

## Week 4 Practical Exercises

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### Note:

- Some of these exercises will be assessed as part of the Practical Set 1 submission, and therefore may be part of Checkpoint 1 in week 5 practical class.
- Include comments for your student ID, Name, and Practical Class Time at the top of each source file created.
- All files must be uploaded to your TWA web site before submission of Practical Set 1.

### Objectives:

- Apply styles to **selected** HTML elements
- Use media queries to create a responsive page design
- Implement html forms to capture user data
- Design user-friendly and accessible html forms
- Complete exercises 1, 2 below and upload the solution to your TWA web site in the Practicals/Prac1/Week4 folder. Test and validate the pages.

### 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](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:

- Create a new folder in your TWA site under **Practicals/Prac1** and name it **Week4**
- Upload the html, image, and css files provided to you (see the zip file) into your TWA web site in the **Practicals/Prac1/Week4** folder.

Note: The HTML file static.html contains HTML **which you are not allowed to change**. If you change the HTML in the document you will automatically lose marks.

For this exercise, you will **edit** the **external.css** CSS file that you have uploaded to the Week4 folder to achieve a responsive page layout.

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

- i. The CSS file named **external.css** already has the following css rules written for you – don't change **these** rules:
  - 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
- ii. Add appropriate CSS rules to **external.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 anchor tags 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 anchor tags 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 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 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

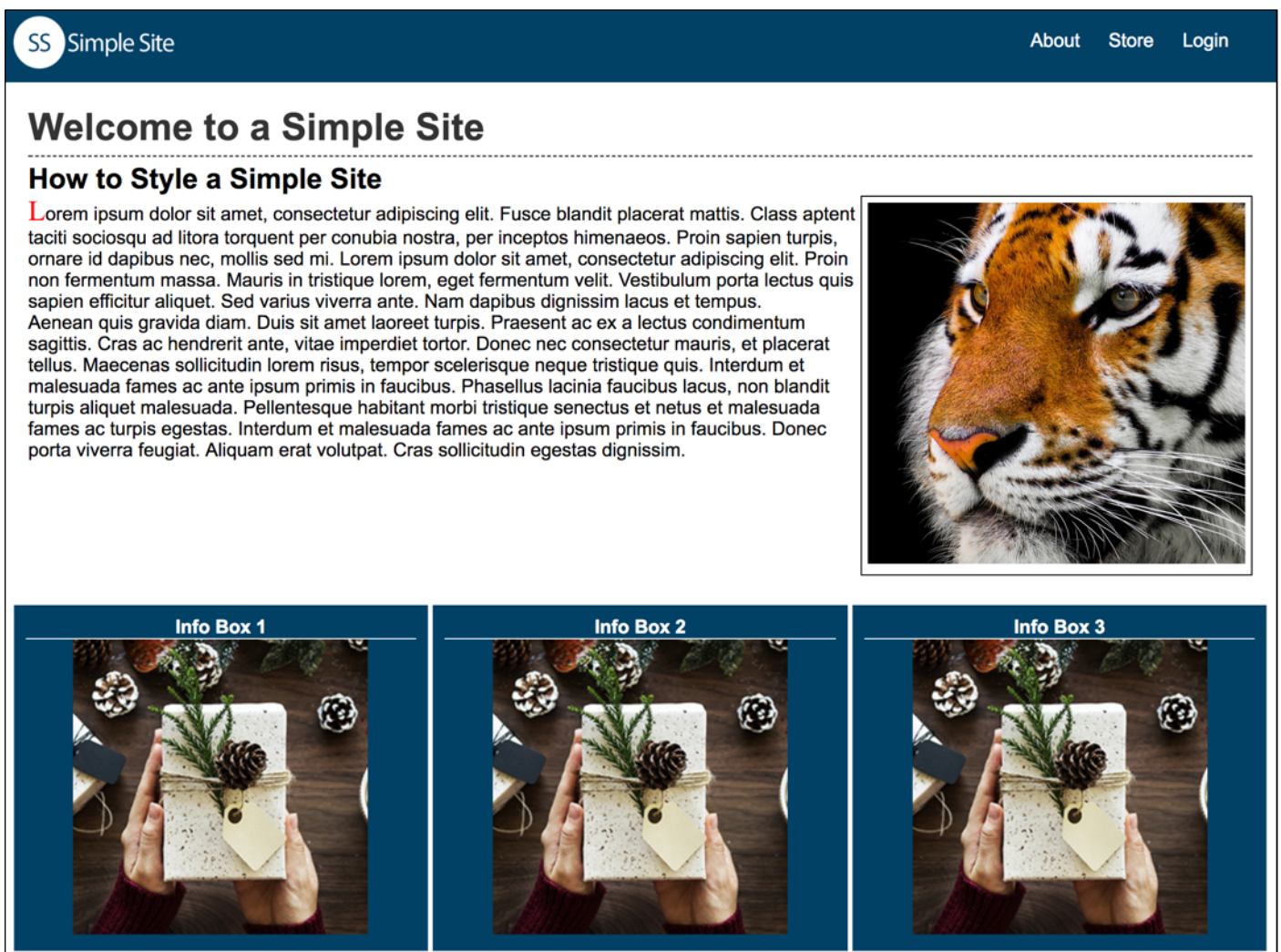


Figure 1 – static.html shown in desktop mode



Figure 2 – static.html shown in mobile mode

**Exercise 2:**

Create an html 5 file named **Exercise-2.html** in the Practicals/Prac1/Week4 folder on your TWA web site. Its content is to be an html implementation of the Marriage Certificate Application Form found in the file **MarriageCert.pdf** which is in this week's zip file.

**When creating the html form, you should ensure that:**

- i. the layout of the form and instructions are **improved** upon **by your implementation** (ie, the layout and instructions in the pdf are for a paper form not for an online form - **so improve it**).
- ii. you don't implement the section "Office Use Only" shown at the bottom of the form
- iii. choose the most appropriate input devices for each data item
- iv. implement appropriate labels for each input to improve accessibility
- v. provide appropriate instructions for the user
- vi. the **action** for the form is to **http://TL28serv.westernsydney.edu.au/twainfo/form.asp** and the **method** is **post**
- vii. 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://TL28serv.westernsydney.edu.au/twainfo/form.asp** page after submission of your form.
- viii. you utilise the external style sheet named **MarriageCert.css** that is provided in this week's zip file to achieve your page and form layout and design. Note that:
  - a. there are to be no embedded or inline styles in your HTML document.
  - b. the external style sheet provided to you accommodates both mobile and desktop mode; for full marks your form should also.
  - c. you may add extra styles to the external style sheet if you wish.

## *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