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About Me:

- 1. I am a digital accessibility evangelist
- 2. Author of an Accessibility Blog & write technical papers
- 3. Want to enable all institutions to adopt accessibility technology so that it empowers everyone
- 4. Love meeting people through meetups and also mentor few in this space.
- 5. Fun bit: I am a foodie. Give me food!!!

What is Accessibility

"The power of the Web is in its universality. Access by everyone regardless of disability is an essential aspect."

- Tim Berners-Lee, W3C Director and inventor of the World Wide Web

ACCESSIBILITY GUIDELINES

- WCAG (Web Content Accessibility Guidelines)
- ATAG(Authoring Tool Accessibility Guidelines)
- UAAG(User Agent Accessibility Guidelines)



INCLUSIVE DESIGN PRINCIPLES

- > PROVIDE COMPARABLE EXPERIENCE
- > CONSIDER SITUATION
- > BE CONSISTENT
- > GIVE CONTROL
- > OFFER CHOICE
- > PRIORITIZE CONTENT
- > ADD VALUE

SOURCE: https://inclusivedesignprinciples.org/

WCAG PRINCIPLES



- Perceivable
- Operable
- Understandable
- Robust

Use Landmarks

- <header>
- <nav>
- <main>
- <footer>

Use Headings

- <h1>
- <h2>
- Example: <h1>Intro to Accessibility</h1>
- Using ARIA
- this is a heading

Use Lists

- apple
- mango

- Using ARIA
- <div role="list">
- apple
- mango
- </div>

Group Related Form Controls

- <fieldset><legend>>Gender</legend>
- <label for="male">male</label>
- <input type="radio" id="male">
- <label for="female">female</label>
- </fieldset>

Using ARIA

- <div role="radiogroup" aria-label=gender>
- <label for="male">male</label>
- <input type="radio" id="male">
- <label for="female">female</label>
- <input type="radio" id="female">
- </div>

Place Holder Text

- Don't use placeholder as label
- Check color contrast of the placeholder text
- Placeholder's disappear once the form control gets focus
- <input type="text" placeholder="first name">

Visible Focus

Don't do

```
:focus {
    outline: none
}
```

Do This

```
:focus {
    color: #333;
    outline: #ccc solid 1px;
}
```

Links & Buttons

- Use links to redirect to a new page
- Use buttons to perform a action

Don't do this

click here

Do this

click here to buy this bag click here

Note: aria-label overwrites the accessible name which is provided visually

Consistent navigation

Navigational elements through out the website/App should be consistent

```
Page1
<nav>
<a href="example.com>Home</a>
<a href="example.com>About</a>
<a href="example.com>Contact</a>
</nav>
Page2
<nav>
<a href="example.com>Home</a>
<a href="example.com>Contact</a>
<a href="example.com>About </a>
<a href="Services"</a>
</nav>
```

Consistent Identification

Make sure that all common components are identified with same accessible name

Page1

Page2

```
<span>search this site</span>
<input type="search" aria-label="search for products">
<button>Search Products</button>
```

Color Contrast

Make sure that your contrast follow the minimum requirement

- Regular text 4.5:1
- Large text 3:1 (Large text means 14pt bold or 18pt)

Underline Links

Links need to be differentiated from regular content

Do this

```
a {
   color: #0073e5;
   text-decoration: underline;
   transition: color 0.2s ease-in-out, background-color
0.2s ease-in-out;
}
```

Checklist To Follow

☐ Use landmarks to provide structure to the web page ☐ Use headings & lists to mark the structure of the content ☐ Use labels for form controls & group them ☐ Don't use placeholder as visible label ☐ Provide visible focus for all focusable elements □ Don't use links & buttons with name like 'Click here' & 'Read more" ☐ Ensure that navigation is consistent throughout the site or App ☐ Make sure all similar components are identified with same accessible name ☐ Confirm that that color contrast meets the necessary contrast of 4.5:1 ☐ Underline your links

References

Web accessibility laws & policies

https://www.w3.org/WAI/policies

Resources – tools / cheat sheets/manuals

https://www.digitala11y.com/web-accessibility-resources

THANK YOU