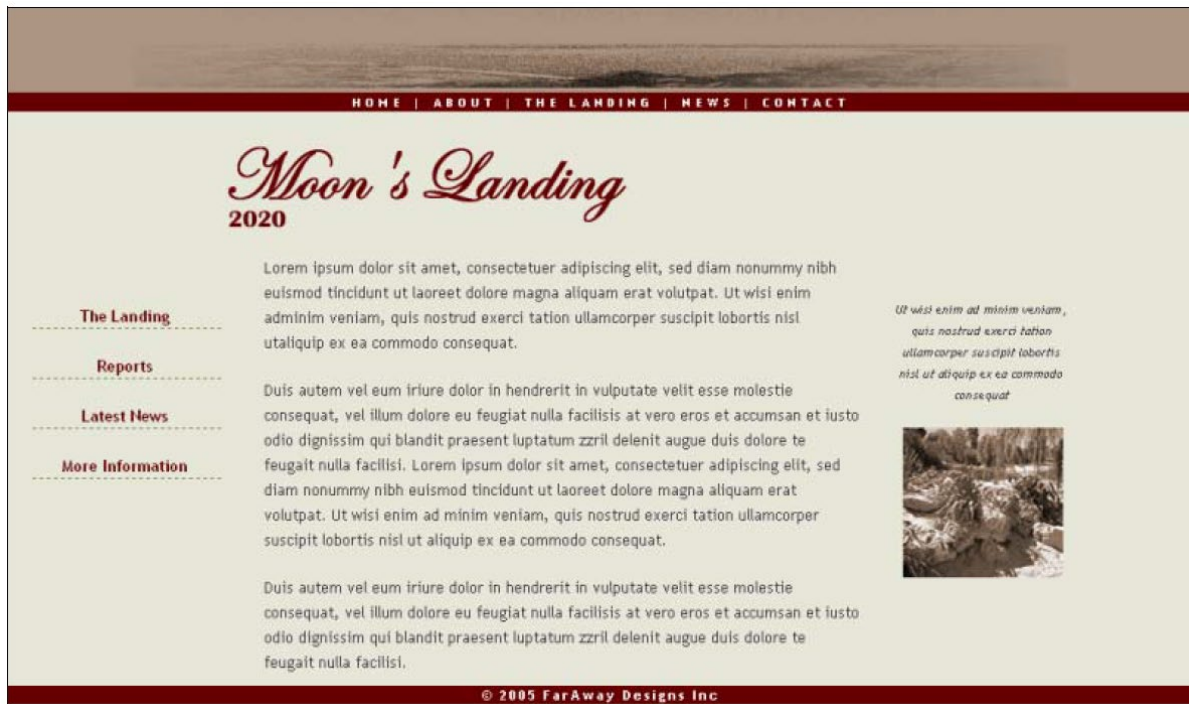


WEB SCRIPTING

MOONSLANDING SITE

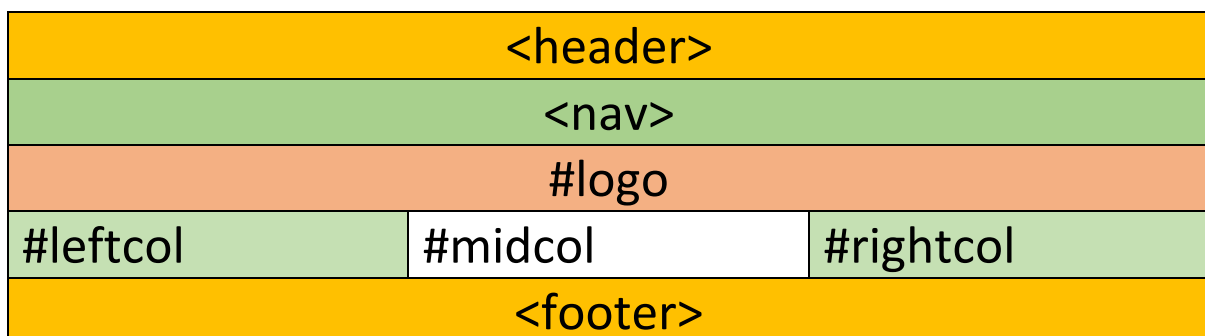
What you will do

This exercise will show you how to create a site for the **MoonsLanding Site**. The homepage will look like the following. You will use a text editor in order to create the HTML and CSS pages.



The Site Layout

As you can see from the above, the site has a layout like the following diagram:



The CSS created will make heavy use of <div> tags and ids in order to format the various sections of the document. The XHTML page will be prepared initially, then the CSS style sheet will be created. In this way you will be able to appreciate how CSS can quickly turn uninteresting XHTML unformatted tags into a nice looking layout.

Setting up a local site

1. Create a folder structure where you wish to store your work similar to the following:

moonslanding
images
resources

2. Download a copy of the **text.txt** file accessible from lesson material and save a copy of this file into the **resources** folder. Also save each of the images called **moonscape.jpg**, **moon.gif** and **crater.jpg** into the **images** folder.
3. Open up your editing program: notepad++, Adobe Brackets or Dreamweaver

Creating the index page

4. Save a copy of your template.html file into the moonslanding folder and call it index.html
5. Edit your index.html page to look like the following:

```
<!DOCTYPE html>
<html charset=utf-8>
<head>
<title>Moons Landing</title>
<link rel="stylesheet" type="text/css" href="moonstyles.css">
</head>

<body>

<header>
</header>

<nav>
</nav>

<div id="logo">
</div>

<div id="leftcol">
</div>
<div id="midcol">
</div>
<div id="rightcol">
</div>

<footer>
</footer>

</body>
</html>
```

6. Save your changes to **index.html**
7. Because you want the header image to appear on all pages in your website (that is presuming that you would have more than one page), the path to the top image will be entered in the CSS file when you create it, therefore the header id can be ignored for now.
8. Make the following change (in bold) to the **nav** id in the index.html page:

```
<nav>
  <a href="#">HOME</a> |
  <a href="#">ABOUT</a> |
  <a href="#">THE LANDING</a> |
  <a href="#">NEWS</a> |
  <a href="#">CONTACT</a>
</nav>
```

| = this funny character is called the pipe symbol. It is found on the PC keyboard above the \ key. looks like two broken vertical lines.

Indenting your HTML code will make it easier to find errors. The `<a href="#">` is a temporary dummy link. Do not forget to add the | at the end of the first four links. When viewed, the links will appear as follows:

HOME | ABOUT | THE LANDING | NEWS | CONTACT

9. Save your changes to the index.html file and view it in your browser
10. Make the following change to the **logo** id:

```
<div id="logo">
  
</div>
```

The reference to the moon logo is made in the HTML document because it is possible that you only want this image to appear on the index page.

11. Save your changes and view the document in Design view.
12. Switch back to Code view and make the following changes to the leftcol id:

```
<div id="leftcol">
  <div class="menuitem"><a href="#">The Landing</a></div>
  <div class="menuitem"><a href="#">Reports</a></div>
  <div class="menuitem"><a href="#">Latest News</a></div>
  <div class="menuitem"><a href="#">More Information</a></div>
</div>
```

There is really no difference between an id and a class other than a class can be used multiple times in the one page and an id can only be used once. Because you want the links in the left column all formatted in the same way you need to use a class because there is more than one link. You will understand more about the difference as you progress in your CSS studies.

13. Save your changes and view the document in **Design** view.

14. Switch back to your text editor

15. Double click on the **text.txt** file to open it and copy the first three paragraphs only and paste the text between `<div id="midcol">` and `</div>`. Enter a **<p>** tag at the beginning of each paragraph and a **</p>** tag at the end of each paragraph, like the following, then save your changes.

```
<div id="midcol">

<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam
nonummy nibh
eismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim
ad minim
veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex
ea
commodo consequat. </p>

<p>Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie
consequat,
vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio
dignissim qui
blandit praesent luptatum zzril delenit augue dui dolore te feugait nulla facilisi.
Lorem
ipsum dolor sit amet, consectetur adipiscing elit. Ut wisi enim ad minim
veniam, quis
nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo
consequat.
</p>

<p>Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie
consequat,
vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio
dignissim qui
blandit praesent luptatum zzril delenit augue dui dolore te feugait nulla
facilisi.</p>

</div>
```

16. Copy the last paragraph in the text.txt file and paste it between the `<div id="rightcol">` tag and `</div>`.

17. Enter a `<p>` tag at the beginning of the paragraph and a `</p>` tag at the end of the paragraph.

18. Also enter the following reference to the **crater** image, do not forget to enter the `<p>` tag at the beginning and the `</p>` tag at the end:

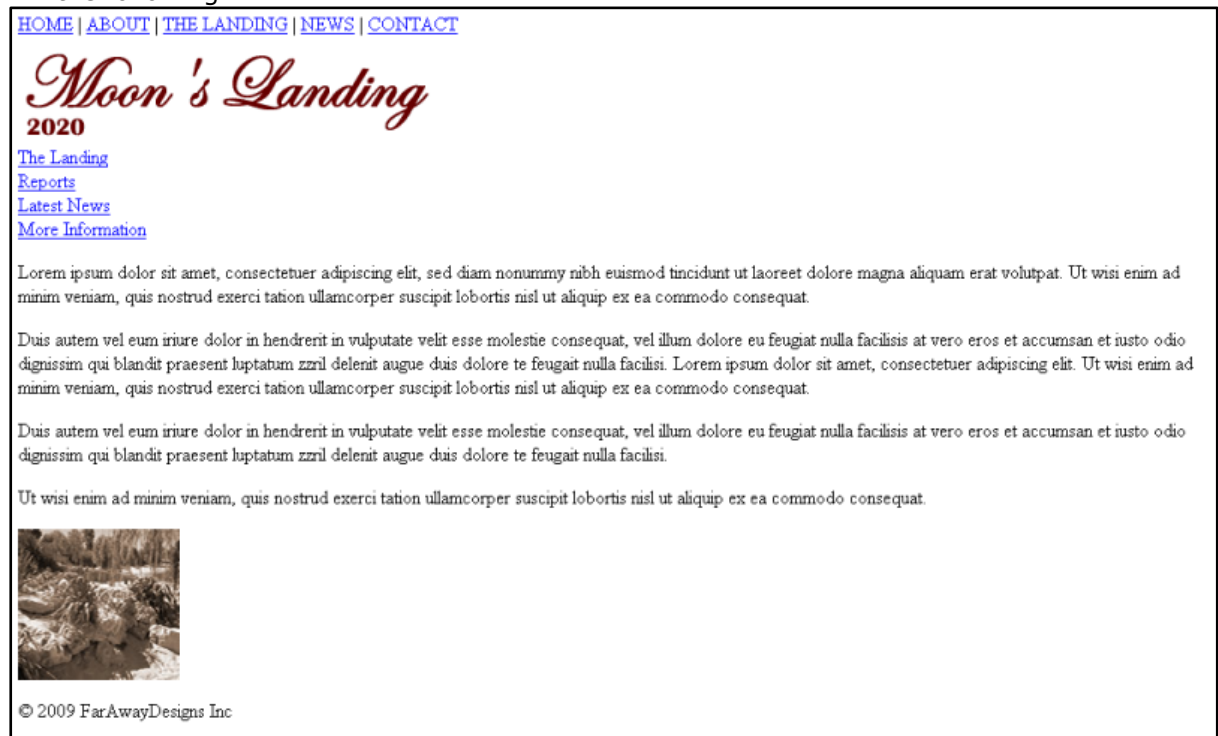
```
<div id="rightcol">
<p>Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper
suscipit lobortis nisl ut aliquip ex ea commodo consequat.</p>
<p></p>
</div>
```

19. Save your changes and view the document in **your browser**.
20. Switch back to your editor
21. Make the following changes to the **footer** id:

```
<footer>  
    &copy; 202x FarAwayDesigns Inc  
</footer>
```

The **©** is XHTML code to enter a © symbol.

22. Save your changes and view the document in **your browser**. It should look similar to the following:



23. Switch back to Code View. The index.html file is now complete.

If you were to present this layout to your client, I am sure they would be somewhat disappointed, so now it is time to create the CSS layout to make your page much more presentable. Close the browser.

Creating the CSS style sheet

In creating this style sheet, comments will be added at the end of each style property to explain what the property does. These comments can be added in your CSS document and will be ignored by the browser. It is a good idea to enter comments as it can often make your styles easier to understand. Comments are surrounded by /* and */

24. Create a new page using your text editor and save it into the moonslanding website folder as : **moonstyles.css**

Take a look in the files panel to ensure that it has been saved as **moonstyles.css** within the moonslanding folder.

25. Add the following code to the moonstyles.css page

```
body {  
    color:#373239; /*changes text color*/  
    font-size:13px; /*changes size of font*/  
    font-family:"trebuchet ms",Times, serif; /*sets default font style*/  
    line-height:21px; /*increases line height to 21 pixels, default is 16px*/  
    background-color:#e6e6d9; /*sets the background colour to a light grey*/  
    text-align:left; /*sets the default alignment of text to left*/  
    margin:0px; /*zeroes off the top, right, bottom and left margins*/  
}
```

Switch back to your **index.html** page and view it in your browser. You should notice a difference in the appearance of the text and the background colour of the page.

26. Switch back to your CSS document and add the following style (in bold) to appear immediately after your **body** style. This just means that the style you are writing is associated with the <header> tag

```
header {  
    background-color:#ac9583; /*sets header colour to brown*/  
    background-image:url(images/moonscape.jpg); /*path to the image*/  
    background-repeat:no-repeat; /*header image is used once only*/  
    background-position:top center; /* image appears centred top */  
    height:68px; /*sets height of the header to height of the image*/  
}
```

27. Save your changes, then switch back to your **index.html** page and view it using **your browser**. An image should now appear at the top of the page.

28. Switch back to your CSS document and add the following style (in bold) to appear immediately after your **header** style:

```
nav {  
    color:#ffffff; /*sets color of text to white*/  
    font-size:10px; /*sets size of font in the nav to 10 pixels*/  
    font-weight:bold; /*bolds text in the navigation bar*/  
    line-height:16px; /*ensure nav line height is 16 pixels*/  
    background-color:#660000; /*changes nav back color to burgundy*/  
    text-align:center; /*centres the text on the navigation bar*/  
    letter-spacing:4px; /*increases spacing between chars in nav*/  
    margin-bottom:15px; /*adds 15 pixel margin to bottom of nav*/  
    height:16px; /*makes height of the navigation bar to 16 pixels*/  
}
```

29. Save your changes, then switch back to your **index.html** page and view it using **your browser**. You should notice changes to the navigation bar.
30. Switch back to your CSS document and add the following two styles (in bold) to appear immediately after your **nav** style. These styles will affect only the links in the navigation bar.

```
nav a:link, nav a:visited, nav a:active {  
    color:#ffffff; /*ensures the color of the basic link is white*/  
    text-decoration:none; /*removes underlining from the basic link*/  
}  
  
nav a:hover {  
    color:#ffcc00; /* mouse hovers over a link, change to yellow*/  
    text-decoration:underline; /*underlining will appear on hover*/  
}
```

31. Save the changes, switch to the index page and view it in **your browser**. You should notice changes made to the navigation bar links in your document. Close the browser when finished.
32. Switch back to the CSS document and add the following style to appear immediately below the **nav a:hover** style.

```
#logo {  
    margin-top:0px; /*zero off the top margin*/  
    margin-right:10px; /*make a 10 pixel right margin*/  
    margin-bottom:10px; /*make a 10 pixel bottom margin*/  
    margin-left:180px; /* 180 pixel left margin - room for the left column*/  
}
```

33. Save the changes, switch to the index page and view it in **your browser**. The Moons Landing logo should now appear in its final position on the page.
34. Switch back to the CSS document and add the following four styles to appear directly beneath the **#logo** style. These styles will format the left column and the links that appear within that column only.

```
#leftcol {  
    text-align:center; /*centres text appearing in the leftcol*/  
    width:180px; /*makes width of #leftcol id to 180 pixels*/  
    float:left; /*positions the leftcol to the left of the page*/  
}
```

```

/*this is a class, not an id - therefore a . is used */
.menuitem {
    margin-top:20px; /*sets the top margin to 20 pixels*/
    margin-left:20px; /*sets left margin to 20 pixels*/
    font-weight:bold; /*bolds text surrounded by the menuitem class*/
    border-bottom-style:dashed; /*places a dashed border on bottom*/
    border-bottom-width:1px; /*adjusts width of border to 1 pixel*/
    border-bottom-color:#758642; /*set colour of bottom border green*/
}

/* basic links within the menuitem class only*/
.menuitem a:link, .menuitem a:visited, .menuitem a:active {
    color:#660000; /*change color of link to burgundy*/
    text-decoration:none; /*remove the underlining*/
}

/* change to hovered over links within menuitem */
.menuitem a:hover{
    color:#cc6633; /*when hovered over, links to light brown-orange*/
    text-decoration; /*when hovered over, show underlining*/
}

```

35. Save the changes, switch to the index page and view it in the browser. The left column and links within this column should now be correctly formatted. Nearly done!

36. Switch back to the CSS document and add the following style to appear directly beneath the **.menuitem a:hover** style. This style will format the middle column.

```

#midcol {
    padding-left:36px; /*add spacing between the left & mid columns*/
    width:50%; /* width of the middle column 50% of the screen width*/
    float:left; /*line the mid col on the left, immediately next to the left column*/
}

```

37. Save the changes, switch to the index page and view it in your browser. The middle column should now be correctly formatted.

38. Switch back to the CSS document and add the following style to appear directly beneath the **#midcol** style. This style will format the right column.

```
#rightcol {
    text-align:center; /*centre all text in the right column*/
    font-size:10px; /*make the font size 10 pixels*/
    font-style:italic; /*change the font to italics*/
    line-height:18px; /*increase the line height to 18 pixels*/
    padding-left:10px; /*add some spacing between middle and right columns*/
    width:150px; /*make the width of the right column 150 pixels*/
    float:left; /*line the right column to the left, next to the middle column*/
}
```

39. Save the changes, switch to the index page and view it in your browser. The right column should now be correctly formatted and should include an image.

40. Switch back to the CSS document and add the following style to appear directly beneath the **#rightcol** style. This style will format the footer.

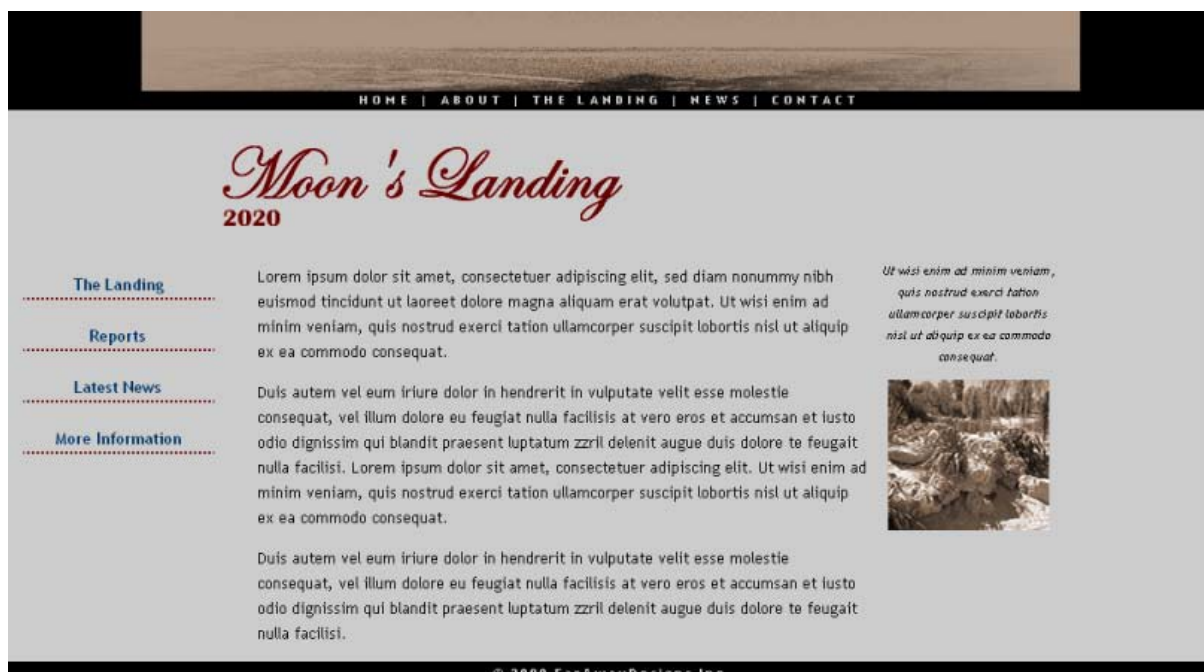
```
footer {
    clear:left; /* clears the all floats on the columns so the footer appears beneath them*/
    color:#ffffff; /*change the footer text color to white*/
    font-size:11px; /*change footer text size to 11 pixels*/
    font-weight:bold; /*bold text appearing in the footer*/
    background-color:#660000; /*make footer background colour burgundy*/
    text-align:center; /*center all text in the footer*/
    letter-spacing:2px; /*make spacing between footer chars 2 pixels*/
    height:16px; /*make the height of the footer 16 pixels*/
}
```

41. Save the changes, switch to the index page and view it in **your browser**. The footer should now appear correctly positioned and your webpage should appear similar to the following. If it does, well done!



YOUR TASK

1. Switch back to Code view and view your CSS document.
2. Make various changes to the CSS document, similar to the following
 - Change the body background colour and text colour
 - Change the colours and background colours of all the a: tags
 - Change the border style under the left column links
 - Adjust the pixel width of the left and right columns
 - Adjust the % width of the middle column
 - Find some appropriate images and replace the header and right column images.
3. An example of some changes you could make are below:



Upload or email your teacher a copy of your completed website with the changes.

