>) from wrecking your backup drive as well:
 - Verify that your antivirus is up-to-date, has run recently, and ran clean.
 - [Expert] [me] Turn **off** your Internet connection (optional) (if you are paranoid: required) (me: I try to, unless rushed for time), to increase chance your backup is secure if you get infected by malware or ransomware.
 - [Expert] [me] To prevent Norton from quarantining some of my tools, set Norton > [gear] Settings > Removable media scan=OFF.
 - Connect your backup drive.
 - Do the **backup** as above.
 - **Disconnect** your backup drive. (Now, if you get infected and notice it before your next backup, this backup is safe.)
 - [Expert] [me] If four bullets up, you told Norton > [gear] Settings > Removable media scan=OFF, set it back =ON.
 - [Expert] [me] If six bullets up, you turned it off, turn **on** your Internet connection.
- - If you have **Apple** devices, you probably already have access to **iCloud**.
 - If you have a ▷ Gmail email account, you already have access to Google Drive (review) and Docs, Sheets and Slides through your email account.
 - If you have an № Outlook.com/Live Mail (formerly Hotmail) email account, you already have access to Microsoft OneDrive and Office Online through your email account.
- If your house catches on fire, be sure to grab at least one of your □ computer or backup drive!
 Or keep your backup drive in a fireproof safe, bolted to a wall.
- Or store your backup drive in the house of a trusted family member or friend!
- TODO: See if there is anything else I need to copy from tools.pdf and the other doc.
- **TODO:** Add here how to back up **Facebook data** (and other apps from Meta Platforms, Inc.). <u>Save videos</u> <u>from Facebook.</u>

7.3.3 More steps

□ Ensure your □ computer does not automatically attach to non-secure Wi-Fi networks.

- ⊞ Under Microsoft Windows 10 and 11:
 - <u>Run</u> ⊞Win+X (or right-click of ⊞Start icon) > Windows PowerShell (Admin) or Command Prompt (Admin) > type "netsh wlan show profiles" (no quotes).
 - For each Wi-Fi network SSID <u>still the **default name** from the router manufacturer</u> (such as "Guest" or "Linksys"), or that you no longer use, **delete** it with something like: netsh wlan delete profile name="Guest"
 - For each **public** or **not-encrypted** Wi-Fi network to which you sometimes connect, **move it to the bottom of the list** with something like:
 - netsh wlan set profileorder name="xfinitywifi" interface="Wi-Fi" priority=13
 - For your preferred home private encrypted Wi-Fi network to which you connect a lot, move it to the top of the list with something like:
 - netsh wlan set profileorder name="myNetwork" interface="Wi-Fi" priority=1
 - Verify that the list appears as you intended, by repeating: netsh wlan show profiles
- ♥□ Under **Apple macOS** (Macintosh, iMac, iBook, and MacBook □ computers):
 - Open **Spotlight** by pressing Command key **#-spacebar**.
 - Type "network" [Enter].
 - Look for a System Preference called Network and double-click it.
 - Click on button **Advanced**.
 - For each Wi-Fi network SSID <u>still the **default name** from the router manufacturer</u> (such as "Guest" or "Linksys"), or that you no longer use, **delete** it by clicking its name in the list, and then button "-".
 - For each **public** or **not-encrypted** Wi-Fi network to which you sometimes connect, **drag it to the bottom of the list.**
 - Drag your **preferred home private encrypted** Wi-Fi network to the top of the list.
 - If iCloud Keychain is active, click **Remove**.
 - Click OK.
 - Click **Apply**. *If you use iCloud Keychain*, all connected devices will get these changes, too.
- TODO: Add stuff about the Outlook Detect and Repair utility that is NOT via > have MS Outlook installation CD available > MS Outlook > Help > Detect and Repair > Start > wait for run > exit Outlook.
- □ Periodically, you might want to review section <u>"3.5 One-time: Harden your □ computer"</u> above, in case I added any new items. And continue ...

7.4 Quarterly: Harden your 🖵 computer

If **I** told you to do anything, please continue this section until the end...

If your \square computer has been **slow** or **dodgy** lately, please continue **until the end**...

IF you are a relative or close friend, and I clean your machine once a year, you can skip this section.

If I do **not** clean your machine once a year, some months, skip this section; other months, continue on...

- If a website fails to launch video or audio "Get ADOBE FLASH PLAYER" in web browser Chrome or Internet
 Explorer, try the site in browser Firefox, Edge, Safari, Opera, Vivaldi or Brave.
- □ Check Adobe Flash (previously Shockwave Flash) (used by some fancy graphics) via either (A) ⊞Win+I (or ⊞Start > [gear] Settings or System Settings) (formerly Control Panel) > Flash > tab Updates > button Check Now; or (B) <u>http://helpx.adobe.com/flash-player.html</u> > "Check Now"; (this might work better under Microsoft Edge or Internet Explorer than under Chrome):
 - o [TODO: look into:
 - https://www.hos.com/Flash-help-Windows.6.23.2017.pdf
 - https://www.hos.com/Flash-help-Chrome.6.23.2017.pdf
 - https://www.hos.com/Flash-help-Firefox.6.23.2017.pdf
 - https://www.hos.com/Flash-help-Safari.7.01.2017.pdf
 - https://www.hos.com/Flash-help-InternetExplorer.7.22.2017.pdf

o If during the install, you see a checkbox checked, consider unchecking it!

[•] If needed, **Update**.

- o launch it, and into its URL field, Paste "http://helpx.adobe.com/flash-player.html" > Enter >
 "Check Now" > etc., as described above.
- While doing this, keep in mind that <u>below</u> you will want:
 Adobe Flash Player 23.0.0207/Shockwave Flash 23.0 r0 Disabled.
- For your other web browsers (e.g., Firefox, Edge, Chrome, Safari, Opera, Internet Explorer, Vivaldi or Brave).
- Launch Adobe Reader, and ask it Help > "Check for Updates...".
 If during the install, you see a checkbox checked, consider unchecking it!
- Launch iTunes, and ask it to Help > "Check for Updates".
 If during the install, you see a checkbox checked, consider unchecking it!
- □ If low on storage space, Launch ⊞Win+I (or ⊞Start > [gear] Settings or System Settings) (formerly Control Panel) > Storage > turn on Storage sense or click Change how we free up space, including perhaps button Clean now.
- □ Delete cookies from all sites you don't recognize and like. TODO: including some of them (not all) (Chrome). And clear your browser's cache. And on your iOS ☐ iPhone or iPadOS ☐ iPad.
 - *If you have browser Chrome,* follow the few steps in <u>https://support.google.com/chrome/answer/2765944</u>
 > tab **Computer**.
- Remove QuickTime.
 - o ⊞ If running under Microsoft Windows, use ⊞Win+I (or ⊞Start > [gear] Settings or System Settings) (formerly Control Panel) > Apps > tab Apps and features [optional > Programs and Features] > QuickTime > press or right-click > Uninstall > Yes, you are sure > wait. When done, verify that QuickTime is no longer listed. At your next convenience, reboot (under Windows, ⊞Start > 1/0 Power > Restart or Shutdown).
- □ Scroll through **all your programs** (in ⊞ Microsoft Windows, listed in ⊞Start > All Programs), and for anything interesting, launch them and see if they need updating. After every two or three, **reboot** (under Windows, ⊞Start > 1/0 Power > Restart or Shutdown).
- □ Consistent with principles <u>at top</u>, **remove** any programs you **no longer need**.
 - o ⊞ If running under Microsoft Windows, use ⊞Win+I (or ⊞Start > [gear] Settings or System Settings) (formerly Control Panel) > Apps > tab Apps and features [optional > Programs and Features] > for each program you no longer need > press or right-click > Uninstall > Yes, you are sure > wait for it to finish. After every two or three apps, reboot (⊞Start > 1/0 Power > Restart or Shutdown).
- □ *If you use web browser* **Chrome**, periodically:
 - [Some of these ideas are from <u>Chrome cleanup tool</u> (discussion), but are improved below.]
 - $_{\odot}$ Launch Chrome > upper-right icon : kebab > Settings > left navigation Advanced > Reset and clean up
 - or **Reset Settings** > (or new tab chrome://settings/reset):
 - Clean up computer > button Find.
 - If you're asked to remove unwanted software, click **Remove**. You may be asked to reboot your computer.
 - If in trouble, consider **Restore settings to their original defaults** > button **Reset settings**.
 - Launch Chrome > upper-right icon : kebab > Settings > left navigation Extensions > (or new tab chrome:extensions) > for each Chrome App > Remove or turn Off, unless you totally recognize that Extension as being from a reliable vendor AND that you actually use that Extension.
 - o Launch Chrome > upper-right icon : kebab > Settings > left navigation Search Engine > (or new tab chrome://settings/search) > Manage search engines > for each search engine > : kebab Remove from List unless you know it is legitimate, or is one of:

Keyword	Query URL
duckduckgo.com	https://duckduckgo.com/?g=%s

bing.com	https://www.bing.com/search?q=%s&PC=U316&FORM=
ecosia.com	https://www.ecosia.org/search?q=%s&addon=opensearch
google.com	https://www.google.com/search/g=&s
google.com	<pre>{google:baseURL}search?q=%s&{google:RLZ}{google:originalQueryForSuggestion }{google:assistedQueryStats}{google:searchFieldtrialParameter}{google:iOSSearc hLanguage}{google:prefetchSource}{google:searchClient}{google:sourceId}{googl e:contextualSearchVersion}ie={inputEncoding}</pre>
yahoo.com	https://search.yahoo.com/search{google:pathWildcard}?ei={inputEncoding}&fr=cr mas&p=%slook

- Remove toolbars.
- Set home page to something reasonable.
- Go through settings ...
- ○ chrome:plugins
 - Uncheck all checkboxes Always allowed. I find I don't need any of them.
 - -Disable any plugins you don't use:
 - AdobeAAMDetect, Disable.
 - Adobe Reader, Disable. I use Chrome PDF Viewer instead...
 - Chrome PDF Viewer, Enable.
 - Chrome Remote Desktop Viewer, Disable.
 - Google Earth, your choice. I use it.
 - Google Update, Enable.
 - iTunes App Detector, Disable. Don't need it.
 - Microsoft Office, Disable.
 - yourAntivirusProvider Identity Safe, Enable.
 - yourAntivirusProvider Vulnerability Protection, Enable.
 - QuickTime, Disable. Then remove it.
 - Shockwave Flash 12.0 r0, it should not be here: update Flash <u>as above</u>, reboot, and if it is not gone, please call me.
 - Shockwave Flash 14.0 r0, update Flash as above.
 - Shockwave Flash 15.0 r0, update Flash <u>as above</u>.
 - Shockwave Flash 16.0 r0, update Flash <u>as above</u>.
 - Shockwave Flash 17.0 r0, update Flash <u>as above</u>.
 - Adobe Flash Player/Shockwave Flash 18.0 r0, update Flash <u>as above</u>.
 - Adobe Flash Player 23.0.0.207/Shockwave Flash 23.0 r0, Disable, unless you find this breaks one of your needed websites.
 - → I have to set mine to Enable, because FrogWatch requires it. Or I toggle it, keeping it Enabled only when I need it.
 - Silverlight, your choice. I Enable, as it is needed on one or two websites I visit regularly.
 - As of 2014-10-22, it seems that Chrome has disabled Silverlight. Run Silverlight pages in IE.
 - VLC Detector, Disable.
 - VLC Web Plugin, Disable.
 - Widevine Content Decryption Module, Enable. I looked it up once. I forgot why it is OK.
 - Windows Activation Technologies, Disable.
 - Windows Live Photo Gallery, Disable.
 - WPI Detector, Disable.
- o chrome:settings/content
- o chrome:settings/passwords
- o chrome:about
- □ **H** *If you use web browser* **Internet Explorer**, periodically look through **Tools** > **Manage add-ons**:
 - In tab **Toolbars and Extensions**, **Disable** each entry other than *yourAntivirusProvider* Identity Protection and *yourAntivirusProvider* Vulnerability Protection.
 - $_{\odot}$ Other tabs, look at them and set as you wish.
 - $\ensuremath{\circ}$ Then stop using this obsolete vulnerable browser.
- □ For your other web browser (e.g., Firefox, Edge, Safari, Opera, Internet Explorer, Vivaldi or Brave).

□ I think the Java programming language and runtime are great. But old versions, including 1.6, have big security holes.

If your employer has **not** made you install a special Java app, and you are **not** a **</>** computer programmer working in Java, you **do not need Java**, and **should remove it**.

- See what Java you have, via <u>www.java.com/verify</u> (if your primary web browser **Chrome** or **Edge** won't run this, Paste into **Firefox, Safari, Opera, Vivaldi** or **Brave**), or set [gear] <u>Settings</u> (formerly <u>Control</u> Panel) > Java > tab <u>Security</u> > check <u>Enable</u> Java content in the browser > Apply > "Agree and <u>Continue</u>" > and maybe "Run".
 - If you do **not** have Java, great! Go to next paragraph.
 - If you have Java but don't need it, **Uninstall** it.
 - If you have Java and it is out of date, **Update** it.
 - If during the Install/Update, you see a **checkbox** checked, **uncheck** it!
 - Afterword, set <code>HWin+I</code> (or <code>HStart > [gear]</code> Settings or System Settings) (formerly Control Panel) > Java > tab Update > check Check for Updates Automatically > button Advanced... > set Weekly or Monthly > OK > Apply; and tab Update > check Suppress sponsor offers when installing or updating Java > Apply > OK.
- Check for old Java via <u>www.java.com/en/download/uninstallapplet.jsp</u> (if your primary web browser Chrome or Edge won't run this, Paste into Firefox, Safari, Opera, Vivaldi or Brave), or set [gear] Settings (formerly Control Panel) > Java > tab Security > check Enable Java content in the browser > Apply > "I Agree to the Terms and Want to Continue" > and maybe "Run".
 - If this finds any out-of-date versions, **remove** them. If this then breaks any apps your employer made you install, bug your employer to update that app!
 - Helps at <u>www.java.com/en/download/faq/remove_olderversions.xml</u>.
- o You can now probably turn off what you set above, via \[\]Win+I (or \[]Start > [gear] Settings or System Settings) (formerly Control Panel) > Java > tab Security > uncheck Enable Java content in the browser > Apply. If this then breaks any apps your employer made you install, please set this back.
- [Expert] Only if necessary, uninstall Java via instructions at www.java.com/en/download/help/uninstall_java.xml.
- □ ⊞⊒ If your Microsoft Windows computer or web browser runs **slower** than it used to, **or** if you have **any reason** to suspect malware:
 - Run a **full-scan** on your existing antimalware/antivirus program, until clean.
 - [One-off] If you don't use <u>Malwarebytes</u> antimalware, install the free version, boot to Safe Mode, and run it until clean.
 - o [One-off] Install Microsoft Security Scanner, and run it until clean.
 - [One-off] Instead of the above, you could experiment with <u>(if don't have Norton Security software at this time)</u> Norton > Security > Run Scans > <u>Norton Power Eraser</u> utility, and the <u>Norton Bootable Recovery</u> <u>Tool</u>. I have not used these.
- □ ⊞⊒ If your Microsoft Windows computer runs **slower** than it used to, whack or delay unnecessary programs that **start themselves automatically**, using:
 - [Easy] If you have **Norton Security software** (free with Comcast) > **Tuneup** > **Startup Manager**; or
 - [Easy] If running Microsoft Windows 10 or 11, Task Manager tab Startup (works, easier than below); or
 [Moderate] If running Microsoft Windows 7, msconfig tab Startup (works fine, easier than below;
 - *Windows 10 and 11* have a nice link to where they moved it: **Task Manager** tab **Startup**); or • [Moderate] services.msc; or
 - [Don't remember] Winternals Autoruns; or

- [Moderate] find all your **Startup** folders, and move bad entries to new sister folder **StartupNOT**, and
- o [Expert] Registry entries HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion
 \Run and HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Run (delete the
 bad entries) (works great).
- □ ⊞□ If your Microsoft Windows computer runs **slower** than it used to, run <u>CCleaner</u> Free [except in 2021, is identified by Microsoft Defender Antivirus as a PUP Potentially-Unwanted Program, and may recently be crapware] > tab Cleaner > unselect all "Windows Explorer" checkboxes except Thumbnail Cache > Run Cleaner; or

Windows **Disk Cleanup** via **This PC** (formerly **My Computer**, and still called that *under-the-covers*) > C:\ > right ribbon tab **Manage** > **Cleanup**.

- While that runs, you can continue doing ordinary tasks, e.g., send
 sender email, webpages, and stream videos.
- $_{\odot}$ When ready, change its selections if you wish, and click $_{OK}$, and let it run.
- If your system drive freespace is less than 15% of the total space, move, compress or delete unneeded files. <u>CCleaner</u> Free [except in 2021, is identified by Microsoft Defender Antivirus as a PUP Potentially-Unwanted Program, and may recently be crapware] > tab Tools > Duplicate Finder seems to be adequate at cleaning up from projects that you completed quickly, but left files splattered all over. It does this by finding, showing, and optionally deleting these files. But I like <u>Auslogics duplicate file finder</u> a little better. But to keep out bloatware, during the install:
 - select radio button "Custom install (advanced)", and
 - uncheck every checkbox.

TODO: Reorder nearby tuning tasks, and add <u>Microsoft system-tuning app **PC Manager** for Windows 10 and 11</u>. **TODO:** Add Windows app PC Health Check.

□ **♦**□ Under macOS, select Apple Logo > About This Mac > Storage.

□ ⊞⊒ If your Microsoft Windows computer runs **slower** than it used to, **optimize** your harddrive

- IF you don't know the answer to the next question, check via ⊞Start > type "optimize" > when you see app Defragment and Optimize Drives, select or [Enter] > on the row for your system drive, look at column Media type.
 - If column Media type says "Solid state drive" (SSD), Optimize will do a TRIM where space from previously-deleted files is returned to the list of freespace.
 - If you wish, Optimize your drive via button **Optimize** here, or
 - If column Media type says "Hard disk drive" (HDD), Optimize will do a defrag.
 If you wish, Optimize your drive via button Optimize here, or This PC (formerly My Computer) >
 - your Windows system drive, usually C:\ > right ribbon tab Manage > Optimize > Optimize (previously Defragment Now . . .).
 - If Windows **Optimize Drives** (previously **Disk Defragmenter**) came up, run it on each of your harddrives.
 - Don't run it on your SSD nor flash-drive/jumpdrive/thumbdrive/USB-attached SSD/USB-drive/USB-key/USB-sticks (it wears out the Flash memory).
 - While that runs, you can continue doing **lightweight tasks**, e.g., browse some webpages or stream videos. I suggest not using MS Outlook or other database-intensive apps while that runs.
 - If you get a Warning box Disk Defragmenter was scheduled using another program, click Cancel, and run using Norton or whatever software took over scheduling.
 - If you think Norton is too risk-averse at running Defrag (it is), get <u>Auslogics Disk Defrag Free</u>. If you want a defrag now, it does that works great. I like and trust their free utilities (I have not yet felt the need to use their paid utilities, although they keep asking). But to keep out bloatware, during the install:

select radio button "Custom install (advanced)", and
 uncheck every checkbox.

□ 田□ IF your Microsoft Windows computer runs **slower** than it used to:

- o IF you don't know the answer to the next question, check via ⊞Start > type "optimize" > when you see app Defragment and Optimize Drives, select or [Enter] > on the row for your system drive, look at column Media type.
- IF your computer has a solid-state drive (SSD):
 - See Tom's Hardware "How to check SSD health in Windows 10 and 11".

- ELSE your computer has a real spinning magnetic hard disk drive (HDD):
 - IF you don't need your computer for several hours (overnight or longer?), check for dodgy harddrive disk sectors (SSD?) and fix them by running:
 - •
 ⊞Win+X (or right-click of
 Bstart icon) > Windows PowerShell (Admin) or Command Prompt
 (Admin) > type "chkdsk /F /R /X /B c:" (no quotes) [Enter] > type "Y".
 (TODO: try running it
 without the /parameters. Allegedly, it tells you how many bad sectors you have. Then you can fix it
 with the full suite of parameters.)
 -OR
 - Estart > File Explorer/This PC > [formerly Windows Explorer/My Computer] > C: > right-click Properties > tab Tools > area Error checking "This option will check the drive for file system errors" > button Check [Now...] > if you see checkboxes, check both > Scan Drive [or Estart > Schedule disk check].
 - Finish what you are doing, and only when your computer is plugged in and you don't need it for several hours (overnight or longer?), Reboot (⊞start > 1/0 Power > Restart) and let her run!
 - To see the results, **TODO:** write this. Apparently, redirect operators > or >> are not enough.

□ *If you are going to ask me for support*, please <u>run</u> and have ready for me:

- o "msinfo32" > Export > somewhereGood\myComputer_MSINF032.txt > Save,
- o navigate somewhereGood, "ipconfig /all > myComputer_IPCONFIG.txt" [Enter],
- o "diskpart", "list volume", "exit", and save the results in one of the files above, and
- **Powershell** "(Get-WmiObject -query 'select * from SoftwareLicensingService').OA3xOriginalProductKey" and save the results in one of the files above.
- A copy of <u>file:///%windir%\Logs\CBS.log</u>.
- $_{\odot}$ Then when we get together, we will ...

□ <u>Run</u> the various tools (free on Windows) in "msconfig" [Enter] tab Tools, including mmc.

- □ Run the Windows System File Checker, via ⊞Win+X (or right-click of ⊞Start icon) > Windows

 - a while a half-hour or so.
- <u>This article says you may have to run it 3 times</u>. In between, reboot, until it runs clean (fixes no errors).
 And:
 - o "dism /Online /Cleanup-Image /CheckHealth",
 - o "dism /Online /Cleanup-Image /ScanHealth",
 - o "dism /Online /Cleanup-Image /RestoreHealth",
 - \circ reboot, and
 - o run "sfc /scannow" a fourth time.
- Can seek guidance in <u>https://TomsGuide.com/computing/windows-operating-systems/how-to-repair-a-windows-11-using-dism-command-tool</u>.
 TODO: Compare this against what I have above and below.
- □ *If all this didn't correct everything*, look for guidance on commands **chkdsk**, **sfc** and **dism** at <u>https://duckduckgo.com/?q=chkdsk+sfc+dism</u> or <u>https://google.com/search?q=chkdsk+sfc+dism</u>.
- □ Then have your local techie look at the output of your commands and their logs <u>file:///%windir%\Logs\CBS**CBS.log**</u> and <u>file:///%windir%\Logs\DISM**dism.log**</u>.
- □ Determine that you have your **computer** manufacturer's *Support Assistant (if under Windows,* **HStart** > scroll down list of programs), or install it now.
 - For example:
 - <u>HP Support Assistant</u>, and
 - <u>HP PC Hardware Diagnostics</u>.
 - Run relevant of its/their:
 - Updates to any software or firmware,
 - Operating System checks (if any Fail, keep logs),
 - System tests (if any Fail, keep logs),
 - Hardware tests (if any Fail, keep logs),
 - Diagnostic tests (if any Fail, keep logs), and
 - Optimizations.
- □ Determine that you have your computer **chip** manufacture's *Support Assistant (if under Windows,* **HStart** > scroll down list of programs), or install it now.

- For example:
 - Intel® Driver & Support Assistant DSA.
 - <u>AMD</u> Catalyst Control Center.
- Run relevant of its:
 - Updates to any software or firmware,
 - System tests (if any Fail, keep logs), and
 - Diagnostic tests (if any Fail, keep logs).
- □ <u>Remove the Fluff From Windows 10 With Windows Decrapifier & Debloater</u>.
- □ If you have MS Outlook, repair your MS Outlook .pst files using command scanpst.
- □ For **each** of your web browsers, consider:
 - Test your browser against tracking.
 - Secure access to your location.
 - To help ProPublica track displays of political ads, download their browser extension/add-on <u>Facebook</u> <u>Political Ad Collector</u> (scroll down to Download box).
 - To protect you against eavesdropping, tampering with or forging content in some websites you visit, install plug-in <u>HTTPS Everywhere</u> from the <u>EFF</u>. I have used it for years, trouble-free for me.
 - o Install plug-in Privacy Badger also from the EFF (good, but I have to tell it to exclude some websites), or
 - Install plug-in <u>www.ghostery.com</u> > set to block web tracking types <u>Advertising</u>, <u>Analytics</u>, <u>Beacons</u>, <u>Privacy</u> and <u>Widgets</u>. A cousin recommended this. I love it, too. I currently block everything, <u>except for one Analytics that I use occasionally</u>. So far, so good.
 - o Block ads on YouTube.
 - To have your web browser forget your browsing history, cookies, cached files, and passwords at the end of each session, whenever accessing important sites (bank, ➡ email, Facebook, etc.), get used to launching your web browser in mode privacy/Incognito/InPrivate.
 - o Then once a month or so, <u>delete your browser's cookies</u> and <u>clear your browser's cache</u>, and <u>on your iOS □</u>
 <u>iPhone</u> or iPadOS □ iPad.
 - If you have browser Chrome, follow the few steps in <u>https://support.google.com/chrome/answer/2765944</u>
 > tab Computer.

7.5 Quarterly: Harden your web presence

- □ Remove from social media anything about drinking, drug use, other embarrassing information, kids' names, current location, vacation plans, home location, and full birthdate.
- □ Review the **Privacy Settings** in your rew email provider, <u>Facebook</u>, and web browsers. They occasionally change them.
- □ *If you have a Google account* (you might, even though you have no Gmail account), follow <u>Google's Privacy</u> <u>Checkup</u> and <u>Security Checkup</u>.
- □ After Facebook disclosure of 2019-03-21, <u>change your Facebook and Instagram passwords</u>. And those from all apps from Meta Platforms, Inc.
- Check if you have any accounts compromised in announced data breaches, at <u>Have I Been Pwned?</u> (HIBP) (built by an Aussie </> computer geek) > <u>your@email.address</u> and <u>usernames</u> > pwned?. And take appropriate action:
 - To get notified when future pwnage occurs and your account is compromised, <u>Have I Been Pwned?</u> > nav Notify me > your@email.address.
 - If you have custom email addresses in form you@yourDomain, you can get notified of pwnage of any of them via <u>Have I Been Pwned?</u> > nav Domain search > yourDomain > etc.
 - If you are considering a new password, <u>Have I Been Pwned?</u> > nav **Password** > yourPassword > **pwned?**.
 - Helps on correcting your credit Reports.

□ Follow Kim Komando's "*Google yourself to protect your reputation — online and off*".

7.6 Quarterly: Correct your = credit reports

□ Read and act on <u>my article on <u></u>⊂ Credit Reports</u>.

7.7 Quarterly: Harden your Wi-Fi router, cable modem, and doorbell camera

□ See if your **Wi-Fi router** needs a **firmware update or configuration change**:

- Netgear > www.routerlogin.net or http://192.168.1.1 > "admin" "whateverYouChangedItToAbove" > tab Advanced > left navigation bar Administration > Firmware Update > Check. If there is an Update, you might want your local geek to put it on (me, if I am at your house anyway). idea 2
- Others > your router's administrative URL you found above > your router's administrative username and password you found above > bop through the admin pages until you find how to get a firmware update. If there is an Update, you might want your local geek to put it on (me, if I am at your house anyway). idea 2
- □ Follow <u>http://cnet.com/how-to/tips-to-stay-safe-on-public-wi-fi</u>.
- □ Or <u>http://komando.com/tips/370327/your-router-needs-this-one-thing-manufacturers-dont-tell-you/all</u>.
- Ensure your Wi-Fi firewall is on, and set correctly. Mine from Comcast Xfinity is set to Typical Security (Medium). TODO: Read more about this at <u>https://www.lifewire.com/how-to-enable-your-wireless-routers-</u> built-in-firewall-2487668 and https://www.lifewire.com/how-to-test-your-firewall-2487969.
- If you have Comcast and they provide a Wi-Fi network *xfinitywifi*:
 TODO: Write this. A start: review your use of its SSID.
 - \circ I use it, but sparingly, and only at remote locations (way down the list).
- See if your cable modem needs a firmware update or configuration change:
 TODO: Write this.
- See if your doorbell camera, nannycam, or Tile or Apple AirTag tracker device, needs a firmware update or configuration change:
 - **TODO:** Write this, including stalkerware.
- □ If your networking is slow:
 - Use a <u>Wi-Fi Analyzer</u> (I love and use <u>this one</u>), to find a better channel number, and tell your router to use that. <u>https://duckduckgo.com/?q=my+router+change+channel</u>.
 - <u>Change your computer's DNS Servers</u>. **TODO:** Look into **OpenDNS**.
- □ You might want to review section <u>"3.7 One-time: Harden your Wi-Fi router, cable modem, and nannycam</u>" <u>above</u>, in case I added any new items.
- □ [Expert] Study the latest Microsoft Security Intelligence Report and Krebs on Security blog.

7.8 Semiannually: Harden your 🛛 🔂 phone life

Update your info at <u>Smart911</u>.

□ If you get junk **robocalls** on your **☎ landline**:

- **NEW** You can look up individual phone numbers at <u>https://lookup.robokiller.com</u>.
- NEW If your cordless phone system (my Panasonic does) has a call-blocking feature: during the call (or later looking at CallerID (CID) > navigate down and right to where you are looking at the phone number) > press button Call Block > follow the prompts.
- Set up call-blocking call-blocker app <u>Nomorobo</u> (awesome!), free on most VoIP landlines (a landline provided digitally perhaps from your cable TV provider).
- Or, I hear, apps <u>RoboKiller</u> or <u>Truecaller</u>.
- Other options
- If you get junk robocalls on your smartphone:
 - **NEW** You can look up individual phone numbers at <u>https://lookup.robokiller.com</u>.
 - $_{\odot}$ Block all suspected spam calls, or send them directly to voicemail:

- If through Republic Wireless, see <u>How to Block Robocalls/Spam Calls & Voicemails Using the Republic</u> <u>Wireless App</u>.
- If through any other mobile company, look into call-blocking call-blocker app <u>Hiya</u> or <u>others</u>, or pay for <u>Nomorobo</u>. Or perhaps, apps <u>RoboKiller</u> or <u>Truecaller</u>, or <u>other choices</u>.
- If using an Android, version 7.0 Nougat or above (likely if your phone is from 2016 or later), block individual numbers via How to Block Calls/Numbers on Phones with Android Nougat 7.0 or Higher.

□ Sign up for, or update, <u>Smart911</u>.

-End.- send comments to the author