

Assessment details for all students

Assessment item 1—HTML & CSS

Due date: 5:00pm AEST, Friday, Week 5

ASSESSMENT

Weighting: 10%

Length: No set length

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Objectives

This assessment item relates to the course learning outcomes numbers 1, 2, 3, and 4.

More specifically, the objectives of the assignment are for students to:

- develop static Web pages using appropriate technology;
- become familiar with the key components of a typical Web-based application;
- become familiar with the terminology;
- become familiar with some of the uses of Websites.

Introduction

You are required to develop a simple website using XHTML and CSS. The website is for a fictitious business called *Techo Books*. *Techo Books* sells a series of books on mathematics and computing and retails a selection of rare, old or hard to get technical books. The sections that follow describe the specific pages and functionality that you are required to develop.

Note that:

1. You *must* develop the web pages *according to the specifications given in this document*. This means that you must provide the functionality specified, produce the layout specified and use the data and images provided on the course website. You may change the colour scheme and overall styling, but you may not change the layout or functionality described.
2. You should develop your Web pages using a simple editor such as WordPad or Notepad (simple HTML editors allowed, but use of FrontPage or DreamWeaver is not recommended). You must become familiar with HTML tags and CSS rules.
3. Your website must have a consistent look and feel. A CSS style sheet will help you achieve this.
4. You must follow proper XHTML conventions in your coding, including the DOCTYPE declaration.

Website structure

The files in your website should be structured in the following way:

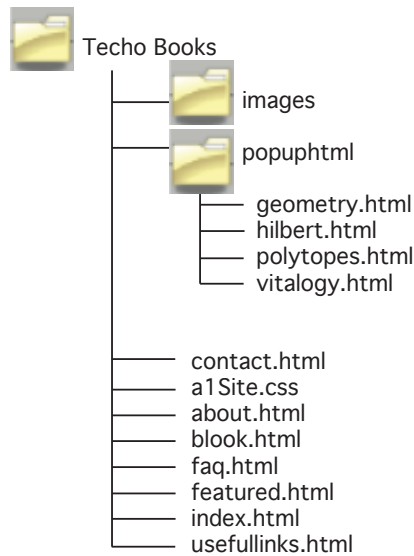


Figure 1: Website directory structure

Note that:

- `images` and `popuphtml` are both folders.
- All images used in the website are to be stored in the `images` directory.
- All the popup `.html` files (see the section on *Featured books*) must be in the `popuphtml` directory.

Overview of pages to be developed

You are required to develop the following `.html` pages in the Lego Bits home directory:

Web Page	Description
<code>index.html</code>	The home page. This page contains an introduction to the store.
<code>book.html</code>	This page displays the range of books for sale – “our range”.
<code>featured.html</code>	This page lists books that are “featured” – considered to be rare, old or hard to get.
<code>usefullinks.html</code>	This page contains a list of useful links to help a prospective buyer make a decision.
<code>faq.html</code>	This page will contain answers to questions that relate to the COIS21001 course. It is included for educational reasons only and to demonstrate your knowledge of the required reading in the first half of the course. Refer to the <i>FAQ - faq.html</i> section for the list of specific questions that you must answer.
<code>contact.html</code>	This page lists the various ways in which a prospective buyer may contact <i>Techo Books</i> .
<code>about.html</code>	This page describes the <i>Techo Books</i> business in more detail.
<code>alsite.css</code>	The overall web site style sheet

Provided materials – starter kit

To get you going an assignment 1 starter kit is available on the web site. This starter kit contains:

- All the files and folders shown in Figure 1. The files are all correctly named and in the correct locations. The *html* files are almost entirely empty; you are required to insert the *html* coding and scripting etc., to create the required layout and functionality on each page.
- An `images` directory containing all the images required for the website, including the image for the header logo.

- `index.html`, which contains skeleton HTML to get you started. In particular, it contains the basic *div* structure that you will need to achieve the layout described in this document.
- `alsite.css`, which contains the basic CSS to get you started. You will need to add more CSS rules to achieve the layout described in this document.
- `book.html`; this file contains simple text details of the books to be displayed on this page. You must convert this simple text into the HTML required to achieve the layout and functionality described below.
- `featured.html`; this file contains as simple text the details of the featured books to be displayed on this page. You must convert this simple text into the HTML required to achieve the layout and functionality described below.
- `usefulllinks.html`; this file contains as simple text the three URL's which must be displayed on this page. You must convert this simple text into the HTML required to achieve the functionality described below.

Required structure for all pages

All pages in the website will have the structure shown in Figure 2.

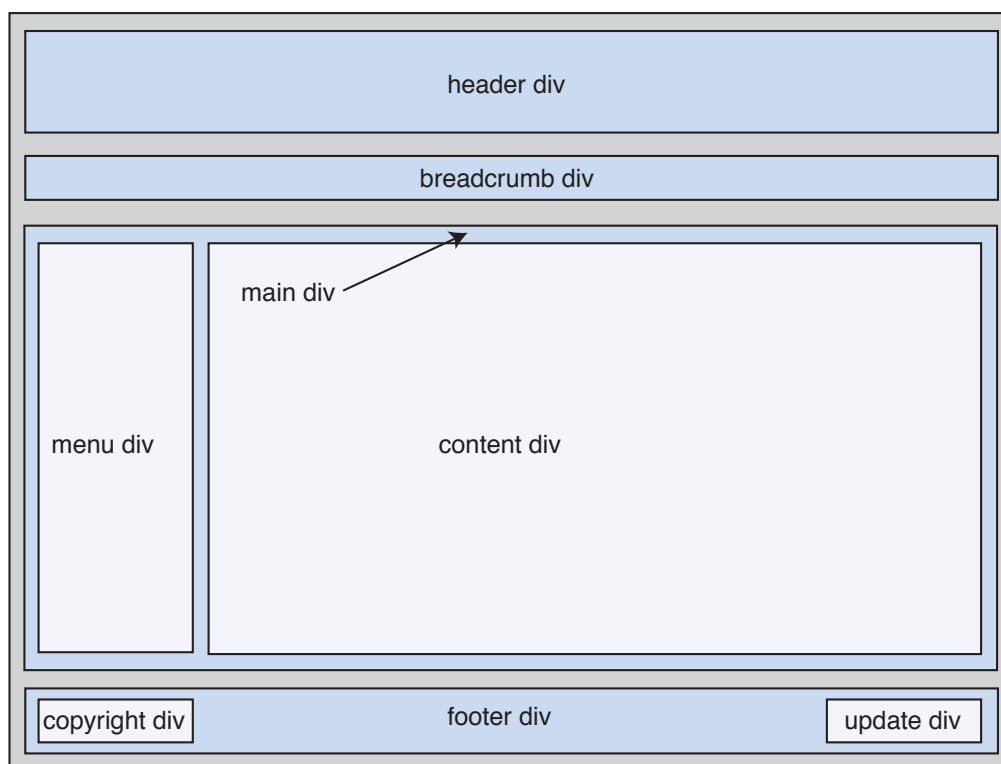


Figure 2: Required layout of the *div*'s on the page.

The following information should be used to setup the `alsite.css` file:

	Body	Content	Header	Links	Visited link	Hover
Colour	#777777	#9966CC	gray	# FFDA4D	# FFFCD5	Red

The body should have a 1% margin at the top and sides, use a white sans-serif 14 *px* font. The header *div* contains an image, the header *img* tag should have a width of 100%, and a height of 100 *px* with no border. The breadcrumb *div* should have a height of 5% and a width of 100%. The menu and content *div*'s should have a height of 100%, the menu width be set at 15%, and the content width be 85%. The menu should have 5 *px* of padding around it. The background colour for the content is #ff9933. The height of the footer should be 5%. The menu, content and footer *div*'s must flow as shown in the above image.

Note that you may change the colour scheme provided that you choose sensible colours that blend appropriately.

All pages must have the functionality described in the following subsections.

Header div

- The header div must contain the logo image. The logo can be found at `images/headerlogo.jpg`.
- The header logo must be hyperlinked to the home page.
- The header logo has a fixed height and its width scales to the width of the page.

Menu div

The menu div must contain a navigation menu (refer to subsequent illustrations). It should be the same on every page. The menu structure is as follows:

Books

- Our range (*must be hyperlinked to `book.html`*)
- Featured books (*must be hyperlinked to `featured.html`*)

Useful links

- Useful links (*must be hyperlinked to `usefullinks.html`*)
- FAQ (*must be hyperlinked to `faq.html`*)

About us

- Contact us (*must be hyperlinked to `contact.html`*)
- About us (*must be hyperlinked to `about.html`*)

All pages should open in the same window. You will need to hard-code the menu.

Breadcrumb div

The breadcrumb div shows the user where they are in the website. The breadcrumbs should be of the format:

You are here: [Home](#) > Our range

The *Home* item should be a hyperlink to the home page. You will need to hardcode these breadcrumbs as well as the hyperlink.

Content div

The content div must contain an anchor at the top of the page and a hyperlink at the bottom of the page. The hyperlink text should be **Top** and when clicked should take the user to the top of the page.

Copyright div

The copyright div should contain the following information:

© *Insert your name here*

All images © R. Balsys.

You can use `©` to display the copyright symbol.

Lastupdate div

The lastupdate div states when the page was last updated. You will need to hardcode this information.

The home page - index.html

Using the logo and structure provided, the home page must appear as in Figure 3.

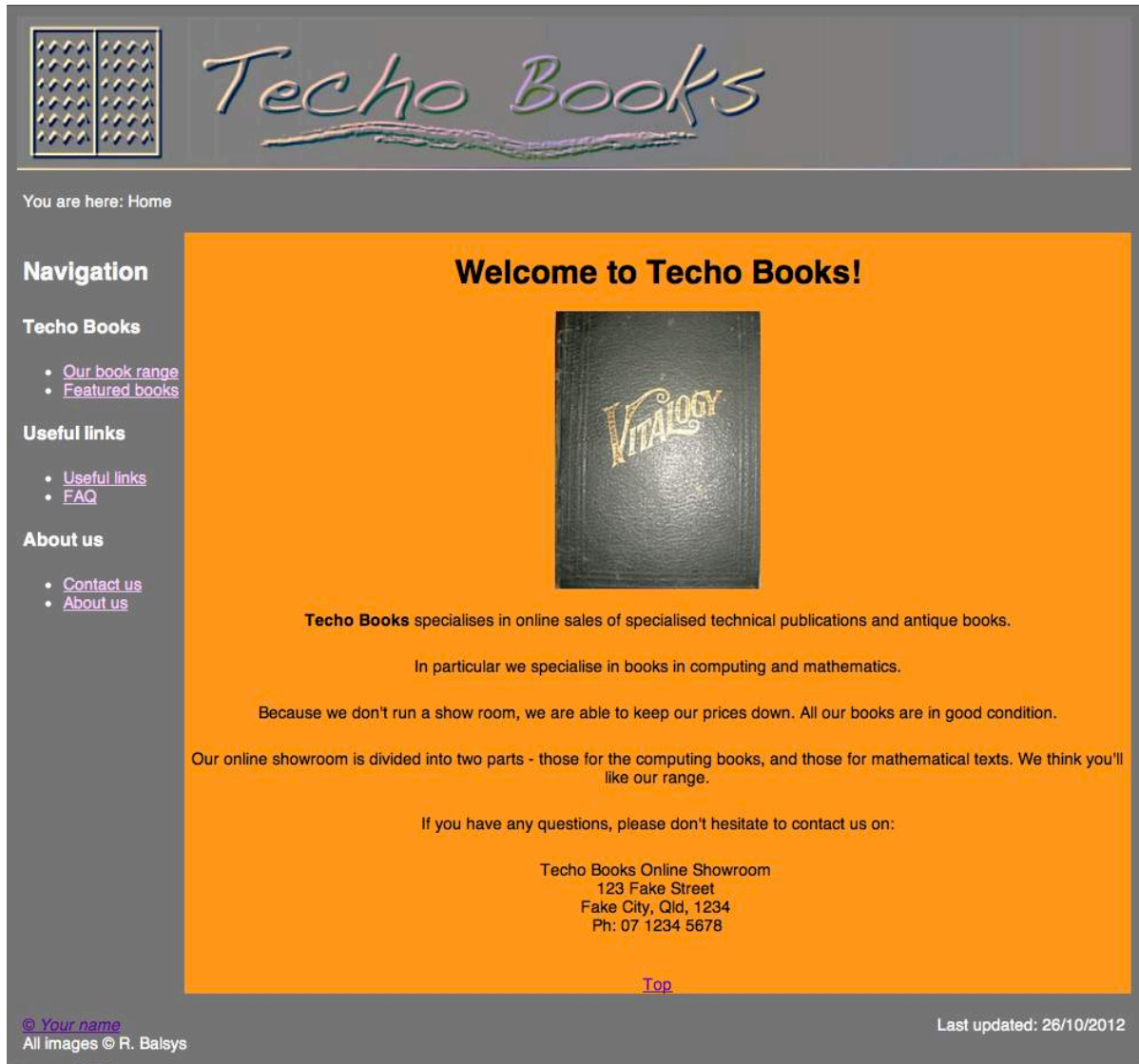


Figure 3: The home page.

Note that:

- You may change the colour scheme (ensure your colours are sensible and do not clash) but you must achieve the layout and general appearance shown.
- The image shown on this page is `images/vitalogy-1-sm.jpg`.
- The top heading is an `<h1>` element.
- You must include the *Top* hyperlink as described in *Required structure for all pages*.

Our book range - books.html

The Our books range page must appear as in Figure 4. Note that only the content *div* is shown; the remainder of the page (header, menu, footer etc.) should be as described in earlier sections.

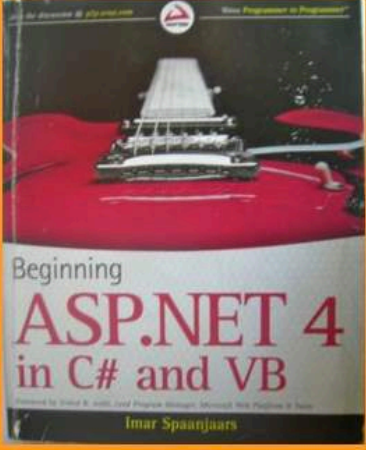
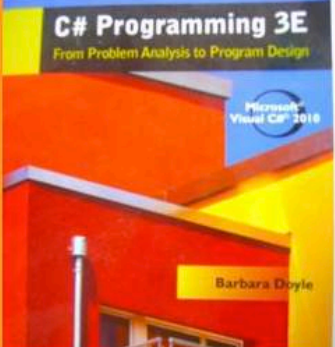
View our range			
Mathematics Computing			
Computing Texts			
Title	Author	Price	Image
ASP.NET 4 in C# and VB	I. Spaanjaars	\$75.80	
C# Programming 3E	B. Doyle	\$65.30	

Figure 4: Partial view of the books page.

Note that:

- The table must have merged and header cells.
- You must include the *Top* hyperlink as described in *Required structure for all pages*.
- The images to appear are as given in the tables.

Computing Texts		
comp-a4.jpg	comp-cp.jpg	comp-dv.jpg
comp-gg.jpg	comp-gp.jpg	comp-ie.jpg
comp-ps.jpg		

Mathematics Texts		
math-ca.jpg	math-dg.jpg	math-la.jpg
math-ps.jpg	math-vq.jpg	

- When the mouse is hovered over the images the name of the book and the price should be displayed; you will need to use the `title` attribute to achieve this.
- Each image should have an `alt` attribute to ensure that relevant information is displayed even if the image is unavailable. The `alt` description should be the same as the information in the `title` attribute.
- The `book.html` file provided in the starter kit contains (as simple text) the information about which books must be displayed, along with their price and the location of the relevant image files.

Featured books - featured.html

The featured books page must appear as in Figure 5. Note that only the content div is shown; the remainder of the page (header, menu, footer etc.) should be as described in earlier sections.

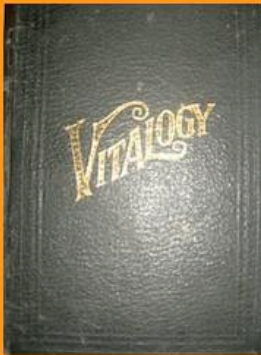
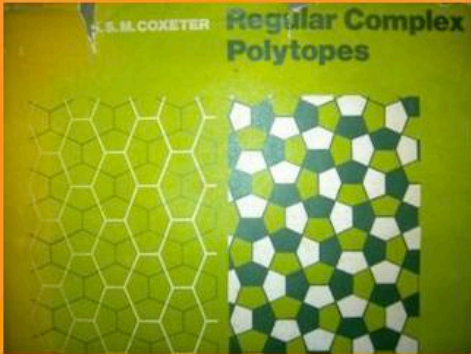
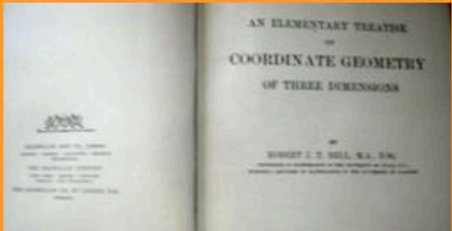
Featured books					
Featured books are especially rare, or old, or hard to get. We think these represent a particularly good deal, are highly sought after, or are on special. We think you'll like this range.					
Featured books					
Title	Author	Year	Publisher	Year	Image
Vitology	E. H. Ruddock, M.D.	1926	Vitology Assoc., Chicago, Illinois.	\$224.00	
Regular Complex Polytopes	H.S.M. Coxeter	1974	Cambridge Univ. Press.	\$84.00	
An elementary treatise on coordinate geometry of three dimensions	R. Bell	1928	MacMillan & Co., London.	\$38.00	

Figure 5: A partial view of the featured books page.

Note that:

- The table must have a merged header cell.
- The following Table gives the complete contents of the featured books table in Figure 5.

Featured books					
Title	Author	Year	Publisher	Price	Image
Vitalogy	E.H. Ruddock	1926	Vitalogy Assoc., Chicago, Illinois.	224.00	vitalogy-1-sm.jpg
Regular Complex Polytopes	H.S.M. Coxeter	1974	Cambridge Univ. Press.	84.00	polytopes-1-sm.jpg
An elementary treatise on coordinate geometry of three dimensions	R. Bell	1928	MacMillan & Co., London.	38.00	geometry-1-sm.jpg
Foundations of Geometry	David Hilbert	1952	Open Court Pub., Illinois.	28.00	hilbert-1-sm.jpg

- The image displayed is a thumbnail (smaller image).
- The thumbnail must be hyperlinked to a popup html page. If the user clicks on the thumbnail, a new HTML popup page (not just an image) must be opened. Figures 6(a)-6(d) show the contents of the required popups.
- Please refer to your JS section of your lab exercise for Week 2 for details of how to achieve this. The popup HTML pages must be stored in the `popuphtml` folder.
- The `vitalogy` and `polytopes` pop-ups have the following *div* structure:

div	div
div	div

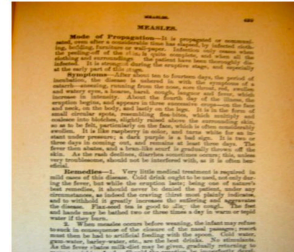
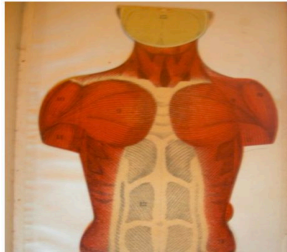
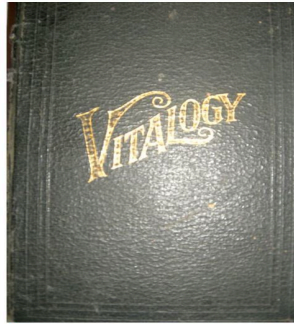
- The `geometry` and `hilbert` pop-ups have the following *div* structure:

div
div
div

- You will need to code the contents of the HTML popup pages yourself to make them appear like the ones shown in Figure 6(a) to 6(d). The following table gives the image names that appear in the popups.

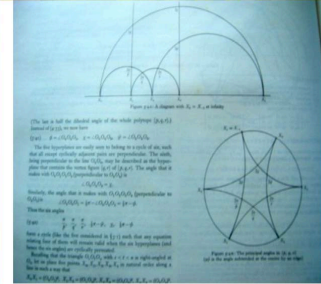
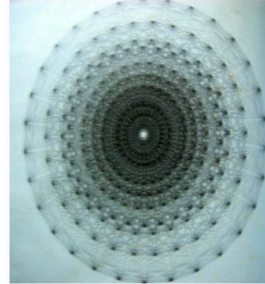
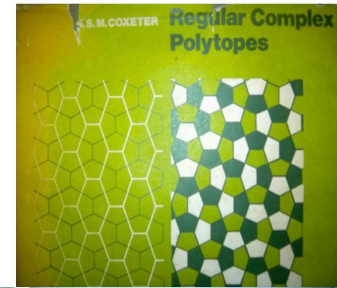
vitalogy	vitalogy-1.jpg	vitalogy-4.jpg	vitalogy-3.jpg
polytopes	polytopes-1.jpg	polytopes-2.jpg	polytopes-3.jpg
geometry	geometry-1-lg.jpg	geometry-2.jpg	
hilbert	hilbert-1-lg.jpg	hilbert-2.jpg	

- Title: Vitalogy
- Author: E. H. Ruddock, M.D.
- Year: 1926
- Price: \$224.00



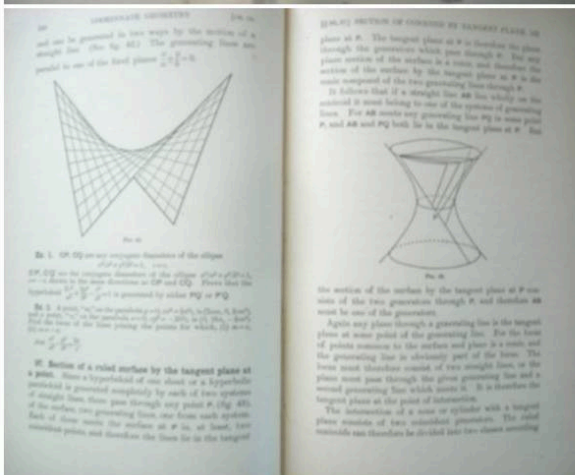
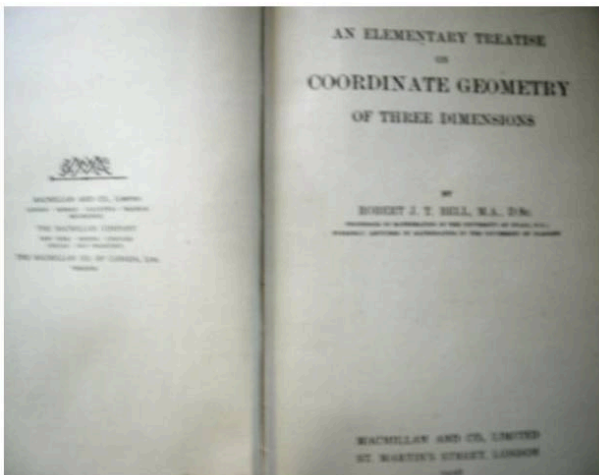
(a)

- Title: Regular Complex Polytopes
- Author: H.S.M. Coxeter
- Year: 1974
- Price: \$84.00



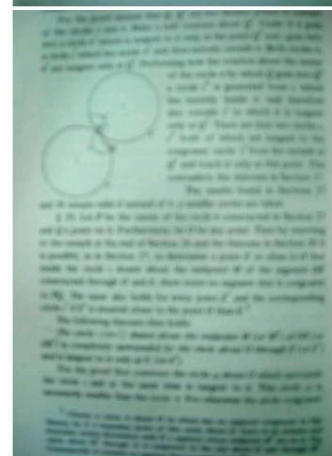
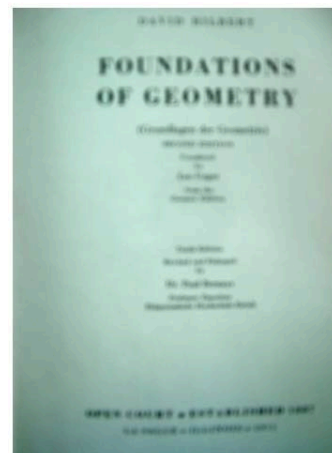
(b)

- Title: An elementary treatise on coordinate geometry of three dimensions
- Author: R. Bell
- Year: 1928
- Price: \$38.00



(c)

- Title: Foundations of Geometry
- Author: David Hilbert
- Year: 1952
- Price: \$28.00



(d)

Figure: 6(a) vitality popup, (b) polytopes popup, (c) geometry popup and (d) hilbert popup.

Useful links - usefullinks.html

The useful links page must appear as shown in Figure 7. Only the content *div* is shown.

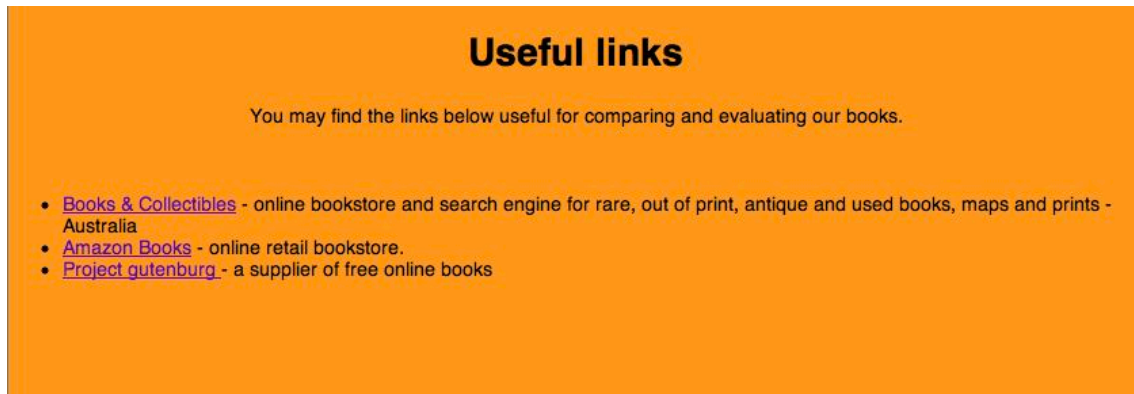


Figure 7: The useful links page.

Note that:

- The website names must be hyperlinked to the corresponding site.
- When the links are selected, the websites must open in a new window.
- The file `usefullinks.html` in the starter contains, as plain text, the URLs to which you must link.

FAQ - faq.html

This page must have the heading “COIS21001 FAQs” and is shown in Figure 8. You are to use this page to present your answers to the assignment questions listed below. These are questions that relate to the course materials. Use the course resources online in the library and any other appropriate reference materials to find the answers. Choose an appropriate layout formatting of your own preference to display each question and answer in turn. Some questions may require paragraphs/lists to answer them adequately. Make sure that you reference the source of your answers and that you include all your references in your bibliography. Sources must include appropriate academic references.

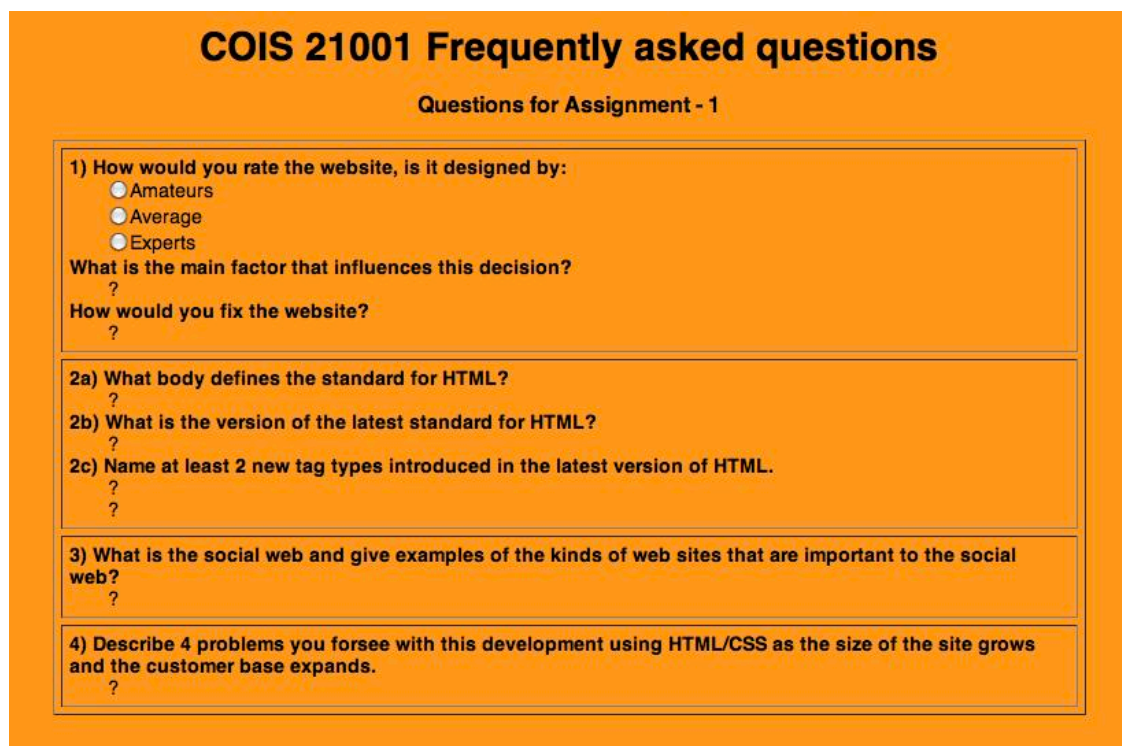


Figure 8: The frequently asked questions page.

Contact us - contact.html

The contacts page must appear as follows. Only the content *div* is shown.

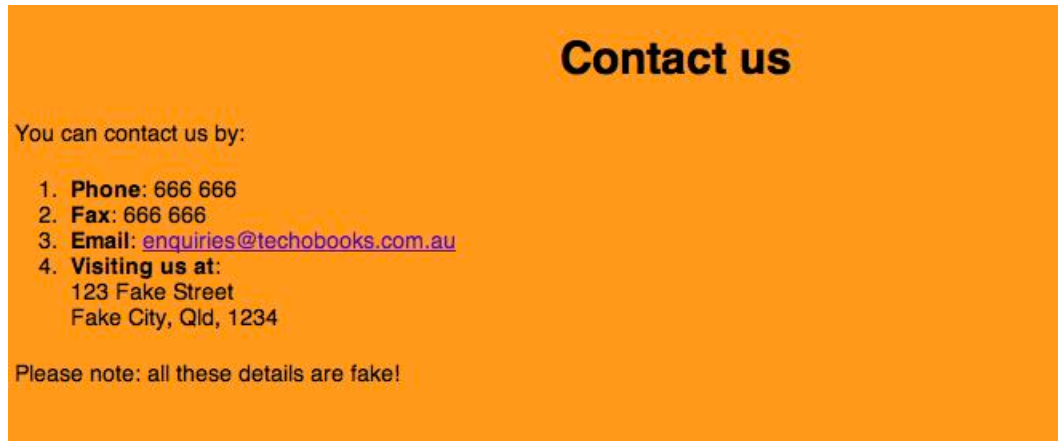


Figure 9: The contacts page.

Note that:

- You must do an ordered list.
- The email address should be a *mailto* hyperlink that emails to your own student email account.

About us - about.html

The about us page must appear as shown in Figure 10. Only the content *div* is shown.

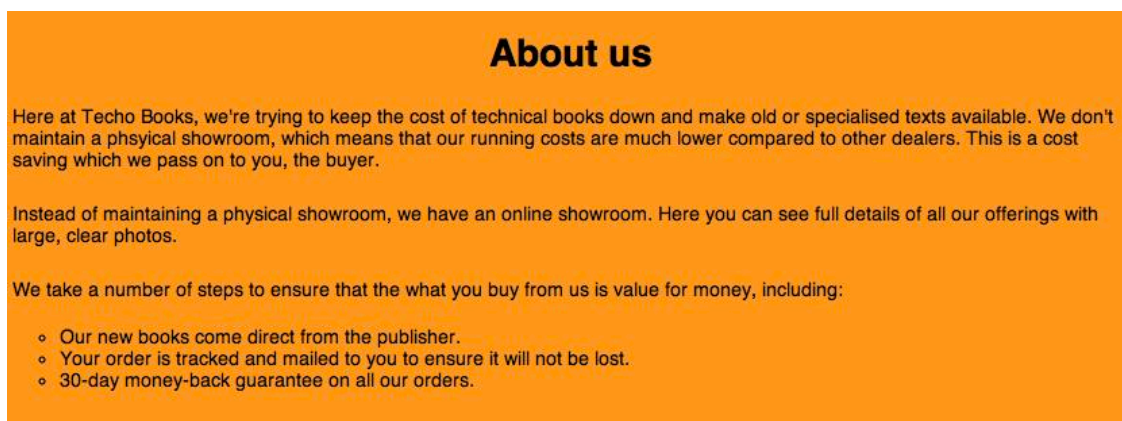


Figure 10: The about us page.

Submission

You are required to submit a working version of your website and a Word document. The contents of the Word document are to be as follows:

- Name and student ID:

The Word document must have a title page with your name and student ID.

- Description of pages completed

This is a brief statement of all the pages that have been completed and the browsers you used to test your assignment. Note that you must test your assignment with two different browsers (e.g. Firefox and IE).

- Bugs/Problems

This must include a description of any bugs/problems still to be resolved (e.g. document any links that do not work). If there are no known bugs, then you must state that “there are no known bugs/problems”.

- References

These mainly relate to your answers on the `faq.html` page. Provide full reference details of the sources used.

The electronic submission

To submit your assignment, you must:

- Zip up a copy of your website. The website must be a working version that the marker can test.
Important: Use your student number as the name for the zip file.
- Add a copy of your Word document to the zip file. Your Word document must be included in your zip file.
- Submit your complete zip file via the course website on Moodle. Please note that Moodle may rename your uploaded zip file names to a standard name for this assignment.

Acknowledgements

Important note to students: The images supplied on the course Website for this assignment are only to be used in preparing the solution for this assignment. Use of these images for any other purpose is strictly prohibited in accordance with the copyright laws. The copyright acknowledgement must also appear on the footer of your website.

Assessment criteria

Component		Marks Available /10	Actual Marks
a1site.css	<ul style="list-style-type: none"> • Correct definitions as specified in the assignment 	1.0	
index.html & all pages	<ul style="list-style-type: none"> • Link to CSS • Header with hyperlinked logo • Email link • Navigation “menu”, appropriately hyperlinked • Breadcrumb 	2.0	
books.html	<ul style="list-style-type: none"> • Table has: <ul style="list-style-type: none"> - Images with ‘alt’ tags • Links to the two tables and the top of the page 	0.5	
featured.html	<ul style="list-style-type: none"> • Tables have: <ul style="list-style-type: none"> - Appropriate columns and headings - Merged cells - Data + images • HTML popup pages 	1.5	
contact.html	<ul style="list-style-type: none"> • Ordered list • Email link 	0.5	
usefullinks.html	<ul style="list-style-type: none"> • Links must be working • New window opens when clicked on either of them 	0.5	
faq.html	<ul style="list-style-type: none"> • Correct answers to all questions • Appropriate format 	2.0	
Word Document	<ul style="list-style-type: none"> • A description of what has been completed • Description of any bugs/problems not resolved • Acknowledgements/bibliography 	1.0	
General Quality	<p>This covers quality aspects of your assignment:</p> <ul style="list-style-type: none"> • Appearance and layout • Easy to read and navigate • Clear headings and instructions • Consistent “look and feel” <p>Correct folder structure etc.</p>	1.0	
Deductions Plagiarism, late, etc.			
		Total	/10

Comments:

Lecturer’s Signature _____ **Date:** _____