

HTML and CSS (responsive)

HINTS:

- This assignment is mostly about CSS. You only require (very) minimal changes to the HTML document, if any.
- All your CSS must be in the external stylesheet `exam1.css`.

Add elements to the HTML document (0.5 mark)

Insert your name (using the `h1` element) and your student ID (using the `h2` element) in the HTML document, before the `<div>`.

Style the `div` element (1 mark)

Add the `exam1.css` style sheet to your HTML document.

Make changes to the CSS file so that the `<div>` element have the following properties:

- width 300 pixels
- height 300 pixels
- 2 pixels black border
- the element appears centered **HORIZONTALLY** on the page, regardless of the width of the browser's window.
- the text in the `p` elements inside the div should also be aligned to the center of their parent container.

You may make changes to both HTML and CSS files (ID and classes), but you must keep the HTML structure as is.

Style the `ul` and `li` elements (1.5 marks)

Make all the required changes so that:

- the list items do not have the "bullet" in front of them
- all margins and paddings are set to 0
- the list elements appear next to each other *in a row* (you must use `flex`)
- the list elements have a black background and white text
- the text is centered inside the list elements
- the list takes the full width of its parent container, and the list elements take as much space as possible
- the elements are *spaced around* the flex remaining space
- when hovered, the list elements have a red background

WARNING: when using the "Inspect element" in the browser using responsive mode, the hover feature may not work as expected (you have to click to trigger the hover state). This is fine - the requirement above is only expected to work when viewed in a desktop browser, not using the debugger/inspector in responsive mode.

Position the `ul` (1 mark)

Make all the required changes so that the `ul` element (the list) is positioned at the *bottom* of its parent container (the `div`).

WARNING: You can make changes to the HTML elements (ID and classes), but you must not change the HTML structure or the order of the elements! The `ul` element should be the last element inside the `div`.

Add responsive breakpoints (1 mark)

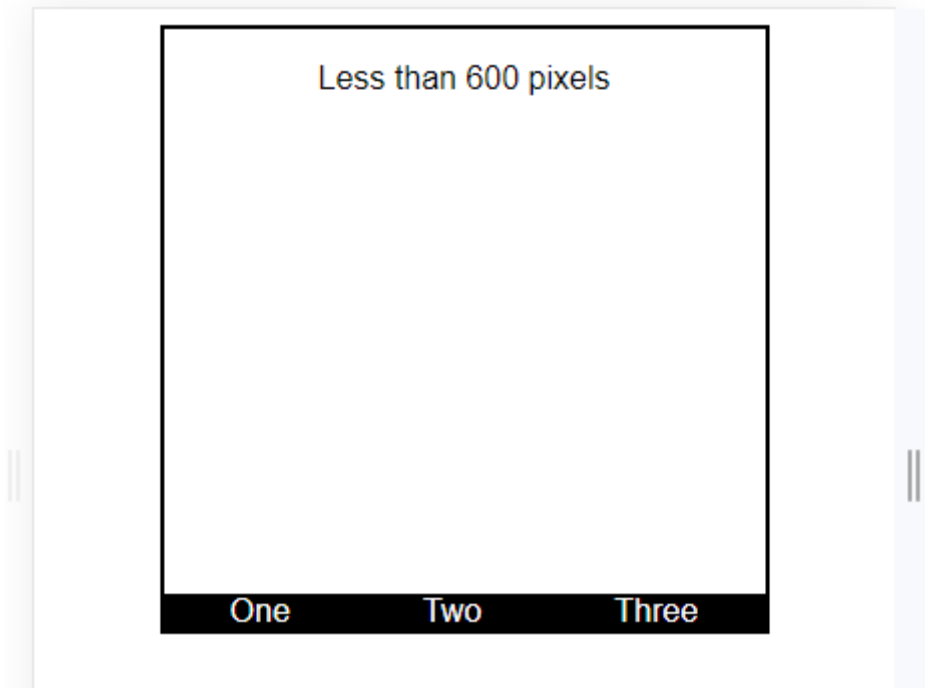
Make all the required changes so that:

- `Less than 600 pixels` is displayed when the width of the window is less than 600 pixels wide (mobile view)
- `Between 600 and 800 pixels` is displayed when the width of the window is more than 600 pixels, but **strictly** less than 900 pixels (tablet view)
- `More than 800 pixels` is displayed when the width of the window is more than 900 pixels (desktop view)

HINT: There should only be one message displayed at a time. Test your breakpoints with the following values and double check the behaviour is correct:

- 550 pixels
- 600 pixels
- 601 pixels
- 700 pixels
- 900 pixels
- 901 pixels
- 1000 pixels

See below for a reference example (the window is less than 600 pixels wide).

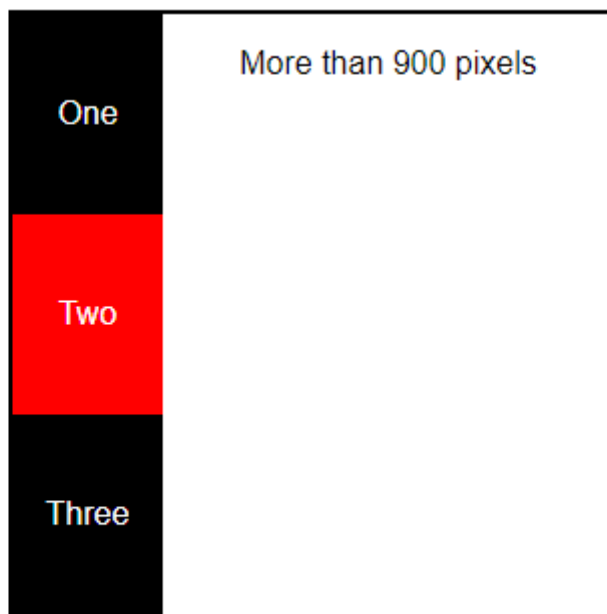


Add more responsive behaviour (2 marks)

Make all the required changes so that when the width of the browser's window is above 900 pixels, the list is displayed vertically at the left of the div.

- the width of the list is 100 pixels
- list elements take all the space available
- the text is both vertically and horizontally centered in the cell

See below for a reference example (the window is more than 900 pixels wide, and the mouse is hovering on the list element "Two").



WARNING: the HTML structure and elements order should remain the same. The display of the page when below 900 pixels should remain the same as above (see screenshot above). The `ul` element should still be the last element inside the `div`. You can change anything inside the `li` elements.