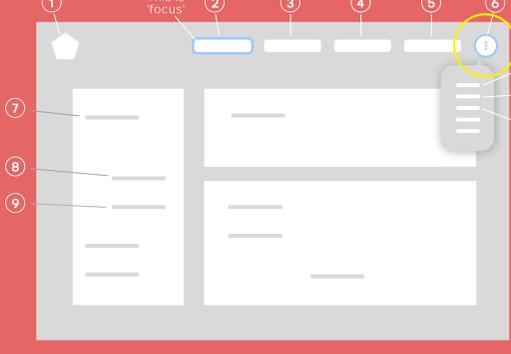


# Focus

## Tab order

- ✔ This is when we use the tab key to navigate through the website. It should follow a logical order.
- ✔ The DOM order isn't always the correct order.
- ✔ ONLY active or actionable elements should have 'focus'.
- ✔ Actionable elements should be activated with either the **spacebar** or **return key**.
- ✔ Focus should skip hidden elements.
- ✔ Focus should have an obvious color.



- ✔ Focus should **not** go directly into the popup menu here.
- ✔ The user should be given a choice to enter using up/down keys or skip it.
- ✔ If the user enters the popup menu then 7, 8, 9 will be the tab order here.
- ✔ If user skips, then tab order will proceed to the content area on the left instead.

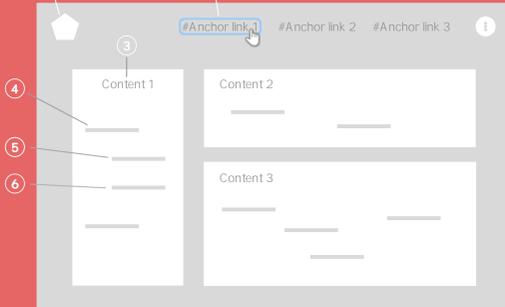
## Anchor links

Anchor links, when activated, should skip the entire site, to bring the focus to the heading of that anchor link section.

The negative consequence of this is the heading will be focusable. This is not ideal since the heading is not an active element.

In such cases, the focus can be removed with the CSS attribute:

```
outline: none;
```



✔ **Subscribe today**

When using checkboxes or radio buttons, link the text & button together.

The user can then click on the text to make a selection.

✔ ALWAYS use `<label>` tags.

- ✔ `<div tabindex = "-1">` This removes the element from the DOM order. It will not be focusable.
- ✔ `<div tabindex = "0">` This adds the element to the DOM order, but has to have focus manually added with Javascript.
- ✔ `<div tabindex = "1">` **DO NOT USE.** Gives the element a specific order within the tab order. This method can become too complex and restrictive.

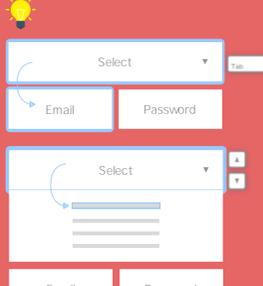
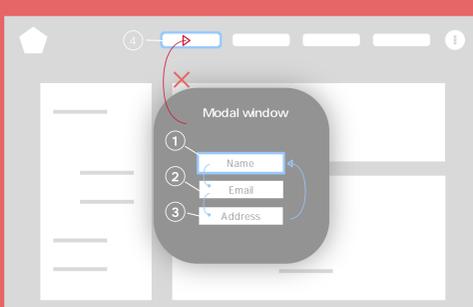
- ✔ `.focus ()` The 'focus method' adds focus to an element with tabindex.

## Keyboard traps

Keyboard traps should **ALWAYS** be avoided. However popup modal windows and popup forms should encourage a keyboard trap.

If the focus leaves the modal window it will go back onto the main page and will not be able to enter the modal window again. This is bad practice.

The focus should be trapped inside the modal window until an action has been completed. It should **not** be allowed to leave.



## Focus leaving the display

Tab key events should have focus. Mouse clicks should **not** have focus.



✔ Focus should **NEVER** go off screen.

✔ If an element or menu is hidden off screen, then the focus should skip that element and move to the next visible element.

## Skip links

A skip link behaves like an anchor link. It should be added to sites that have large content areas, or a large navbar or multiple navbars.

The skip link button should be hidden off screen, invisible to most users. It should only become visible when the tab key is pressed for the first time.

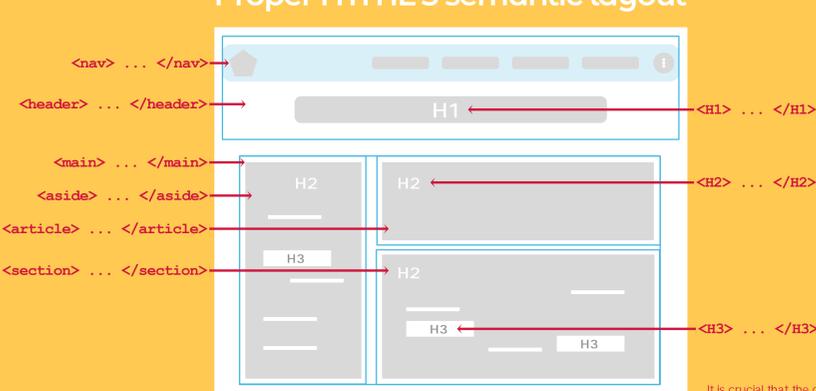
When this button is activated, the focus should skip immediately to the main content making it instantly accessible to a screen reader.

This makes the site more manageable rather than tabbing through multiple items to get to the main content.



# Semantics

## Proper HTML 5 semantic layout



✔ It is crucial that the correct HTML semantics are used. This is what the screen reader uses to label the site (see screen reader section).

## Labelling actionable items



✔ As best as possible code these elements with these properties



✔ If you use a `<div>`, `<span>` or an `<a>` tag (without a valid href) to create an actionable element, like a button or link. Bare in mind you will need to add **ARIA labelling**. Otherwise these elements will result in poor functionality for screen readers and also mess up the tab order.

✔ **Avoid** using these methods if possible.

```
<div aria-label = "name of element">
This gives a label/name to an element so that screen readers can read it.
```

```
<div aria-labelledby = "label used elsewhere">
This uses a label/name declared by another element. It behaves like a pointer.
```

## Image alt tags



```

```

# Screen reader

- ✔ CMD + F5 - starts screen-reader
- ✔ ALT + CTRL + U - opens the navigation panel

## Label well for screen readers

These tables are what the screen reader uses to navigate the site efficiently.

Having poor labelling of HTML semantics will result in these tables being empty.



The 'landmarks' and 'links' section here reflects the HTML semantics section above.

✔ If the HTML is not used correctly then these lists will be empty - resulting in poor navigational experience of the user.

## Color contrast

✔ Good contrast



✔ Bad contrast



## WC3

✔ ALL HTML/CSS code must be checked with WC3

## Resources

- ✔ [https://youtube.com/0mehAU\\_4s](https://youtube.com/0mehAU_4s)
- ✔ <https://youtube.com/WvslBKhZY>

## Dev tools auditing

✔ Lighthouse chrome extension

