

## **Week 3 Practical Exercises**

#### Note:

- Exercise 2 will be assessed as part of the Practical Set 1 submission, and therefore will be part of Checkpoint 1 in week 4 practical class.
- Include HTML 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:

- Become proficient in writing and applying simple CSS to HTML documents
- Complete exercises 1, 2 below and upload the solution to your TWA web site in the **Practicals/Prac1/Week3** folder. Test and **validate** the pages.

### Suggested Resources:

- 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
- CSS tutorial https://www.w3schools.com/css/default.asp
- CSS reference https://www.w3schools.com/cssref/default.asp
- HTML validator https://validator.w3.org
- CSS validator https://jigsaw.w3.org/css-validator/

## Exercise 1:

- In the practicals/prac1 folder of your TWA web site create a new subfolder named week3
- Upload the files (html and images) from Week 2 Exercise 4, 5, and 6 to your TWA web site in the Practicals/Prac1/week3 folder.

#### Exercise 2:

For this exercise, you will create a **CSS file** that will be applied to exercise-4.html, exercise-5.html, exercise-6.html that you have uploaded to the **week3** folder.

# Figures 1, 2a, 2b, 3, 4 on the following pages are screen shots of each html page to show how the presentation of the html page in the Chrome browser will be changed by the following CSS rules.

- i. Create a CSS file named master.css
- ii. **Link** the master.css file to exercise-4.html, exercise-5.html, and exercise-6.html in the **week3** folder by adding the appropriate html tag(s) to **each** of the html documents.
- iii. Add appropriate CSS rules to master.css to achieve the following:
  - a. background colour for the html document to be set to white
  - b. typeface for the html document to be set to a **list of fonts** in the following order: 'Raleway', Verdana, Arial, Sans-serif
    - Hint: 'Raleway' is not a standard web font. You will need to use the Google Font repository.
  - c. font size for the html document to be set to 100% of the browser default
  - d. font colour for the html document to be set to black
  - e. the html document is to have left and right margins of 75 pixels, and top and bottom margins of 50 pixels
  - f. the html document is to have a solid 1 pixel border of colour #172457. The border is to have rounded corners with a radius of 15 pixels.
  - g. The html document is to have left and right padding of 50 pixels, and top and bottom padding of 25 pixels
  - h. h1 headings are to be 220% of the browser default font size, with text colour of #172457 and must be centred

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- i. h2 headings are to be 160% of the browser default font size, using the Georgia typeface, with text colour of #7B85AD, and each first letter of each word capitalised.
- j. h3 headings are to be 120% of the browser default font size, using the Georgia typeface, with text colour of gray
- k. paragraphs, unordered lists, ordered lists are to have 1.5 line spacing
- I. paragraphs should use full text justification
- m. list items that are in ordered lists are to use left and right padding of 15 pixels
- n. The desalination plant image on the first page, and Figure 1 and Figure 2 on the second page are to have widths of 744 pixels. The captions of these images are also to be bound by this width.
- o. The miniature submarine image on the first page is to be 250 pixels wide, be displayed on the right-hand side of the page such that the text wraps around it to the left (note: neither the heading or Box 1 are allowed to wrap around the image), and have bottom padding of 10 pixels and left padding of 15 pixels. The caption of this image is also to be bound by this width. The image should have a top and right margin of 0 pixels.
- p. The captions for these images are to use full text justification, have a 15 pixel padding at the bottom, use a font size that is 70% of the browser default font size, be displayed in italics, and have a solid 1 pixel black border underneath the caption
- q. The caption for the desalination plant is to have no border
- r. The navigation section at the top of the page is to have a background colour of #172457 with a font size that is 120% of the browser default font size, and is to have rounded corners with a radius of 5 pixels.
- s. Hypertext links within the navigation section are to be displayed using white text colour and when the mouse hovers over the link the background colour is to change to #7B85AD (see Figure 4)
- t. Each hypertext link within the navigation section is to have top and bottom padding of 14 pixels, and left and right padding of 16 pixels, and should use centred text alignment. **Hint**: to achieve the same layout as shown in the screen shots you may need to investigate the *display* css property.
- u. hypertext links that are not in the navigation section (eg, 'Next Page', 'First Page') are to have text colour of black and displayed in italics. If the link has previously been loaded by the browser then the text colour is to be #7B85AD
- v. There is to be a 2 pixel solid black border between the header section of the document and the rest of the main content
- w. The top two lines of the page 'TWA Week 3 Practical Exercises' and 'my Student ID' must be displayed to the right of the page, have padding at the bottom of 10 pixels, be in italics at 70% of the browser default font size and using a text colour of #7B85AD
- x. the Copyright text at the bottom of the page is to have white text colour using a font size that is 70% of the browser default font size. This section is also to have background colour of #7B85AD, left padding of 20 pixels, top and bottom padding of 2 pixels and have rounded corners with a radius of 5 pixels
- y. Box 1 on the first page must have a 1 pixel dashed border of colour #172457 and have left and right padding of 15 pixels. The border must have rounded corners of radius 5 pixels

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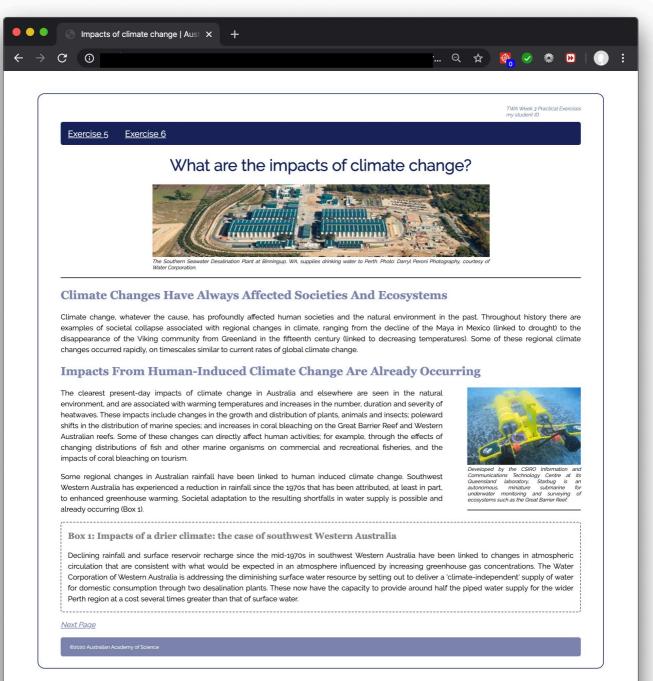


Figure 1 - exercise-4.html

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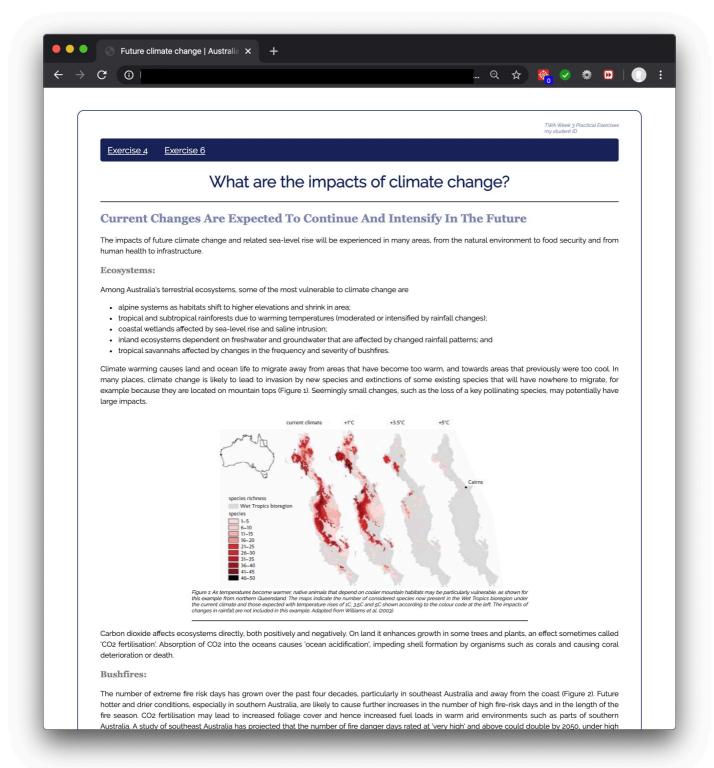


Figure 2a - exercise-5.html

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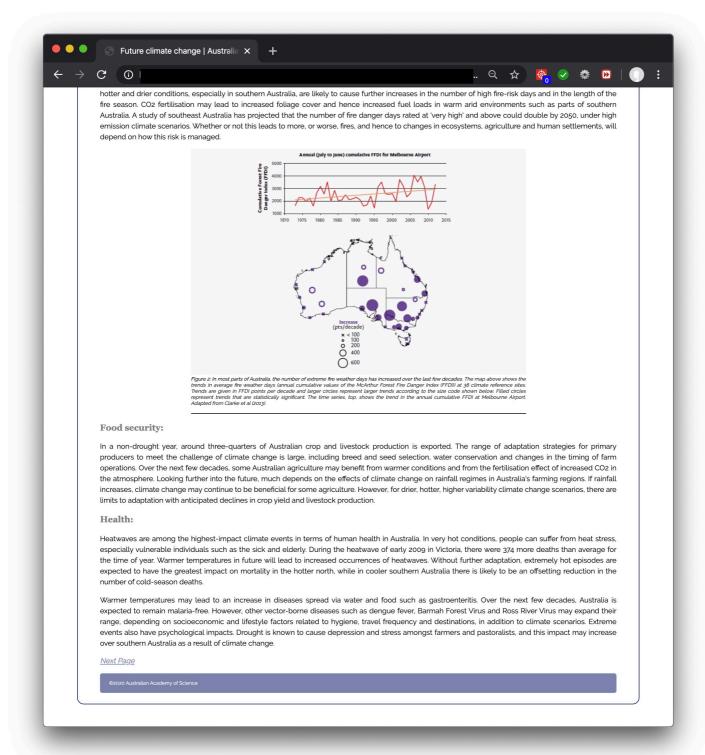


Figure2b - exercise-5.html continued

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Figure 3 - exercise-6.html



Figure 4 – showing mouse-over on menu

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