

Week 4 Practical Exercises

Note:

- **Exercise 2 will be assessed as part of the Practical Set 1 submission.**
- Include HTML comments for your student ID, Name, and Practical Class Time at the top of each source file created.

Objectives:

- Apply CSS styles to **selected** HTML elements
- Use media queries to create a responsive page design

Suggested Resources:

- CSS tutorial <https://www.w3schools.com/css/default.asp>
 - CSS reference <https://www.w3schools.com/cssref/default.asp>
 - CSS validator <https://jigsaw.w3.org/css-validator/>
 - HTML tutorial <https://www.w3schools.com/html/default.asp>
 - HTML 5 tutorial https://www.w3schools.com/html/html5_intro.asp
 - HTML tag list <https://www.w3schools.com/tags/default.asp>
 - HTML validator <https://validator.w3.org>
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Exercise 1:

You have been provided with a zip file that contains one html, three image, and one css file. Upload them to your TWA web site in the following locations:

- html files: `practicals/week4` folder
- image files: `practicals/images` folder
- css files: `practicals/css` folder

Note: The file `static.html` that is provided in the zip contains HTML. **DO NOT** change the content of this file in any way. Review the content of this file to understand the structure of the html before proceeding.

The CSS file named `week4Master.css` already has the following css rules written for you – **don't change these rules**. Review these css rules and their implementation in the css file before proceeding:

- a. all elements have typeface of Arial, sans-serif; zero margin and zero padding
- b. background colour for the header is set to #004165
- c. all h1 tags have a font-size of 2.0em and a colour of #333333
- d. all horizontal rules have a top border width of 1px, a border style of dashed, a border colour of #000000, a top margin of 5px, a bottom margin of 5px
- e. all article tags have padding all-around of 20px
- f. all first direct paragraphs of a section have their first letter with a font size of 1.5em, a colour of #ff0000, a font family of Times New Roman and serif
- g. all elements with the class of right-floated-image have a floating position of right, a border width of 1px, a border style of solid, a border colour of #000000, padding all-around of 5px

For this exercise, you will **create** (point 1 below) and **edit** (point 2 below) `week4Responsive.css` to achieve a **responsive page layout**.

Figures 1 and 2 on the following pages are screen shots of static.html in desktop and mobile mode respectively **after** all changes have been applied to the CSS rules.

1. Create a css file named `week4Responsive.css`. Upload `week4Responsive.css` to the `practicals/css` folder of your TWA website.
2. Add appropriate CSS rules to `week4Responsive.css` to achieve the following:
 - a. the img with the id **logo** needs to have padding all-around of 5px
 - b. the nav tag needs to have a floating position of right, and padding all-around of 20px
 - c. all hypertext links that are children of the nav tag need to have a colour of white, no text decoration, and a right margin of 20px
 - d. all hypertext links that are children of the nav tag **and** in a state of hover need to have a text decoration of underline
 - e. all **direct** unordered list **children** and their list items of the nav tag need to have a display of inline-block

- f. all elements with the class of info-boxes need to have a text alignment of centre, and padding all-around of 5px;
- g. all elements with the class of info-box need to have a display of inline-block, padding all-around of 10px, a background colour of #004165 and a width of 31%
- h. all paragraph tags **nested within** elements with the class of info-box need to have a colour of #ffffff, a font weight of bold, a bottom border width of 1px, a bottom border style of solid, and a bottom border colour of #ffffff
- i. all div tags **nested within** elements with the class of info-box need to have a text alignment of centre.
- j. Create a media query for the screen with a max width of 1000px. The media query should have the following rules:
 - i. all elements with the class of info-box to have a width of 95%, and a top margin of 5px
 - ii. all h1 tags need to have a font size of 1.5em
 - iii. all elements with the class of right-floated-image need to have a text alignment of centre, and a floating position of nothing
 - iv. all nav elements need to have a right padding of 5px

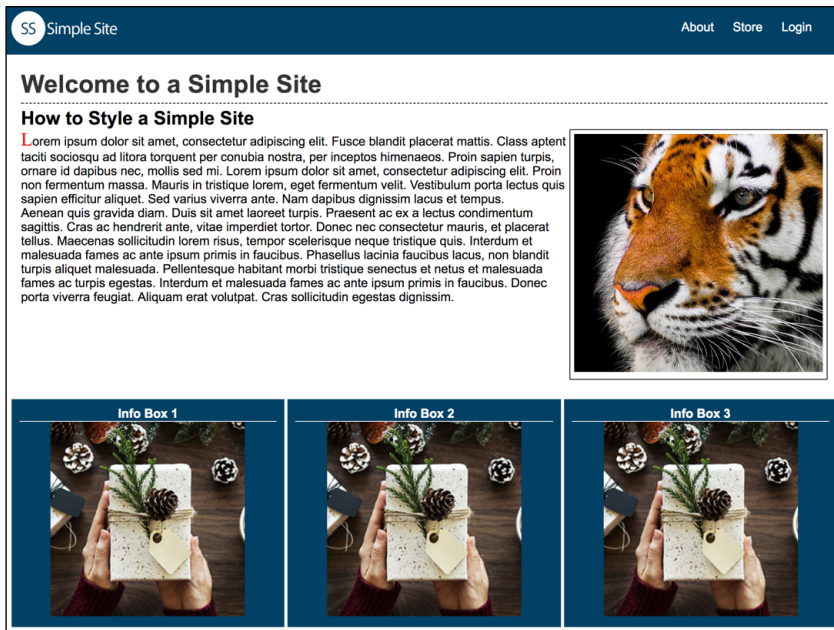


Figure 1 - desktop mode.



Figure 2 - mobile mode.

Exercise 2

Create an html5 file named `PatientForm.html` in the `practicals/week4` folder on your TWA web site. Its content is to be an html implementation of the Patient Registration Form found in the file `PatientRego.pdf` which is in this week's zip file.

Note: only implement the section of the form that is inside the red-bordered box.

When creating the html form, you should ensure that:

- i. you **improve upon** the layout, choice of input types, instructions, and labels of the form (ie, don't try to replicate the form shown in the pdf - the layout, labels and instructions in the pdf are for a paper-based form and may not be suitable for an online form).
- ii. choose the **most appropriate** input devices for each data item.
- iii. implement **appropriate labels** for each input to improve accessibility.
- iv. provide **appropriate instructions** for the user.
- v. the **action** for the form is <http://twaaut.cdms.westernsydney.edu.au/twainfo/form.asp> and the **method** is to be **post**
- vi. when a user submits the form, all form input data is present on the resulting action page as shown in figure 3. That is, if you have an input called fname, then that input name and its value must be present on the output of the <http://twaaut.cdms.westernsydney.edu.au/twainfo/form.asp> page after submission of your form.

Note: you will add CSS and JavaScript to this form in future exercises.

Welcome to the Form Tester

For any "get" form data entry

element	value
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For any "post" form data entry

element name	value
fname	John
streetAddress1	PO Box 123
streetAddress2	Simple St
lname	Smith
submit	Submit
suburb	Parramatta
postcode	2500
State	NSW

Figure 3 - possible output shown when a form is submitted to the action URL.