

Accessibility UI/UX Design Standards

**Information Technology | Business Relationship Division
Arapahoe County, CO**

Supervisor: Hilaire Brockmeyer – Product Manager

coding it forward >



ZOIE HUANG
University of Washington
Master of Communication in Digital Media

AGENDA



01

Intro

Who I am | My process

02

Design to all audiences

Disability States | Why accessibility is important

03

How We Will Get There?

Accessible UI/UX Design Standards

04

What's next

Next steps & Learnings

WHO I AM



1

UI/UX DESIGN FELLOW

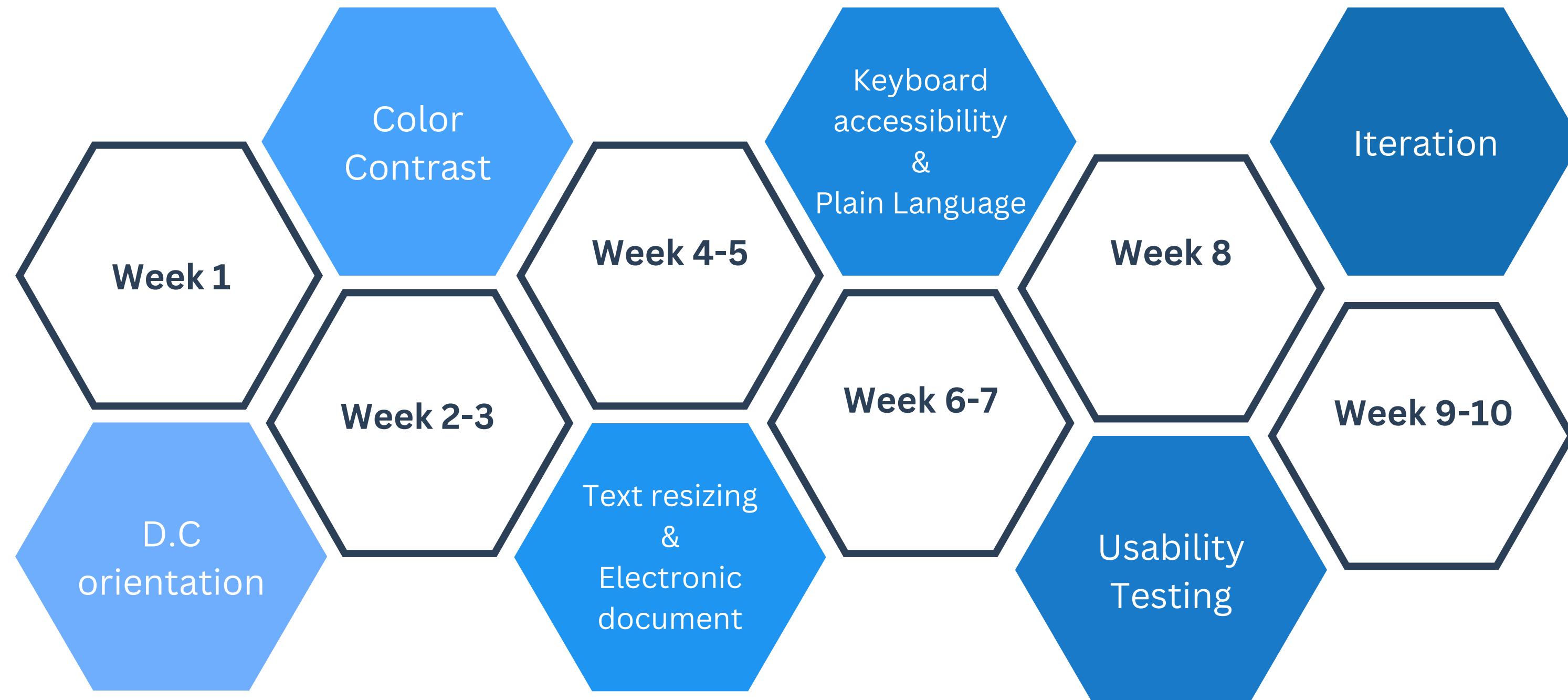
Human-Centered Design

2

MY EXPERIENCE WITH ACCESSIBILITY DESIGN

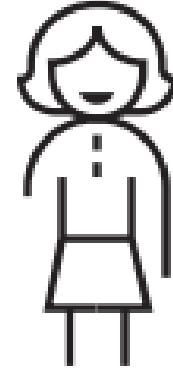
Website redesign for the bicycle club, volunteer experience at the Yangon Education Center for the Blind.

MY PROCESS



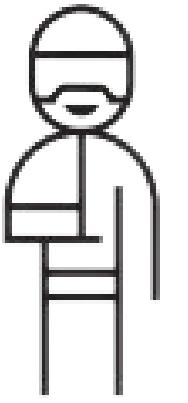
June 12 2023 - August 18 2023

DISABILITY STATES



Permanent

One arm



Temporary

Arm Injury



Situational

New Parent

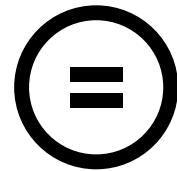
	Permanent	Temporary	Situational
Touch	A simple line drawing of a man from the waist up, facing forward. He has short hair and is wearing a light-colored top and dark pants. His right arm is missing at the shoulder.	A simple line drawing of a man from the waist up, facing forward. He has short hair and is wearing a light-colored top and dark pants. A cast is on his right arm, extending from the elbow down to the hand.	A simple line drawing of a woman from the waist up, facing forward. She has short hair and is wearing a light-colored top and dark pants. She is holding a baby in her arms.
	One arm	Arm injury	New parent
See	A simple line drawing of a person from the waist up, facing forward. They have short hair and are wearing a light-colored top and dark pants. They are wearing dark sunglasses and have a cane in their left hand.	A simple line drawing of a person from the waist up, facing forward. They have short hair and are wearing a light-colored top and dark pants. They are wearing dark sunglasses.	A simple line drawing of a person from the waist up, facing forward. They have short hair and are wearing a light-colored top and dark pants. They are wearing a helmet and holding a steering wheel.
	Blind	Cataract	Distracted driver
Hear	A simple line drawing of a person from the waist up, facing forward. They have short hair and are wearing a light-colored top and dark pants. They are wearing headphones and have a microphone attached to their mouth.	A simple line drawing of a person from the waist up, facing forward. They have short hair and are wearing a light-colored top and dark pants.	A simple line drawing of a person from the waist up, facing forward. They have short hair and are wearing a light-colored top and dark pants. They are wearing a hat and holding a shaker.
	Deaf	Ear infection	Bartender
Speak	A simple line drawing of a person from the waist up, facing forward. They have short hair and are wearing a light-colored top and dark pants. They have a speech bubble above them.	A simple line drawing of a person from the waist up, facing forward. They have short hair and are wearing a light-colored top and dark pants. They have a speech bubble above them.	A simple line drawing of a person from the waist up, facing forward. They have short hair and are wearing a light-colored top and dark pants. They have a speech bubble above them.
	Non-verbal	Laryngitis	Heavy accent

Disability



Personal health condition

Disability



Mismatched Human Interactions

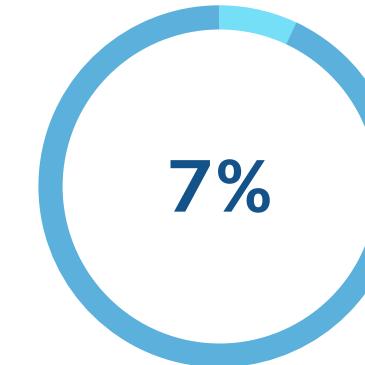
Design to all
audiences from
the outset

WHY ACCESSIBILITY IS IMPORTANT

The statistics from Census Bureau Quick Facts &
Arapahoe County 2022 Community Health Assessment



People's ages >
65 years (2022)



With a disability,
under ages 65
years (2022)



Disability (2020)
Includes hearing, vision,
cognitive, ambulatory, self-care,
and independent living difficulty



Language other than English
spoken at home, percent of
persons age 5 years+ (2017-2021)

How We Will Get There?



ACCESSIBILITY TOOLKIT

Everyone should use



Color

Accessibility recommendations
for choosing colors



Plain Language

Plain language writing guidelines
with case study examples

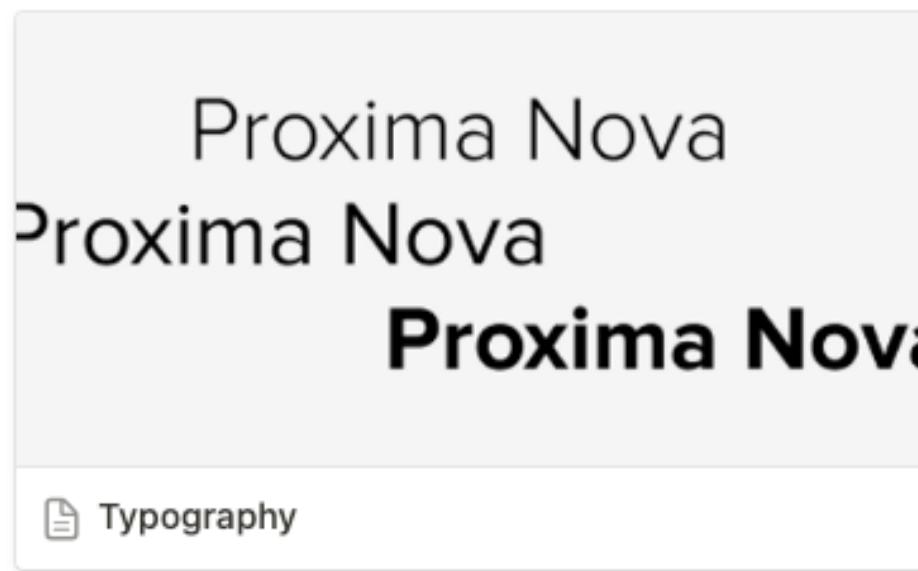


Electronic Documents

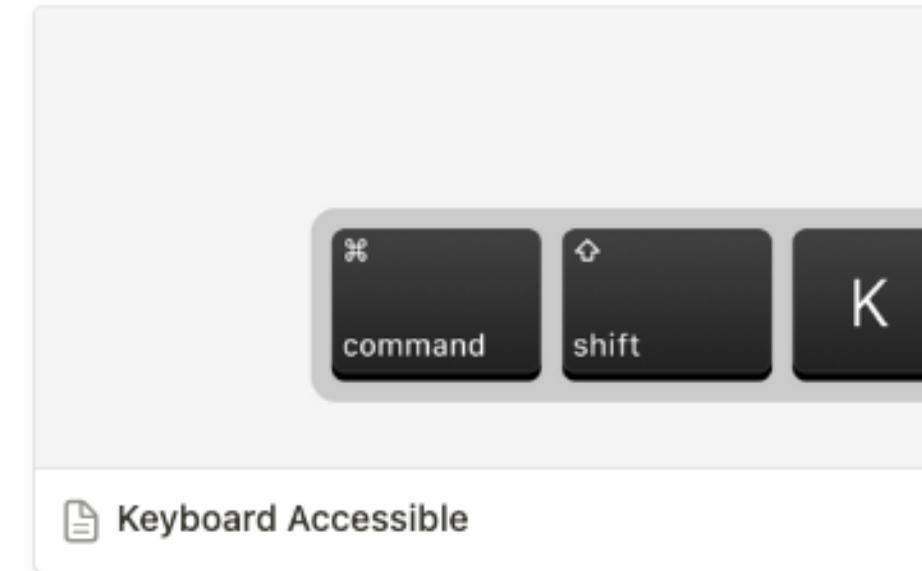
Accessible Word, Excel and PPT
documents checklist

ACCESSIBILITY TOOLKIT

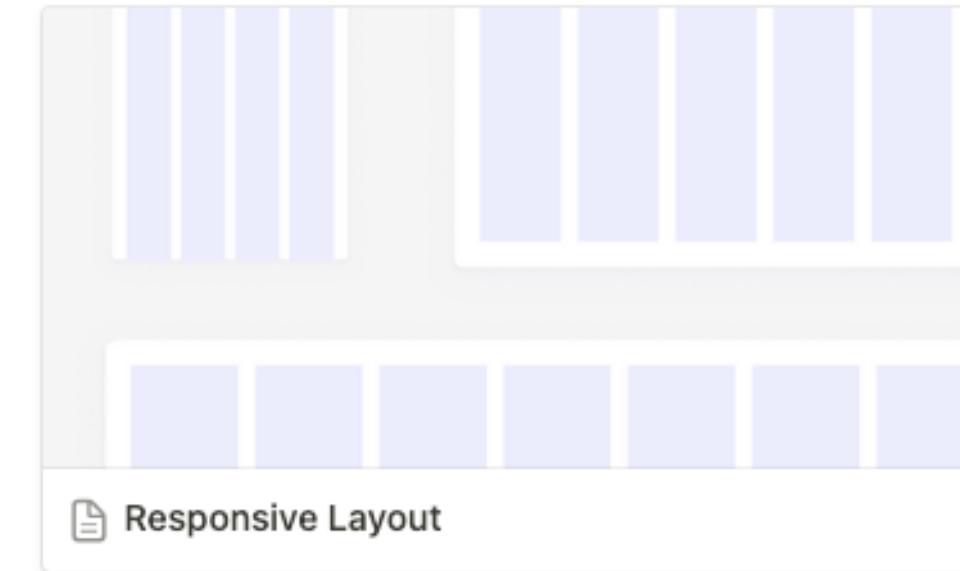
For website and application development



Accessible text styles for mobile,
desktop and the font for Readers with
Dyslexia

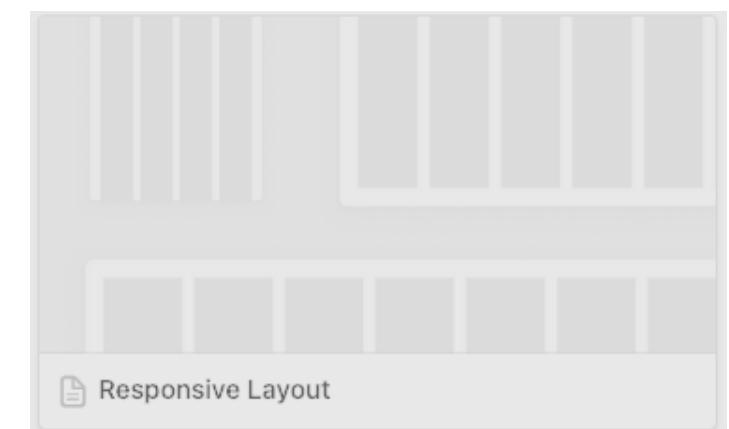
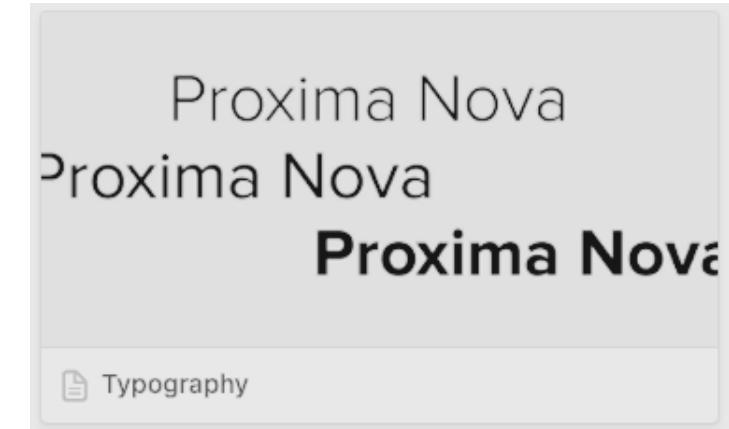
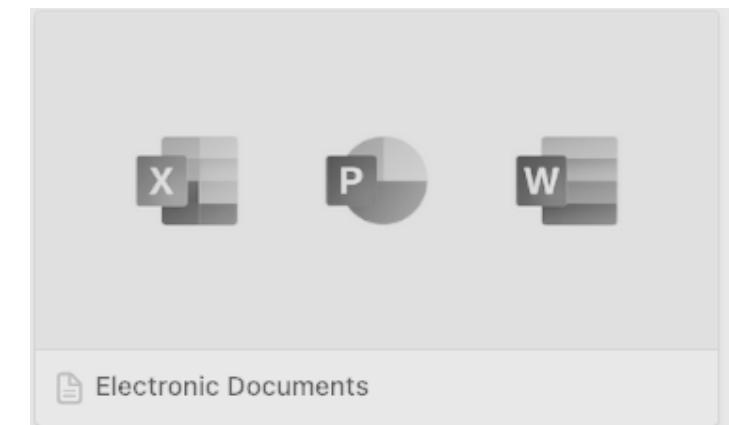
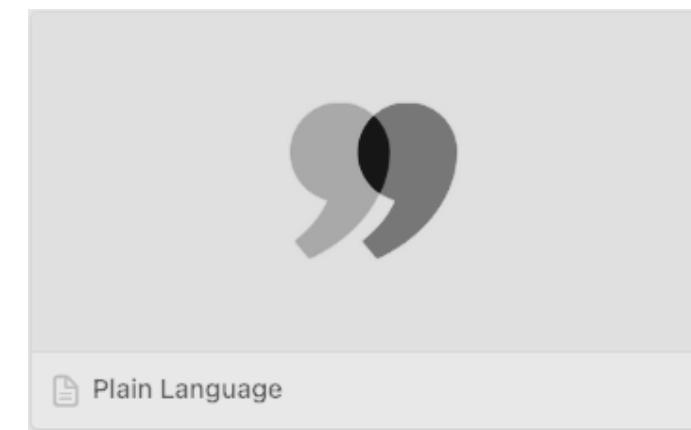
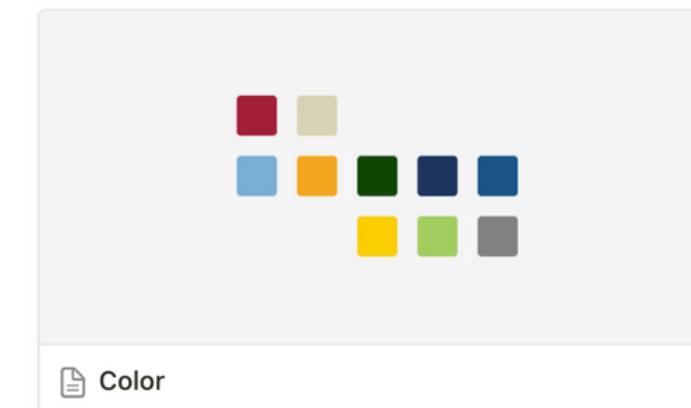
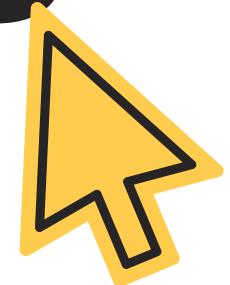


The techniques to create keyboard
accessible digital services



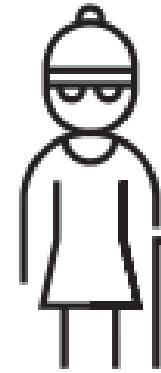
The techniques for allowing access to
adaptive and responsive Content
through text Spacing or zoom

Let's talk about Colors



ACCESSIBLE COLORS

Whom does it benefit? - Users



People with Low Vision

Example 1

As a person with low vision, I have difficulty reading hyperlink text that does not stand out from the background.

I want good contrast for hyperlinks and visited hyperlinks so that I can read and use links with ease.



Work-From-Home Professionals

Example 2

As a person who works all day on a computer, I get eye fatigue after several hours of reading text.

I want sufficient color contrast between the text and the background so that I can minimize eye strain.

ACCESSIBLE COLORS

Whom does it benefit? - County Employees

•••

As a Business Analyst, I have many report and presentations to do in my work.

I want easy access to clear report or deck styles,

so that I can promptly apply them to my presentations.

Business Analyst

•••

As a Data Product Manager, I need to create a data dashboard today.

I want to identify suitable differentiation colors to incorporate, **so that I can** build a dashboard that is easily comprehensible to all users.

Data Product Manager

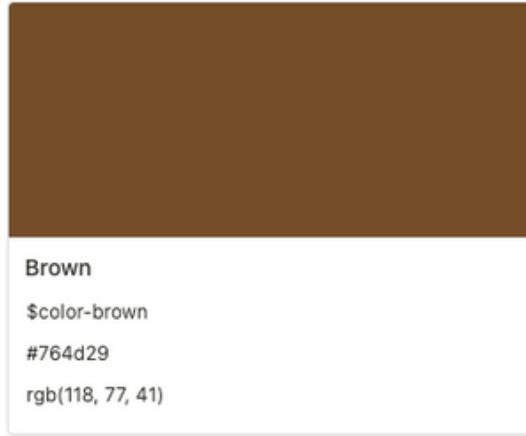
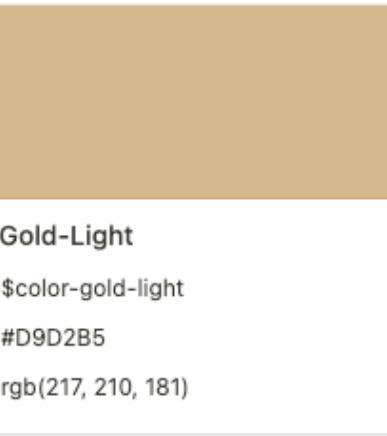
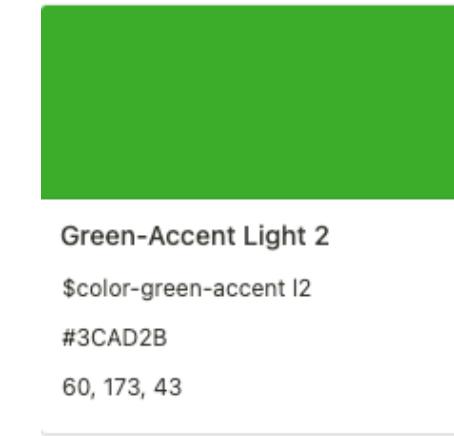
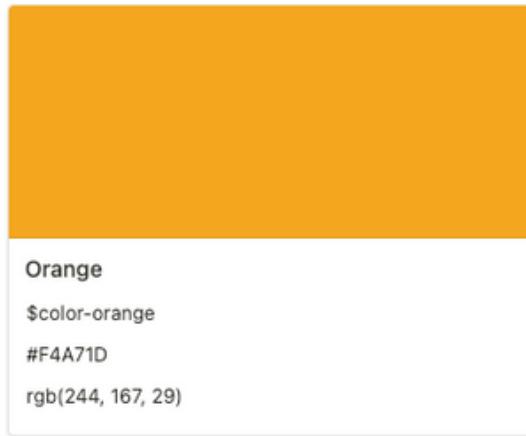
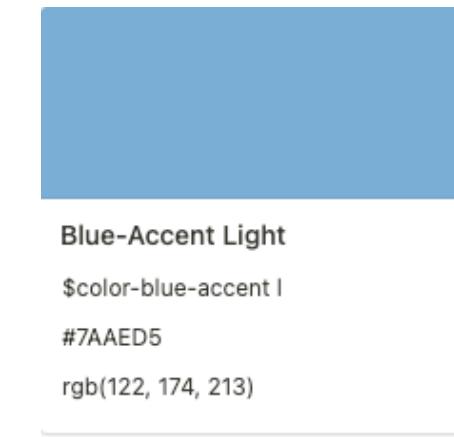
1.4.3:Contrast (Minimum)

The normal text with the background: 4.5:1

The large text with the background: 3.1

ACCESSIBLE COLORS

Current brand color palette

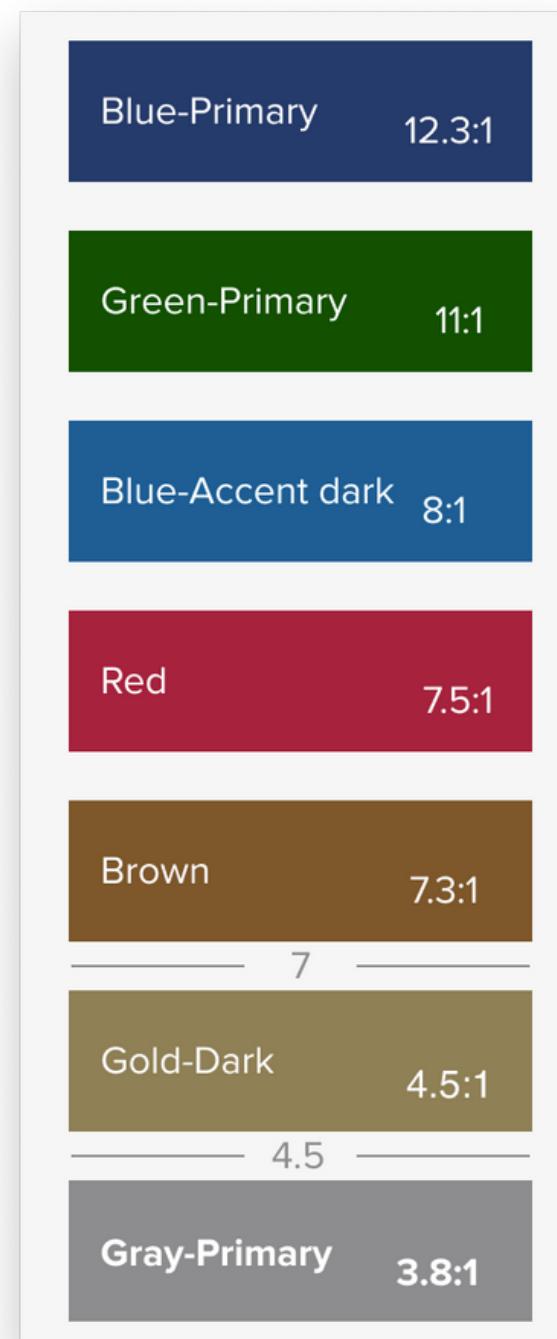


Primary colors

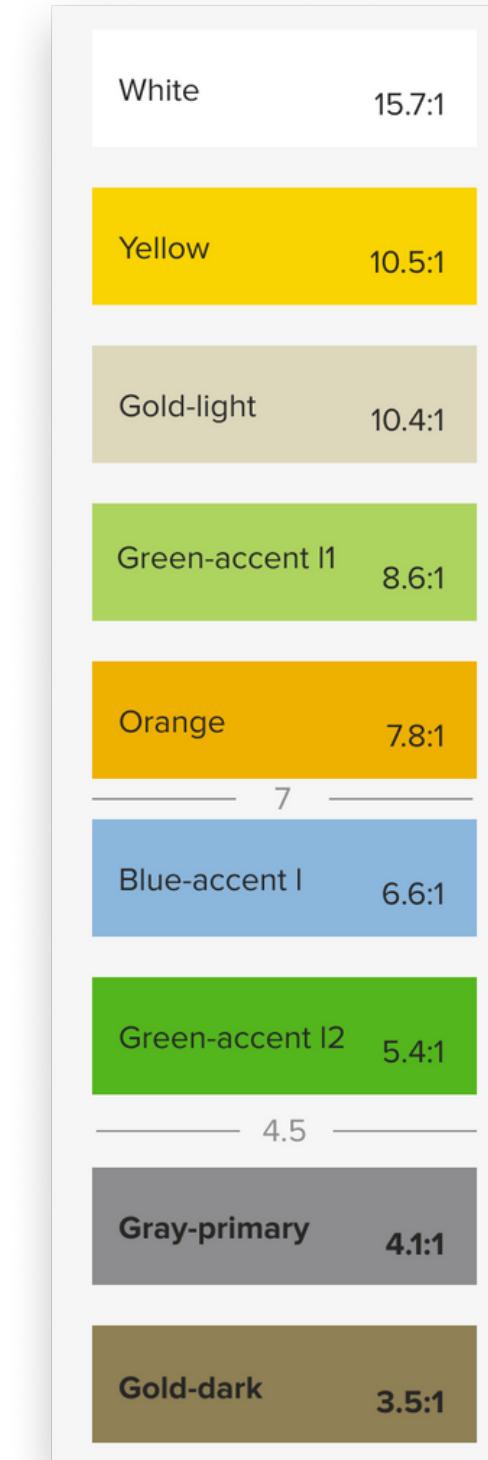
Accent Colors

ACCESSIBLE COLORS

Accessibility recommendations when choosing colors



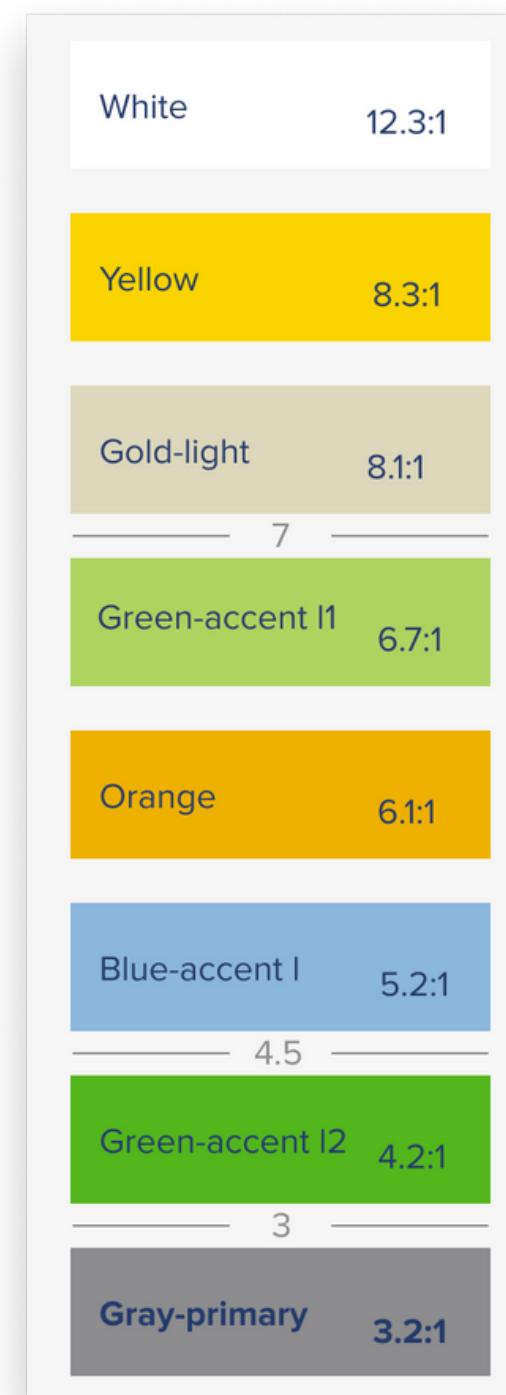
Text color: white



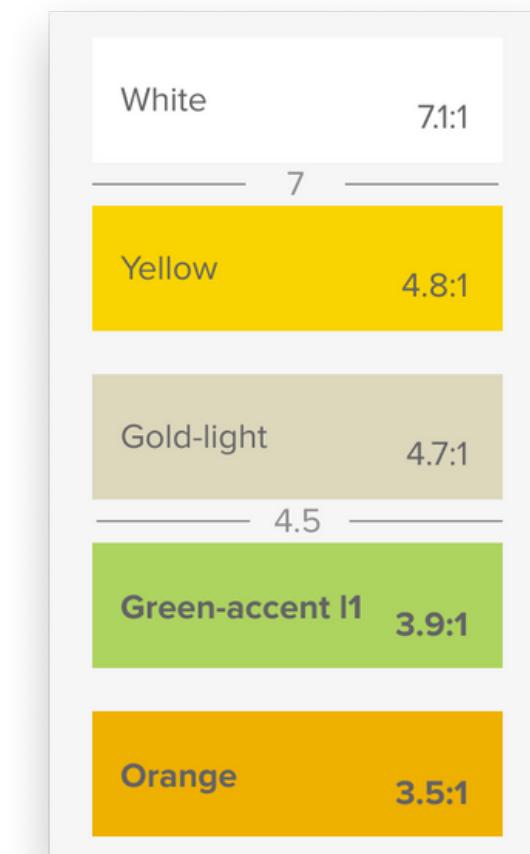
Text color: black

ACCESSIBLE COLORS

Accessibility recommendations when choosing colors



Text color: blue



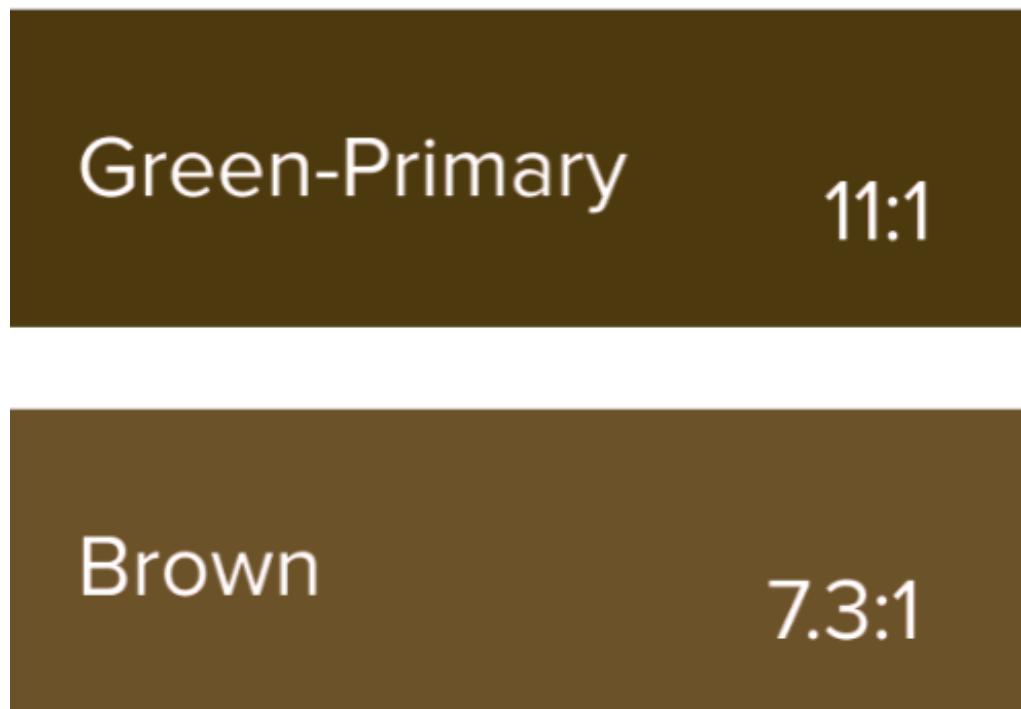
Text color: gray

ACCESSIBLE COLORS

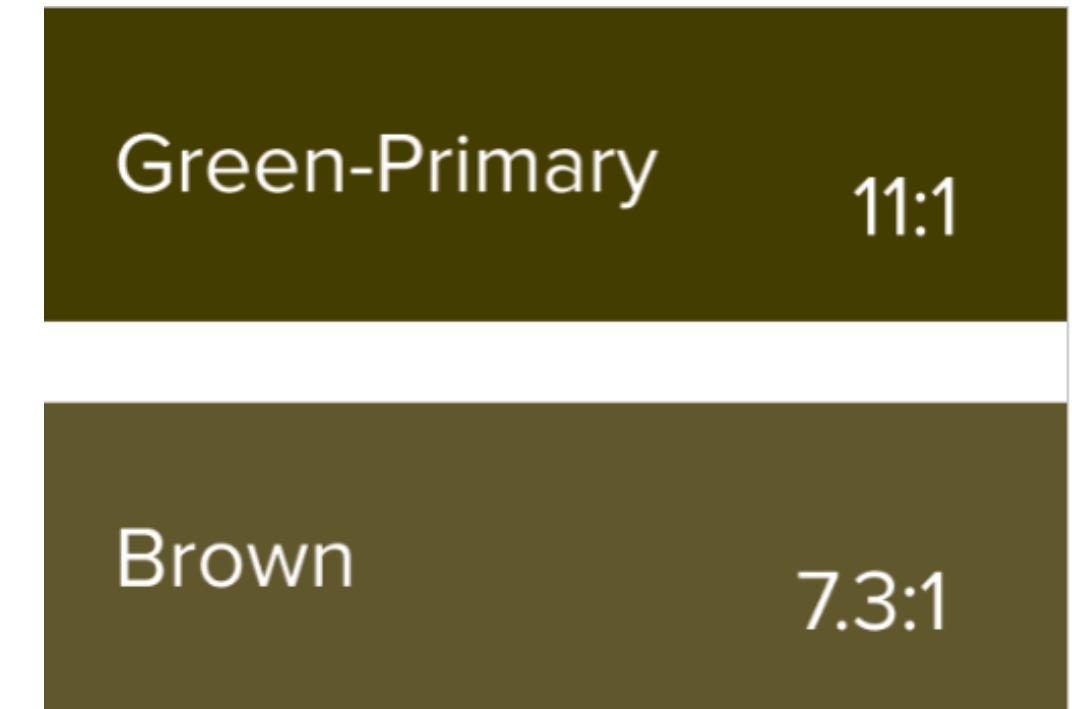
Avoid using certain colors as distinguished colors.



Original



Green-blind/Deutan



Red-blind/Protan

ACCESSIBLE COLORS

Don't rely on colors

Relying solely on color to indicate status can pose challenges for people with color blindness.



Form Field

Text

!

Description of issue

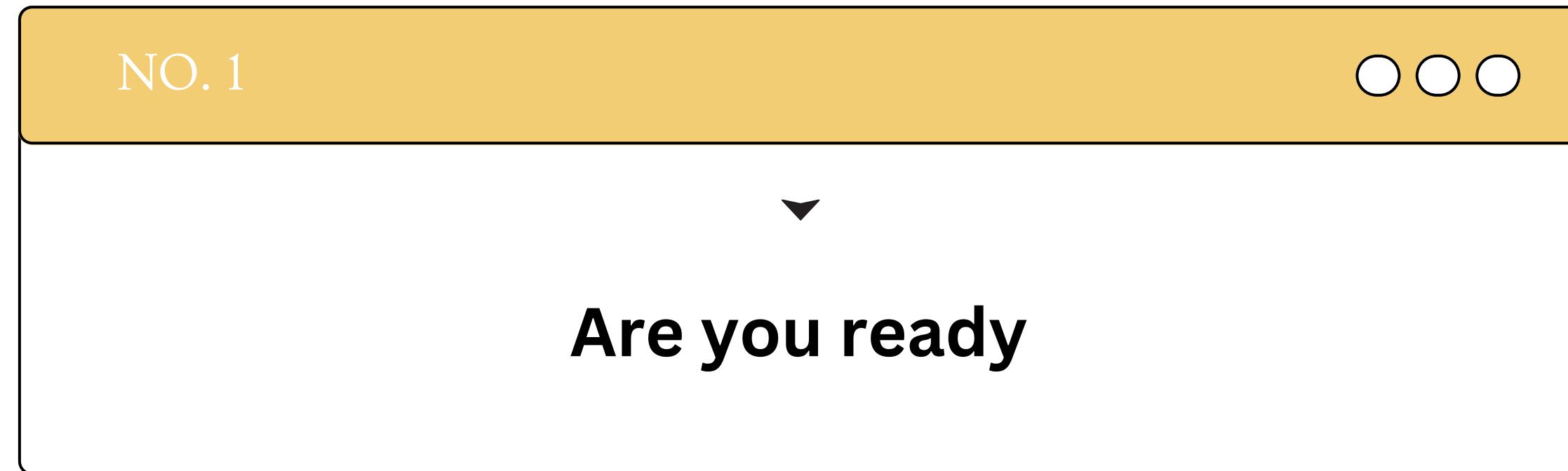


Form Field

Text

ACCESSIBLE COLORS

Quiz time



ACCESSIBLE COLORS

Quiz time



Example

Color contrast: 11.37:1 (>7.5:1)



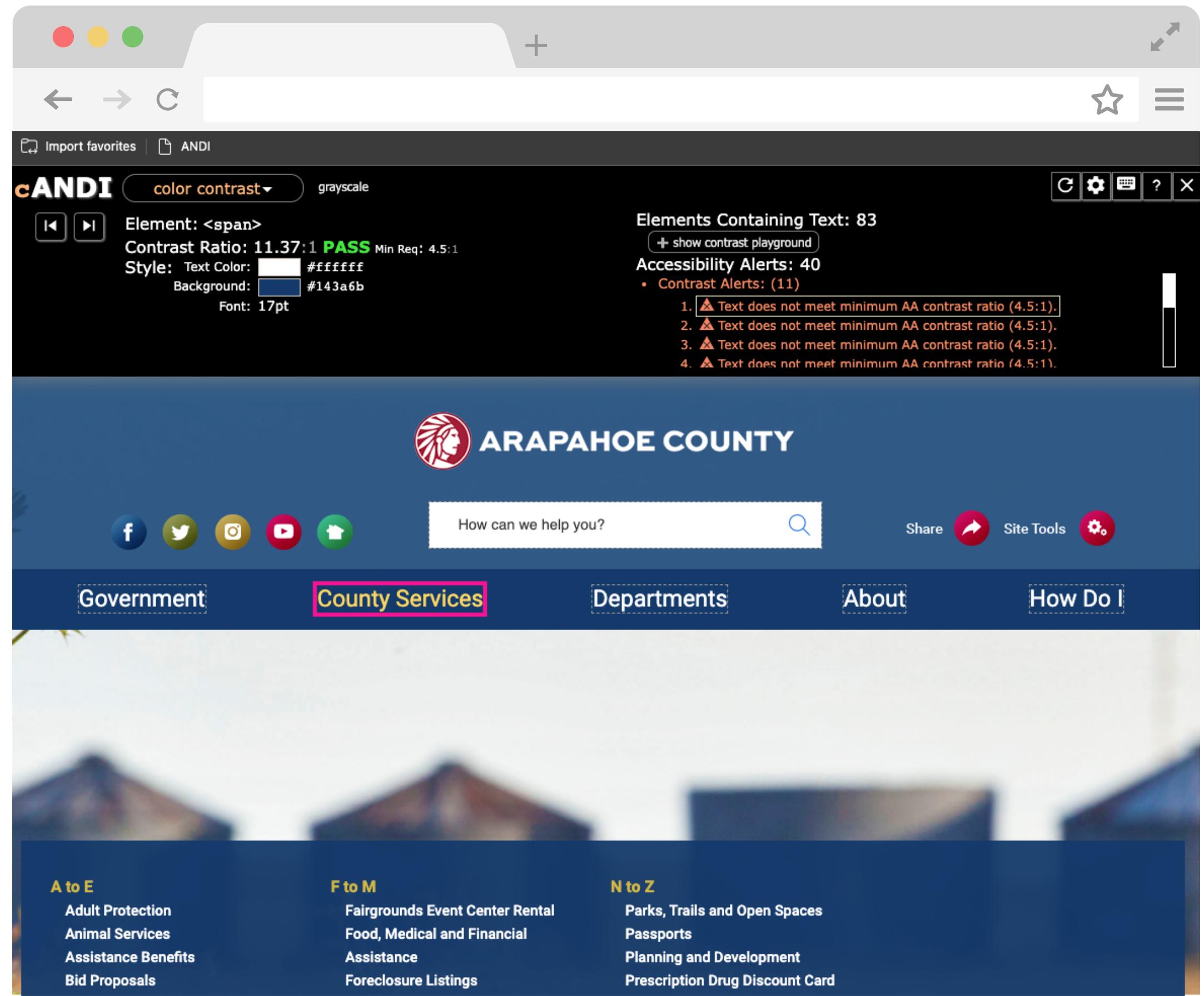
Example

Color contrast: 3.73:1 (<4.5:1)

ACCESSIBLE COLORS

Recommended tools

Use the ANDI browser extension to automatically check the website accessibility issues.



ACCESSIBLE COLORS

Recommended tools

The screenshot shows a web browser window displaying the Arapahoe County website. A dark-themed accessibility audit tool, cANDI, is overlaid on the page. The cANDI interface includes a toolbar at the top with buttons for 'Import favorites', 'ANDI', 'color contrast', 'grayscale', and various settings. The main panel displays the following information:

- Element:** <a>
- Contrast Ratio:** 5.24:1 **PASS** Min Req: 4.5:1
- Style:** Text Color: #d2b744; Background: #143f7a
- Font:** 13pt
- Elements Containing Text:** 81 (+ show contrast playground)
- Accessibility Alerts:** 40 (+ Contrast Alerts: (10))
 - 1. ▲ Text does not meet minimum AA contrast ratio (4.5:1).
 - 2. ▲ Text does not meet minimum AA contrast ratio (4.5:1).
 - 3. ▲ Text does not meet minimum AA contrast ratio (4.5:1).
 - 4. ▲ Text does not meet minimum AA contrast ratio (4.5:1).

The underlying Arapahoe County website features a blue header with the county logo and navigation links for Government, County Services, Departments, About, and How Do I. Below the header, there's a large image of several ballot boxes labeled 'OFFICIAL BALLOT BOX'.

VIEW MORE

If your project requires you to use colors, you can test the color contrast by yourself.
We recommend using [WebAIM: Contrast Checker](#), the online tool allows you to input the foreground and background colors and examine the contrast ratio.

WebAIM: Contrast Checker
You are here: Home > Resources > Contrast Checker
<https://webaim.org/resources/contrastchecker/>

Use the ANDI browser extension to automatically check the website accessibility issues
ANDI is a free accessibility and Section 508 compliance testing tool. You don't need to download it. Add it to your bookmarks toolbar for easy access.

ANDI can:

- Provide automated detection of accessibility issues
- Reveal what a screen reader should say for interactive elements (the accessible name computation)
- Give practical suggestions to improve accessibility and check 508 compliance

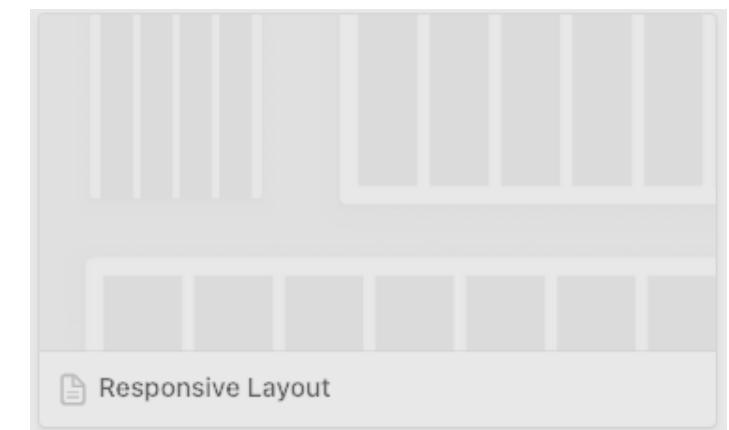
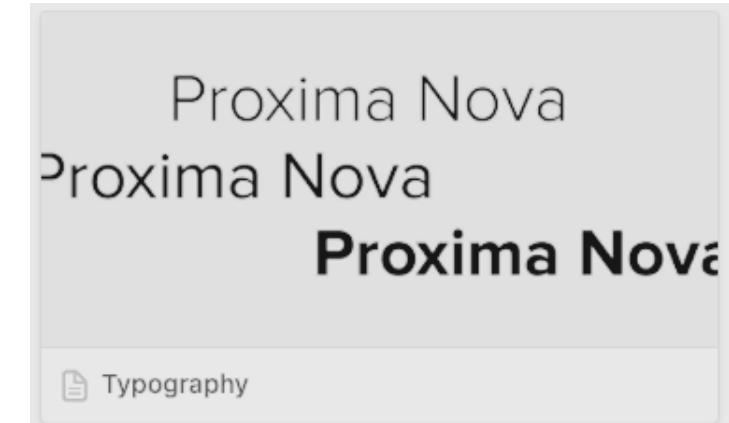
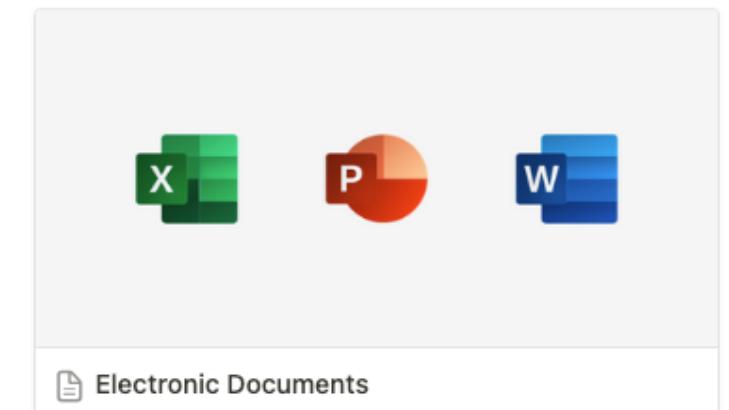
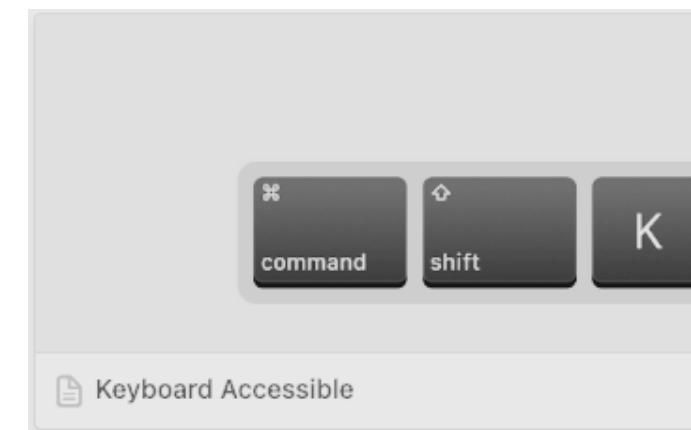
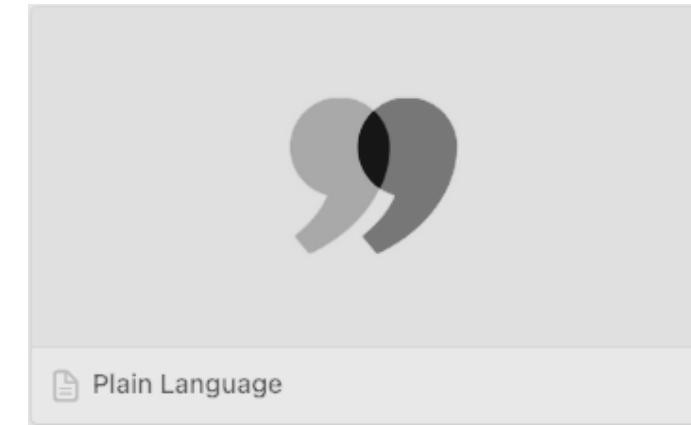
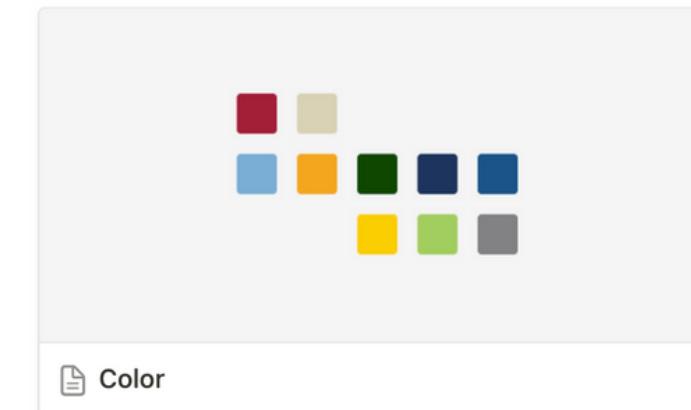
ANDI - Accessibility Testing Tool - Install
ANDI accessibility testing tool. A free tool to test websites for accessibility.
<https://www.ssa.gov/accessibility/andi/help/install.html>

Use HSLuv color space to create accessible colors palette
The problem with those traditional color spaces such as RGB or HSL is that they are non linear in term of human perception. But the HSLuv color space is designed for perceptual uniformity based on human experiments.

HSLuv is a friendly tool for developers. Colors can be generated easily with simple calculations and have consistent characteristics. Color palettes can be created quickly without using any color picker.

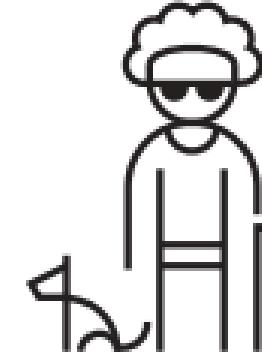
- More details about using these colors
- Testing tools recommendations

Let's talk about Electronic Documents



ELECTRONIC DOCUMENTS

Whom does it benefit? - County Citizens

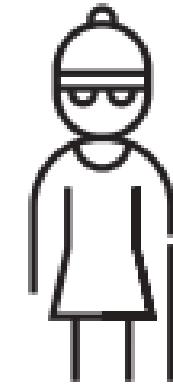


Screen Reader Users

Example 1

As a person with low vision, I depend on the screen reader when completing online government forms.

I want comprehend and input information without barriers, **so that I can** independently navigate through the process and successfully complete it.



Low-tech users

Example 1

As a elderly individual , today I want to ask about the property tax exception for seniors.

I want to consume the online content easily, **so that I can** obtain the assistance without having to risk exposure to Covid by visiting in person.

ELECTRONIC DOCUMENTS

Whom does it benefit? - County Employees

•••

As an Application Product Manager,
my work involves organizing lists of
applications from various sources,
including vendors and internal
development.

I want the excel documents can be
named uniformly,
so that I can efficiently manage and
locate the documents.

Application Product Manager

•••

As a Content Manager, I often
communicate with the public through
writing word documents.
I want ensure that my work is
accessible right from the start, rather
than remediation,
so that I can save my time.

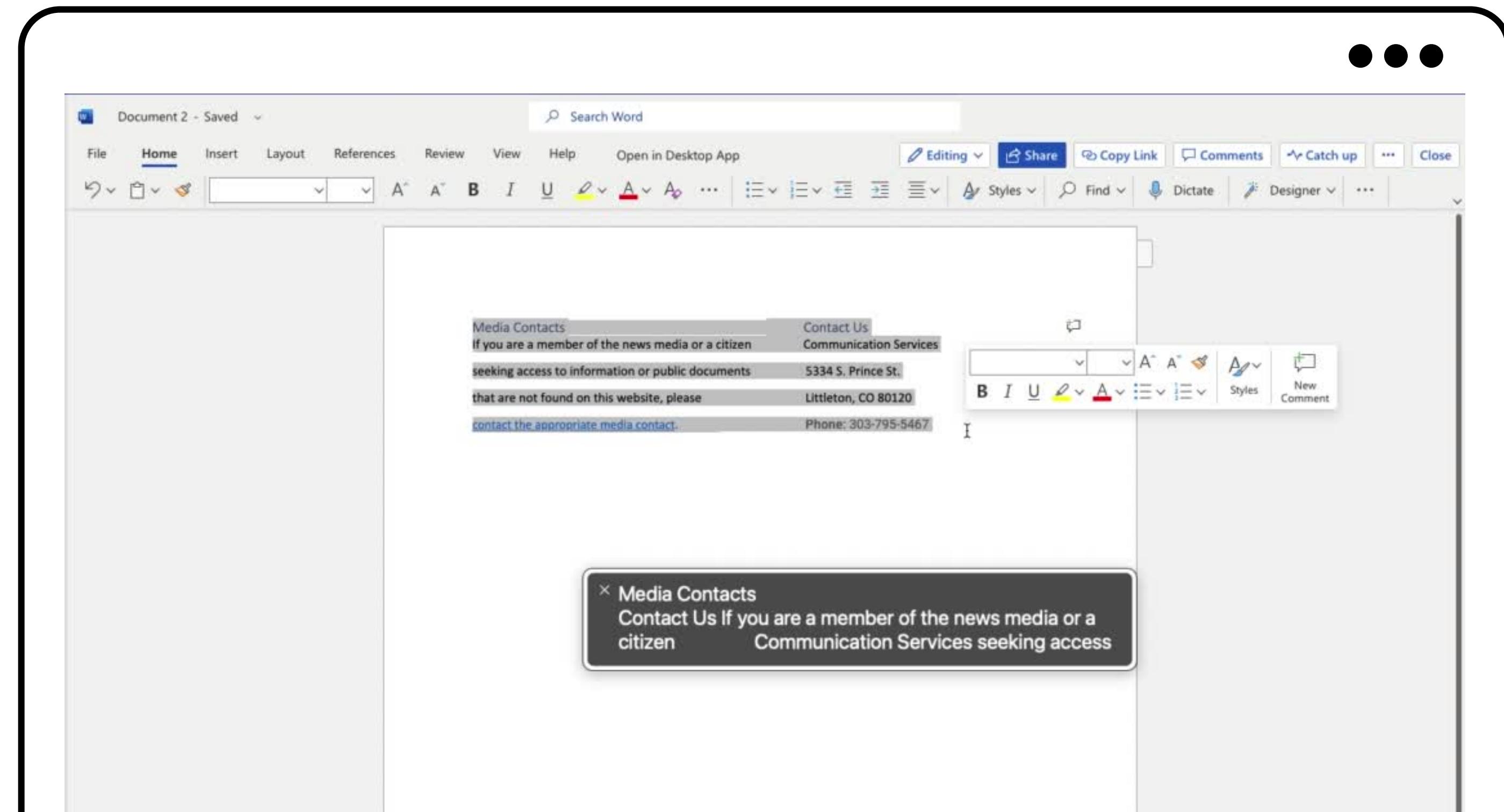
Content Manager

The Revised 508 Standards

include not just IT tools and systems, but electronic content such as documents, web pages, presentations, social media content, blogs, and certain emails.

ACCESSIBLE WORD DOCUMENTS

Don't use spacing to create the appearance of columns



ACCESSIBLE WORD DOCUMENTS

Don't use complex data tables



Week	Assignment	Due Date
1	Reading Chapter 1-3	Jan 20.
	Post introduction to Discussion List	
2	Read Chapter 4-6	Feb 1.
3	Read Chapter 7	Feb 8.
	Paper Due	Feb 9.

the merged table

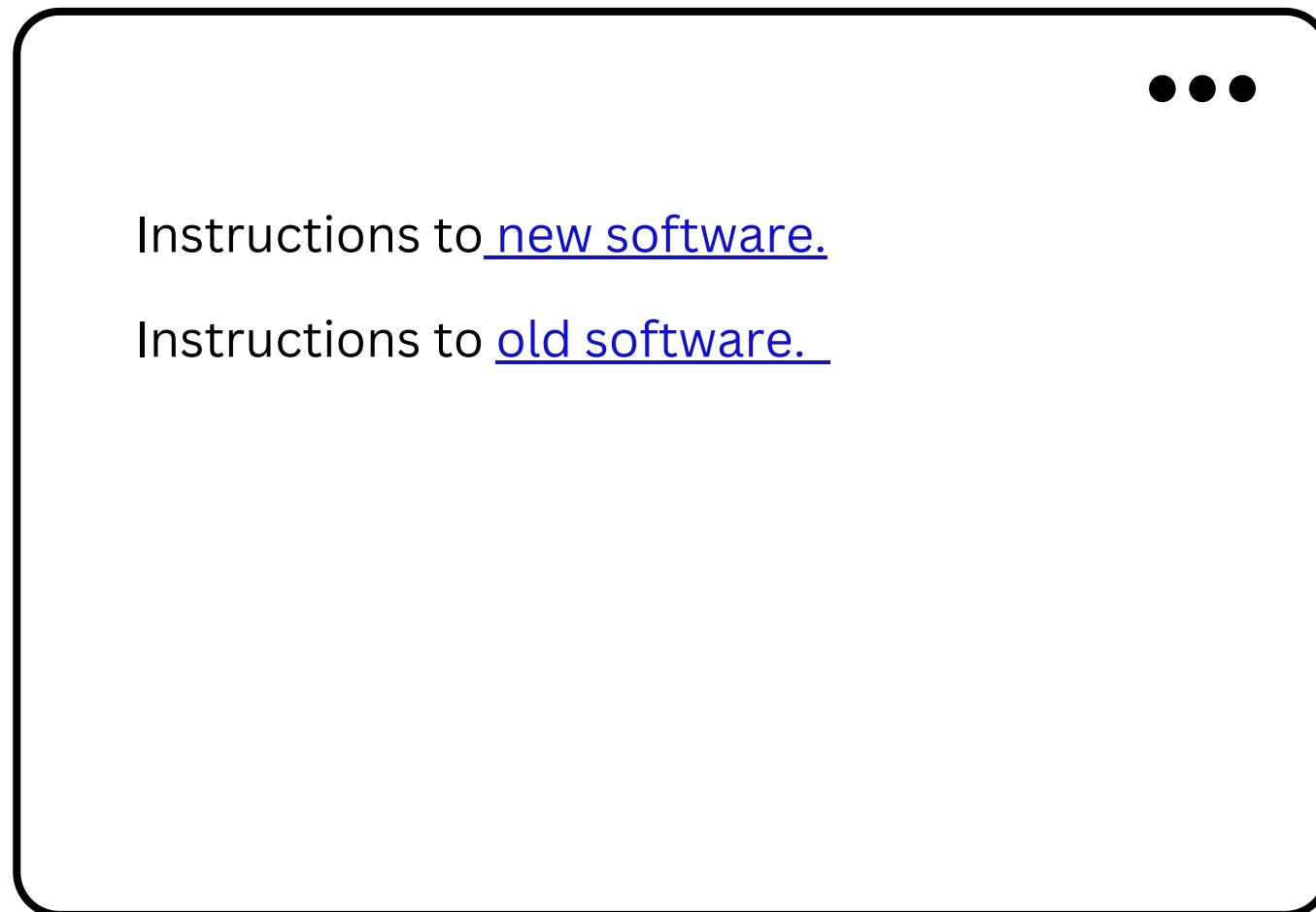
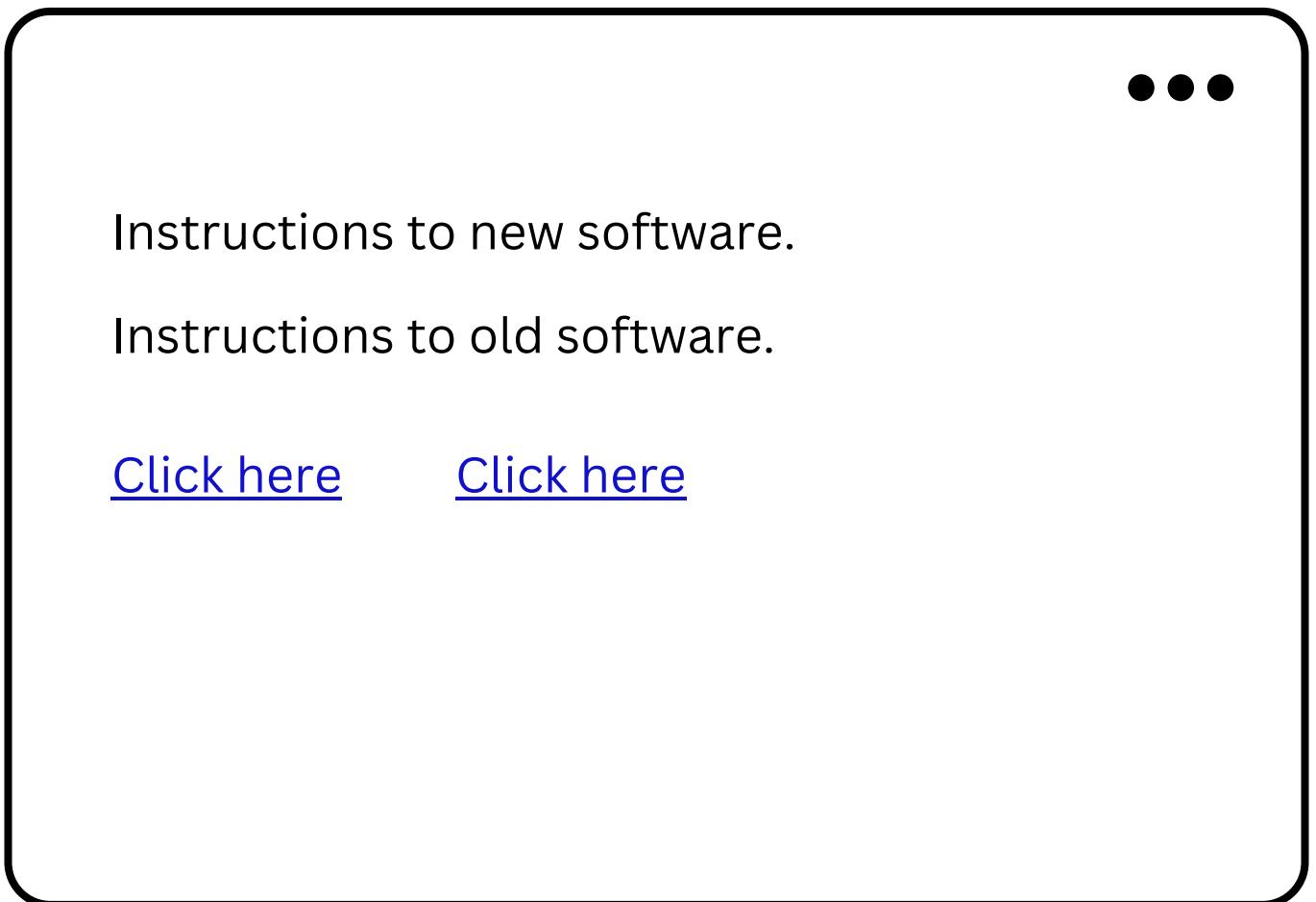


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1	Reading Chapter 1-3	Jan 20.
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the simple table

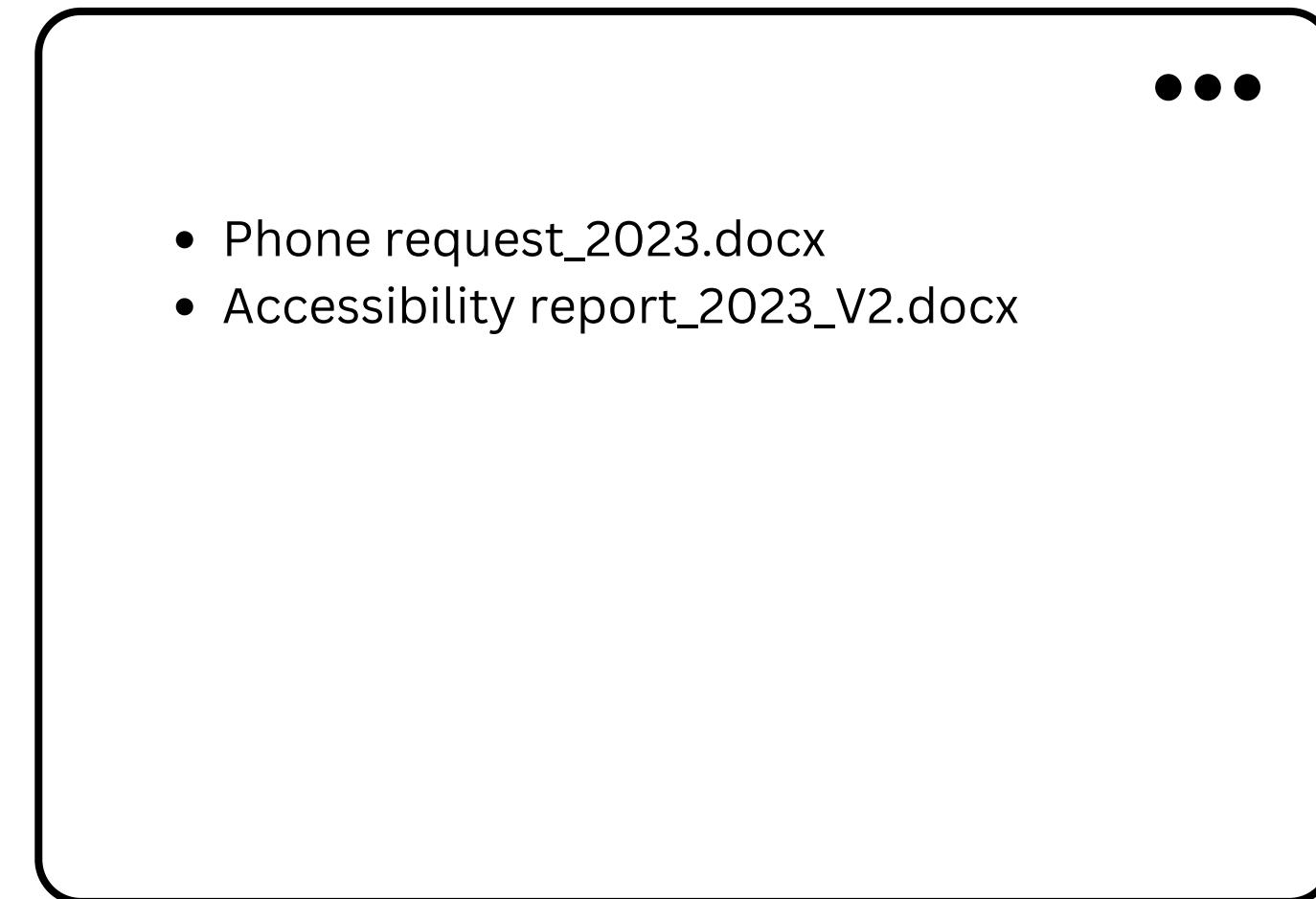
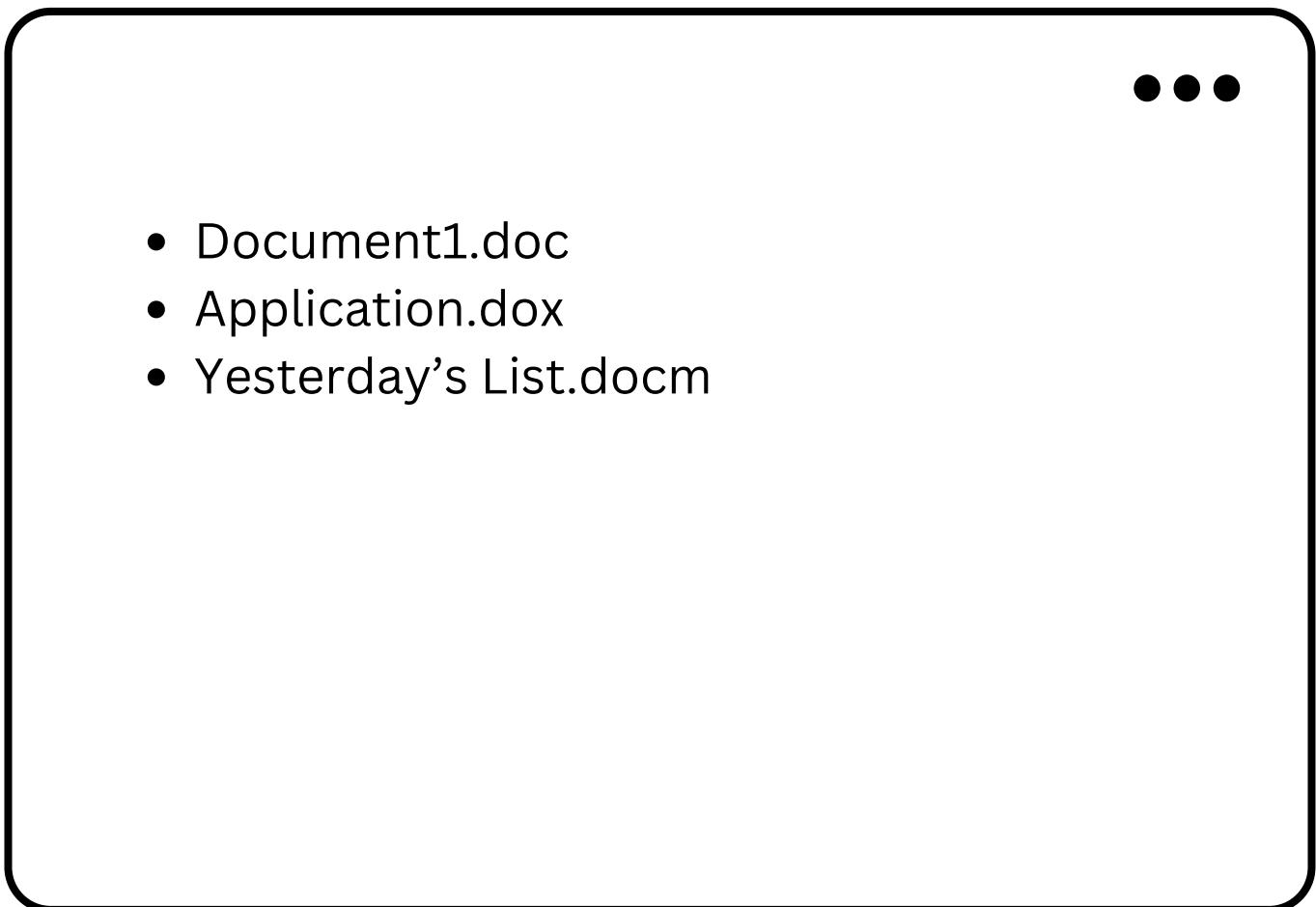
ACCESSIBLE WORD DOCUMENTS

Don't create ambiguous names for Links



ACCESSIBLE WORD DOCUMENTS

Don't create ambiguous names for files

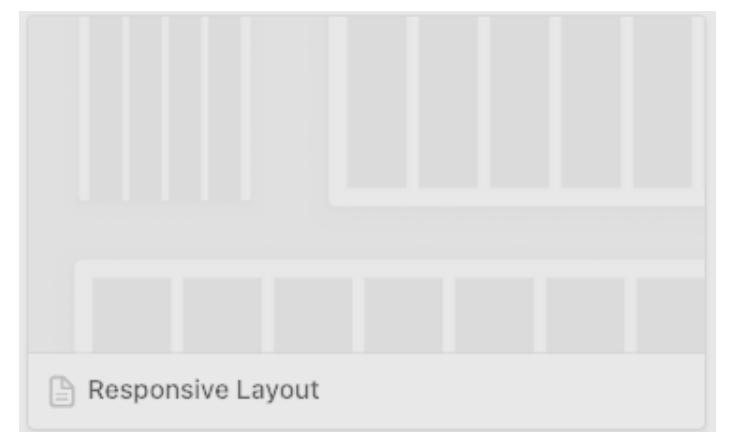
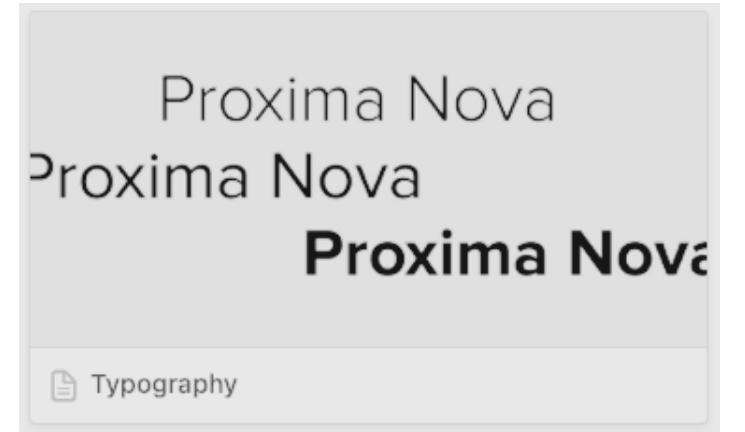
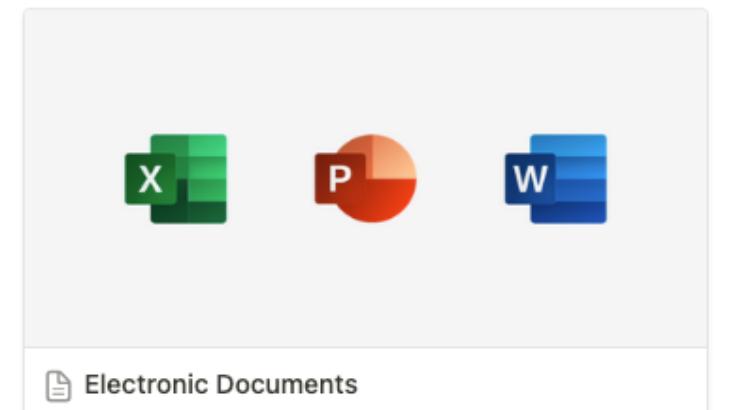
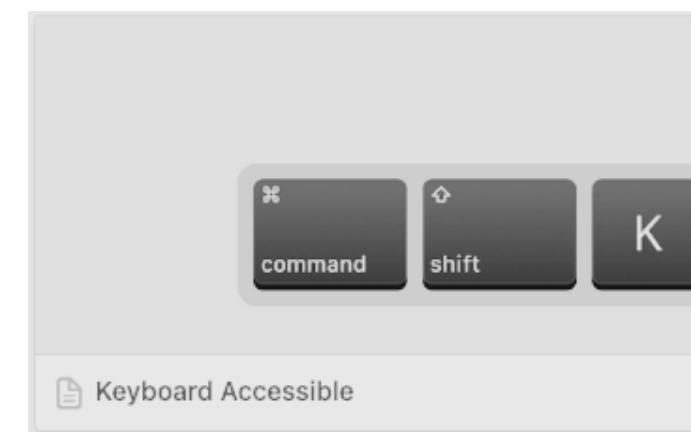
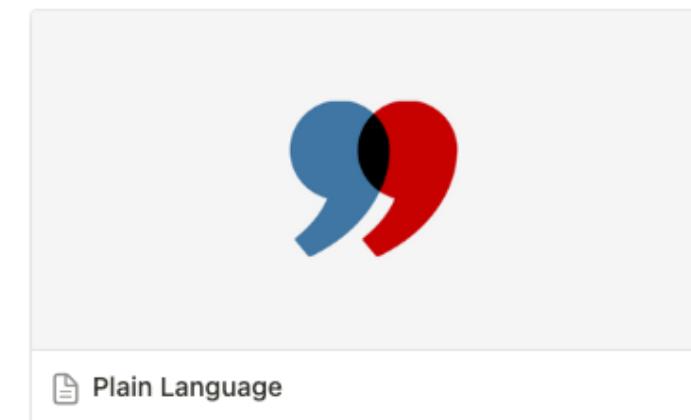
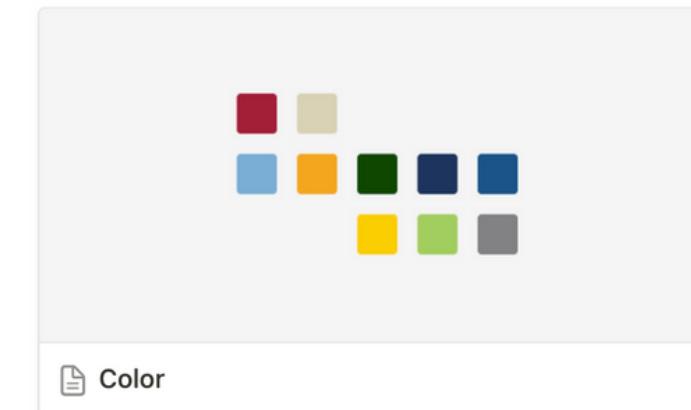
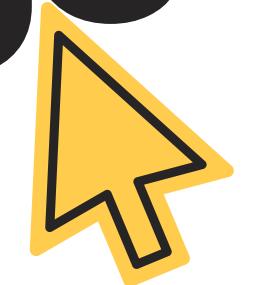


VIEW MORE

	Organize Content	correct reading order if only 'tabs' or spaces are used to create the appearance of columns		
<input type="checkbox"/>	Use Built-in Features to Create Layout and Data Tables	Layout tables and simple data tables CAN be made accessible Complex data tables CANNOT be made accessible	- Tables are pictures - Table cells are merged	See the page
<input type="checkbox"/>	Identify Distinct Languages	Screen Readers cannot infer meaning from just text alone, it is important to identify distinct languages.	See the page	See the page
<input type="checkbox"/>	Create Unambiguous Names for Links	Create the hyperlink using the descriptive text.	See the page	See the page
<input type="checkbox"/>	Duplicate Vital Information in Headers, Footers and Watermarks	Screen readers do not automatically read information contained in the: Headers, Footers and Watermarks.	See the page	See the page
<input type="checkbox"/>	Create Accessible Images and Other Objects	Assistive Technology can not infer meaning from images or other graphical objects	The alt text:"logo.jpg" The alt text for the decorative image	See the page
<input type="checkbox"/>	Create Accessible Textboxes	Screen readers and other assistive technology cannot access information in text boxes unless they are placed 'in line with text'.	See the page	See the page
<input type="checkbox"/>	Use Color and Other Sensory Characteristics Plus Text to Convey	Sensory characteristics include: • Size • Shape	See the page	See the page

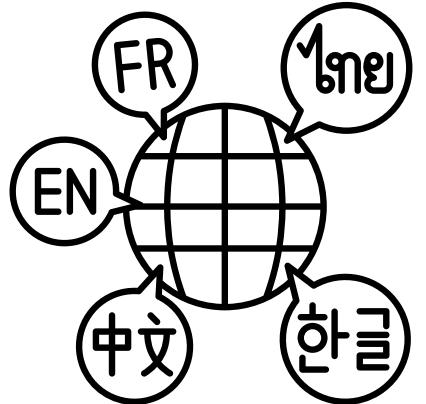
- a full checklist for Microsoft Word, PPT and Excel with good and bad examples.

Let's talk about Plain language

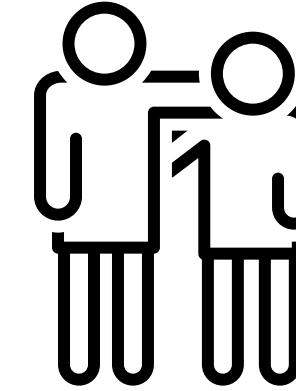


PLAIN LANGUAGE

Whom does it benefit?- County Citizens



People use English as their second language



Everyone

Example 1

As a person who immigrated 2 years ago, I still can not say I speak a good English.

I want to report a house theft using the sheriff online case system,

so that I can calm down and get my belongings back soon.

Example 2

As a person with a Phd degree taking care of 3 kids while working.

I want to know the clear and concise procedures to file the tax return,

so that I can avoid errors ,and feel cheerful.

PLAIN LANGUAGE

Whom does it benefit?- County Employees

• • •

As a Communication Specialist, I'm always required to write in plain language.
I want to learning from practical examples, not just principles,
so that I can swiftly apply plain writing techniques within the context of my county's environment.

Communication Specialist

• • •

As a Hotline Casework, I talked to diverse population daily and answered their inquiries.
I want our communication to flow smoothly,
so that I can solve their issues.

Hotline Casework

Federal plain language guidelines

1. Write for your audience
2. Organize the information
3. Choose your words carefully
4. Be concise
5. Keep it conversational
6. Design for reading
7. Follow web standards
8. Test your assumptions

PLAIN LANGUAGE

Case Study

• • •

Real property is valued every odd-numbered year. Property is classified according to its actual use as of Jan. 1 of the given year. The property's classification defines the rate at which the property will be assessed. Property that is classified residential is currently assessed at 6.765%, and multifamily at 6.765% of the actual value for the property. Agricultural is 26.40% and all other Agricultural Business is 27.90%. Commercial Renewable Energy and Commercial Renewable Personal Property is 26.40% and all other commercial property is 27.90%.

This online search program will help you find real estate information in Arapahoe County only. If you are looking for business personal property please use our [Business Personal Property Search](#).

Residential, Commercial, Ag and Vacant Land Parcel Search

PLAIN LANGUAGE

Case Study



"Real property is valued every odd-numbered year."



"We value real property every odd-numbered year
(such as 2021 or 2023)"

- **Use pronouns to speak directly to your reader**

By using "we", we state clearly what our agency requires, what our agency's responsibilities are. And makes our agency more approachable.

PLAIN LANGUAGE

Case Study



"This online search program will help you find real estate information in Arapahoe County only. If you are looking for business personal property please use our Business Personal Property Search."



"Use the Business Personal Property Search if you are looking for business personal property.
Use this online search program below if you are looking for real estate information in Arapahoe County only."

- **Sloppy word placement can cause ambiguity.**

We should put long conditions after the main clause. More clear and strong when the sentence starting with an action.

PLAIN LANGUAGE

Case Study

- **Organize the content**

Use tables and lists to shorten and clarify complex material easier to understand. And it helps your audience see relationships that are often times hidden in dense text. Moreover, the tables gives the document more white space, making it more appealing to the reader.

PLAIN LANGUAGE

Case Study



“Property that is classified residential is currently assessed at 6.765%, and multifamily at 6.765% of the actual value for the property. Agricultural is 26.40% and all other Agricultural Business is 27.90%.

Commercial Renewable Energy and Commercial Renewable Personal Property is 26.40% and all other commercial property is 27.90%.”



The common property types assessment rate:

the Propter Type	Tax Assessment Rate
Residential	6.765%
multifamily	6.765%
Agricultural	26.40%
All other Agricultural Business	27.90%
Commercial Renewable Energy	26.40%
Commercial Renewable Energy	26.40%
all other commercial property	27.90%

The percentage refers to to the actual value for the property

VIEW MORE

report immediately for non-emergency cases.

BEFORE

The screenshot shows the homepage of the Arapahoe County Sheriff's Office Online Reporting System. It features a header with the county seal, language options (English, Spanish), and a search bar. Below the header, there is a large banner with the text "Welcome to the Arapahoe County Sheriff's Office Citizens Online Police Reporting System". The banner includes a note about emergency cases and a link to the sheriff's office. The main content area contains several sections of text and links related to reporting incidents like vehicle theft, lost property, and animal control. At the bottom, there is a "Next" button.

AFTER

The screenshot shows the redesigned version of the Arapahoe County Sheriff's Office Online Reporting System. The layout is cleaner and more organized. The "Welcome to the Arapahoe County Sheriff's Office Citizens Online Police Reporting System" banner is at the top. Below it, the first question asks if the incident is an emergency, with "Yes" and "No" radio buttons. A note says to call 911 if yes. The second question asks if the incident happened within specific areas, listing the City of Centennial, Town of Foxfield, Town of Deer Trail, and the Arapahoe County portions of the Town of Bennett. The third question asks if the user knows the suspect, with "Yes" and "No" radio buttons. The fourth question asks if the deputy sheriff took the original report, with "Yes" and "No" radio buttons. A note says to contact the sheriff's office if no. The fifth question asks if the incident was an automobile theft, with "Yes" and "No" radio buttons. A note says to contact the sheriff's office if no. Both screens have a "Next" button at the bottom right.

- Make it easy to follow

People come to the online police reporting system in an emotional state and have a specific task in mind. They want to report their case quickly, so it's important to make the process easy to understand.

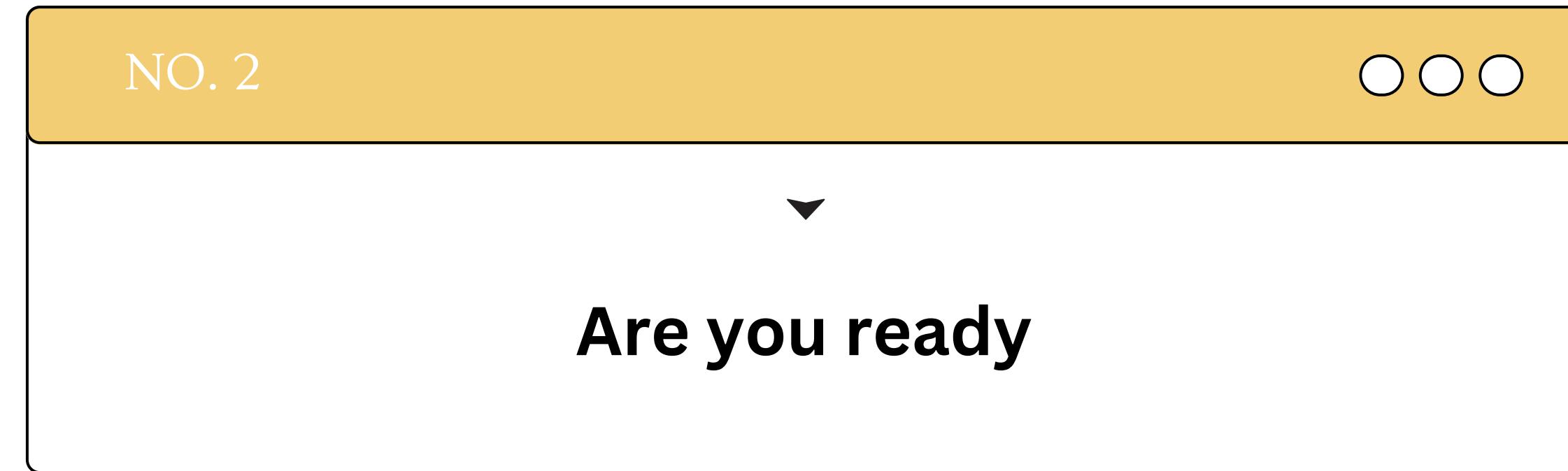
The homepage of the online reporting system consists of two main pieces of content:

1. Explains the situations where this system should not be used

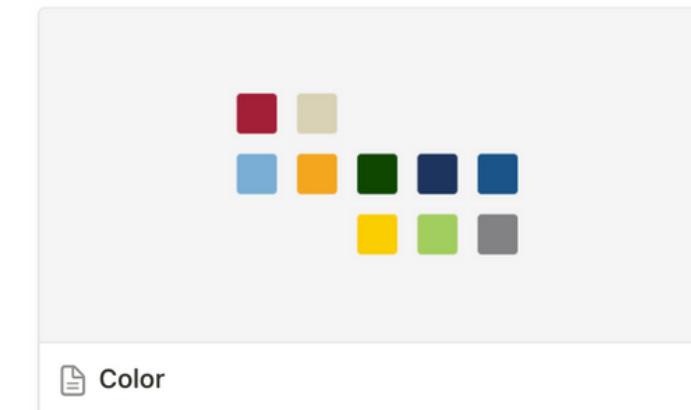
- Another case study of online cases reporting system

PLAIN LANGUAGE

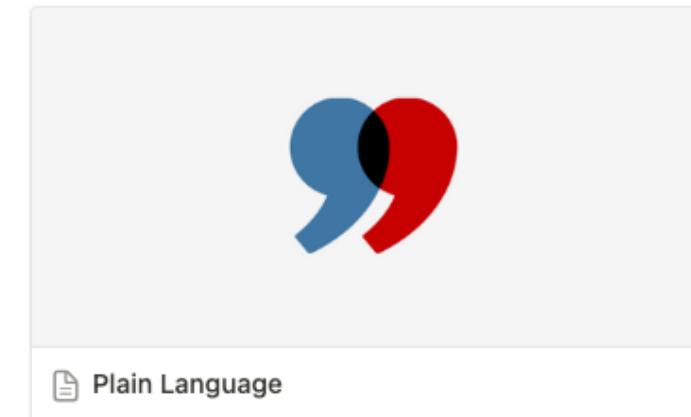
Quiz time



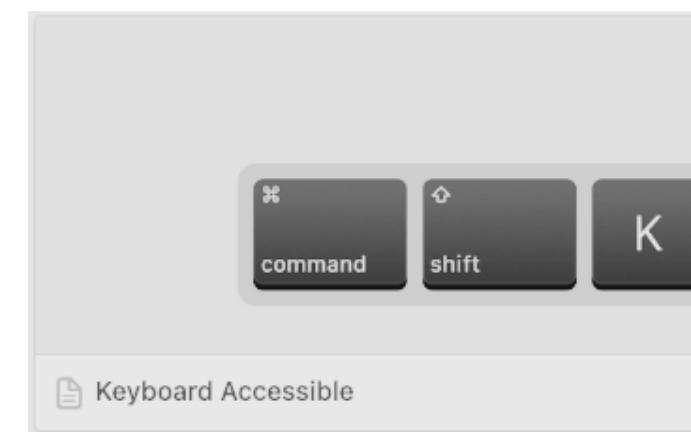
Let's talk about Typography



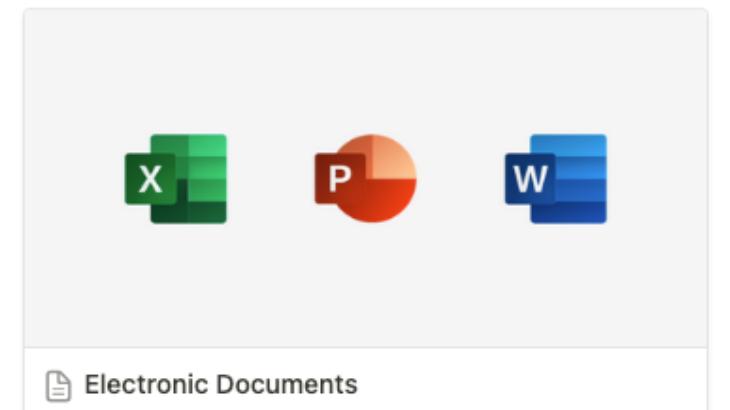
Color



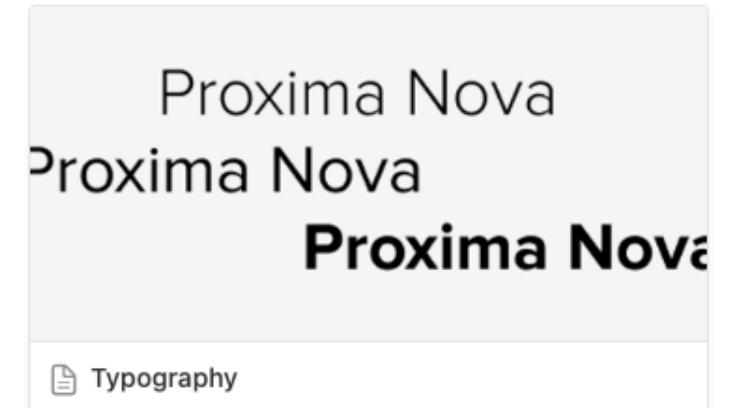
Plain Language



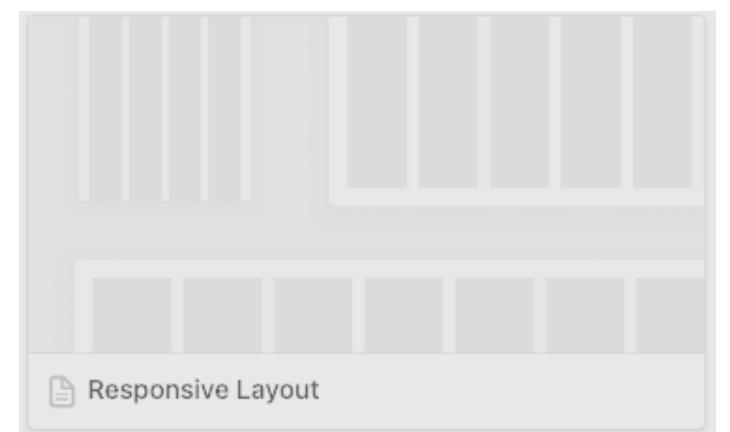
Keyboard Accessible



Electronic Documents



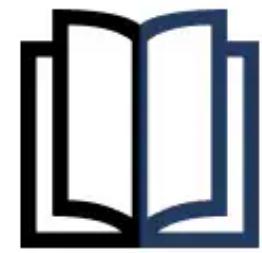
Typography



Responsive Layout

ACCESSIBLE TYPOGRAPHY

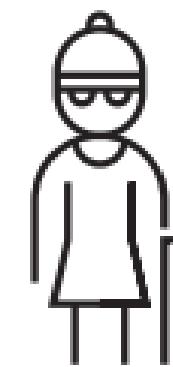
Whom does it benefit? - County Citizens



Readers with Dyslexia

Example 1

As a person with dyslexia, I struggle with recognizing and differentiating letters, words, and characters.
I want the fonts have distinct letterforms,
so that I can differentiate between letters that might otherwise appear similar or confusing.



Eye-Surgery Patient

Example 2

As a person after doing an eye surgery, I have a temporarily compromised vision.
I want enlarge the reading material's text and line spacing,
so that I can not feel crowded and overwhelming.

ACCESSIBLE TYPOGRAPHY

Whom does it benefit? - County Employees

As a developer, I frequently find myself defining text styles across various sections of a project. I want consistent and well-designed set of typography elements and guidelines, so that I can apply the right design quickly as projects grow and evolve.

Developer

As a UI Designer, I need to ensure consistent text styles across different device platform. I want to follow a complete and clear font standards, so that I can dedicate more focus to addressing other design requirements.

UI Designer

ACCESSIBLE TYPOGRAPHY

Text Styles

Desktop text styles

These styles are used on larger screens.

Display sizes

Large display

text-display-lg-desktop font-light

Proxima Nova Light </>

Activate font

Arapahoe County

```
font-weight: 300  
font-size: 72px  
line-height: 76px  
letter-spacing: -2px
```

Small display

text-display-sm-desktop font-light

Proxima Nova Light </>

Activate font

Arapahoe County

```
font-weight: 300  
font-size: 48px  
line-height: 52px  
letter-spacing: -1px
```

Desktop text styles

Mobile text style

These styles follow the same guidelines as the desktop styles but are smaller in size for use on smaller screens.

Display sizes

Large display

text-display-lg font-light

Proxima Nova Light </>

Activate font

Arapahoe County

```
font-weight: 300  
font-size: 44px  
line-height: 48px  
letter-spacing: -1px
```

Mobile text styles

ACCESSIBLE TYPOGRAPHY

the Font for Readers with Dyslexia

OpenDyslexic-Regular.otf

Open-Dyslexic

OpenDyslexic-Italic.otf

Open-Dyslexic

OpenDyslexic-Bold.otf

Open-Dyslexic

OpenDyslexic-BoldItalic.otf

Open-Dyslexic

OpenDyslexic font styles

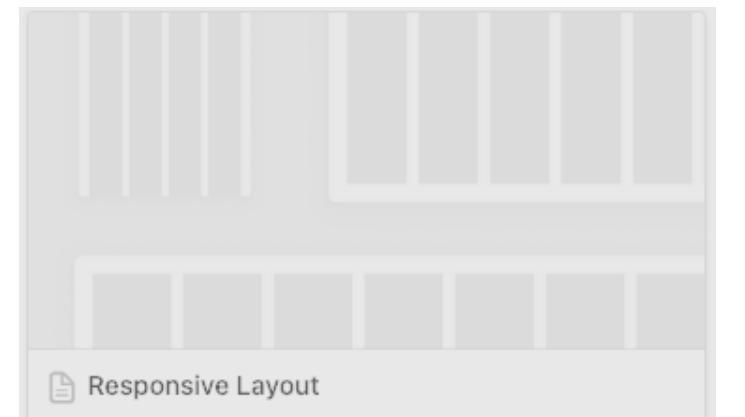
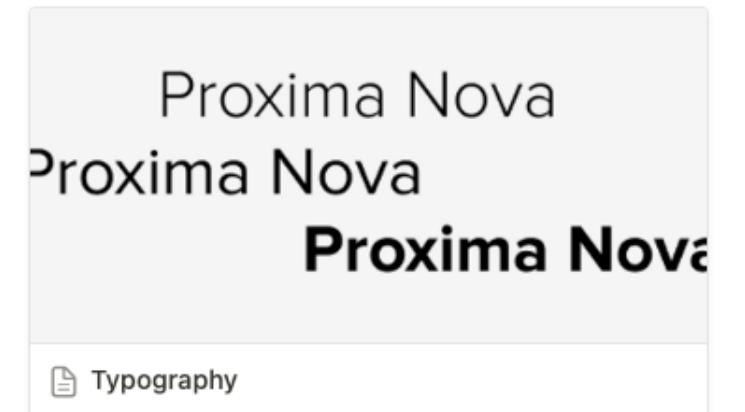
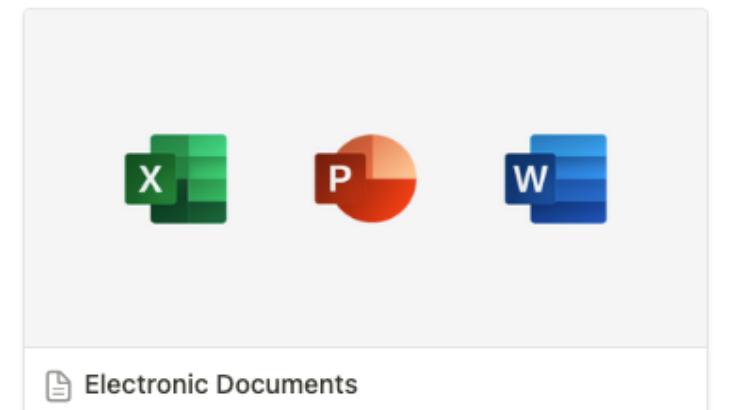
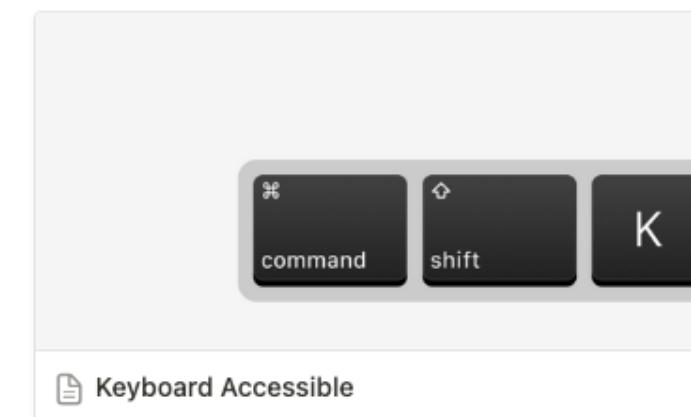
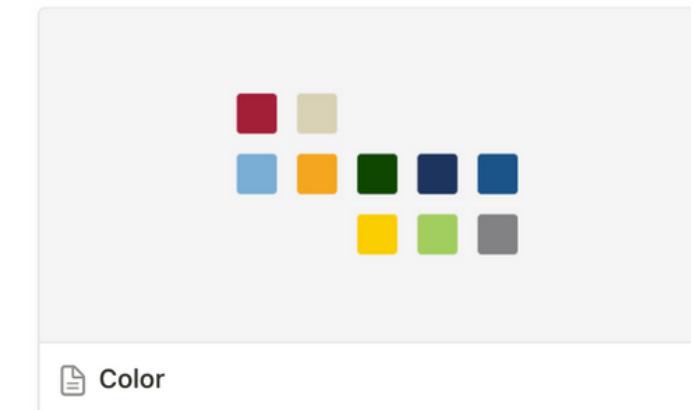
1

Providing font option via clicking the handicapped icon 

2

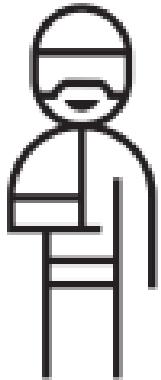
Many operating systems and browsers allow users to configure font sizes, font types, page zoom, to turn on and off animations.

Let's talk about Keyboard Accessible



KEYBOARD ACCESSIBLE

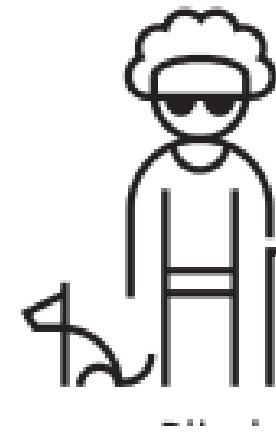
Whom does it benefit? - County Citizens



Arm-injured People

Example 1

As a person hurt one of my arm, now it's challenging for me to do the keyboard and mouse coordination task.
I want the core functionality of application I use can be all keyboard accessible,
so that I can complete my request.



Screen Reader User

Example 2

As a person who lost my vision, I rely on screen reader to navigate my computer.
I want to hear spoken feedback about the elements in the interface and have the ability to access editable areas,
so that I can experience internet smoothly.

KEYBOARD ACCESSIBLE

Whom does it benefit? - County Employees

As a Developer, keyboard accessibility is not a new term for me. I want a convenient code reference that outlines actionable steps I can take to enhance accessibility in my projects, so that I know what I can do to ensure the accessibility.

Developer

As a Test Engineer, I ensure the quality before delivering to end-users. I want to follow a detailed testing procedure, so that I reduce the likelihood of post-release issues.

Test Engineer

2.1 Keyboard Accessible

Make all functionality available from a keyboard.

KEYBOARD ACCESSIBLE

Accessible HTML



Using `alt="save"` so assistive technologies can present the “save” button

```
<input type="image" src="https://www.pngall.com/wp-content/uploads/12/Save-Button-PNG-Photo.png"  
alt="save" title="save the file" />
```



A large, light blue button with a rounded rectangular shape and a slight shadow. The word "Save" is written in a bold, black, sans-serif font in the center of the button.

Save

...

KEYBOARD ACCESSIBLE

Inaccessible HTML



Using `` element so assistive technologies can present the “save” button

```
cif> 
```



...

2.1.2 No Keyboard Trap

A keyboard trap means you're stuck on a component and can't get out using just the keyboard

KEYBOARD ACCESSIBLE

No Keyboard Trap



In this example, the 'Last name' field cannot be accessed, trapping the keyboard.

First name

Middle name

Last name

KEYBOARD ACCESSIBLE

No Keyboard Trap



Using `.onblur` event, so the focus is trapped.

```
<form action="">
  <div>
    <label for="input1">First name</label>
    <input id="input1" type="text" />
  </div>
  <div>
    <label for="input2">Middle name</label>
    <input id="input2" type="text" />
  </div>
  <div>
    <label for="input3">Last name</label>
    <input id="input3" type="text" />
  </div>
</form>
```

```
var $input2 = document.getElementById('input2');
$input2.onblur = function (event) {
  this.focus();
}
```

First name

Middle name

Last name

VIEW MORE

- Speech users: They can avoid accidentally firing batches of them at once. This will allow speech users to make full use of programs that offer single-key shortcuts to keyboard users



- Users with some cognitive disabilities: Allowing all shortcut keys to be remapped can help them, since the same shortcuts can be assigned to perform the same actions across different applications.



- Keyboard-only users who have dexterity challenges: They can also be prone to accidentally hitting keys. Those users would be able to avoid problematic single character shortcuts by turning them off or modifying them to include at least one non-character key.

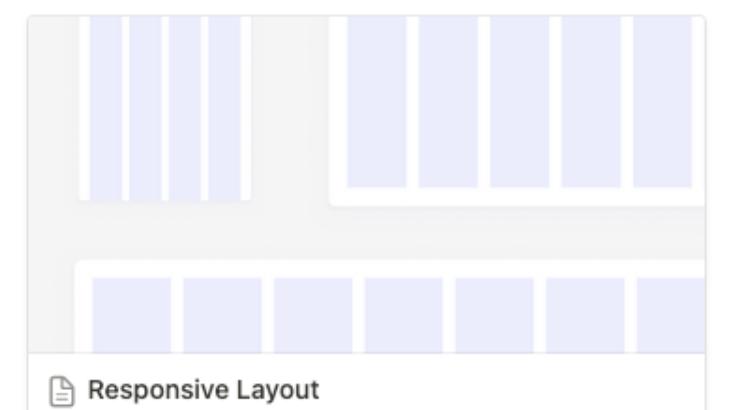
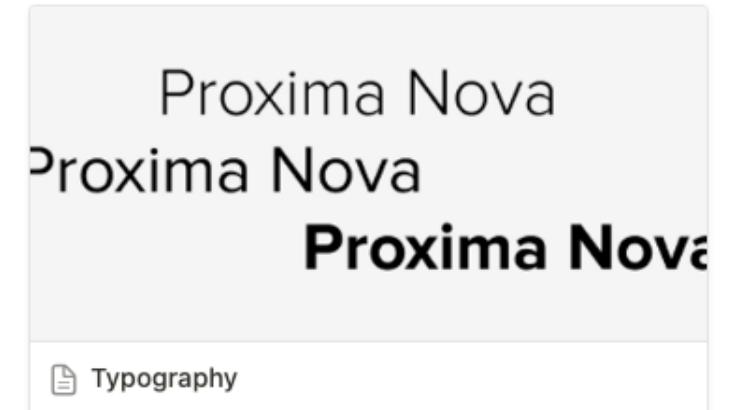
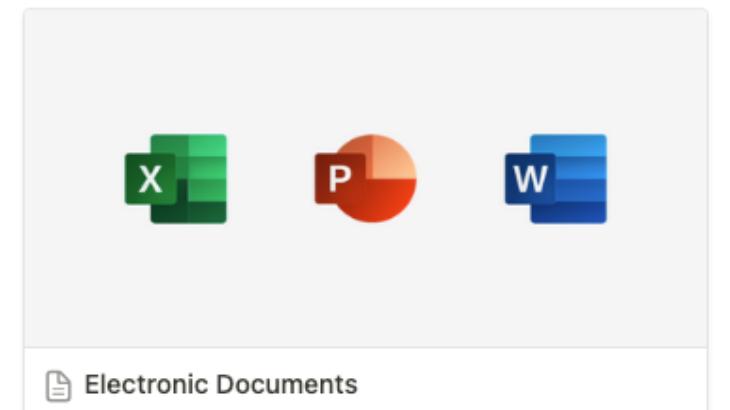
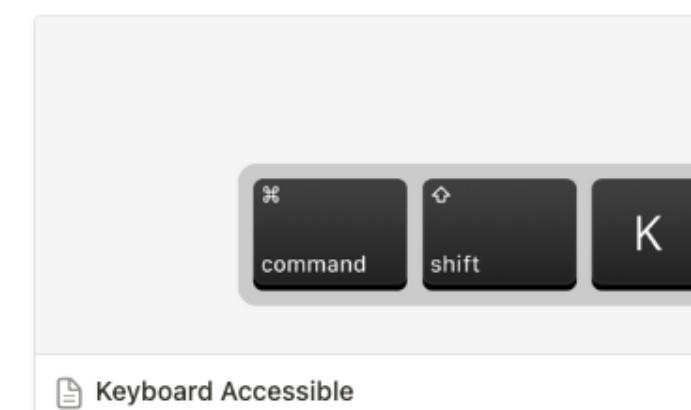
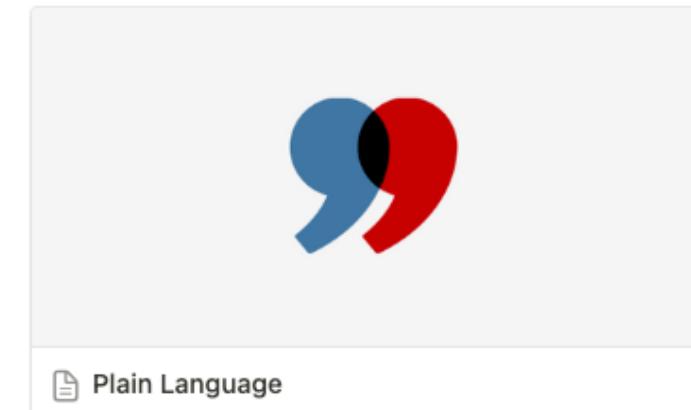
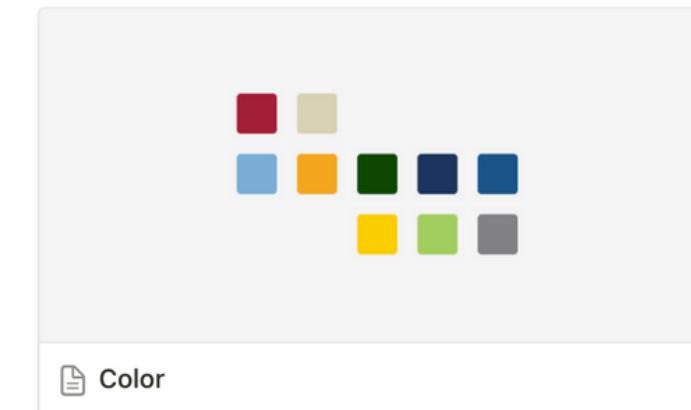
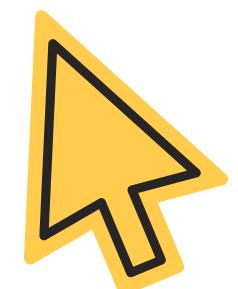


- The county staff who uses intelligent keyboard to improve their work efficiency.



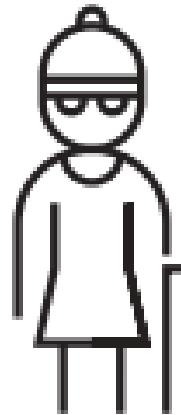
- The detailed WCAG 2.1 Keyboard Accessible
- Only pointing device-specific event handlers examples
- Testing task flow charts
- Provide the access to turn off or reconfigure keyboard shortcuts

Let's talk about Responsive layout



RESPONSIVE LAYOUT

Whom does it benefit? - County Citizens



Visual impaired people

Example 1

As a person with low vision, I have difficulty reading small texts.

I want to zoom to 200%,
so that I can read with ease.



As a person with dyslexia

Example 2

As a person with dyslexia, I struggle with recognizing and differentiating letters, words, and characters.

I want to enlarge the text and line spacing,
so that I can read the digital content with ease.

RESPONSIVE LAYOUT

Whom does it benefit? - County Employees

•••

As a IT leader in a team, my team is growing and there are some new-hires.

I want to provide an accessibility development tutorial during their onboarding,

so that I don't have to intervene to rectify accessibility issues later

Developer

•••

As a employee in the county, I understand the importance of ensuring equal accessibility for all our digital services by next July.

I want to learn how to identify accessibility issues in my daily tasks,

so that I can make our county a more inclusive and user-friendly place for everyone.

Everyone

1.4.4 Resize text

text can be resized without assistive technology up to 200 percent without loss of content or functionality.

RESPONSIVE LAYOUT

Best practices



Using rem to specify the size

```
.panel--large { font-size: 1.2rem; }

.panel--small { font-size: 0.8rem; }
```

A large panel

Consider the ways you can leverage relative units for dynamic sizing of your modules.

A small panel

Consider the ways you can leverage relative units for dynamic sizing of your modules.

RESPONSIVE LAYOUT

Best practices



Using pixels to specify the size

```
<div style="height: 200px; width: 400px; border: 1px solid; text-align: center;">
  <h2>Hello, world</h2>
</div>
```



VIEW MORE

The screenshot shows a web page with two main sections. The left section is titled "GeeksforGeeks" and contains the following HTML code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <style>
        body {
            font-family: sans-serif;
            line-height: 1.5;
            padding: 0 16px;
        }

        article {
            width: 66%;
            float: left;
        }

        aside {
            width: 33%;
            float: right;
        }

        h1 {
            margin-bottom: 0;
        }
    </style>
    <title>GeeksforGeeks</title>
</head>

<body>
    <div style="text-align: center;">
        <h1 style="color: green;">
            GeeksforGeeks
        </h1>
    </div>

```

The right section is also titled "GeeksforGeeks" and has a heading "Liquid layout". It includes a brief history of web development, a definition of liquid layout, and a note about its performance on different screen sizes.

- Examples of unresponsive layouts
- The liquid layout example
- The UI design examples for accessing zoom or text resizing

NEXT STEPS

- Migrate the toolkit to the intranet
- Expand the toolkit
- Incorporate researcher's findings
- Annual Accessibility Report

...

LEARNINGS

- Support
- Collaboration

...

THANK YOU

NO. X



Now, the questions from you!