



Staying Safe Online

Montpelier Senior Center

Week #5

Using Email Safely & Well

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

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Topics

- Delivery Not Guaranteed
- First E-impressions
- Discretion in Email Criticism
- HTML-formatted Email Doesn't Work Reliably
- To/Cc + Reply All = Trouble
- Mailstorms
- Bcc Prevents Email Nuisances
- Burying Your Email Message
- Misleading Subject Fields
- Forwarding Confidential Info
- Email Carrying Malware
- Check Every Link Before Clicking
- The Keeper Of The Lists



This lecture
includes
material that
applies to work
emails as well as
info about
personal emails.

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DELIVERY NOT GUARANTEED (1)

- IETF* definition of email** does not include guaranteed *delivery*
- DEFINITELY does not guarantee *reading!*
- Do NOT assume delivery or reading
- Use *Request a Delivery/Read Receipt* when necessary
- CALL YOUR CORRESPONDENT for urgent messages

* Internet Engineering Task Force <<https://tools.ietf.org/>>

** White, J. (1973). "A Proposed Mail Protocol." IETF RFC 524. <<https://tools.ietf.org/html/rfc524>>

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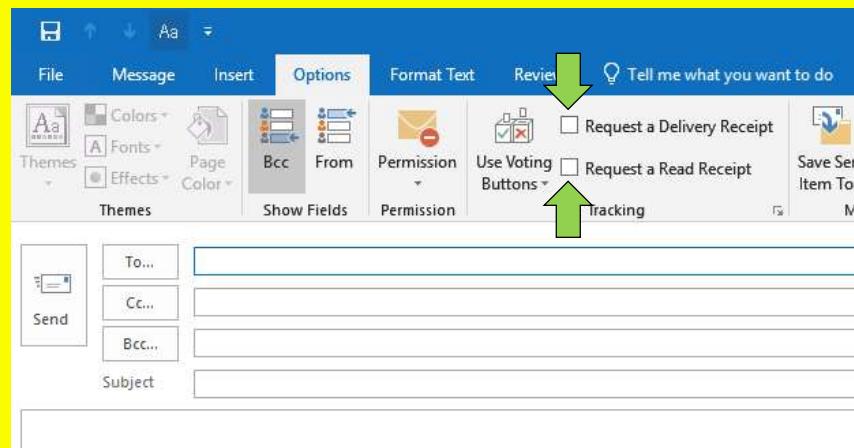
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DELIVERY NOT GUARANTEED (2)

- OUTLOOK and other mail programs can help sender be informed of delivery and reading



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FIRST E-IMPRESSIONS

- Context matters
 - Friends do *not* communicate the same way as colleagues
- Research indicates email 1st impressions matter more than in phone calls*
 - Spelling/grammar mistakes
 - Offensive language
 - Off-color humor

*Winerman, L. (2006). "E-mails and egos." *Monitor on Psychology* 37(2):16. American Psychological Association.
< <https://www.apa.org/monitor/feb06/egos.aspx> >

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DISCRETION IN EMAIL CRITICISM



- Sources of disagreement
 - Fundamental assumptions
 - Vocabulary
 - Unspoken goals & values
 - Implicit reasoning
 - Missing information
 - Mistakes
- Avoid verbal hostility
 - Ad hominem remarks
 - Aggressive content
- TALK to the person if email gets rude!

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HTML-FORMATTED EMAIL DOESN'T WORK RELIABLY

- HTML email not guaranteed to look like what sender sent
 - Recipient's system may have **RADICALLY different font assignments**
 - Sizes **may differ** from original
 - Some characters altered (e.g., ' becomes ?)
 - Worst case: sending posters as HTML!
- If appearance *must* match, use
 - Acrobat PDF (include fonts)
 - Image (JPG, PNG....)

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TO/CC + REPLY ALL = TROUBLE

- TO: people who should reply
- CC: people who should be able to reply
- BCC: everyone else
- Trouble from REPLY ALL w/ visible distribution lists
 - Violate privacy
 - Cause mailstorms (see next slide)
- REPLY ALL restrictions
 - Don't REPLY ALL unless appropriate
 - THINK before using REPLY ALL

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MAILSTORMS



- Dec 2018: Utah state worker sends invitation to 25,000 recipients in TO: field for pot-luck dinner*
 - Some REPLY ALL with dietary preferences & “OK GREAT!” messages
 - Many send REPLY ALL asking to be removed from list
 - Others REPLY ALL to tell everyone to stop using REPLY ALL
 - Potentially crash mail servers
- DO NOT PUT LARGE DISTRIBUTION LISTS IN TO: OR CC: – USE THE BCC FIELD

* Dumais, E. (2018). “Office Potluck Email Mistakenly Sent to 25,000 Employees, Reply-All Chaos Ensues.” Thrillist <<https://www.thrillist.com/news/nation/utah-state-office-potluck-email-reply-all>>

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BCC PREVENTS EMAIL NUISANCES



- Listing extensive contacts in TO: or CC: may betray confidential information
 - People may copy list to spam recipients
 - May betray operationally sensitive info
- Worse if email goes to outside addresses
 - May reveal organizational addresses that are supposed to be internal-only
 - E.g., specific participants on confidential projects

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BURYING YOUR EMAIL MESSAGE

- Errors that can delay having your message read
 - Using a non-descriptive subject line
 - Mixing critical information with non-critical info (especially if non-critical comes first)
- Always have clear, informative subject
- Put one critical topic per email
 - Use additional messages for additional topics
 - Avoid misleading subject fields
 - See next slide

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MISLEADING SUBJECT FIELDS

- REPLY automatically copies subject line & puts RE: in front
- But some users think REPLY is shortcut instead of NEW EMAIL
- Fail to correct subject line can cause trouble
 - Confusion
 - Message ignored or reading delayed
 - Irritation for all concerned
 - Topic: "Excellent supper yesterday" but email actually discusses daughter's cancer
- Use NEW EMAIL, not REPLY when *composing email on a new topic*

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FORWARDING CONFIDENTIAL INFO

- Some information **must** be protected against public release by US laws:
 - FERPA: student information
 - HIPAA: medical information
 - GLB/SoX: information that can influence stock prices
 - Military applications
- Be cautious about distributing copies of email containing what the sender wants to be private
 - Relative's hostility to another relative
 - Sender's questionable activities (e.g., immigration issues)

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EMAIL CARRYING MALWARE

- Malware can generate email using fake origination addresses
- Some **phishing** email carries infected attachments (HTML, PDF, DOC[X]...)
- Many phishing emails have links that don't match appearance
 - Link has 2 components
 - ✓ Appearance – can look like good link
 - ✓ Actual hyperlink – can be for criminals' Website
 - **ALWAYS** look at lower left corner of email window or in popup to see **real** link (see next slide)

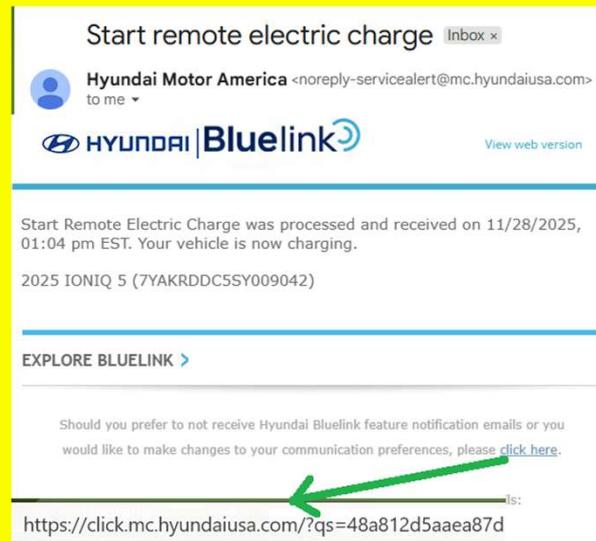
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CHECK EVERY LINK BEFORE CLICKING IT



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THE KEEPER OF THE LISTS

- Anyone can copy a visible (TO:, CC:) list
- But copies can become *outdated*
- Best to use an official *Keeper of the Lists*
 - Typically administrative assistant / secretary
 - Maintains email-distribution lists to specific groups; e.g., department, school; students, staff, faculty; committees, clubs; donors, volunteers....
- Messages for everyone in a specific group
 - Sent to *Keeper of the Lists*
 - Guarantees up-to-date distribution
 - Also checks topic lines, used BCC, etc.

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OK, STAY SAFE!



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