

Staying Safe Online

Montpelier Senior Center

Week #1 – Mon 5 Jan 2026


Protecting Against Fraud (Part 1)

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<https://tinyurl.com/3b6p3h8s>

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Topics

- **Spam**
 - ❑ **Unsolicited email**
- **Phishing**
 - ❑ **Tricking victims into revealing info or downloading malware**
- **Trojans**
 - ❑ **Malware downloads**
- **Advance-fee fraud**
- **Refund scams**
- **Blackmail**

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What is Spam?



- Unsolicited email
 - ❑ Recipient never asked for or permitted emails from the sender
 - ❑ Estimated volume:
 - ✓ 160 billion spam emails per DAY worldwide
 - ✓ ~46% of world total of 347 billion emails/day
- Fraud rampant in spam
 - ❑ ~600 million victims worldwide/year
 - ❑ Losses ~\$1 trillion worldwide/year
- Dangers
 - ❑ Cluttering inbox – can lose track of legitimate email
 - ❑ Naïve recipients click on links – harmful materials
 - ❑ False identification tricks victims into thinking they are responding to legitimate services (government, technical support, software licenses....)

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Origins of the Term “spam”



- Monty Python 1970 – The Spam Sketch

<https://tinyurl.com/4r55f7ry>



[Hormel Corporation politely requests that their food-like product be referred to as “SPAM.”]

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The US CAN-SPAM Act

- CAN-SPAM Act of 2003 [15 U.S.C. § 7704(a)]
- Accurate header showing origin of email
- Non-deceptive subject line
- Clear indication of advertisement or fund-raising
- Working return e-mail address
- Easy opt-out link to work within 10 days
- No further spam after opt-out
- Valid physical postal address for sender
- Penalties can include
 - ❑ Fines up to \$250 per email
 - ❑ Penalties up to U\$2 million
 - ❑ Possible imprisonment
- May report abuse to Federal Trade Commission
 - ❑ <https://reportfraud.ftc.gov/>

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Phishing (1)

- Goal: obtain personal information for further fraud
- Methods
 - ❑ Fake websites (imitating real ones)
 - ❑ Tricking victims into revealing secret info
 - ✓ User ID (e.g., email, banks, gov't sites)
 - ✓ Passwords
 - ✓ Social-Security ID
 - ✓ Bank info
- KEY POINT: ALWAYS HOVER POINTER OVER A LINK TO SEE WHERE IT IS GOING! If link for your bank goes to a Russian (.ru) site, IT ISN'T REAL!!!
- Up-to-date established antimalware products; e.g., (not an exclusive list)
 - ❑ BitDefender
 - ❑ Norton AntiVirus
 - ❑ Windows Defender
 - ❑ McAfee Antivirus

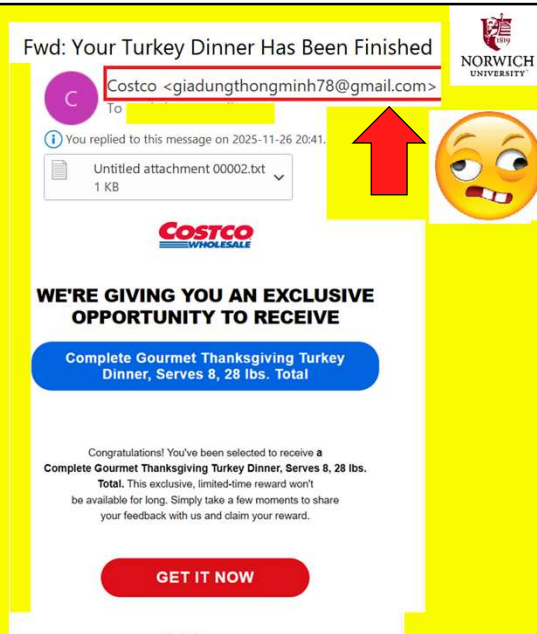
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Phishing (2)

- Check the origination address of ALL emails, especially those claiming to be from a company.
- DO NOT OPEN ATTACHMENTS
- The real example here is from an idiot who used GMAIL!! LOL!



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Advance-fee Fraud

- AKA "Nigerian 419 Scam"
- Criminals announce huge payment (often \$millions)
 - ❑ "Government payment"
 - ❑ "Legal payment from class-action lawsuit"
 - ❑ Nonexistent "lottery winning" (without participation!)
 - ❑ "Donation from a dying millionaire" (often a "widow")
- Victims supply detailed info
 - ❑ Name, address, phone number, bank account (!)
- Criminals request payment (e.g., \$150) through a commercial cash card
 - ❑ Walgreens
 - ❑ Staples
 - ❑ Amazon
 - ❑ Etc.
- Steal the money

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Refund Scams



- Emails or phone calls about non-existent payments
 - ❑ Caller or email pretend to be from a company
 - ❑ Often send millions of messages
 - ✓ May have nothing to do with potential victims' actual software or purchases
- E.g., Email or phone message
 - ❑ "You have been billed \$429 for one year of your McAfee antivirus" (which the victim does not use)
 - ❑ "If this information is wrong, phone XXX-XXX-XXXX"
- Criminal apologizes & asks to access bank account
 - ❑ Victim (e.g., my 90-year-old aunt) agrees to let criminal install remote-access software to "see bank account"
 - ❑ Steals details of banking account & logon & password
- Pretends to refund 10x fake amount & whines about it
- Victim authorizes wire transfer for non-existent payment
- *I stopped the theft of \$30,000 from aunt's account!*

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Threats of Prosecution



- "FBI" or "State Police" or "IRS"
 - ❑ Email with phone number to call
 - ❑ Phone call with threats from "official"
 - ❑ Text message with link or phone # to call
- "You are being charged with XYZ crime"
 - ❑ "Must pay \$ (often thousands) to avoid prosecution"
- That's not how law-enforcement works!
 - ❑ LEO do not warn suspects of arrest!
 - ❑ Justice system does not ask for money to avoid trials!
- Block the emails and block phone calls from #
- Swear at the phone callers & hang up

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Blackmail



- Typical script by email or phone:
 - ❑ “I’ve been watching you for a month using a virus I installed on your computer.”
 - ❑ “I have recorded you doing {bad things list}”
 - ❑ “Unless you pay me {large amount of money} I will post the videos online and arrange {bad consequences}”
- Typically threats involve something sexual
- But what kind of idiot pays a criminal NOT to do something?
- What could possibly stop an endless series of demands??

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Unwanted Phone Calls



- Our phone #s can be widely distributed
- US established DO NOT CALL (DNC) LIST
 - ❑ Irresponsible companies and criminals have been collecting those DNC #s for spam calls
- Install inexpensive call-blocking software; e.g.,
 - ❑ Android: Should I Answer?
 - ❑ Apple iOS: Robokillerheaders
- These products share info from users
 - ❑ Can update manually or automatically
 - ❑ Work well!

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Advice Summary



- Install established anti-malware products on computers and phones
- Never click on an unfamiliar link on Web or in Email without seeing where it is *actually* going online
- Don't respond to unexpected emails or phone calls
 - ❑ Look up the *real* contact info yourself
- Never let a caller install software to control your system
- Never agree to let anyone "deposit money" to your bank account
- Never agree to pay money for a gift or prize
- Never respond to email, text or phone threats
- Never respond to online claims that a government agency is going to fine you or send you to jail
- Never respond to supposed blackmail threats

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OK, STAY SAFE!



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