

HTTP5104 Midterm Coding Challenge

Due: Saturday, October 24 at 11:59pm

Worth: 50 marks (20% of your final grade)

Create the HTML for the page provided (see the layout PNG). Pay attention to your semantic tags as you will be marked on your HTML element usage. Add the CSS necessary to style the page to look like the given image. All colours and fonts you will need have been given in the style guide.

For font sizes, only the default font size has been given to give you a baseline. You need to figure out the rest from there. You can do this by eye (comparing against the layout) or you can measure using Photoshop (if you'd rather do so). The main thing is to get reasonably close when viewing the layouts side by side.

If you have a 4K screen and you'd like to eyeball the sizes rather than open in Photoshop, open the layout image in your browser and view at full size. Your browser should scale it so that the 72ppi image is sized appropriately in your screen.

Wrap the content in a wrapper with a max-width of 1200px.

The heading with a background image has a width of 1200px. Note that two fern images have been provided. One is a cropped version while the other is the original size. Both have been provided to give you flexibility in the way you style this (you only need to use one).

Some things to keep in mind:

- Check that the layout is consistent in Firefox, Chrome, and IE/Safari (depending on which ones you have but check in two at the least). This will help to ensure that your code is not only structured well, but also will ensure that *I* see your code correctly on my computer.
- All CSS should be in an external stylesheet. No inline styles.
- Use HTML semantic tags. The structure of your page should make sense and your elements should also make sense in the context of the content (e.g. paragraphs belong in <p> elements).
- The layout should be **centered** in the browser.
- Pay attention to font styles, sizes, and colours in your CSS. Just be sure you're using appropriate HTML elements.
- Use percentages for the container widths and for the margin between the main container and the sidebar. Top and bottom margins should use px or em for more predictable behaviour.
- Validate your HTML using the W3C validator (<https://validator.w3.org>).
- Validate your CSS using W3C's jigsaw validator (<https://jigsaw.w3.org/css-validator/>).

DO NOT USE:

- Inline CSS
-

- <hr />

You will be marked on:

- **Code Quality (5):** Is your code formatted neatly with files organized?
- **HTML Syntax (5):** Is your HTML valid without errors or warnings?

- **CSS Syntax (5):** Is your CSS valid? How well is your code structured?
- **Semantics (5):** Are you using appropriate HTML elements?
- **Accessibility - text (5):** Do all images have alt attributes? Do all section-level elements have headings, even if hidden?
- **Content (5):** Does the content match the given page?
- **Spacing (5):** Is everything spaced consistently?
- **Layout (5):** Does the layout look like the given image? Are columns placed in their appropriate locations?
- **Colours (5):** Do the colours match the image?
- **Fonts (5):** Do the fonts match the image?

This coding challenge is due **Saturday, October 24 at 11:59pm**. Zip up your files and name it in the format **HTTP5104-Challenge-JohnDoe.zip**.