

Sapir Flank Assignment 2 lab notebook

10 Errors

1 X Missing alternative text

3 X Linked image missing alternative text

5 X Missing form label

1 X Language missing or invalid

3 Contrast Errors

3 X Very low contrast

6 Alerts

1 X No heading structure

1 X No page regions

1 X Broken same-page link

1 X Tabindex

1 X Very small text

1 X HTML5 video or audio

4 Features

4 X Alternative text

For issues involving no alternative text, this means that no alternative text was provided for the images and links, thus a screen reader would not be able to read these images. Another similar problem was identified for forms without labels which would cause the same issue for screen readers. Another issue identified was that no language was specified or an invalid language was selected; this would cause the same issue with the screen reader because the screen reader would not be able to identify which language to read. There were several low contrast issues which would be a problem for people with low vision. Making a larger contrast between background color and text makes the webpage more accessible for low vision users. No heading structures result from not having clear headings, which would impair the ability of assistive technology and no page regions present a similar issue because no main body area is identified. Another issue noted was very small text which would impair readability for all users, especially those with low vision. A positive tabindex value is present which decreases keyboard accessibility. HTML5 video or audio requires a transcript to be provided for any audio and synchronized captions for a video. Broken same-page link means that the target for a link that goes to the same page isn't specified.

Headings and Landmarks

There were no headings to identify different subsections of the webpage. The heading issue is a severe mistake because it limits the abilities of assistive technology to navigate between different sections of the website. For the heading issue I changed

```
<div id="links" class="heading2">Links</div>
```

to

```
<div id="links" class="heading2">  
<h1>Links</h1>  
</div>
```

This issue was detected by Wave (the automatic accessibility evaluator).

Good Alternative Text for Images

For issues involving no alternative text, this means that no alternative text was provided for the images and links, thus a screen reader would not be able to read these images. The alternative text issue for images is a severe mistake because it limits those who have visual impairments from understanding which images are displayed on the webpage. These issues were detected by Wave (the automatic accessibility evaluator).

For the alternative text issue I changed

```

```

to

```

```

For the alternative text issue I also changed

``
to

``

For the alternative text issue I also changed

``
to

``

Form Labels

An issue that was detected were forms without labels which would prevent screen readers from being able to help those with visual impairments know that there were forms and what the forms were used for. This issue is a severe mistake because it limits those who have visual impairments from understanding which type of forms and what kind of information these forms require. These issues were detected by Wave (the automatic accessibility evaluator).

For the Label issue I changed

`<input name="fn" type="text" size="10" id="fn">`

to

`<label for="fn"> What is your your first name</label>`
`<input name="fn" type="text" size="10" id="fn">`

For the Label issue I also changed

`<input name="mi" type="text" size="1" id="mi">`

to

`<label for="mi"> What is your your middle initial</label>`
`<input name="mi" type="text" size="1" id="mi">`

For the Label issue I also changed

`<input name="ln" type="text" size="10" id="ln">
`

to

```
<label for ="ln"> What is your your last name </label>
```

```
<input name="ln" type="text" size="10" id="ln"><br>
```

Form Widgets without Semantics

An issue that was not detected were forms widgets without semantics which would prevent screen readers from being able to help those with visual impairments know that the receive emails button is checked or unchecked. I changed it to have alt text that tells the user whether its checked or not (because it is an image). This issue is a severe mistake because it limits those who have visual impairments from understanding what the state of the button is (checked or unchecked). This issue was not detected by Wave (the automatic accessibility evaluator).

For this issue I changed

```
$("#receivespambutton").click(function() {  
  
    if($("#receivespambutton").children()[0].attr("src")==="pics/unchecked.png") {  
        $("#receivespambutton").children()[0].attr("src","pics/checked.png");  
        $("#spamyn").val("y");  
    } else {  
        $("#receivespambutton").children()[0].attr("src","pics/unchecked.png");  
        $("#spamyn").val("n");  
    }  
});
```

to

```
if($("#receivespambutton").children()[0].attr("src")==="pics/unchecked.png") {  
    $("#receivespambutton").children()[0].attr("src","pics/checked.png");  
    $("#receivespambutton").children()[0].attr("alt","box is checked");  
    $("#spamyn").val("y");  
} else {  
    $("#receivespambutton").children()[0].attr("src","pics/unchecked.png");  
    $("#receivespambutton").children()[0].attr("alt","box is unchecked");  
    $("#spamyn").val("n");  
}  
});
```

Video Captions

The issue was that the video did not have any captions, so I uploaded the video to youtube, added captions and then embedded the youtube video into the code. This issue is severe because people who

have audio impairments will not be able to understand what is happening in the video. This was detected by Wave (the automatic accessibility evaluator), it was detected as a HTML5 video or audio error.

original:

```
<div id="accessibilitybanner"></div>
```

```
<video width="480" height="360" id="thevideo">
  <source src="employment-movie.mp4" type="video/mp4">
</video>
```

I changed it to this:

```
<div id="accessibilitybanner"></div>
<iframe width="480" height="360"
  src="https://www.youtube.com/embed/6kELMajSvN8">
</iframe>
```

Tab Order & Visible Focus

The issue was that there was a Tabindex value that was greater than 1 (the tabindex value was 5) which specifies a specific navigation order which results in confusion and decreased keyboard accessibility, so I deleted the tabindex value. This issue is severe because people who have visual impairments might not be able to navigate the web page effectively because their screen reader might get confused. This issue was detected by Wave (the automatic accessibility evaluator).

```
<div id="videoplayer" tabindex="5">
```

to

```
<div id="videoplayer">
```

Color Contrast

The issue was that there wasn't enough of a color contrast between the words and the background. This issue would limit people who have visual impairments who might not be able to read the words on the screen because of the lack of color contrast. This issue is probably not as severe as other issues, because a person could probably use text to speech if they couldn't read what was on the page, but this would not be an ideal situation, and we should strive to make technology that is accessible as possible. This issue was detected by Wave (the automatic accessibility evaluator).

I changed the color from (in the css file)

color: gray;

to

color: black;

Keyboard Access

The issue here was that the checkbox was not accessible using the keyboard thus those who cannot use a mouse would not be able to access every aspect of the website. Wave did not detect this issue. This is a severe issue because those who cannot use the mouse for whatever reason would not be able to navigate the website and click on the box.

I changed the java script file from:

```
$("#receivespambutton").click(function() {

    if($("#receivespambutton").children()[0].attr("src")=="pics/unchecked.png") {
        $("#receivespambutton").children()[0].attr("src","pics/checked.png");
        $("#spamyn").val("y");
    } else {
        $("#receivespambutton").children()[0].attr("src","pics/unchecked.png");
        $("#spamyn").val("n");
    }
});

to:
if($("#receivespambutton").children()[0].attr("src")=="pics/unchecked.png") {
    $("#receivespambutton").children()[0].attr("src","pics/checked.png");
    $("#receivespambutton").children()[0].attr("alt","box is checked");
    $("#spamyn").val("y");
} else {
    $("#receivespambutton").children()[0].attr("src","pics/unchecked.png");
    $("#receivespambutton").children()[0].attr("alt","box is unchecked");
    $("#spamyn").val("n");
}
});

$("#receivespambutton").keypress(function(enter) {
    if(enter.which == 32 || enter.which ==13) {

        if($("#receivespambutton").children()[0].attr("src") == "pics/unchecked.png") {
            $("#receivespambutton").children()[0].attr("src", "pics/checked.png");
            $("#receivespambutton").children()[0].attr("alt", "box is checked");
            $("#spamyn").val("y");
        } else {
            $("#receivespambutton").children()[0].attr("src", "pics/unchecked.png");
            $("#receivespambutton").children()[0].attr("alt", "box is unchecked");
            $("#spamyn").val("n");
        }
    }
});
```

```
});
```

I changed the html file from

```

```

to

```

```

Information Conveyed Only via Color

The issue was that there certain information was only conveyed via color. This issue would limit people who have visual impairments who might not be able to read the words on the screen because of the color of the words. This issue is probably not as severe as other issues, because a person could probably use text to speech if they couldn't read what was on the page, but this would not be an ideal situation, and we should strive to make technology that is accessible as possible. This issue was not detected by Wave (the automatic accessibility evaluator).

In the css file I Changed

```
text-decoration: none;
```

to

```
text-decoration: underline;
```