

EMAIL
format.



Email Accessibility (A11y)



Why Accessibility for Emails?

- **Email Accessibility** is the creation of email content that is accessible, usable, and readable for all people including readers with disabilities.
- Removing barriers to reach the largest audience.
- Accessible emails can benefit everyone.



Email Platform vs. Email Client

Platform

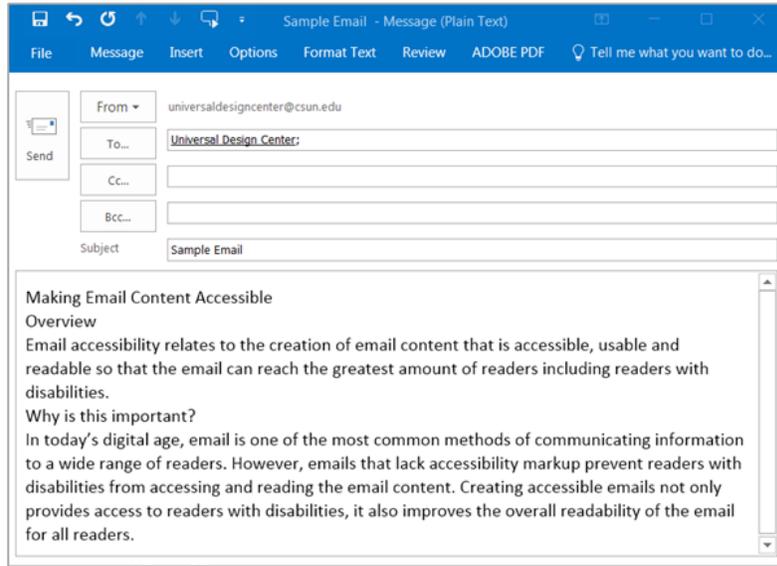
- Emma (Broadcast Email)
- Exchange + Outlook
- MailChimp, etc.

Client

- Mobile apps
- Web browser
- Desktop

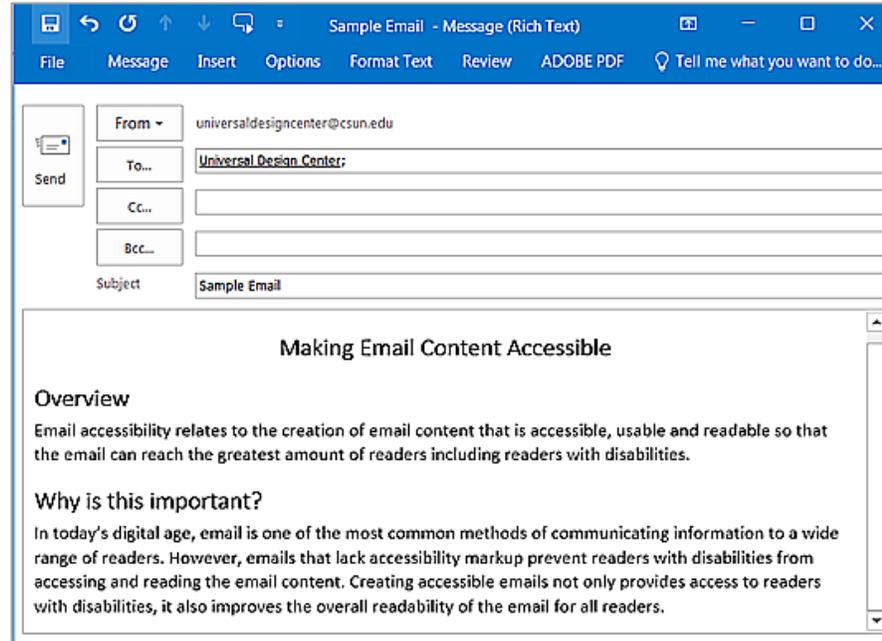


Email Formats



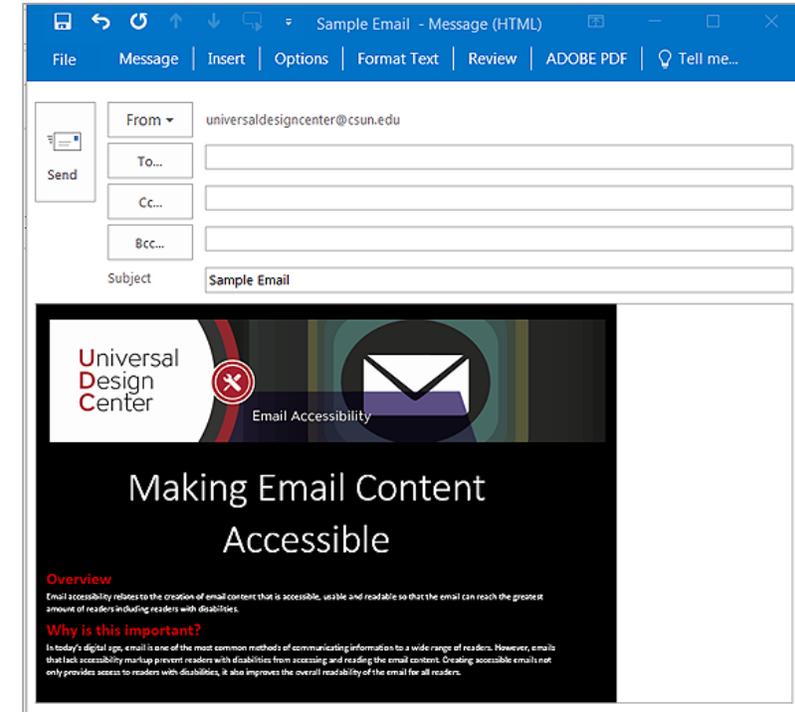
Plain Text Format

- No structure but widely compatible



Rich Text Format

- Outlook
- Follow Word best practices



HTML Format

- Follow web best practices

Creating Accessible Emails



Accessibility Tips

- Attachments
 - Flyers
 - Other
- Images
 - Descriptions: alt text
- Text Readability
- Heading Styles
- Bulleted and Numbered Lists
- Descriptive Links
- White Space



📣 Diversity & Inclusion week kicks off TODAY! 😊 ↶ ↷ ↸

AS ○ Associated Students... Monday, March 27, 2023 at 9:06 AM
To: ✔️ Tipton, Kathryn

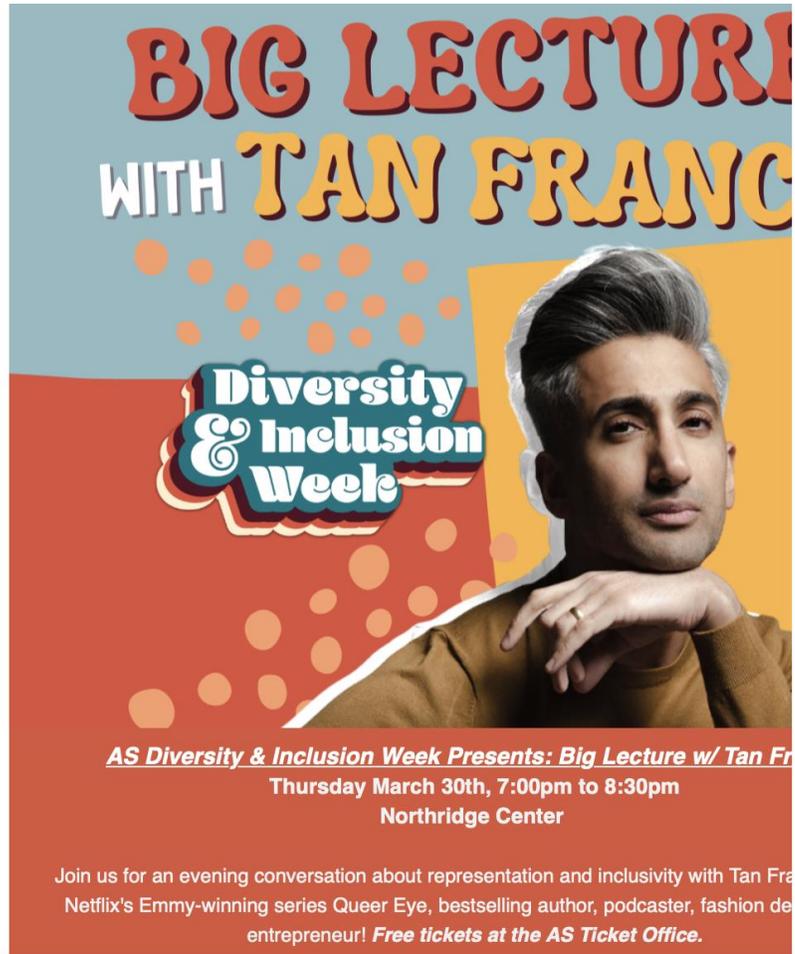


Image Flyers

- Image files (gif, jpg, png) are not accessible
- Images are fine to use and share as long as the content is presented in an accessible format too



Avoid Image-Only Emails

Creating email to send only an image of the event poster/flyer.

Two major drawbacks:

1. Text within an image will not be accessible to readers who have visual impairments and rely on **screen readers** or **braille writers**.
2. Readers or the email client may be **blocking images**.

Best practice

Provide all of the information contained in the image as text in the email (plus alt text for the image).



Text-based equivalent

Food Drive For The Homeless - Message (HTML)

File Message Insert Options **Format Text** Review Grammarly ADOBE PDF Format Tell me what you want to do...

Aa HTML Calibri (Body) 11

Plain Text Rich Text

From van.nguyen@csun.edu

To...

Cc...

Subject Food Drive For The Homeless



LOS ANGELES, CA 91234 ANY DAY!

We're open daily from 9 am to 5 pm.
If you have questions, just call 123-456-7891 or email@donate.org
www.worldvision.org/donate

Food Drive For The Homeless

It's never a bad time to help those who are in need.

Drop by at
12345 Angels City,
Los Angeles, CA 91234

We're open daily from 9am to 5pm.
If you have questions, just call 123-456-7891 or email@donate.org
Visit World Vision Donation

Format Picture

Text Box

Alt Text

Title

Description

Food Drive For The Homeless event flyer

Summit for gay Latino male collegians - Message (HTML)

File Message Insert Options **Format Text** Review Grammarly Adobe PDF Format Tell me what you want to do...

Aa HTML Calibri 11

Plain Text Rich Text

From van.nguyen@csun.edu

To...

Cc...

Subject Summit for gay Latino male collegians



Summit for gay Latino male collegians

USC Race and Equity Center

SUMMIT FOR GAY LATINO MALE COLLEGIANS

SATURDAY, FEBRUARY 17, 2018
10AM TO 4PM
USC UNIVERSITY PARK CAMPUS,
FERTITTA HALL 125 LL
LOS ANGELES, CA

Saturday, February 17, 2018
10AM to 4PM
USC University Park Campus,
Fertitta Hall 125 LL
Los Angeles, CA

Format Picture

Text Box

Alt Text

Title

Description

Summit for gay Latino male collegians event flyer

PDF Flyers

- Unlike images, PDF files *can be* accessible
- PDF flyers/attachments to emails *must be* accessible
- Text equivalent to the PDF is **not** an acceptable alternative

Accessibility Checker

Document (5 issues)

- ✓ Accessibility permission flag -
- ✓ Image-only PDF - Passed
- ✗ Tagged PDF - Failed
- ? Logical Reading Order - Need
- ✗ Primary language - Failed
- ✗ Title - Failed
- ✓ Bookmarks - Passed
- ? Color contrast - Needs manu

Page Content (2 issues)

- Forms
- Alternate Text (5 issues)
- Tables (4 issues)

Lists (2 issues)

- ✗ List items - Failed
- ✗ Lbl and LBody - Failed

Headings (1 issue)

- ✗ Appropriate nesting - Failed

MATADOR S.U.C.C.E.S.S SERIES
4th Annual
STUDENT SUCCESS CELEBRATION

Join us as we review our student success efforts and outcomes for this year. We will also honor the winners of the Freshman Celebration, Riccomini Scholarship, and announce this year's Student Success Champions!

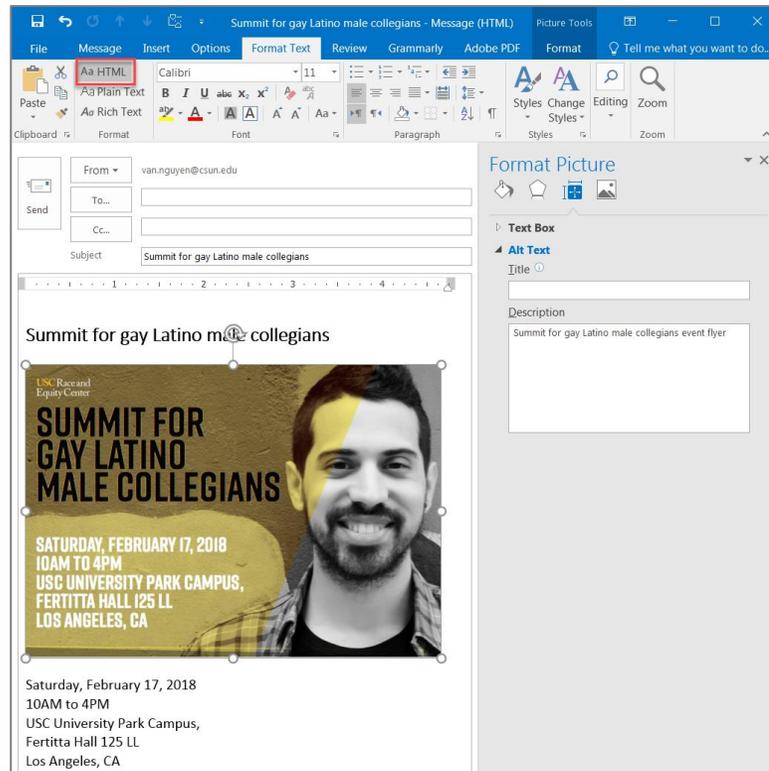
April 27, 2023
2:30 PM - 4:00 PM
Register Here:
<https://forms.gle/nyMr2iqJisxSjfsP8>

CSUN.



Flyers: Image vs. PDF

Image: provide text equivalent



PDF: provide accessible PDF



Other Attachments

- Files attached to an email must also be accessible.
- Use a descriptive and distinct file name.
- Videos in emails must be captioned and audio described.

Unclear / Vague File Name

- 00123345667987.pdf
- Resume.pdf
- Reports.docx
- Excel_2019.xlsx

Descriptive File Name

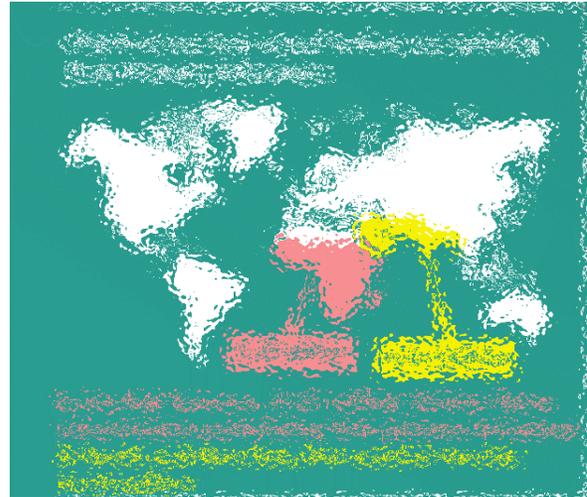
- Accessible_Email_Infographics.pdf
- Nguyen_Van_Resume.pdf
- UDC_Captioning_2018.docx
- UDC_Budget_2019.xlsx



Visual Challenge



Normal vision



Low vision



Color blindness



Blind or deaf-blind

What's the best way to make images accessible to everyone?



Image Description or Alt Text

[[Staff]] Test Email Post Inbox x

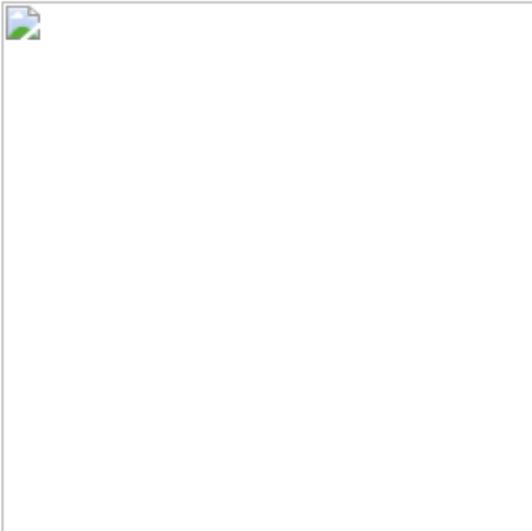


Service Desk <forums@channeladvisor.com>
to me ▾

Service_Desk

April 18

This is a test email post with an image



- **Alt Text** allows visually impaired or blind users who use text-to-speech assistive technologies (AT), such as screen readers, to understand the purpose of graphic images.
- Sighted users usually don't see alt text unless they use AT, however, emails may show alt text instead of the image.



Alt Text Best Practices



C. S. U. N. Universal
Design Center.

- Describe the content and the purpose of the image clearly and concisely, in a phrase or a sentence or two.
- Keep alt text short: 200 characters or less.
- Images with text should include the words on the image.
- “Image of...”, “Photo of...” is not needed because screen readers and other AT announce that it’s an “image” or “graphic”.
- Use proper punctuation such as periods to indicate the end of the alt text.
- Don’t insert hyperlinks in alt text because they are not clickable and can’t create descriptive link text.

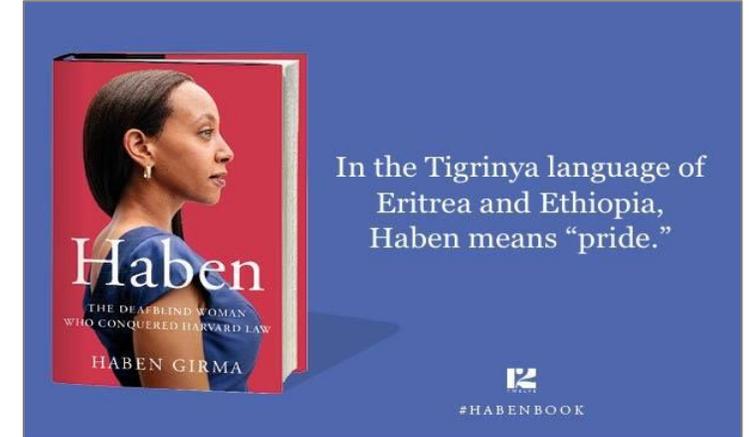
How to Describe Images?



A stair chase leading up to an entryway is painted yellow with bold black text that reads museums are now.



A hand reaches out of a computer screen giving the hand gesture for stop. The screen reads 'access denied!'



On the left is the book cover for Haben The Deafblind Woman Who Conquered Harvard Law, and on the right is the quote: "In the Tigrinya language of Eritrea and Ethiopia, Haben means 'pride.'"



Michelle Obama claps and Barack waves.



Student holds a diploma hardcover up in the air during CSUN commencement. Caption text "and together, as Matadors, we will move mountains."

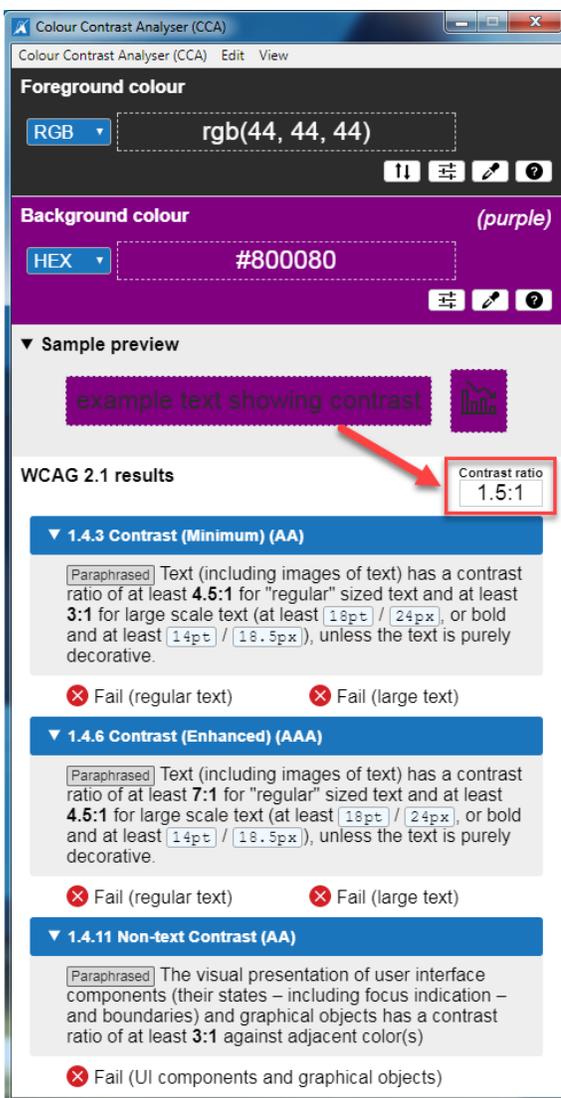
More examples of How to Describe Images

- [Document Learning Tools: Describing images](#)
- [How to Describe Images](#) (Art, Chemistry, Diagrams, Flow Charts, Formatting & Layout, Graphs, Maps, Mathematics, Page Layout, Tables, Text-only images)
- [Periodic Table of the Elements](#)
- [UDC Best Practices for Describing Images](#)

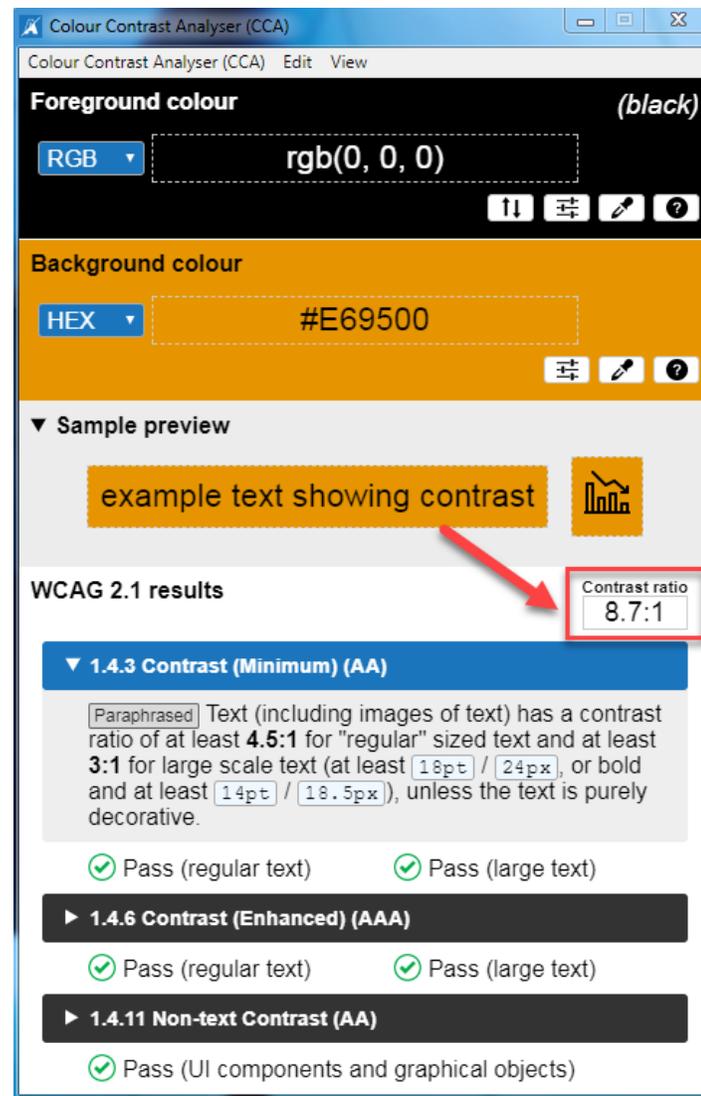
Text Readability

- Text should be clear and easy to read
- Font size of 12 points or larger
- San-serif fonts are more suited to electronic formats
(Arial, Calibri, Verdana or Franklin Gothic Book)
- Avoid difficult fonts, fancy script, or decorative fonts with curly edges
- Ensure there is enough contrast between the foreground color and background color





People who have low vision or colorblind could encounter some difficulty distinguishing text color from a background color if the contrast is insufficient contrast ratio 1.5:1.



This example has a great color contrast ratio of 8.7:1. The contrast is sufficient for those who have color deficiencies

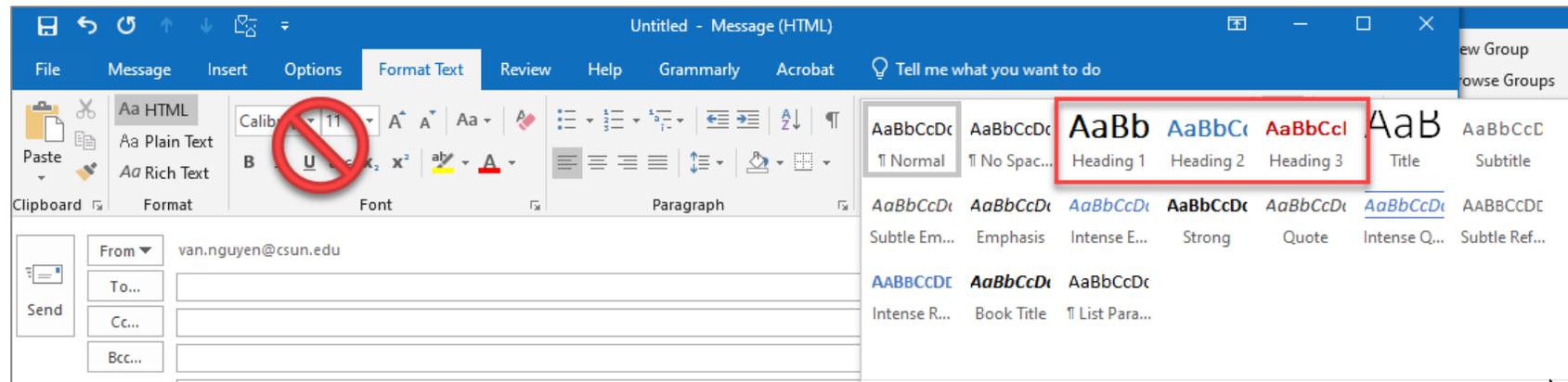
Check Color Contrast

Bad Examples	Good Examples
Red on black is bad	Yellow on black is good
Blue on orange is bad	Black on orange is ok
Red on green is bad	White on green is good
Grey on purple is bad	Aqua on purple is ok

- Download [Colour Contrast Analyser](#) onto your computer (PC/Mac) to ensure accessible contrast or use an online contrast checker from [WebAIM](#).
- WCAG Level AA requires a contrast ratio of at least **4.5:1** for regular sized text (12 or 14 pt. font) and **3:1** for large text (18 pt. font).
- [Coblis Color Blindness Simulator](#)

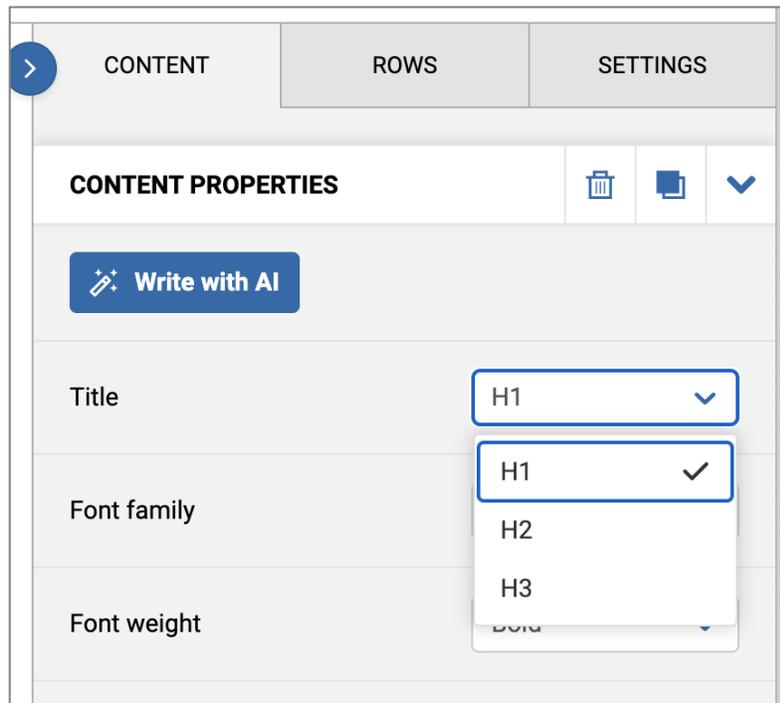
Headings

- Provide structure and make email accessible
- Easier to modify existing formatting
- Accessible to any assistive technology like screen readers
- Use a logical sequence. Do not skip heading levels, i.e., Heading 2 then Heading 4; headings should be in order.)
 - **Heading 1:** Document title or main content heading/title (just one time only).
Font size i.e. 20pt – 18pt.
 - **Heading 2:** Major section heading. *Font size 18pt – 16pt.*
 - **Heading 3:** Sub-section of the Heading 2. *Font size 16pt – 14pt*
 - **Heading 4:** Sub-section of the Heading 3, and so on, ending with Heading 6. *Font size 14pt – 12pt.*
 - **Normal:** Text or Paragraph. *Font size 12pt or up.*

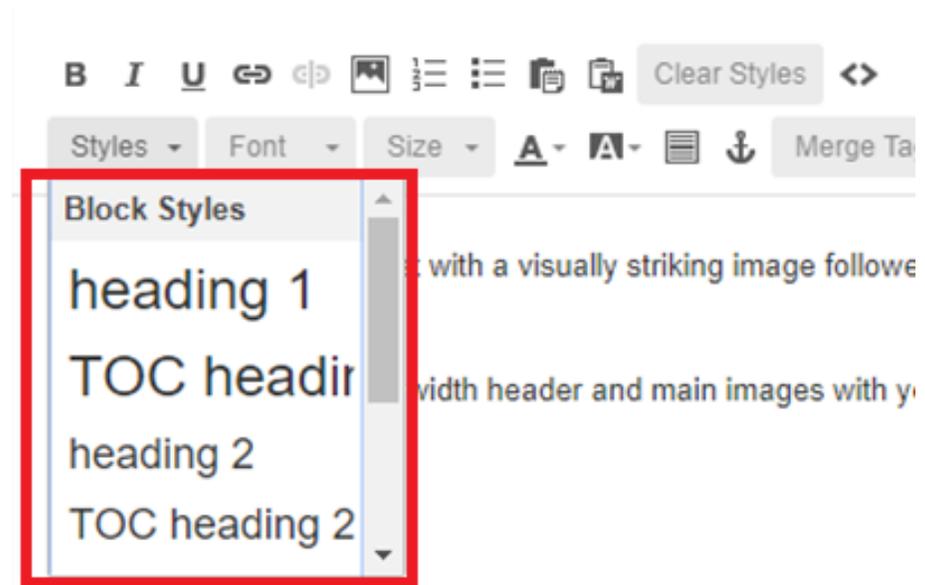


Email Marketing Headings/Styles

Emma: Add a Title block. In the Content panel, under the Title field, select heading levels 1 to 3.



Mail Chimp: Templates have heading levels 1 to 4 to organize the content in a hierarchical structure. Headings are located under the “styles tab” in WYSIWIG.



Refer to [Email Marketing Accessibility](#)

Email with Heading Structure

Academic Technology March 2023 Newsletter



CSUN Academic Technology <noreply@csun.edu>

Wednesday, March 29, 2023 at 10:44 AM

To:  Tipton, Kathryn

Academic Technology News



**Digital Equity Day
2023 Coming Soon!**

Join us for Digital Equity



**Doctoral Student Equity
Fellowship**

Let your students know that

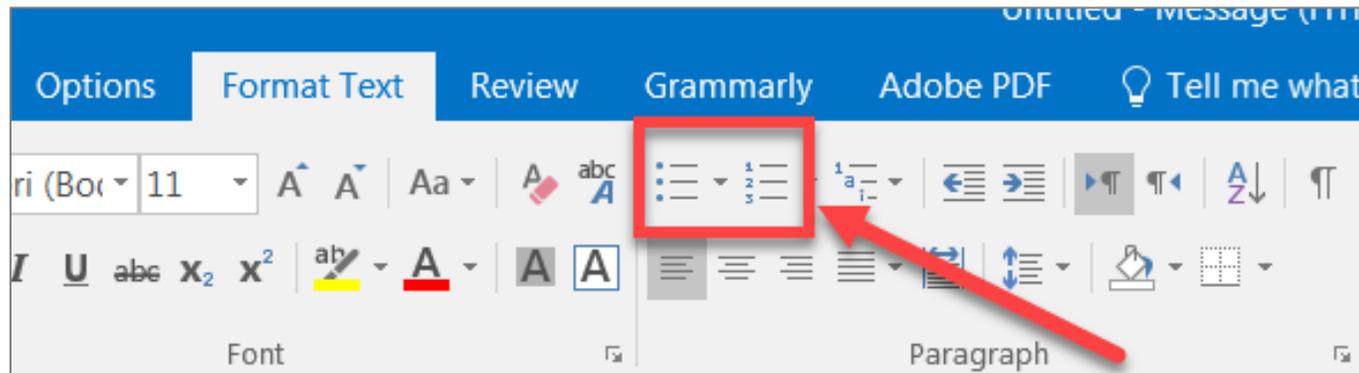


**UDC Procurement
Accessibility Course**

Are you a frequent "CSUN

Bulleted and Numbered Lists

- Use lists to organize information
- Use platform's built-in functionality to create
 - Bulleted List (order of list items **does not** matter)
 - Numbered List (order of list items **does** matter)



Best Practices for Accessible Links

DESCRIPTION

- Link text must always properly **describe the purpose** of the link and tell a user **where** the link will take them.
- Do not use text such as “**click here**” or “**read more,**” nor web addresses (URLs).

PRESENTATION

- Each link on the page should be **visually different** from regular text on the website.
- Can be differentiated by **color**, **bold**, underline, or *italics*.
- Using color alone **does not** make it accessible.

FUNCTIONALITY

- Link functionality is about ensuring a link functions the way the user expects.
- Links must always enhance the accessibility of a webpage.
- Users must be able to access links using a mouse, keyboard, or speech recognition commands.

LINKED IMAGES

- A linked image is an image (with or without text) that is linked to another resource or webpage.
- Linked images need link descriptions as well as image descriptions (alt text).
- If the link description is different than the alt text, enter the link description in the HTML Title field.
- Visit [Linked Images](#) on the Best Practices for Accessible Images page for more information.

Best Practices for Links in Emails

Accessibility In The News Accessibility in the News- March 10, 2023

JM
on behalf of
Jack McElaney via Ac...
Thursday, March 9, 2023 at 9:40 PM
To: Accessibility In The News; Cc: Jack McElaney

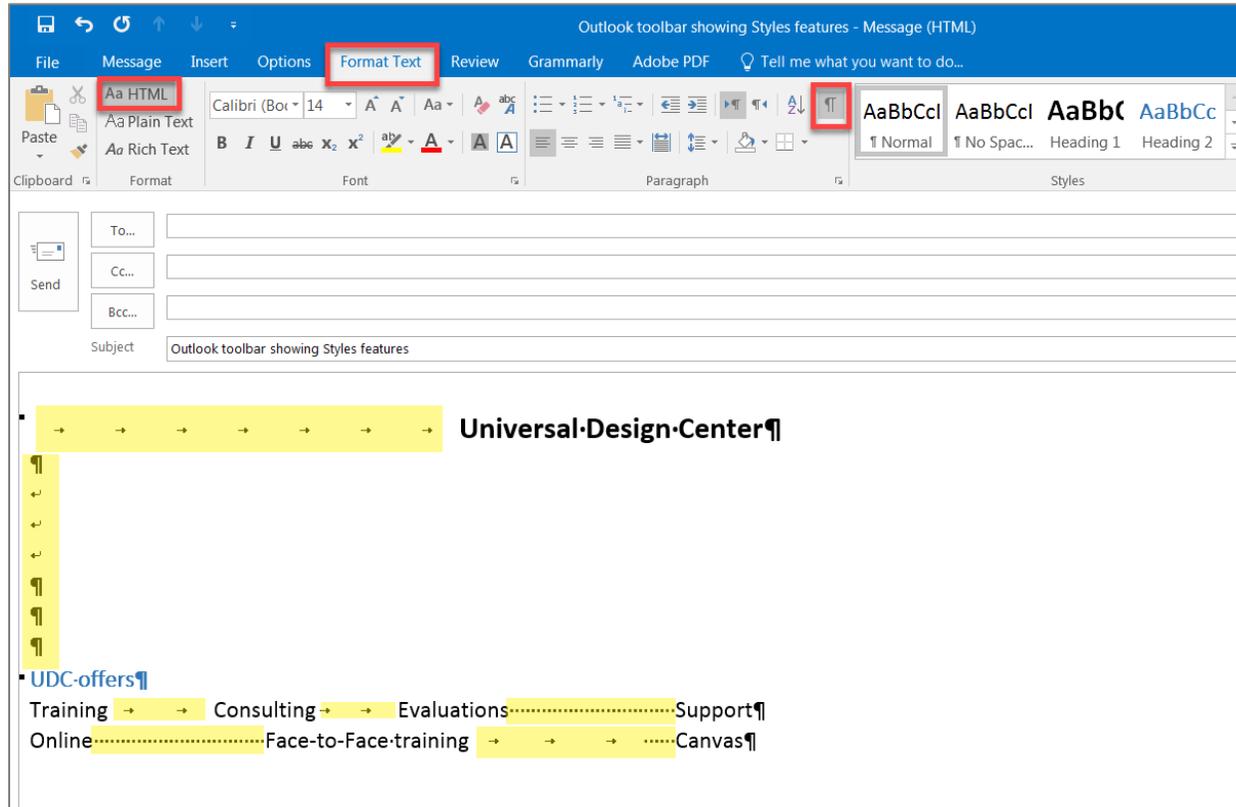
13. **‘The DeafBlind community is an underserved community.’ Northeastern engineering students are designing more accessible doorbells- March 7, 2023**
Source: [Northeastern University](#)

a. **‘We need blind scientists.’ Northeastern professor tells United Nations about her ‘unseen advantage’ in inspirational speech- March 7, 2023**
Source: [Northeastern Global News](#)

- Use descriptive text, not a URL
- Use each link once
- Put each link at the end of the line of text
- **Do not** use URL shorteners (bit.ly, etc.)



White Space



- Avoid excessive spaces, tabs, etc.
 - Screen readers may read “blank.”
- Use built-in formatting to create white space instead of repeating blank characters.

Check (Test) Email

On the web

Join us for the 4th Annual Student Success Celebration--
April 27th, 2:30pm - 4pm

1 attachment

Subject: Join us for the 4th Annual Student Success Celebration--April 27th, 2:30pm - 4pm

Dear Colleagues,

CSUN staff, faculty, and students are invited to attend the 4th Annual Student Success Celebration. This event will be in person for the first time. Please help us spread the word.

Feel free to forward this invitation to your students and colleagues in your respective areas.



The poster features the text "MATADOR S.U.C.C.E.S.S SERIES" in red, "4th Annual" in black, and "STUDENT SUCCESS CELEBRATION" in red. It includes a silhouette of a matador and a registration link: <https://forms.gle/nyMr2lqJisx5jfsP8>.

On mobile

5:36

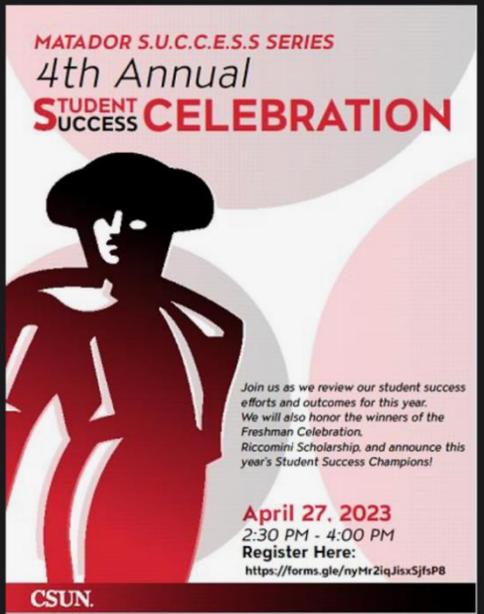
551 Join us for the 4th Annu...

Subject: Join us for the 4th Annual Student Success Celebration--April 27th, 2:30pm - 4pm

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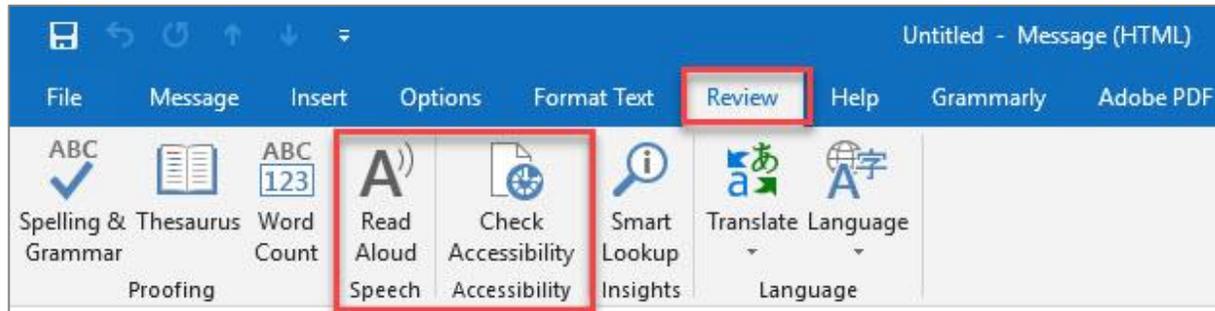


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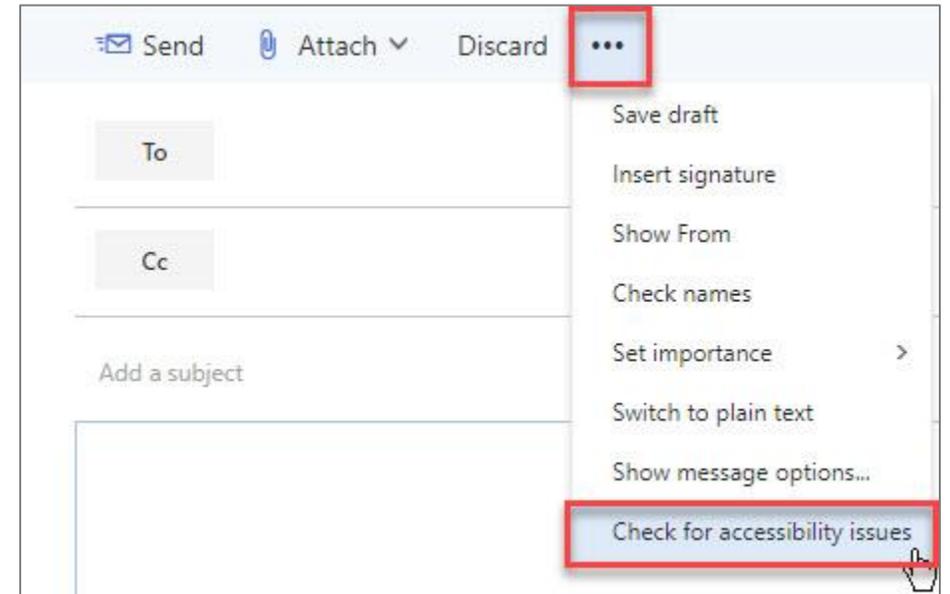


Accessibility Checker

Office 365 Outlook Client



Office 365 Outlook Web App



Create with Accessibility in Mind

Best Practices



How can we help you make a **difference**?



Universal Design Center Offers

- Online, self-paced training
- In-person training each semester
- Consultations
- Tools and Services

