ACCESSIBLE BUTTON DROPDOWNS

Introduction

One web component that can present accessibility issues is the **button dropdown**.

A button dropdown is where a button is used to trigger the display of contextual menus - such as a list of links.

Weyland Industries ▼

Weyland Industries ▼

Weyland Industries

Stark Industries

Cyberdyne Systems

We're going to look at how to make button dropdowns more accessible.

We'll use an imaginary example of a button dropdown that allows users to switch their current organisation.

Weyland Industries ▼

Weyland Industries

Stark Industries

Cyberdyne Systems

1. Semantics

As the name suggests, the ideal element that should be used for the trigger, is the <button> element.

```
<button type="button">
  Weyland Industries
</button>
```

The <button> element should be used to trigger something (submit a form, open an accordion).

The <a> element should send users somewhere (go to a different location).

The markup for the dropdown depends on the role of the items inside. If the items are a list of links, then an unordered list of links is ideal.

```
    <a href="#">Weyland Industries</a>
    <a href="#">Stark Industries</a>
    <a href="#">Cyberdyne Systems</a>
```

2. Getting to the button

Keyboard-only users should be able to TAB to the button, which then receives focus.

3. Announcing the button

The aria-label attribute can be used to announce the button value along with any additional information to screen reader users.

For modern screen readers, the arialabel value will be announced instead of the button value.

```
<button
   type="button"
aria-label="Current company: Weyland Industries. Use the
dropdown menu to switch companies"
>
   Weyland Industries
</button>
```

The aria-haspopup="true" attribute can be used to announce the button as a "popup button" to screen readers.

This is important, as it tells screen reader users that it is a different type of button - not a normal button associated with submitting a form etc.

```
<button
   type="button"
aria-label="Current company: Weyland Industries. Use the
dropdown menu to switch companies"
   aria-haspopup="true"
>
   Weyland Industries
</button>
```

The aria-expanded="false" attribute can be used to announce the current state of the popup button to screen readers - i.e the dropdown below the button is not currently expanded.

The "false" value would need to be changed to "true" via JavaScript as soon as the user triggers the button.

```
<button</pre>
 type="button"
aria-label="Current company: Weyland Industries. Use the
dropdown menu to switch companies"
 aria-haspopup="true"
 aria-expanded="false"
 Weyland Industries
</button>
```

4. Triggering the button

For keyboard-only users, ENTER or SPACEBAR strokes should trigger the dropdown to appear.

5. After the button is triggered

If the aria-expanded="false" attribute is present in the default button state, it should be changed to aria-expanded="true" via JavaScript.

```
<button</pre>
 type="button"
aria-label="Current company: Weyland Industries. Use the
dropdown menu to switch companies"
 aria-haspopup="true"
 aria-expanded="true"
 Weyland Industries
</button>
```

Focus should immediately shift to the element and the dropdown shouldbecome visible.

This is something that most button dropdown solutions do not solve elegantly. In many cases, users trigger the button but the focus does not shift at all.

Users are either given silence after they trigger the button, or the button information is repeated again. This can cause confusion for users who cannot see that the dropdown has been triggered, but **nothing has been announced**.

The <u

```
    <a href="#">Weyland Industries</a>
    <a href="#">Stark Industries</a>
    <a href="#">Cyberdyne Systems</a>
```

If the current organisation exists in the long list of dropdown items, it may be a good ideal to flag this item as the current organisation for screen reader users.

This can be achieved with a range of different methods, including providing additional information that is hidden offscreen.

```
<
  <a href="#">
    <span class="hidden">Current company: </span>
    Weyland Industries
  </a>
 <a href="#">Stark Industries</a>
 <a href="#">Cyberdyne Systems</a>
```

8. To escape the dropdown

For keyboard-only users, the ESC keystroke should close the dropdown and return focus to the button.

To navigate through items within the dropdown

When focus has shifted to the
element, keyboard-only users should be
able to use TAB, SHIFT TAB, UP ARROW or
DOWN ARROW to move forwards or
backwards through the list items.

When users reach the start or end of the list, UP ARROW and DOWN ARROW keystrokes should then have **not have any effect**.

8. Selecting a dropdown item

Keyboard-only users should be able to select a dropdown menu item using ENTER and possibly the SPACEBAR keystrokes.

9. To leave the dropdown

Keyboard-only users should be able to TAB forward through the dropdown items and then on to other focusable items outside the dropdown.

As soon focus leave the last dropdown item, the dropdown should disappear.

Users should be able to SHIFT TAB backwards through the dropdown items and back to the button.

The dropdown should **remain open** when the button receives focus. (Users can close the dropdown by triggering the button again).